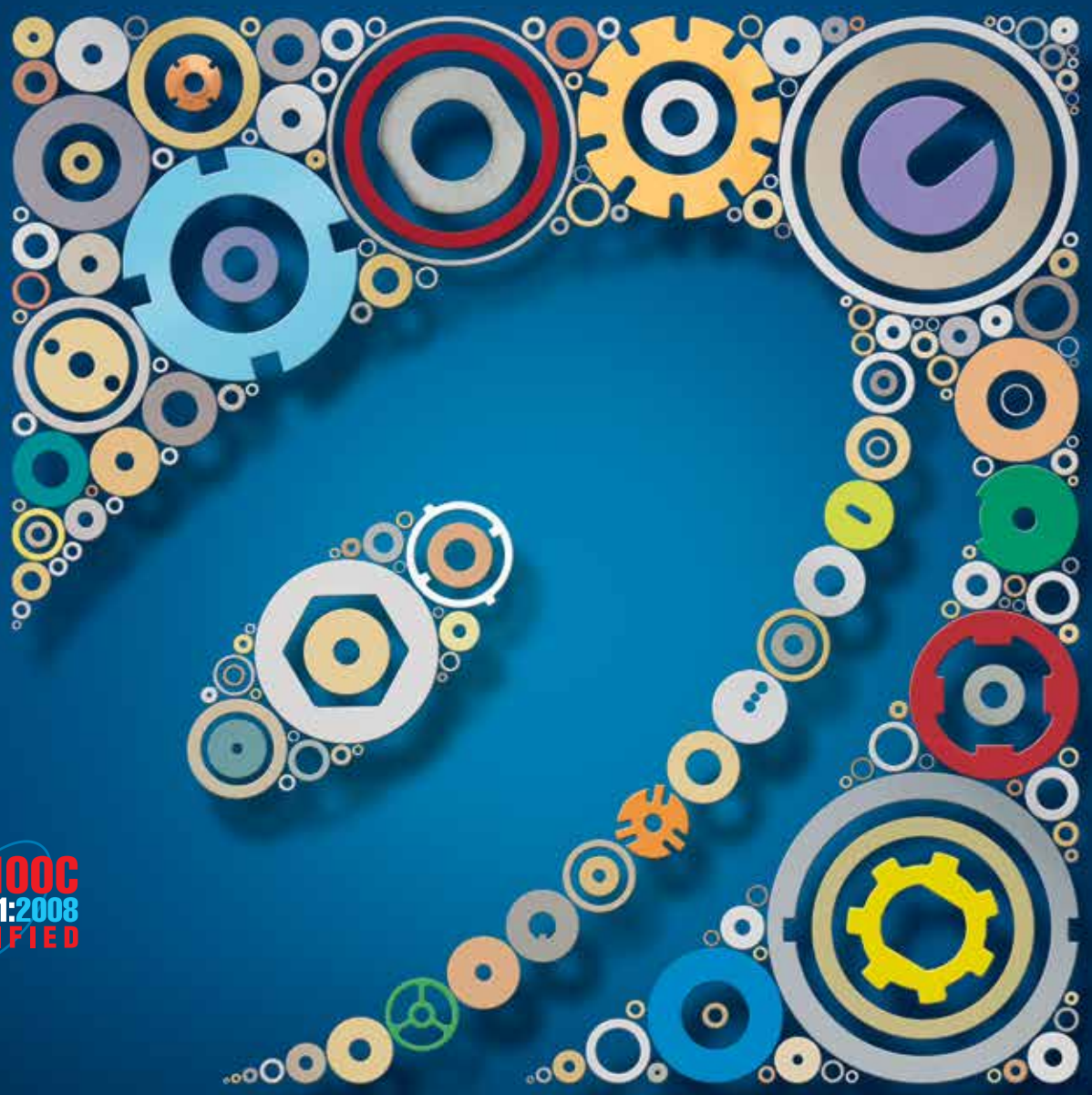
31,000 SIZES • 2,000 MATERIALS • ENDLESS POSSIBILITIES • FAST DELIVERY

WASHERS

2017 CATALOG



AS9100C
ISO9001:2008
CERTIFIED

BOKER'S, INC.®

WASHERS, SPACERS & SHIMS

SINCE 1919

bokers.com is Your Complete Resource for Made-to-Order Washers, Spacers and Shims

This complete catalog of washers and spacers is also available by accessing our website at **bokers.com**. This valuable resource makes finding the right size washer or spacer faster and easier than ever. You simply key in the desired size range by OD or ID and you get an immediate display of all available sizes in inch or millimeter measurements. There's nothing easier! Visit our website today!

Choose from a wide variety of sizes and materials with no tooling charges when you order non-standard flat washers and spacers from Boker's 2017 Catalog. With outside diameters of 0.080" to 5.140" and a wide variety of inside diameters and thicknesses as well as material variations, you have endless possibilities. In the 1.000" OD size alone, there are over 240 options available.

Special Shapes and Sizes

As the photo shows, Boker's can make special washer shapes and sizes, up to 12" in outside diameter. These custom items are made with very low tooling costs. They can be easily quoted by mailing, faxing or emailing us your print. Tell us what you need, and we'll make it to your exact specifications.

Metric Sizes No Problem!

All Boker's washer sizes are also available in metric measurements and searchable at **bokers.com**. To specify a specific metric size, simply send us your prints or call toll-free at (800) 927-4377.

Fast Delivery

At Boker's, fast delivery is the standard practice. Boker's can also meet your delivery and stocking requirements with flexible "Just-In-Time" (J.I.T.) and "Dock-to-Stock" programs. In case of an urgent requirement, your order can also be expedited for even faster delivery.

Minimum Quantity

Orders require a minimum production run of 100 pieces, though deliveries of lesser quantities can be arranged. Per-unit costs rapidly decrease as the quantity increases.

High-Volume Orders

Increased washer production capacity and enhanced technology allow Boker's quality non-standard washers to be manufactured quickly, well into the millions.

***New Tools Continually Added!* For the most up-to-date list of washer sizes, please visit bokers.com**

Over 2,000 Materials

To expedite your order and shorten delivery time, Boker's has immediate access to over 2,000 commonly specified and hard-to-find materials including low carbon, cold rolled strip and sheet steel; SAE 1050, 1075, and 1095 spring steel, blue and black temper spring steel, low alloy steel sheets, brass, copper, nickel silver, beryllium copper, phosphor bronze, stainless steel, aluminum; and several non-metallic materials such as acetal, PTFE, polyester, nylon, fiber, polyethylene, and NEMA grade laminates. Plus varieties of wrought cobalt, iron and nickel-base superalloys for demanding, high-performance applications. Certificates of Compliance or chemical/physical analysis are available upon request. Whatever your needs, if it can be stamped, Boker's can turn it into your washer or spacer.

Non-Metallic Washers and Spacers

The thickness ranges stated in this catalog are minimum and maximum values for metallic washers and spacers but may be suitable for non-metallic pieces as well. For easy reference, tools listed in **BOLD TYPE** can be considered for non-metallic items from .005" to .125" thick.

When determining the proper sized tool for your washer or spacer, the outside diameter (O.D.) listed in the catalog typically remains the same for both the metallic and non-metallic part. The inside diameter (I.D.), however, may shrink by as much as ten percent of the material thickness depending on the material used and its thickness.

Boker's estimates of these shrinkage factors are as follows:

MATERIAL	FACTOR %
Polycarbonate	10-12
Nylon	10
Polyethylene	10
Acetal	10
PVC	10
A.B.S.	10
MD Nylon	10

MATERIAL	FACTOR %
Polypropylene	5-10
PTFE	5
Polyester	5
Linen Phenolic	5
Vulcanized Fiber	0-5
FR-4	0-5
G-10	0-5

For assistance in determining the actual tool to be used, please contact one of our estimators at (800) 927-4377.

Secondary Operations

Boker's provides the secondary operations you require including deburring, tapping, counterboring, reaming, and spotfacing to name a few. Boker's also has approved vendors for heat treating, grinding and plating. See page 62 for a full list of equipment and capabilities.

Precision Fabrication

It's important for you to know that the washers and spacers you get from Boker's are going to meet your specifications. From the first part to the last... Those are not just words at Boker's, but the goal of the quality-conscious personnel who produce your precision parts with tolerances as close as the specifications demand, and sometimes even closer. Metallic washers and spacers are flat, tumble deburred, and can be heat treated or plated. As a final check, your parts are sent to the inspection department before your order is shipped.

AS9100C/ISO 9001:2008 Certified

Boker's takes their manufacturing practices very seriously and maintains AS9100C/ISO 9001:2008 certified status. This means when you purchase your products from Boker's you will have the confidence our processes are efficient and effective.

AS9100C
ISO9001:2008
CERTIFIED

Quality Assurance and Certification

- ✔ C of C
- ✔ PPAP
- ✔ DFARS
- ✔ RoHS
- ✔ S.P.C.
- ✔ F.A.I.
- ✔ AS9102
- ✔ Dock-To-Stock
- ✔ REACH
- ✔ ITAR

Boker's Environmental Compliance Statement

Boker's, Inc. is committed to responsible business practices that portray our dedication to our employees, customers and country. Boker's sources conflict-free material and services, in addition to materials that do not contain regulated or hazardous substances, from validated suppliers. These include, but are not limited to, tin, tantalum, tungsten and gold. It is important that our suppliers adhere to the laws put in place to ensure our values and commitments are reflected in our customer offering.

Selecting the Optimal Washer

Though this catalog's primary focus is to provide you with thousands of non-standard, round flat washer sizes that are available without tool charges, there are many specific applications that demand a more specialized washer type. Following is an overview of just some of the many washer styles Boker's produces, and what they are optimally designed for. To review Boker's complete Optimal Washer Solution guide, visit **bokers.com/washerguide**.

Flat: Most common washer category generally used for load disbursement. Internal and external shape may be round, symmetrically square, hexagonal or rectangular.

Tab: A type of lock washer designed with one or more tabs or notches to effectively lock a part into place, generally used where heat or heavy vibrations are a factor.

Lock: Designed to secure fasteners that have a tendency to rotate or lose friction. Often paired with a flat washer to evenly disburse load without deforming the assembly.

Cylindrically Curved: They offer the most uniform spring constant of any of the spring washer types.

Finishing: Also referred to as "countersunk" washers, finishing washers are often found on consumer products and used as an appearance part where the washer catches the head of a fastener, allowing it to sit flush with it's surrounding surface.

Shoulder: Shoulder washers, also known as "step" or "flange" washers, have an appearance of a low-crowned top hat and an integral cylindrical sleeve. The sleeve is designed to mate with a cutout and segregates the fastener from the material it is secured to.

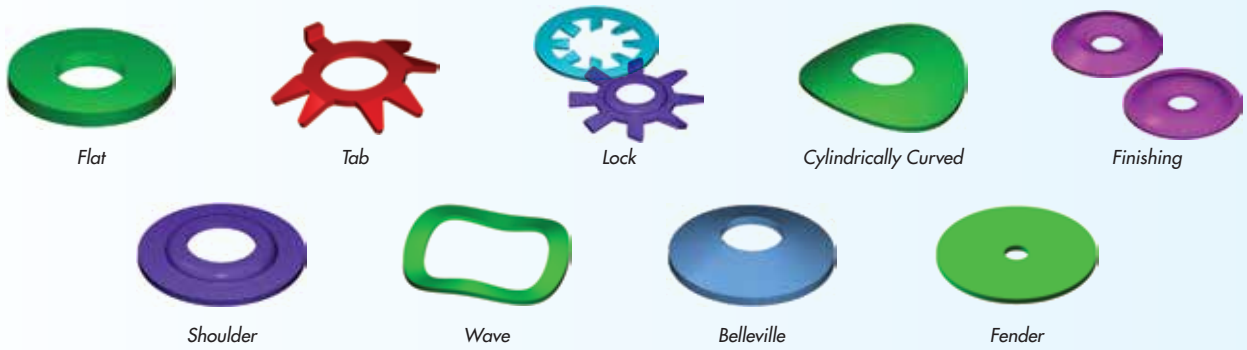
Wave: These washers are ideal for obtaining loads when the load is static or the working range is small and the amount of axial space is limited.

Belleville: Deliver the highest load capacity of all the spring washers and are very common in thermal expansion applications.

Fender: Fender washers have an outside diameter that is much larger in proportion to the center hole to distribute a load evenly across a large surface area.

Shim Stacks: Ideal for simple and complex applications as they offer exact dimensions for precise spacing.

Visit **bokers.com/washerguide** for more information.



Shim Stacks

Edge Conditions for Stampings and Washers

Burrs are a normal by-product of the metal stamping blank and piercing process. They can have ragged, sharp and uneven edges.

For more information, please contact one of our estimators for assistance at **800-927-4377**.

MATERIAL THICKNESS	WHEN DEBURRING IS NOT SPECIFIED	WHEN DEBURRING IS SPECIFIED SUCH AS "MUST BE BURR FREE"
.010" or less	.001"	**.0005"**
.011" – .039"	.002"	**.001"**
.040" – .079"	.003"	**.002"**
.080" – .125"	.004"	**.003"**
.126" or more	.006"	**.004"**

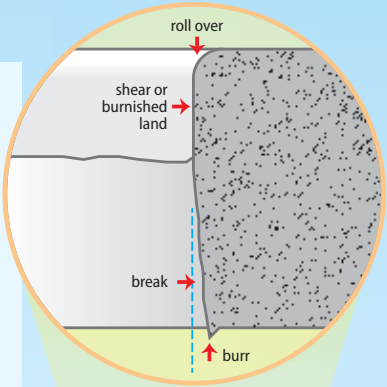
Boker's maximum burr on metallic washers and stampings

Feature Size: This is to be measured only in cut portion of the hole and cut portion of the outside diameter.

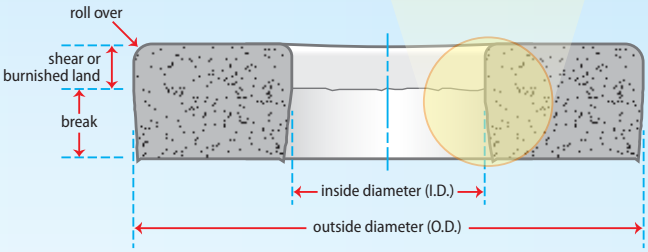
Shear or Burnished Land: This is a burnished area which is approximately one third of the material thickness.

Break: This is an area which is tapered about three degrees. This area has a rougher surface than the shear area.

Roll Over: This area is a natural consequence of the punching process and the mechanical properties of the material being punched and the die application techniques employed.



DETAIL CLOSE-UP



WASHER CROSS-SECTION

NEW! Boker's 3D Printing Prototyping Services

Boker's now offers additive manufacturing (3D printing) to provide customers with 3D prototypes. With our Stratasys 3D Printer, you'll be able to see how your product will turn out in advance. No more guess work or uncertainty. Only precision. This service allows customers to test parts for form, fit and function prior to production of the actual stamped part. Make sure to take advantage of our capabilities next time you work with us.

The Widest Range of Disks Available

All of Boker's 31,000 flat washer sizes are available without the I.D. hole. Disks, commonly referred to as discs, circles, plates and/or slugs, are typically round washers with or without a center hole. Functional uses of disks include providing a precise space between components or materials as well as load disbursement.

Boker's disks are offered with outside diameters ranging from 0.030″ to 12″ and with material thickness options ranging from 0.005″ to 0.134″. Boker's produces disks in more than 2,000 commonly specified and difficult-to-find materials.

100 YEARS

Approaching 100 Years of Dependability and Service

Boker's, Inc. has been a privately held, owner operated company dedicated to providing quality washers and stampings since 1919. Over the last 98 years Boker's has built a broad customer base spanning the globe. Our diversity in a variety of industries adds to our strength. We will continue to work hard to meet or exceed our customer's expectations, providing quality products on time. You can rest assured that we are here now and will be in the future.

STAY IN THE LOOP WITH BOKER'S *BULLETIN*

Your FREE online source for the latest stamping news and offerings from Boker's. This electronic newsletter is sent out on a quarterly basis and contains industry news as well as other metal forming industry information. Subscribe today by going to **bokersbulletin.com**

Your Source for Quality Stampings Too!

When your needs go beyond washers and spacers, Boker's is there to help you with full stamping capabilities. With over 98 years of experience in the stamping business, Boker's has developed the expertise necessary to produce the more complicated stampings with the same precision that goes into every one of your washers and spacers.

Boker's has specialized in producing high-quality metal stampings for over nine decades. Our precision manufacturing covers a complete range of sizes up to 12″ x 12″ (flat) with thicknesses from .005″ to .134″ and draws of up to 3″ deep and 8″ in diameter.

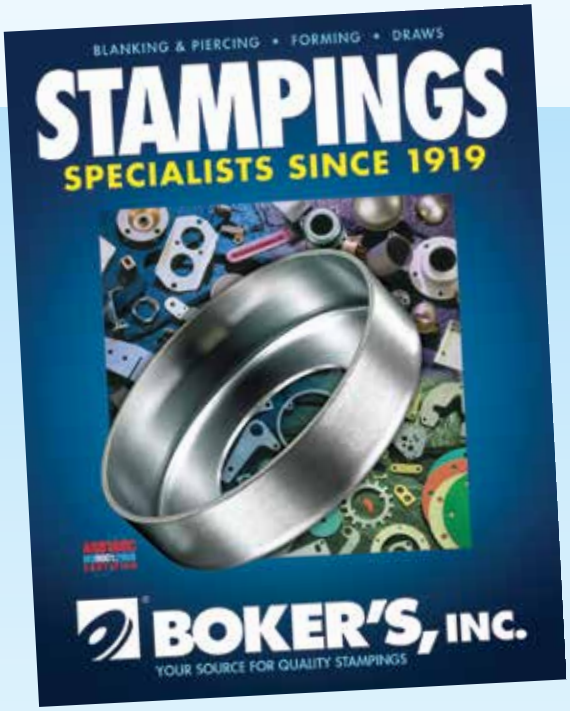
At Boker's, we utilize the latest stamping technologies and manufacturing concepts to continually provide you with stampings of the highest quality. This diligent effort to achieve and retain the highest quality possible in our metal stamping processes goes back to 1919.

Our process begins with our in-house tool department, where wire EDM-produced tooling provides the dimensional tolerances you require. Complete Statistical Process Control (S.P.C.) is available upon request to further assure accuracy throughout the manufacturing process. Our "Dock-to-Stock" capability saves you inspection time and is another example of our commitment to customer service. Boker's World Class Manufacturing also means we can meet your delivery requirements with flexible Just-In-Time (J.I.T.) programs.

Draws up to 3″ deep and 8″ in diameter

Complex metal forming from .005″ to .134″ thick

Flat blanking and piercings up to 12″ by 12″



Stampings Brochure

Our new 2017 Boker's Stampings Brochure offers eight pages of useful metal forming, flat blanking, piercing and draw capabilities information to help you make the most of our products. Inside, you'll find a useful gauge decimal equivalent chart, base elements index, and a comprehensive glossary of stamping terms that will help broaden your understanding of stampings. Contact your Boker's representative for a copy today.

Boker's can produce your most complex metal stamping needs in short, medium and long runs.

Boker's Non-Standard Washers and Spacers

This is our list of stock tools from which our washers are made to your order in any quantity without a tooling charge. We do NOT carry any washers in stock. You can choose an exact thickness for metal washers within the tool range indicated. For easy reference, tools in **BOLD TYPE** can be considered for non-metallic items from .005″ to .125″ thick. For the most up-to-date list of sizes, please visit **bokers.com**

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
.080	**.049**	**.005 - .010**	.109	.047	.012 - .020	**.124**	**.028**	**.005 - .010**	.136	.095	.012 - .020	.150	.057	.010 - .020	**.156**	**.115**	**.005 - .010**
.081	**.033**	**.005 - .010**	.109	.058	.010 - .020	**.124**	**.063**	**.005 - .010**	**.137**	**.049**	**.005 - .010**	**.150**	**.059**	**.005 - .010**	.157	.043	.020 - .030
.084	**.043**	**.005 - .010**	.109	.067	.008 - .018	.124	.065	.015 - .025	.137	.066	.012 - .025	**.150**	**.065**	**.005 - .010**	**.157**	**.057**	**.005 - .025**
.084	.048	.012 - .020	.110	.032	.010 - .015	.124	.066	.015 - .030	.137	.077	.020 - .030	.150	.066	.006 - .010	.157	.061	.010 - .020
.084	**.065**	**.005 - .010**	**.110**	**.054**	**.005 - .010**	**.124**	**.073**	**.005 - .010**	.137	.091	.008 - .016	**.150**	**.073**	**.005 - .010**	**.157**	**.064**	**.005 - .010**
.085	**.040**	**.005 - .010**	.110	.055	.010 - .020	**.125**	**.049**	**.005 - .010**	.138	.049	.010 - .020	.150	.077	.010 - .020	.157	.066	.010 - .020
.085	.048	.010 - .015	**.110**	**.073**	**.005 - .010**	**.125**	**.052**	**.005 - .012**	**.138**	**.070**	**.005 - .010**	.150	.087	.010 - .015	**.157**	**.086**	**.005 - .010**
.086	.027	.010 - .020	.111	.061	.010 - .020	.125	.054	.015 - .025	**.138**	**.073**	**.005 - .010**	**.150**	**.088**	**.005 - .010**	**.157**	**.088**	**.005 - .010**
.086	**.036**	**.005 - .008**	.111	.067	.015 - .025	.125	.055	.020 - .030	.138	.075	.015 - .030	.150	.089	.015 - .025	.157	.091	.010 - .020
.086	**.045**	**.005 - .010**	**.111**	**.082**	**.005 - .010**	.125	.060	.015 - .030	**.138**	**.088**	**.005 - .010**	.150	.090	.015 - .030	.157	.092	.010 - .020
.086	.048	.010 - .015	**.112**	**.039**	**.005 - .010**	.125	.062	.010 - .020	**.138**	**.102**	**.005 - .010**	**.150**	**.091**	**.005 - .012**	.157	.094	.020 - .030
.087	**.025**	**.005 - .010**	.112	.044	.012 - .020	**.125**	**.063**	**.005 - .020**	**.139**	**.047**	**.005 - .010**	.150	.099	.020 - .025	**.157**	**.096**	**.005 - .030**
.087	.043	.015 - .030	.112	.059	.015 - .025	.125	.064	.010 - .020	**.139**	**.053**	**.005 - .012**	.150	.116	.016 - .020	**.157**	**.120**	**.005 - .010**
.088	**.032**	**.005 - .010**	**.112**	**.061**	**.005 - .010**	**.125**	**.065**	**.005 - .030**	.139	.056	.010 - .020	.151	.056	.015 - .025	**.157**	**.127**	**.005 - .010**
.088	**.066**	**.005 - .015**	.112	.062	.015 - .025	**.125**	**.066**	**.005 - .030**	**.139**	**.057**	**.005 - .012**	**.151**	**.069**	**.005 - .010**	.158	.040	.010 - .020
.089	**.044**	**.005 - .010**	.112	.067	.015 - .025	.125	.067	.015 - .025	**.139**	**.063**	**.005 - .010**	**.151**	**.073**	**.005 - .010**	.158	.046	.012 - .025
.089	**.065**	**.005 - .015**	**.112**	**.073**	**.005 - .010**	.125	.068	.010 - .032	.139	.066	.015 - .030	.151	.077	.015 - .020	.158	.050	.020 - .035
.090	.030	.010 - .015	**.113**	**.052**	**.005 - .010**	**.125**	**.069**	**.005 - .010**	.139	.095	.010 - .020	.151	.078	.010 - .020	.158	.057	.010 - .020
.090	.050	.010 - .015	**.113**	**.074**	**.005 - .010**	.125	.072	.012 - .020	**.139**	**.097**	**.005 - .010**	.151	.083	.025 - .030	.158	.060	.020 - .030
.090	.054	.010 - .015	.114	.040	.030 - .040	.125	.076	.020 - .025	**.140**	**.062**	**.005 - .010**	.152	.094	.020 - .025	.158	.089	.020 - .032
.090	.064	.008 - .012	**.114**	**.044**	**.005 - .010**	**.125**	**.078**	**.005 - .010**	**.140**	**.073**	**.005 - .010**	.152	.095	.015 - .025	.158	.094	.025 - .035
.091	**.031**	**.005 - .010**	**.114**	**.066**	**.005 - .010**	.126	.042	.008 - .032	**.140**	**.082**	**.005 - .032**	**.152**	**.098**	**.005 - .010**	**.158**	**.095**	**.005 - .010**
.091	**.065**	**.005 - .010**	**.114**	**.073**	**.005 - .010**	**.126**	**.050**	**.005 - .012**	**.140**	**.090**	**.005 - .010**	**.152**	**.100**	**.005 - .010**	**.158**	**.098**	**.005 - .015**
.092	.027	.010 - .015	.115	.031	.010 - .020	.126	.052	.008 - .025	**.140**	**.095**	**.005 - .010**	.153	.056	.010 - .020	.158	.100	.015 - .020
.092	.041	.008 - .012	**.115**	**.033**	**.005 - .010**	.126	.057	.025 - .032	.140	.109	.010 - .015	**.153**	**.061**	**.005 - .010**	**.158**	**.101**	**.005 - .010**
.092	.043	.010 - .020	**.115**	**.061**	**.005 - .010**	.126	.062	.008 - .040	**.141**	**.061**	**.005 - .010**	**.153**	**.062**	**.005 - .010**	.158	.119	.015 - .025
.092	**.044**	**.005 - .010**	**.115**	**.079**	**.005 - .015**	**.126**	**.064**	**.005 - .010**	.141	.065	.015 - .025	.153	.073	.015 - .025	**.159**	**.077**	**.005 - .010**
.092	**.047**	**.005 - .010**	**.116**	**.037**	**.005 - .010**	**.126**	**.065**	**.005 - .015**	.141	.067	.010 - .016	.153	.077	.025 - .035	**.159**	**.081**	**.005 - .010**
.092	**.060**	**.005 - .010**	.116	.055	.010 - .020	**.126**	**.068**	**.005 - .010**	**.141**	**.076**	**.005 - .010**	**.153**	**.078**	**.005 - .015**	**.159**	**.095**	**.005 - .010**
.093	.036	.010 - .020	.116	.066	.015 - .025	**.126**	**.073**	**.005 - .010**	.141	.079	.015 - .025	.153	.081	.020 - .035	.159	.100	.010 - .025
.093	.049	.010 - .020	**.116**	**.067**	**.005 - .010**	**.126**	**.095**	**.005 - .015**	.141	.092	.015 - .025	.153	.095	.020 - .030	**.159**	**.110**	**.005 - .012**
.093	**.051**	**.005 - .020**	**.116**	**.073**	**.005 - .010**	**.126**	**.096**	**.005 - .010**	.142	.038	.015 - .030	.153	.100	.010 - .025	**.160**	**.060**	**.005 - .015**
.094	.062	.010 - .015	**.117**	**.032**	**.005 - .010**	.127	.039	.020 - .032	**.142**	**.073**	**.005 - .010**	.154	.073	.020 - .040	.160	.088	.010 - .020
.095	.024	.010 - .015	**.117**	**.035**	**.005 - .012**	.127	.042	.010 - .020	**.142**	**.076**	**.005 - .010**	**.154**	**.095**	**.005 - .010**	**.160**	**.090**	**.005 - .010**
.095	**.043**	**.005 - .010**	.117	.056	.010 - .015	.127	.047	.015 - .030	**.142**	**.078**	**.005 - .010**	**.154**	**.101**	**.005 - .010**	.160	.095	.025 - .040
.095	**.049**	**.005 - .010**	.118	.058	.010 - .020	.127	.065	.012 - .020	**.142**	**.083**	**.005 - .010**	.154	.110	.020 - .030	.161	.063	.015 - .030
.095	**.052**	**.005 - .010**	**.118**	**.073**	**.005 - .020**	.127	.067	.010 - .020	.142	.089	.020 - .030	**.154**	**.115**	**.005 - .010**	.161	.069	.010 - .020
.095	.056	.015 - .020	**.118**	**.075**	**.005 - .015**	.127	.077	.015 - .025	.142	.098	.010 - .015	.155	.064	.015 - .030	.161	.076	.015 - .030
.097	**.060**	**.005 - .010**	**.118**	**.080**	**.005 - .012**	.127	.083	.015 - .030	**.143**	**.052**	**.005 - .010**	**.155**	**.066**	**.005 - .010**	**.162**	**.061**	**.005 - .020**
.097	**.074**	**.005 - .010**	**.118**	**.091**	**.005 - .010**	.127	.093	.010 - .015	.143	.083	.015 - .025	**.155**	**.069**	**.005 - .015**	.162	.077	.012 - .020
.098	**.040**	**.005 - .010**	.120	.039	.010 - .020	.127	.094	.008 - .015	.143	.095	.010 - .020	.155	.072	.020 - .040	.162	.086	.020 - .032
.098	.064	.010 - .020	.120	.040	.010 - .020	.128	.056	.015 - .025	**.143**	**.097**	**.005 - .015**	.155	.076	.010 - .020	.162	.097	.010 - .020
.098	**.065**	**.005 - .010**	**.120**	**.041**	**.005 - .010**	**.128**	**.073**	**.005 - .010**	**.144**	**.065**	**.005 - .010**	.155	.078	.008 - .012	**.162**	**.112**	**.005 - .010**
.099	**.050**	**.005 - .010**	**.120**	**.050**	**.005 - .010**	.128	.076	.015 - .030	**.144**	**.073**	**.005 - .010**	**.155**	**.081**	**.005 - .010**	.163	.082	.015 - .030
.100	.026	.010 - .015	.120	.062	.010 - .020	**.128**	**.078**	**.005 - .010**	.144	.076	.010 - .020	**.155**	**.084**	**.005 - .010**	.163	.110	.015 - .020
.100	**.035**	**.005 - .010**	.120	.063	.015 - .030	**.128**	**.089**	**.005 - .010**	**.145**	**.056**	**.005 - .010**	.155	.094	.015 - .025	**.163**	**.128**	**.005 - .010**
.100	**.040**	**.005 - .010**	**.120**	**.065**	**.005 - .010**	**.128**	**.103**	**.005 - .010**	**.145**	**.068**	**.005 - .012**	**.155**	**.111**	**.005 - .010**	**.163**	**.129**	**.005 - .010**
.100	.055	.020 - .030	.120	.070	.015 - .030	.129	.083	.010 - .020	**.145**	**.090**	**.005 - .010**	.155	.124	.010 - .020	.164	.081	.010 - .020
.100	**.062**	**.005 - .010**	**.120**	**.073**	**.005 - .010**	.130	.061	.010 - .020	**.145**	**.097**	**.005 - .010**	.156	.044	.015 - .035	**.164**	**.087**	**.005 - .010**
.100	**.065**	**.005 - .020**	.120	.080	.010 - .016	.130	.063	.020 - .030	**.145**	**.116**	**.005 - .010**	**.156**	**.049**	**.005 - .015**	**.164**	**.100**	**.005 - .012**
.100	.067	.015 - .025	**.121**	**.043**	**.005 - .012**	**.130**	**.073**	**.005 - .010**	.146	.046	.010 - .020	.156	.052	.010 - .032	.164	.114	.010 - .020
.101	.036	.015 - .025	**.121**	**.047**	**.005 - .010**	**.131**	**.059**	**.005 - .012**	**.146**	**.065**	**.005 - .010**	**.156**	**.053**	**.005 - .012**	**.165**	**.040**	**.005 - .010**
.101	**.045**	**.005 - .030**	.121	.054	.010 - .025	**.132**	**.073**	**.005 - .010**	**.146**	**.073**	**.005 - .010**	.156	.062	.020 - .040	.165	.051	.010 - .015
.101	.049	.015 - .020	.121	.062	.010 - .020	**.133**	**.052**	**.005 - .010**	**.146**	**.107**	**.005 - .010**	.156	.064	.016 - .025	.165	.061	.025 - .040
.101	**.050**	**.005 - .010**	**.121**	**.072**	**.005 - .010**	**.133**	**.088**	**.005 - .010**	.147	.067	.020 - .032	.156	.065	.020 - .040	**.165**	**.071**	**.005 - .010**
.102	.040	.020 - .030	**.121**	**.092**	**.005 - .010**	.133	.096	.010 - .020	.147	.111	.010 - .025	.156	.066	.020 - .035	**.165**	**.073**	**.005 - .015**
.102	.053	.020 - .030	.122	.049	.010 - .020	**.134**	**.041**	**.005 - .010**	.148	.068	.010 - .020	.156	.067	.008 - .018	**.165**	**.075**	**.005 - .010**
.104	.044	.020 - .030	**.122**	**.056**	**.005 - .010**	.134	.070	.010 - .020	**.148**	**.073**	**.005 - .010**	.156	.068	.010 - .040	.165	.080	.015 - .025
.105	**.030**	**.005 - .015**	.122	.066	.020 - .030	**.134**	**.071**	**.005 - .010**	.148	.077	.010 - .020	.156	.070	.010 - .025	**.165**	**.083**	**.005 - .010**
.105	.037	.015 - .025	**.122**	**.073**	**.005 - .010**	**.134**	**.073**	**.005 - .010**	**.149**	**.036**	**.005 - .010**	**.156**	**.071**	**.005 - .020**	**.165**	**.090**	**.005 - .010**
.105	**.044**	**.005 - .010**	.122	.076	.010 - .020	**.134**	**.095**	**.005 - .010**	**.149**	**.079**	**.005 - .010**	.156	.077	.015 - .035	.165	.096	.015 - .030
.105	**.047**	**.005 - .010**	.122	.095	.008 - .015	**.135**	**.035**	**.005 - .010**	**.149**	**.086**	**.005 - .010**	**.156**	**.078**	**.005 - .010**	.165	.100	.015 - .025
.105	.056	.015 - .025	**.123**	**.032**	**.005 - .020**	**.135**	**.059**	**.005 - .010**	**.149**	**.095**	**.005 - .010**	.156	.080	.025 - .035	**.165**	**.125**	**.005 - .010**
.105	**.057**	**.005 - .010**	.123	.034	.020 - .030	**.135**	**.060**	**.005 - .010**	.149	.097	.015 - .025	.156	.088	.006 - .015	.165	.126	.015 - .025
.105	.063	.010 - .020	.123	.035	.010 - .020	**.135**	**.066**	**.005 - .010**	**.150**	**.033**	**.005 - .010**	.156	.094	.010 - .015	**.166**	**.062**	**.005 - .010**
.106	.065	.010 - .020	**.123**	**.036**	**.005 - .010**	**.135**	**.072**	**.005 - .015**	.150	.035	.010 - .020	**.156**	**.095**	**.005 - .010**	.166	.073	.010 - .020
.106	**.069**	**.005 - .012**	.123	.052	.020 - .040	**.135**	**.085**	**.005 - .010**	**.150**	**.041**	**.005 - .030**	.156	.098	.010 - .020	**.166**	**.075**	**.005 - .010**
.106	**.077**	**.005 - .012**	**.123**	**.058**	**.005 - .010**	.136	.064	.015 - .030	**.150**	**.044**	**.005 - .010**	.156	.100	.016 - .025	**.166**	**.081**	**.005 - .010**
.107	**.055**	**.005 - .012**	.123	.080	.010 - .020	**.136**	**.073**	**.005 - .010**	**.150**	**.046**	**.005 - .010**	.156	.103	.015 - .030	.166	.108	.010 - .020
.108	**.055**	**.005 - .020**	.123	.082	.010 - .020	**.136**	**.090**	**.005 - .010**	.150	.056	.015 - .020	**.156**	**.106**	**.005 - .010**	**.166**	**.125**	**.005 - .010**

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can be used for non-metallic materials – see page 3 for details.

For a size NOT listed, send specs or phone for quote — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
.166	**.129**	**.005 - .010**	**.178**	**.123**	**.005 - .010**	.186	.075	.015 - .025	**.189**	**.102**	**.005 - .010**	.198	.092	.010 - .030	**.203**	**.176**	**.005 - .010**
.167	**.031**	**.005 - .010**	.178	.137	.010 - .020	.186	.079	.015 - .040	.189	.108	.010 - .020	.198	.095	.015 - .030	**.204**	**.044**	**.005 - .010**
.167	.065	.010 - .020	**.178**	**.139**	**.005 - .010**	**.186**	**.086**	**.005 - .010**	**.189**	**.109**	**.005 - .010**	**.198**	**.097**	**.005 - .010**	.204	.075	.025 - .040
.167	**.078**	**.005 - .010**	**.179**	**.039**	**.005 - .010**	.186	.088	.015 - .025	**.189**	**.119**	**.005 - .010**	.198	.102	.020 - .030	**.204**	**.100**	**.005 - .010**
.167	.085	.010 - .020	.179	.101	.010 - .020	.186	.093	.015 - .030	.189	.136	.010 - .020	**.198**	**.114**	**.005 - .010**	.204	.105	.030 - .040
.167	.108	.010 - .020	**.179**	**.103**	**.005 - .010**	.186	.094	.025 - .035	**.190**	**.030**	**.005 - .010**	**.198**	**.116**	**.005 - .010**	.204	.125	.025 - .040
.168	**.082**	**.005 - .010**	**.179**	**.113**	**.005 - .010**	**.186**	**.096**	**.005 - .010**	**.190**	**.048**	**.005 - .010**	.198	.126	.020 - .030	.204	.143	.020 - .030
.168	.096	.025 - .040	.179	.115	.025 - .030	.186	.098	.012 - .025	**.190**	**.091**	**.005 - .010**	.198	.131	.020 - .040	.204	.157	.010 - .020
.168	**.130**	**.005 - .010**	.180	.081	.020 - .035	**.186**	**.099**	**.005 - .010**	.190	.095	.040 - .060	**.198**	**.147**	**.005 - .010**	.205	.038	.015 - .025
.169	.115	.015 - .025	**.180**	**.089**	**.005 - .032**	**.186**	**.103**	**.005 - .010**	.190	.113	.010 - .020	**.199**	**.050**	**.005 - .010**	.205	.050	.030 - .040
.170	**.034**	**.005 - .010**	.180	.090	.010 - .020	.186	.108	.010 - .020	.190	.128	.010 - .015	.199	.088	.030 - .050	.205	.079	.020 - .030
.170	.064	.015 - .032	.180	.094	.010 - .025	.186	.118	.030 - .040	.190	.130	.015 - .030	.199	.105	.030 - .050	.205	.094	.010 - .020
.170	.067	.010 - .020	**.180**	**.096**	**.005 - .010**	**.186**	**.119**	**.005 - .010**	**.190**	**.132**	**.005 - .010**	.199	.122	.010 - .020	.205	.097	.010 - .020
.170	.070	.020 - .030	.180	.100	.025 - .040	.186	.124	.020 - .030	**.191**	**.038**	**.005 - .010**	**.199**	**.154**	**.005 - .015**	.205	.112	.010 - .020
.170	.089	.015 - .025	.180	.114	.020 - .040	.186	.125	.010 - .030	.191	.039	.010 - .020	.199	.158	.015 - .020	.205	.115	.015 - .025
.170	**.097**	**.005 - .010**	**.180**	**.115**	**.005 - .010**	**.186**	**.126**	**.005 - .010**	.191	.063	.010 - .016	**.200**	**.026**	**.005 - .010**	.205	.131	.010 - .020
.170	.109	.025 - .035	**.180**	**.118**	**.005 - .010**	.186	.127	.010 - .015	.191	.065	.025 - .050	**.200**	**.053**	**.005 - .010**	.205	.137	.025 - .040
.170	**.121**	**.005 - .010**	**.180**	**.128**	**.005 - .010**	.186	.129	.020 - .040	.191	.069	.025 - .040	**.200**	**.057**	**.005 - .010**	.205	.147	.025 - .030
.171	**.065**	**.005 - .010**	**.180**	**.141**	**.005 - .010**	.186	.136	.010 - .020	.191	.075	.040 - .060	**.200**	**.066**	**.005 - .010**	**.206**	**.051**	**.005 - .015**
.171	.086	.030 - .050	**.181**	**.071**	**.005 - .010**	**.186**	**.155**	**.005 - .010**	**.191**	**.077**	**.005 - .030**	.200	.072	.020 - .030	**.206**	**.094**	**.005 - .010**
.171	**.090**	**.005 - .030**	.181	.078	.007 - .016	.187	.042	.015 - .030	.191	.092	.032 - .050	.200	.078	.020 - .030	**.206**	**.154**	**.005 - .010**
.171	.098	.007 - .015	**.181**	**.087**	**.005 - .010**	.187	.074	.015 - .030	.191	.104	.020 - .030	.200	.079	.010 - .020	**.206**	**.161**	**.005 - .010**
.171	.101	.010 - .020	**.181**	**.093**	**.005 - .010**	.187	.077	.020 - .040	.191	.119	.010 - .020	.200	.086	.025 - .040	**.207**	**.112**	**.005 - .010**
.171	.128	.010 - .020	.181	.095	.010 - .016	.187	.078	.025 - .050	**.191**	**.142**	**.005 - .010**	.200	.087	.025 - .040	.207	.127	.015 - .025
.171	.129	.010 - .020	.181	.116	.015 - .030	**.187**	**.080**	**.005 - .010**	.191	.162	.015 - .020	.200	.090	.010 - .020	.207	.132	.020 - .030
.171	**.130**	**.005 - .010**	.181	.127	.015 - .025	**.187**	**.081**	**.005 - .010**	.192	.091	.020 - .040	**.200**	**.092**	**.005 - .010**	.207	.133	.020 - .030
.172	**.036**	**.005 - .010**	**.181**	**.128**	**.005 - .025**	**.187**	**.082**	**.005 - .042**	**.192**	**.118**	**.005 - .010**	.200	.095	.015 - .025	.207	.144	.010 - .020
.172	**.074**	**.005 - .020**	.182	.052	.010 - .020	**.187**	**.084**	**.005 - .010**	.192	.120	.020 - .040	**.200**	**.096**	**.005 - .010**	**.207**	**.147**	**.005 - .010**
.172	.080	.015 - .025	.182	.057	.012 - .020	.187	.086	.030 - .050	**.192**	**.125**	**.005 - .010**	.200	.097	.015 - .030	.208	.099	.010 - .020
.172	.081	.020 - .030	.182	.068	.010 - .020	.187	.089	.010 - .030	**.192**	**.133**	**.005 - .010**	.200	.098	.015 - .025	**.208**	**.120**	**.005 - .060**
.172	.096	.020 - .032	.182	.083	.040 - .050	.187	.090	.025 - .040	.192	.149	.015 - .025	.200	.100	.040 - .050	.208	.127	.015 - .025
.172	.103	.010 - .020	.182	.094	.015 - .030	.187	.091	.015 - .025	.193	.075	.015 - .030	**.200**	**.101**	**.005 - .040**	.208	.128	.040 - .050
.172	.109	.020 - .040	.182	.110	.010 - .020	**.187**	**.095**	**.005 - .010**	.193	.095	.020 - .040	**.200**	**.102**	**.005 - .030**	.208	.129	.020 - .030
.172	**.128**	**.005 - .010**	**.182**	**.130**	**.005 - .016**	.187	.096	.010 - .025	.193	.103	.010 - .020	.200	.105	.010 - .025	**.208**	**.130**	**.005 - .010**
.173	.065	.015 - .030	**.182**	**.134**	**.005 - .010**	.187	.098	.015 - .025	**.193**	**.111**	**.005 - .010**	.200	.110	.025 - .035	**.208**	**.147**	**.005 - .010**
.173	.070	.020 - .030	.183	.067	.012 - .025	**.187**	**.100**	**.005 - .010**	**.193**	**.130**	**.005 - .010**	.200	.116	.010 - .020	**.208**	**.155**	**.005 - .010**
.173	.079	.020 - .030	.183	.090	.010 - .020	.187	.104	.032 - .042	**.193**	**.133**	**.005 - .010**	.200	.124	.020 - .036	.208	.163	.010 - .015
.173	**.088**	**.005 - .010**	.183	.096	.020 - .030	.187	.106	.015 - .040	.193	.162	.010 - .012	**.200**	**.125**	**.005 - .010**	**.209**	**.078**	**.005 - .010**
.173	.092	.020 - .035	**.183**	**.097**	**.005 - .010**	**.187**	**.108**	**.005 - .010**	.194	.065	.020 - .030	.200	.126	.020 - .036	.209	.090	.015 - .030
.173	.096	.020 - .040	.183	.101	.020 - .036	.187	.115	.015 - .032	.194	.068	.040 - .060	.200	.128	.025 - .040	**.209**	**.114**	**.005 - .010**
.173	.100	.010 - .020	**.183**	**.105**	**.005 - .010**	.187	.116	.010 - .020	**.194**	**.094**	**.005 - .010**	.200	.143	.015 - .030	.209	.116	.025 - .040
.173	.102	.010 - .020	.183	.106	.010 - .020	**.187**	**.122**	**.005 - .010**	**.195**	**.032**	**.005 - .010**	**.200**	**.153**	**.005 - .010**	**.209**	**.117**	**.005 - .010**
.173	.104	.016 - .025	.183	.118	.015 - .030	.187	.124	.020 - .030	.195	.075	.020 - .030	.200	.160	.020 - .030	.209	.128	.015 - .030
.173	.114	.010 - .020	**.183**	**.120**	**.005 - .010**	**.187**	**.125**	**.005 - .010**	.195	.076	.015 - .030	.200	.177	.010 - .020	.209	.143	.012 - .020
.173	**.117**	**.005 - .025**	.183	.131	.015 - .025	**.187**	**.126**	**.005 - .010**	**.195**	**.078**	**.005 - .008**	**.201**	**.038**	**.005 - .010**	.209	.146	.015 - .025
.174	.044	.020 - .030	**.183**	**.132**	**.005 - .010**	.187	.127	.010 - .020	.195	.099	.030 - .050	.201	.067	.010 - .020	**.209**	**.151**	**.005 - .010**
.174	.077	.010 - .020	**.183**	**.141**	**.005 - .020**	**.187**	**.128**	**.005 - .010**	.195	.100	.020 - .035	**.201**	**.078**	**.005 - .010**	**.210**	**.102**	**.005 - .010**
.174	.093	.040 - .060	.183	.143	.008 - .012	**.187**	**.129**	**.005 - .012**	.195	.102	.020 - .040	.201	.082	.020 - .040	**.210**	**.128**	**.005 - .010**
.174	.095	.020 - .032	.184	.062	.010 - .020	**.187**	**.135**	**.005 - .010**	.195	.108	.015 - .030	.201	.083	.020 - .030	.210	.155	.010 - .020
.174	.097	.025 - .040	**.184**	**.065**	**.005 - .010**	.188	.030	.020 - .032	**.195**	**.126**	**.005 - .020**	**.201**	**.086**	**.005 - .010**	.210	.162	.020 - .040
.174	**.106**	**.005 - .010**	.184	.086	.015 - .030	**.188**	**.031**	**.005 - .010**	**.195**	**.128**	**.005 - .030**	.201	.096	.020 - .040	.211	.084	.015 - .030
.174	.137	.010 - .020	.185	.070	.025 - .050	**.188**	**.046**	**.005 - .010**	.195	.145	.015 - .040	.201	.115	.015 - .025	**.211**	**.088**	**.005 - .010**
.175	**.056**	**.005 - .025**	.185	.075	.020 - .030	.188	.054	.030 - .050	.196	.050	.010 - .020	.201	.126	.020 - .032	.211	.091	.020 - .040
.175	.089	.015 - .030	.185	.076	.025 - .040	.188	.060	.020 - .040	.196	.055	.025 - .040	**.201**	**.134**	**.005 - .030**	**.211**	**.104**	**.005 - .010**
.175	**.090**	**.005 - .030**	.185	.078	.015 - .030	.188	.061	.025 - .040	.196	.075	.010 - .020	**.201**	**.141**	**.005 - .010**	.211	.106	.020 - .040
.175	**.092**	**.005 - .030**	**.185**	**.080**	**.005 - .010**	.188	.063	.010 - .015	.196	.086	.025 - .035	**.201**	**.148**	**.005 - .012**	.211	.111	.010 - .020
.175	**.099**	**.005 - .010**	.185	.083	.015 - .030	**.188**	**.071**	**.005 - .015**	**.196**	**.090**	**.005 - .010**	**.201**	**.161**	**.005 - .010**	**.211**	**.112**	**.005 - .010**
.175	.102	.020 - .030	.185	.086	.008 - .020	.188	.075	.030 - .050	**.196**	**.102**	**.005 - .010**	.202	.057	.010 - .020	**.211**	**.120**	**.005 - .010**
.175	.121	.010 - .020	.185	.089	.015 - .030	.188	.077	.010 - .015	**.196**	**.104**	**.005 - .010**	.202	.066	.015 - .025	.211	.129	.015 - .030
.175	.123	.030 - .040	**.185**	**.092**	**.005 - .035**	.188	.083	.025 - .040	.196	.105	.015 - .030	**.202**	**.067**	**.005 - .015**	.211	.133	.020 - .035
.175	.124	.025 - .030	.185	.093	.020 - .035	.188	.087	.010 - .020	.196	.117	.008 - .015	.202	.101	.015 - .025	.211	.142	.025 - .035
.175	**.127**	**.005 - .010**	**.185**	**.095**	**.005 - .025**	**.188**	**.093**	**.005 - .010**	.196	.122	.010 - .020	.202	.116	.015 - .020	**.211**	**.158**	**.005 - .010**
.175	.128	.015 - .020	.185	.097	.010 - .020	**.188**	**.094**	**.005 - .020**	**.196**	**.128**	**.005 - .010**	.202	.120	.015 - .032	.211	.163	.020 - .032
.176	**.053**	**.005 - .010**	**.185**	**.098**	**.005 - .010**	**.188**	**.095**	**.005 - .010**	**.196**	**.129**	**.005 - .025**	**.202**	**.126**	**.005 - .010**	**.211**	**.167**	**.005 - .010**
.176	**.081**	**.005 - .010**	.185	.110	.020 - .030	**.188**	**.102**	**.005 - .015**	.196	.130	.010 - .020	**.202**	**.128**	**.005 - .010**	**.212**	**.084**	**.005 - .010**
.176	.119	.010 - .020	.185	.118	.015 - .030	.188	.103	.020 - .030	.196	.140	.010 - .020	**.202**	**.134**	**.005 - .010**	.212	.093	.015 - .030
.177	**.053**	**.005 - .010**	.185	.119	.015 - .030	.188	.106	.010 - .020	**.196**	**.142**	**.005 - .010**	.202	.136	.020 - .032	.212	.120	.010 - .020
.177	**.070**	**.005 - .010**	.185	.126	.020 - .030	.188	.113	.020 - .040	**.196**	**.145**	**.005 - .012**	**.203**	**.056**	**.005 - .010**	**.212**	**.124**	**.005 - .010**
.177	**.081**	**.005 - .010**	**.185**	**.127**	**.005 - .010**	.188	.118	.015 - .025	.197	.055	.015 - .025	**.203**	**.063**	**.005 - .032**	**.212**	**.131**	**.005 - .010**
.177	.094	.007 - .015	.185	.128	.010 - .020	**.188**	**.119**	**.005 - .012**	**.197**	**.077**	**.005 - .010**	.203	.072	.015 - .040	**.212**	**.135**	**.005 - .015**
.177	**.099**	**.005 - .015**	**.185**	**.129**	**.005 - .015**	.188	.121	.010 - .025	.197	.091	.020 - .040	.203	.091	.010 - .040	.212	.137	.015 - .025
.177	**.113**	**.005 - .015**	**.185**	**.131**	**.005 - .010**	**.188**	**.122**	**.005 - .010**	**.197**	**.099**	**.005 - .010**	.203	.092	.030 - .040	**.212**	**.138**	**.005 - .012**
.177	.119	.030 - .042	**.185**	**.134**	**.005 - .010**	**.188**	**.128**	**.005 - .036**	**.197**	**.103**	**.005 - .010**	.203	.093	.040 - .060	.212	.158	.015 - .025
.177	.122	.015 - .020	.185	.136	.010 - .025	.188	.129	.020 - .030	**.197**	**.116**	**.005 - .010**	.203	.114	.015 - .040	**.213**	**.043**	**.005 - .012**
.177	**.125**	**.005 - .010**	**.185**	**.145**	**.005 - .010**	.188	.131	.020 - .030	**.197**	**.121**	**.005 - .010**	**.203**	**.123**	**.005 - .010**	.213	.066	.025 - .040
.177	**.127**	**.005 - .010**	.186	.028	.006 - .010	.189	.043	.025 - .040	.197	.122	.020 - .040	.203	.124	.010 - .020	.213	.077	.015 - .030
.178	.050	.030 - .040	**.186**	**.035**	**.005 - .010**	.189	.053	.030 - .040	**.197**	**.129**	**.005 - .010**	.203	.128	.015 - .025	**.213**	**.100**	**.005 - .010**
.178	.077	.015 - .030	**.186**	**.038**	**.005 - .010**	.189	.064	.010 - .050	.197	.139	.030 - .040	.203	.137	.020 - .040	**.213**	**.108**	**.005 - .010**
.178	**.113**	**.005 - .015**	.186	.046	.010 - .020	.189	.094	.040 - .060	.197	.147	.015 - .025	**.203**	**.170**	**.005 - .020**	.213	.110	.010 - .020
.178	.119	.030 - .042	.186	.064	.008 - .020	.189	.095	.025 - .045	.198	.088	.010 - .020	**.203**	**.175**	**.005 - .010**	.213	.130	.025 - .040

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

Call BOKER'S for precision stamping, assembly, and secondary operations.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
.213	**.154**	**.005 - .010**	.219	.129	.010 - .015	**.225**	**.141**	**.005 - .015**	.234	.134	.020 - .030	.240	.105	.010 - .020	**.247**	**.100**	**.005 - .010**
.213	.160	.010 - .025	.219	.130	.015 - .030	.225	.144	.015 - .030	.234	.135	.030 - .050	.240	.108	.025 - .040	**.247**	**.118**	**.005 - .020**
.213	.162	.020 - .030	**.219**	**.142**	**.005 - .010**	.225	.147	.025 - .040	.234	.138	.010 - .020	**.240**	**.109**	**.005 - .010**	.247	.119	.025 - .040
.214	**.050**	**.005 - .010**	.219	.147	.025 - .040	**.225**	**.150**	**.005 - .010**	**.234**	**.140**	**.005 - .010**	.240	.125	.025 - .060	.247	.125	.020 - .032
.214	.062	.015 - .030	.219	.156	.010 - .020	**.225**	**.164**	**.005 - .010**	.234	.142	.035 - .050	**.240**	**.131**	**.005 - .010**	.247	.126	.023 - .032
.214	.089	.010 - .020	**.219**	**.161**	**.005 - .035**	**.226**	**.087**	**.005 - .010**	.234	.192	.010 - .020	**.240**	**.135**	**.005 - .030**	.247	.127	.025 - .042
.214	.098	.010 - .020	**.219**	**.171**	**.005 - .010**	.226	.098	.015 - .050	**.235**	**.048**	**.005 - .010**	**.240**	**.136**	**.005 - .010**	.247	.132	.020 - .030
.214	.100	.015 - .025	**.219**	**.173**	**.005 - .010**	.226	.108	.020 - .030	.235	.068	.010 - .050	**.240**	**.139**	**.005 - .010**	**.247**	**.138**	**.005 - .010**
.214	.109	.020 - .030	**.220**	**.040**	**.005 - .010**	.226	.114	.025 - .040	.235	.086	.020 - .030	**.240**	**.151**	**.005 - .010**	**.247**	**.140**	**.005 - .010**
.214	**.126**	**.005 - .010**	.220	.051	.025 - .035	**.226**	**.129**	**.005 - .030**	.235	.088	.020 - .030	.240	.160	.015 - .040	.247	.141	.020 - .032
.214	.163	.010 - .020	.220	.063	.010 - .020	**.226**	**.175**	**.005 - .010**	**.235**	**.090**	**.005 - .010**	**.240**	**.188**	**.005 - .010**	**.247**	**.144**	**.005 - .010**
.214	**.166**	**.005 - .010**	.220	.065	.020 - .032	**.226**	**.193**	**.005 - .010**	**.235**	**.099**	**.005 - .010**	**.241**	**.103**	**.005 - .010**	**.247**	**.147**	**.005 - .010**
.214	.169	.010 - .015	**.220**	**.069**	**.005 - .010**	.227	.050	.010 - .020	.235	.102	.015 - .030	.241	.119	.020 - .035	.247	.158	.030 - .040
.214	**.180**	**.005 - .010**	.220	.070	.020 - .030	**.227**	**.127**	**.005 - .010**	.235	.108	.030 - .050	.241	.128	.015 - .030	.247	.159	.010 - .020
.215	.034	.010 - .030	**.220**	**.090**	**.005 - .010**	.227	.153	.020 - .032	.235	.114	.010 - .030	**.241**	**.148**	**.005 - .010**	**.247**	**.164**	**.005 - .010**
.215	**.063**	**.005 - .010**	**.220**	**.091**	**.005 - .040**	.228	.051	.020 - .030	.235	.126	.030 - .050	**.241**	**.162**	**.005 - .010**	.247	.169	.020 - .030
.215	.088	.010 - .015	**.220**	**.099**	**.005 - .010**	**.228**	**.091**	**.005 - .010**	.235	.130	.015 - .030	**.241**	**.180**	**.005 - .010**	**.247**	**.185**	**.005 - .010**
.215	.090	.042 - .062	**.220**	**.106**	**.005 - .015**	.228	.096	.010 - .020	.235	.131	.025 - .040	**.242**	**.072**	**.005 - .010**	.247	.190	.010 - .020
.215	.091	.010 - .025	.220	.108	.010 - .020	.228	.106	.020 - .035	.235	.134	.020 - .035	**.242**	**.100**	**.005 - .010**	**.247**	**.205**	**.005 - .010**
.215	.100	.010 - .050	**.220**	**.109**	**.005 - .010**	.228	.118	.010 - .050	.235	.138	.015 - .025	.242	.118	.010 - .020	**.247**	**.206**	**.005 - .010**
.215	.104	.010 - .020	.220	.113	.032 - .048	.228	.121	.010 - .020	.235	.139	.025 - .040	**.242**	**.128**	**.005 - .010**	.248	.052	.035 - .050
.215	**.106**	**.005 - .015**	.220	.114	.010 - .020	.228	.129	.020 - .030	.235	.152	.020 - .032	.242	.129	.015 - .025	.248	.063	.015 - .025
.215	.112	.020 - .040	.220	.117	.025 - .042	.228	.131	.015 - .030	.235	.156	.010 - .020	.242	.145	.010 - .015	.248	.067	.015 - .030
.215	.123	.015 - .035	.220	.122	.025 - .040	**.228**	**.148**	**.005 - .010**	**.235**	**.161**	**.005 - .010**	**.242**	**.146**	**.005 - .010**	.248	.078	.015 - .030
.215	**.127**	**.005 - .012**	.220	.125	.020 - .030	**.228**	**.167**	**.005 - .010**	.235	.164	.010 - .020	.242	.147	.010 - .020	**.248**	**.087**	**.005 - .015**
.215	.137	.010 - .015	.220	.127	.025 - .048	.229	.096	.010 - .020	.235	.167	.020 - .036	.242	.163	.025 - .035	.248	.089	.020 - .035
.215	.138	.020 - .030	.220	.128	.040 - .050	.229	.139	.015 - .025	**.235**	**.202**	**.005 - .010**	.242	.172	.025 - .040	.248	.091	.030 - .040
.215	.144	.030 - .050	.220	.129	.020 - .035	**.229**	**.149**	**.005 - .010**	.236	.055	.020 - .040	.242	.192	.012 - .020	**.248**	**.092**	**.005 - .015**
.215	**.162**	**.005 - .010**	.220	.140	.010 - .020	.229	.166	.010 - .020	**.236**	**.061**	**.005 - .010**	**.242**	**.194**	**.005 - .010**	**.248**	**.093**	**.005 - .030**
.215	**.164**	**.005 - .010**	.220	.144	.025 - .035	.230	.038	.020 - .030	.236	.070	.010 - .020	.243	.095	.015 - .025	.248	.094	.040 - .060
.215	**.166**	**.005 - .010**	.220	.147	.015 - .025	.230	.050	.020 - .030	**.236**	**.078**	**.005 - .010**	.243	.130	.010 - .050	**.248**	**.098**	**.005 - .010**
.215	.168	.010 - .020	**.220**	**.159**	**.005 - .010**	.230	.073	.015 - .030	.236	.080	.020 - .030	**.243**	**.133**	**.005 - .010**	.248	.100	.015 - .030
.215	**.170**	**.005 - .010**	.220	.166	.015 - .020	.230	.094	.042 - .062	.236	.082	.015 - .030	**.243**	**.136**	**.005 - .010**	.248	.106	.060 - .080
.216	.054	.015 - .032	.220	.177	.015 - .020	.230	.097	.010 - .020	.236	.091	.020 - .030	.243	.145	.010 - .020	.248	.118	.015 - .032
.216	**.055**	**.005 - .010**	**.220**	**.179**	**.005 - .010**	**.230**	**.108**	**.005 - .010**	.236	.094	.015 - .030	.243	.146	.010 - .020	.248	.120	.025 - .040
.216	.057	.020 - .030	.221	.061	.050 - .060	**.230**	**.120**	**.005 - .010**	.236	.097	.015 - .030	.243	.162	.020 - .035	.248	.122	.015 - .032
.216	.110	.010 - .020	**.221**	**.065**	**.005 - .010**	.230	.121	.010 - .020	.236	.098	.030 - .048	.243	.170	.010 - .020	.248	.123	.020 - .030
.216	.120	.010 - .020	.221	.084	.020 - .035	**.230**	**.130**	**.005 - .060**	.236	.107	.020 - .030	**.243**	**.188**	**.005 - .010**	**.248**	**.128**	**.005 - .040**
.216	**.126**	**.005 - .010**	.221	.099	.020 - .030	.230	.145	.010 - .040	**.236**	**.118**	**.005 - .010**	**.243**	**.198**	**.005 - .020**	.248	.129	.030 - .050
.216	**.148**	**.005 - .010**	.221	.106	.010 - .020	.230	.152	.010 - .020	**.236**	**.127**	**.005 - .010**	.244	.070	.020 - .030	**.248**	**.130**	**.005 - .010**
.216	.162	.010 - .020	**.221**	**.117**	**.005 - .010**	.230	.160	.010 - .020	**.236**	**.129**	**.005 - .010**	**.244**	**.088**	**.005 - .010**	.248	.133	.015 - .030
.217	.080	.020 - .030	.221	.122	.020 - .035	**.230**	**.167**	**.005 - .010**	.236	.130	.015 - .030	.244	.106	.015 - .030	.248	.135	.015 - .025
.217	.084	.015 - .030	.221	.125	.020 - .035	**.230**	**.176**	**.005 - .010**	**.236**	**.131**	**.005 - .010**	**.244**	**.119**	**.005 - .010**	.248	.152	.030 - .050
.217	.100	.030 - .050	.221	.126	.020 - .035	**.230**	**.180**	**.005 - .010**	**.236**	**.155**	**.005 - .010**	.244	.127	.010 - .015	**.248**	**.155**	**.005 - .010**
.217	.106	.015 - .030	.221	.130	.030 - .042	**.231**	**.046**	**.005 - .010**	**.236**	**.160**	**.005 - .010**	**.244**	**.147**	**.005 - .015**	.248	.158	.025 - .042
.217	.116	.008 - .016	**.221**	**.135**	**.005 - .010**	.231	.068	.020 - .030	**.236**	**.161**	**.005 - .010**	.244	.150	.015 - .030	.248	.176	.010 - .020
.217	.118	.050 - .070	**.221**	**.144**	**.005 - .010**	.231	.096	.050 - .070	**.236**	**.182**	**.005 - .010**	.244	.191	.015 - .030	.248	.208	.010 - .020
.217	.120	.025 - .040	.221	.156	.020 - .030	.231	.116	.040 - .060	**.236**	**.192**	**.005 - .010**	**.244**	**.192**	**.005 - .010**	.249	.075	.015 - .030
.217	.161	.015 - .030	.222	.050	.010 - .020	.231	.120	.035 - .048	**.236**	**.210**	**.005 - .010**	**.244**	**.195**	**.005 - .010**	.249	.100	.020 - .032
.217	**.166**	**.005 - .010**	.222	.093	.020 - .030	.231	.130	.010 - .020	.237	.070	.010 - .020	.244	.205	.010 - .020	**.249**	**.103**	**.005 - .010**
.217	**.191**	**.005 - .010**	.222	.095	.008 - .012	**.231**	**.146**	**.005 - .010**	.237	.108	.040 - .060	.245	.032	.010 - .015	.249	.112	.010 - .018
.218	.069	.015 - .025	.222	.114	.010 - .020	.231	.155	.010 - .020	**.237**	**.112**	**.005 - .010**	**.245**	**.045**	**.005 - .010**	.249	.116	.020 - .040
.218	.078	.025 - .042	.222	.116	.025 - .045	.231	.160	.010 - .015	**.237**	**.127**	**.005 - .030**	**.245**	**.055**	**.005 - .010**	.249	.121	.015 - .025
.218	.090	.015 - .030	.222	.129	.020 - .030	**.231**	**.173**	**.005 - .010**	**.237**	**.130**	**.005 - .020**	.245	.097	.025 - .040	.249	.123	.015 - .030
.218	.095	.010 - .050	.222	.134	.040 - .050	.232	.060	.030 - .050	.237	.148	.030 - .050	.245	.127	.010 - .030	**.249**	**.124**	**.005 - .010**
.218	.097	.012 - .025	.222	.140	.010 - .020	.232	.120	.015 - .025	.237	.157	.025 - .036	**.245**	**.128**	**.005 - .010**	.249	.127	.010 - .050
.218	.101	.020 - .030	.222	.142	.010 - .020	**.232**	**.133**	**.005 - .010**	**.237**	**.162**	**.005 - .010**	.245	.136	.025 - .040	.249	.128	.020 - .035
.218	**.105**	**.005 - .032**	.223	.059	.015 - .040	.232	.134	.010 - .020	.237	.164	.008 - .035	**.245**	**.141**	**.005 - .010**	**.249**	**.135**	**.005 - .010**
.218	.106	.020 - .032	**.223**	**.100**	**.005 - .010**	**.232**	**.136**	**.005 - .010**	.237	.193	.010 - .020	**.245**	**.159**	**.005 - .010**	.249	.137	.025 - .050
.218	.108	.008 - .020	.223	.102	.025 - .035	**.232**	**.155**	**.005 - .010**	.237	.194	.010 - .020	**.245**	**.185**	**.005 - .010**	**.249**	**.139**	**.005 - .040**
.218	.113	.025 - .040	**.223**	**.118**	**.005 - .015**	.232	.159	.006 - .016	.238	.071	.015 - .030	.245	.204	.010 - .020	.249	.143	.015 - .030
.218	**.116**	**.005 - .020**	.223	.127	.025 - .042	**.233**	**.040**	**.005 - .010**	.238	.126	.030 - .050	**.246**	**.055**	**.005 - .012**	.249	.144	.030 - .050
.218	**.119**	**.005 - .008**	**.223**	**.130**	**.005 - .010**	.233	.060	.010 - .025	**.238**	**.127**	**.005 - .010**	**.246**	**.080**	**.005 - .010**	**.249**	**.152**	**.005 - .010**
.218	**.127**	**.005 - .010**	.223	.132	.025 - .035	**.233**	**.110**	**.005 - .010**	**.238**	**.143**	**.005 - .010**	.246	.094	.010 - .020	.249	.158	.020 - .030
.218	**.128**	**.005 - .020**	.223	.135	.010 - .020	.233	.118	.020 - .040	.238	.146	.030 - .040	.246	.122	.025 - .040	.249	.160	.020 - .040
.218	.132	.008 - .015	.223	.139	.015 - .025	.233	.124	.010 - .020	.238	.181	.020 - .030	**.246**	**.128**	**.005 - .010**	.249	.170	.025 - .040
.218	**.137**	**.005 - .010**	**.223**	**.155**	**.005 - .010**	**.233**	**.127**	**.005 - .010**	.239	.068	.008 - .016	**.246**	**.131**	**.005 - .010**	.249	.172	.010 - .020
.218	.138	.020 - .040	**.223**	**.191**	**.005 - .010**	**.233**	**.130**	**.005 - .015**	**.239**	**.094**	**.005 - .010**	**.246**	**.134**	**.005 - .010**	**.249**	**.186**	**.005 - .010**
.218	.140	.015 - .025	.224	.075	.025 - .040	**.233**	**.155**	**.005 - .010**	.239	.131	.032 - .050	.246	.142	.015 - .030	.249	.189	.015 - .032
.218	.141	.025 - .036	**.224**	**.139**	**.005 - .012**	.233	.163	.010 - .015	.239	.141	.015 - .030	**.246**	**.170**	**.005 - .010**	**.249**	**.190**	**.005 - .008**
.218	.143	.015 - .030	**.224**	**.141**	**.005 - .010**	.233	.170	.020 - .030	.239	.142	.015 - .030	.246	.180	.010 - .020	.249	.193	.008 - .012
.218	.169	.015 - .025	**.225**	**.063**	**.005 - .010**	**.233**	**.173**	**.005 - .010**	**.239**	**.148**	**.005 - .010**	.246	.182	.020 - .030			
.219	.070	.020 - .030	.225	.090	.015 - .030	**.233**	**.191**	**.005 - .010**	.239	.161	.030 - .050	.246	.197	.015 - .025			
.219	**.085**	**.005 - .010**	**.225**	**.092**	**.005 - .010**	**.234**	**.039**	**.005 - .010**	.239	.163	.030 - .040	.247	.051	.010 - .020			
.219	**.090**	**.005 - .010**	.225	.101	.015 - .030	.234	.066	.042 - .062	**.239**	**.181**	**.005 - .010**	.247	.063	.030 - .050			
.219	.103	.010 - .020	.225	.111	.015 - .030	.234	.096	.042 - .060	**.239**	**.190**	**.005 - .015**	.247	.080	.010 - .040			
.219	**.106**	**.005 - .020**	**.225**	**.113**	**.005 - .010**	**.234**	**.121**	**.005 - .020**	**.240**	**.024**	**.005 - .010**	.247	.090	.020 - .030		**.250**	
.219	.124	.020 - .040	.225	.125	.015 - .032	.234	.126	.015 - .025	**.240**	**.072**	**.005 - .010**	.247	.091	.030 - .050			
.219	.126	.010 - .030	.225	.129	.030 - .050	.234	.128	.015 - .030	.240	.090	.020 - .030	.247	.095	.040 - .060			
.219	.127	.030 - .040	**.225**	**.135**	**.005 - .015**	**.234**	**.129**	**.005 - .010**	.240	.102	.010 - .020	**.247**	**.097**	**.005 - .020**			

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

New tools added continually. Call for sizes not listed — (800) 927-4377, Fax (800) 321-3462.

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
.250	**.027**	**.005 - .010**	**.251**	**.138**	**.005 - .010**	.260	.108	.015 - .030	.267	.144	.020 - .030	.275	.081	.020 - .040	.279	.197	.015 - .030
.250	**.039**	**.005 - .025**	.251	.145	.015 - .048	.260	.113	.015 - .030	**.267**	**.168**	**.005 - .010**	.275	.091	.020 - .040	.279	.217	.015 - .030
.250	**.044**	**.005 - .015**	.251	.146	.015 - .030	.260	.120	.020 - .060	.267	.170	.030 - .050	**.275**	**.096**	**.005 - .010**	**.279**	**.232**	**.005 - .010**
.250	**.052**	**.005 - .012**	.251	.149	.040 - .050	.260	.121	.007 - .015	.267	.178	.025 - .040	.275	.098	.030 - .050	.279	.247	.010 - .015
.250	**.063**	**.005 - .010**	.251	.151	.025 - .040	.260	.128	.040 - .060	**.267**	**.190**	**.005 - .008**	**.275**	**.115**	**.005 - .010**	**.280**	**.067**	**.005 - .015**
.250	**.072**	**.005 - .012**	.251	.157	.040 - .060	.260	.129	.025 - .040	.267	.205	.015 - .030	.275	.118	.020 - .040	.280	.079	.030 - .050
.250	.077	.012 - .025	**.251**	**.158**	**.005 - .015**	.260	.144	.020 - .040	.267	.211	.020 - .030	.275	.122	.020 - .040	.280	.105	.015 - .032
.250	**.082**	**.005 - .010**	**.251**	**.160**	**.005 - .010**	**.260**	**.148**	**.005 - .012**	.268	.109	.015 - .030	.275	.126	.010 - .020	.280	.115	.015 - .030
.250	.083	.015 - .020	.251	.162	.025 - .042	**.260**	**.158**	**.005 - .020**	.268	.124	.015 - .030	**.275**	**.135**	**.005 - .012**	.280	.118	.010 - .020
.250	**.085**	**.005 - .030**	.251	.187	.010 - .020	.260	.163	.020 - .040	.268	.147	.032 - .050	.275	.143	.010 - .020	.280	.122	.025 - .048
.250	.091	.020 - .030	**.251**	**.188**	**.005 - .008**	**.260**	**.167**	**.005 - .010**	**.268**	**.173**	**.005 - .010**	.275	.144	.040 - .050	.280	.126	.020 - .030
.250	.093	.062 - .083	**.251**	**.190**	**.005 - .015**	.260	.170	.040 - .060	**.268**	**.179**	**.005 - .010**	.275	.163	.015 - .025	**.280**	**.127**	**.005 - .010**
.250	**.094**	**.005 - .025**	**.251**	**.192**	**.005 - .010**	.260	.173	.020 - .040	.268	.199	.010 - .020	.275	.166	.020 - .030	.280	.128	.010 - .032
.250	.095	.007 - .040	**.251**	**.195**	**.005 - .010**	**.260**	**.175**	**.005 - .010**	**.268**	**.202**	**.005 - .015**	.275	.170	.032 - .048	.280	.133	.020 - .040
.250	.097	.030 - .080	.251	.200	.015 - .025	.260	.176	.020 - .040	.268	.213	.010 - .020	.275	.180	.020 - .040	**.280**	**.134**	**.005 - .010**
.250	.098	.010 - .025	.251	.205	.007 - .015	**.260**	**.188**	**.005 - .015**	.269	.139	.020 - .030	.275	.189	.030 - .050	.280	.135	.020 - .035
.250	.099	.032 - .050	**.251**	**.214**	**.005 - .010**	.260	.190	.010 - .020	.269	.156	.015 - .025	**.275**	**.190**	**.005 - .010**	.280	.145	.032 - .050
.250	.100	.025 - .040	.252	.078	.060 - .072	.260	.205	.010 - .020	.269	.158	.010 - .020	**.275**	**.192**	**.005 - .010**	**.280**	**.148**	**.005 - .010**
.250	.102	.015 - .060	**.252**	**.099**	**.005 - .010**	.261	.104	.050 - .070	.269	.160	.015 - .030	**.275**	**.200**	**.005 - .010**	.280	.155	.025 - .045
.250	.103	.015 - .060	.252	.103	.015 - .025	**.261**	**.110**	**.005 - .010**	.269	.161	.048 - .062	.275	.203	.030 - .050	.280	.156	.040 - .060
.250	**.105**	**.005 - .035**	.252	.120	.010 - .020	.261	.111	.030 - .050	.269	.179	.025 - .040	.275	.242	.010 - .020	.280	.161	.015 - .030
.250	**.108**	**.005 - .010**	.252	.127	.030 - .050	**.261**	**.201**	**.005 - .010**	**.269**	**.190**	**.005 - .010**	**.276**	**.081**	**.005 - .010**	**.280**	**.169**	**.005 - .015**
.250	**.110**	**.005 - .030**	**.252**	**.128**	**.005 - .010**	**.261**	**.206**	**.005 - .010**	**.269**	**.213**	**.005 - .010**	.276	.091	.015 - .025	.280	.193	.010 - .015
.250	.116	.020 - .040	.252	.141	.020 - .040	.262	.062	.020 - .030	**.270**	**.079**	**.005 - .010**	.276	.109	.015 - .040	**.280**	**.201**	**.005 - .010**
.250	.117	.020 - .040	.252	.146	.008 - .016	.262	.117	.015 - .030	**.270**	**.096**	**.005 - .025**	.276	.112	.030 - .050	.280	.202	.025 - .040
.250	.120	.030 - .050	.252	.159	.025 - .040	**.262**	**.129**	**.005 - .010**	.270	.099	.020 - .030	.276	.114	.040 - .060	.280	.217	.020 - .030
.250	**.122**	**.005 - .060**	.252	.191	.010 - .040	**.262**	**.142**	**.005 - .010**	.270	.109	.015 - .030	.276	.122	.008 - .016	.280	.236	.010 - .032
.250	.124	.010 - .032	.252	.195	.012 - .020	.262	.156	.015 - .030	**.270**	**.113**	**.005 - .010**	.276	.126	.020 - .030	.281	.052	.010 - .020
.250	.125	.010 - .050	.252	.197	.020 - .030	.262	.188	.025 - .040	.270	.132	.025 - .035	**.276**	**.133**	**.005 - .010**	.281	.067	.032 - .050
.250	**.126**	**.005 - .020**	**.252**	**.205**	**.005 - .010**	.262	.192	.020 - .030	.270	.135	.031 - .042	.276	.141	.040 - .060	.281	.094	.040 - .060
.250	.127	.007 - .050	.253	.048	.040 - .050	.262	.199	.020 - .040	.270	.148	.010 - .020	**.276**	**.142**	**.005 - .010**	**.281**	**.096**	**.005 - .010**
.250	**.128**	**.005 - .062**	.253	.053	.010 - .020	**.263**	**.061**	**.005 - .010**	**.270**	**.160**	**.005 - .010**	.276	.143	.015 - .030	.281	.112	.040 - .050
.250	.129	.010 - .050	.253	.056	.025 - .040	.263	.091	.025 - .040	**.270**	**.180**	**.005 - .010**	**.276**	**.146**	**.005 - .015**	.281	.117	.025 - .040
.250	**.130**	**.005 - .042**	.253	.096	.025 - .040	.263	.129	.010 - .020	**.270**	**.207**	**.005 - .010**	.276	.153	.020 - .035	.281	.122	.010 - .020
.250	**.131**	**.005 - .060**	**.253**	**.115**	**.005 - .012**	.263	.158	.030 - .050	.270	.210	.020 - .040	.276	.159	.030 - .050	**.281**	**.126**	**.005 - .010**
.250	.132	.032 - .052	**.253**	**.116**	**.005 - .012**	**.263**	**.191**	**.005 - .010**	.271	.127	.015 - .025	**.276**	**.161**	**.005 - .015**	**.281**	**.132**	**.005 - .010**
.250	**.134**	**.005 - .010**	.253	.125	.040 - .060	**.263**	**.193**	**.005 - .010**	.271	.130	.008 - .015	.276	.162	.010 - .020	.281	.134	.040 - .060
.250	.135	.030 - .048	.253	.127	.020 - .030	**.263**	**.195**	**.005 - .010**	**.271**	**.138**	**.005 - .040**	**.276**	**.167**	**.005 - .010**	.281	.142	.010 - .030
.250	**.136**	**.005 - .010**	.253	.132	.025 - .040	.263	.199	.010 - .025	**.271**	**.146**	**.005 - .010**	.276	.192	.030 - .040	**.281**	**.143**	**.005 - .010**
.250	**.140**	**.005 - .060**	.253	.145	.025 - .040	.264	.108	.025 - .040	.271	.175	.030 - .050	**.276**	**.196**	**.005 - .010**	**.281**	**.156**	**.005 - .010**
.250	.146	.010 - .020	.253	.166	.020 - .040	.264	.139	.015 - .025	.271	.190	.015 - .025	.276	.200	.010 - .020	.281	.159	.015 - .030
.250	**.147**	**.005 - .050**	.253	.190	.020 - .040	**.264**	**.147**	**.005 - .010**	.271	.199	.015 - .025	.276	.209	.010 - .020	.281	.162	.010 - .050
.250	**.150**	**.005 - .015**	.253	.191	.020 - .040	.264	.162	.025 - .040	.271	.221	.020 - .030	**.277**	**.088**	**.005 - .010**	.281	.170	.016 - .032
.250	.153	.010 - .020	**.253**	**.192**	**.005 - .010**	.264	.168	.015 - .025	.272	.032	.010 - .020	.277	.092	.010 - .020	**.281**	**.173**	**.005 - .010**
.250	.154	.015 - .025	**.253**	**.197**	**.005 - .010**	.264	.174	.050 - .060	.272	.093	.025 - .042	**.277**	**.108**	**.005 - .010**	.281	.185	.015 - .030
.250	.157	.025 - .040	.254	.051	.030 - .050	**.264**	**.240**	**.005 - .010**	.272	.095	.015 - .030	**.277**	**.126**	**.005 - .010**	**.281**	**.186**	**.005 - .010**
.250	.158	.015 - .030	.254	.117	.010 - .020	.265	.093	.060 - .080	**.272**	**.120**	**.005 - .010**	**.277**	**.127**	**.005 - .008**	.281	.187	.015 - .030
.250	.159	.020 - .036	.254	.127	.025 - .040	.265	.101	.020 - .040	.272	.121	.020 - .040	.277	.129	.050 - .070	.282	.082	.030 - .040
.250	**.161**	**.005 - .010**	**.254**	**.159**	**.005 - .010**	.265	.115	.040 - .050	.272	.132	.015 - .030	.277	.132	.015 - .025	.282	.089	.075 - .093
.250	.162	.032 - .042	.254	.160	.025 - .042	.265	.122	.020 - .040	.272	.156	.030 - .048	.277	.140	.020 - .030	.282	.096	.015 - .025
.250	.164	.010 - .020	.254	.194	.025 - .042	**.265**	**.125**	**.005 - .010**	.272	.169	.032 - .042	**.277**	**.143**	**.005 - .010**	**.282**	**.123**	**.005 - .015**
.250	.165	.010 - .020	**.254**	**.201**	**.005 - .010**	.265	.126	.020 - .040	.272	.192	.015 - .032	.277	.146	.050 - .070	.282	.126	.015 - .025
.250	**.166**	**.005 - .012**	**.254**	**.205**	**.005 - .010**	**.265**	**.129**	**.005 - .010**	.272	.194	.010 - .020	.277	.161	.015 - .030	.282	.127	.040 - .060
.250	.167	.010 - .045	**.255**	**.097**	**.005 - .010**	**.265**	**.141**	**.005 - .010**	**.272**	**.220**	**.005 - .010**	.277	.163	.015 - .025	**.282**	**.130**	**.005 - .010**
.250	**.172**	**.005 - .010**	.255	.101	.030 - .050	.265	.143	.040 - .062	**.273**	**.104**	**.005 - .010**	**.277**	**.166**	**.005 - .008**	.282	.173	.025 - .040
.250	.173	.025 - .040	.255	.105	.025 - .040	**.265**	**.153**	**.005 - .010**	.273	.108	.015 - .030	.277	.170	.015 - .030	**.282**	**.176**	**.005 - .010**
.250	**.175**	**.005 - .010**	.255	.109	.010 - .020	**.265**	**.160**	**.005 - .010**	.273	.118	.015 - .030	**.277**	**.195**	**.005 - .010**	.282	.180	.025 - .040
.250	.176	.025 - .040	.255	.135	.015 - .030	.265	.161	.010 - .030	.273	.141	.015 - .025	.277	.201	.010 - .020	.282	.184	.006 - .016
.250	.186	.010 - .020	.255	.149	.040 - .050	.265	.166	.010 - .015	**.273**	**.144**	**.005 - .010**	**.278**	**.087**	**.005 - .010**	.282	.187	.040 - .050
.250	.189	.010 - .020	.255	.164	.035 - .050	.265	.183	.025 - .040	**.273**	**.148**	**.005 - .010**	**.278**	**.103**	**.005 - .010**	.282	.191	.025 - .040
.250	.190	.010 - .020	**.255**	**.167**	**.005 - .010**	**.265**	**.189**	**.005 - .010**	.273	.149	.020 - .030	.278	.135	.040 - .062	.282	.197	.010 - .020
.250	.191	.010 - .020	.255	.195	.040 - .060	.266	.082	.015 - .030	.273	.163	.020 - .040	.278	.141	.010 - .020	.282	.223	.007 - .015
.250	.192	.025 - .030	.256	.119	.040 - .060	**.266**	**.090**	**.005 - .010**	**.273**	**.173**	**.005 - .010**	.278	.142	.025 - .040	**.283**	**.095**	**.005 - .010**
.251	.036	.010 - .020	.256	.164	.025 - .042	**.266**	**.106**	**.005 - .010**	.273	.203	.020 - .030	.278	.151	.015 - .030	.283	.096	.015 - .030
.251	**.057**	**.005 - .012**	.257	.067	.015 - .030	.266	.110	.010 - .020	**.274**	**.032**	**.005 - .010**	**.278**	**.155**	**.005 - .010**	.283	.098	.032 - .062
.251	**.059**	**.005 - .010**	.257	.078	.025 - .040	.266	.121	.020 - .040	**.274**	**.052**	**.005 - .010**	**.278**	**.183**	**.005 - .010**	.283	.111	.010 - .020
.251	.063	.025 - .040	**.257**	**.095**	**.005 - .010**	.266	.123	.031 - .048	**.274**	**.093**	**.005 - .040**	**.278**	**.190**	**.005 - .010**	.283	.140	.025 - .042
.251	.074	.025 - .050	.257	.191	.010 - .020	.266	.131	.036 - .060	**.274**	**.095**	**.005 - .010**	.278	.191	.015 - .032	.283	.143	.010 - .015
.251	**.076**	**.005 - .010**	**.257**	**.213**	**.005 - .010**	.266	.134	.025 - .040	**.274**	**.121**	**.005 - .010**	.278	.224	.010 - .020	.283	.165	.008 - .015
.251	**.093**	**.005 - .010**	.258	.067	.015 - .030	.266	.168	.025 - .040	.274	.127	.030 - .060	**.278**	**.236**	**.005 - .010**	**.283**	**.166**	**.005 - .010**
.251	.101	.025 - .040	.258	.095	.015 - .025	.266	.171	.020 - .035	.274	.132	.025 - .035	**.279**	**.045**	**.005 - .015**	.283	.168	.025 - .040
.251	.108	.020 - .040	**.258**	**.149**	**.005 - .010**	.266	.179	.020 - .030	.274	.170	.030 - .050	**.279**	**.103**	**.005 - .010**	.283	.173	.030 - .040
.251	.113	.030 - .050	**.258**	**.154**	**.005 - .010**	.266	.185	.015 - .025	.274	.172	.040 - .060	.279	.116	.010 - .020	**.283**	**.184**	**.005 - .010**
.251	.115	.040 - .060	.258	.163	.015 - .030	**.266**	**.202**	**.005 - .010**	.274	.174	.035 - .050	.279	.129	.010 - .015	.283	.190	.008 - .015
.251	.122	.035 - .050	.258	.169	.020 - .030	**.266**	**.218**	**.005 - .010**	.274	.175	.040 - .050	.279	.139	.032 - .048	.283	.200	.010 - .020
.251	.125	.010 - .020	**.258**	**.177**	**.005 - .015**	.267	.059	.010 - .020	**.274**	**.191**	**.005 - .020**	.279	.140	.030 - .040	**.283**	**.216**	**.005 - .030**
.251	.127	.010 - .025	**.259**	**.116**	**.005 - .010**	.267	.100	.030 - .050	**.274**	**.211**	**.005 - .010**	.279	.144	.025 - .040	**.283**	**.217**	**.005 - .010**
.251	.130	.015 - .030	**.259**	**.160**	**.005 - .010**	**.267**	**.125**	**.005 - .010**	**.274**	**.237**	**.005 - .010**	.279	.156	.020 - .030	**.283**	**.218**	**.005 - .025**
.251	**.131**	**.005 - .050**	**.259**	**.213**	**.005 - .010**	.267	.140	.015 - .030	.275	.071	.010 - .020	.279	.170	.015 - .025	**.283**	**.240**	**.005 - .010**
.251	**.136**	**.005 - .010**	.260	.089	.010 - .020	.267	.143	.010 - .025	.275	.079	.010 - .020	**.279**	**.195**	**.005 - .040**	**.283**	**.250**	**.005 - .010**

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

For non-metallic materials, contact BOKER'S — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
.284	.095	.015 - .025	.292	.197	.040 - .050	**.300**	**.100**	**.005 - .015**	.304	.245	.015 - .020	.310	.060	.010 - .025	**.312**	**.054**	**.005 - .010**
.284	.119	.025 - .040	**.292**	**.236**	**.005 - .010**	.300	.116	.020 - .040	.304	.250	.020 - .030	**.310**	**.071**	**.005 - .010**	.312	.062	.015 - .030
.284	**.125**	**.005 - .015**	.293	.034	.015 - .025	.300	.117	.025 - .040	.305	.087	.025 - .040	.310	.076	.020 - .040	.312	.066	.010 - .020
.284	.191	.010 - .018	.293	.124	.010 - .020	**.300**	**.119**	**.005 - .010**	.305	.105	.030 - .050	.310	.088	.015 - .025	**.312**	**.072**	**.005 - .010**
.284	.200	.010 - .020	**.293**	**.129**	**.005 - .010**	**.300**	**.128**	**.005 - .060**	**.305**	**.125**	**.005 - .010**	.310	.090	.012 - .025	.312	.073	.015 - .025
.284	**.212**	**.005 - .010**	**.293**	**.147**	**.005 - .010**	.300	.130	.030 - .050	.305	.129	.010 - .020	.310	.093	.025 - .040	.312	.090	.025 - .050
.285	**.079**	**.005 - .010**	.293	.188	.030 - .050	**.300**	**.135**	**.005 - .010**	.305	.140	.032 - .060	.310	.095	.025 - .035	**.312**	**.093**	**.005 - .062**
.285	**.088**	**.005 - .010**	.293	.192	.040 - .050	.300	.138	.020 - .060	.305	.153	.015 - .025	**.310**	**.096**	**.005 - .010**	.312	.094	.020 - .030
.285	.107	.020 - .032	**.293**	**.219**	**.005 - .010**	.300	.144	.015 - .030	.305	.156	.010 - .020	.310	.102	.015 - .030	.312	.095	.032 - .042
.285	.115	.015 - .030	.294	.086	.015 - .030	**.300**	**.145**	**.005 - .012**	.305	.160	.025 - .040	.310	.104	.020 - .040	.312	.096	.015 - .025
.285	.117	.010 - .020	.294	.089	.015 - .030	.300	.157	.020 - .030	.305	.162	.015 - .030	.310	.106	.025 - .050	.312	.098	.060 - .070
.285	.127	.010 - .035	.294	.122	.015 - .030	.300	.162	.025 - .040	.305	.169	.025 - .040	.310	.116	.030 - .040	.312	.099	.010 - .020
.285	.128	.010 - .035	.294	.126	.015 - .030	**.300**	**.166**	**.005 - .010**	.305	.188	.010 - .020	.310	.119	.025 - .050	.312	.100	.050 - .060
.285	**.131**	**.005 - .010**	.294	.177	.040 - .060	.300	.167	.030 - .042	**.305**	**.197**	**.005 - .010**	.310	.120	.030 - .060	**.312**	**.104**	**.005 - .008**
.285	.147	.030 - .050	.294	.187	.030 - .050	.300	.169	.015 - .030	.305	.204	.025 - .048	.310	.122	.025 - .035	.312	.105	.015 - .025
.285	**.161**	**.005 - .010**	**.294**	**.192**	**.005 - .012**	.300	.175	.025 - .040	.305	.205	.025 - .042	**.310**	**.124**	**.005 - .010**	.312	.112	.010 - .020
.285	.165	.015 - .030	**.294**	**.224**	**.005 - .010**	**.300**	**.176**	**.005 - .010**	**.305**	**.221**	**.005 - .010**	.310	.127	.020 - .075	**.312**	**.116**	**.005 - .010**
.285	.175	.025 - .048	.295	.079	.050 - .060	.300	.177	.010 - .020	.305	.225	.010 - .020	.310	.130	.030 - .050	.312	.122	.015 - .030
.285	.192	.020 - .035	.295	.106	.008 - .016	.300	.180	.015 - .025	.306	.045	.010 - .025	.310	.132	.015 - .030	**.312**	**.126**	**.005 - .090**
.285	**.194**	**.005 - .010**	.295	.127	.025 - .040	**.300**	**.182**	**.005 - .010**	.306	.127	.025 - .040	.310	.134	.015 - .030	.312	.127	.010 - .020
.285	.204	.010 - .020	.295	.130	.010 - .040	.300	.185	.010 - .020	.306	.138	.020 - .040	.310	.140	.015 - .025	.312	.128	.020 - .040
.285	.207	.020 - .030	.295	.138	.015 - .030	**.300**	**.192**	**.005 - .010**	**.306**	**.140**	**.005 - .010**	**.310**	**.147**	**.005 - .010**	.312	.129	.010 - .030
.285	.239	.010 - .015	.295	.148	.030 - .040	**.300**	**.200**	**.005 - .010**	.306	.190	.015 - .030	.310	.152	.015 - .025	**.312**	**.130**	**.005 - .015**
.286	.125	.032 - .048	.295	.162	.020 - .040	.300	.203	.010 - .020	.306	.194	.030 - .050	.310	.155	.030 - .042	.312	.132	.010 - .025
.286	.150	.032 - .050	.295	.167	.025 - .040	.300	.216	.016 - .025	**.306**	**.203**	**.005 - .015**	.310	.158	.050 - .070	.312	.134	.010 - .015
.286	**.163**	**.005 - .010**	**.295**	**.169**	**.005 - .010**	.300	.220	.015 - .025	.306	.228	.016 - .025	**.310**	**.161**	**.005 - .010**	**.312**	**.139**	**.005 - .008**
.286	.170	.010 - .020	.295	.170	.040 - .050	.300	.230	.010 - .020	**.306**	**.243**	**.005 - .010**	.310	.162	.030 - .040	.312	.142	.006 - .030
.286	.186	.010 - .020	.295	.173	.030 - .050	.300	.248	.015 - .030	**.307**	**.080**	**.005 - .010**	.310	.171	.010 - .020	**.312**	**.143**	**.005 - .012**
.286	**.188**	**.005 - .010**	.295	.174	.020 - .032	**.300**	**.260**	**.005 - .012**	.307	.081	.060 - .080	.310	.174	.010 - .020	**.312**	**.144**	**.005 - .020**
.286	**.195**	**.005 - .010**	.295	.177	.010 - .020	.301	.109	.025 - .040	.307	.095	.020 - .040	.310	.188	.030 - .050	.312	.146	.008 - .016
.286	**.211**	**.005 - .010**	.295	.179	.050 - .060	.301	.127	.015 - .025	.307	.130	.080 - .100	.310	.189	.010 - .020	.312	.148	.040 - .060
.287	**.118**	**.005 - .010**	**.295**	**.187**	**.005 - .010**	.301	.128	.010 - .020	.307	.143	.025 - .080	.310	.190	.012 - .025	**.312**	**.154**	**.005 - .060**
.287	**.183**	**.005 - .010**	**.295**	**.192**	**.005 - .040**	.301	.130	.015 - .030	.307	.159	.030 - .050	**.310**	**.191**	**.005 - .010**	.312	.156	.016 - .080
.287	.195	.006 - .012	.295	.193	.015 - .030	**.301**	**.132**	**.005 - .010**	**.307**	**.161**	**.005 - .010**	.310	.193	.025 - .040	**.312**	**.157**	**.005 - .035**
.287	**.196**	**.005 - .020**	**.295**	**.195**	**.005 - .010**	.301	.142	.060 - .080	**.307**	**.166**	**.005 - .010**	**.310**	**.195**	**.005 - .010**	.312	.158	.010 - .020
.288	.128	.030 - .050	.295	.199	.020 - .030	.301	.144	.020 - .040	**.307**	**.174**	**.005 - .010**	.310	.199	.030 - .050	.312	.160	.040 - .060
.288	.131	.025 - .040	.295	.210	.010 - .020	**.301**	**.146**	**.005 - .010**	.307	.177	.015 - .025	.310	.201	.032 - .050	.312	.165	.020 - .040
.288	.197	.015 - .030	.296	.119	.015 - .030	.301	.152	.020 - .030	**.307**	**.189**	**.005 - .020**	.310	.213	.030 - .050	.312	.167	.015 - .025
.289	.037	.020 - .030	.296	.120	.020 - .030	.301	.161	.025 - .040	.307	.203	.025 - .042	.310	.214	.010 - .020	.312	.171	.040 - .060
.289	**.046**	**.005 - .010**	**.296**	**.122**	**.005 - .010**	**.301**	**.165**	**.005 - .015**	.307	.204	.025 - .040	**.310**	**.232**	**.005 - .010**	.312	.172	.020 - .030
.289	**.084**	**.005 - .010**	.296	.130	.030 - .050	.301	.167	.040 - .060	**.307**	**.207**	**.005 - .010**	**.310**	**.235**	**.005 - .010**	**.312**	**.173**	**.005 - .010**
.289	.090	.075 - .090	.296	.144	.025 - .040	.301	.168	.040 - .060	.307	.254	.010 - .020	.310	.242	.010 - .040	.312	.182	.010 - .020
.289	.091	.060 - .075	**.296**	**.173**	**.005 - .010**	.301	.185	.020 - .030	**.308**	**.043**	**.005 - .012**	**.310**	**.250**	**.005 - .020**	.312	.188	.020 - .040
.289	**.123**	**.005 - .010**	.296	.188	.015 - .030	**.301**	**.190**	**.005 - .020**	.308	.099	.010 - .020	.310	.254	.015 - .030	**.312**	**.189**	**.005 - .062**
.289	**.126**	**.005 - .030**	.296	.189	.015 - .030	.301	.203	.015 - .030	**.308**	**.108**	**.005 - .015**	**.310**	**.255**	**.005 - .020**	**.312**	**.190**	**.005 - .030**
.289	.175	.025 - .040	.296	.190	.015 - .025	**.301**	**.215**	**.005 - .010**	.308	.121	.015 - .030	.310	.256	.010 - .020	.312	.191	.008 - .020
.289	.189	.040 - .050	.296	.198	.025 - .042	**.301**	**.225**	**.005 - .010**	**.308**	**.131**	**.005 - .010**	**.310**	**.257**	**.005 - .030**	**.312**	**.192**	**.005 - .035**
.289	.192	.010 - .020	**.296**	**.258**	**.005 - .015**	**.301**	**.245**	**.005 - .010**	**.308**	**.136**	**.005 - .010**	**.310**	**.258**	**.005 - .010**	**.312**	**.193**	**.005 - .010**
.289	.193	.040 - .060	.297	.062	.010 - .025	.301	.255	.010 - .016	**.308**	**.140**	**.005 - .015**	**.310**	**.260**	**.005 - .010**	.312	.194	.025 - .040
.290	.091	.030 - .050	**.297**	**.086**	**.005 - .010**	**.301**	**.268**	**.005 - .010**	.308	.143	.015 - .030	**.311**	**.103**	**.005 - .010**	.312	.195	.020 - .035
.290	**.103**	**.005 - .010**	.297	.120	.050 - .070	.302	.125	.070 - .090	.308	.145	.020 - .030	.311	.118	.050 - .075	**.312**	**.199**	**.005 - .020**
.290	**.126**	**.005 - .030**	.297	.135	.020 - .035	.302	.130	.050 - .070	.308	.148	.030 - .050	**.311**	**.125**	**.005 - .010**	.312	.200	.040 - .060
.290	.128	.015 - .030	.297	.159	.030 - .050	.302	.131	.040 - .060	.308	.175	.040 - .060	.311	.126	.030 - .050	**.312**	**.204**	**.005 - .050**
.290	.137	.010 - .020	.297	.190	.010 - .020	**.302**	**.141**	**.005 - .010**	.308	.188	.040 - .060	.311	.127	.012 - .025	.312	.206	.010 - .020
.290	**.139**	**.005 - .010**	.297	.203	.020 - .040	**.302**	**.151**	**.005 - .010**	**.308**	**.199**	**.005 - .010**	.311	.128	.060 - .080	**.312**	**.208**	**.005 - .010**
.290	.151	.032 - .042	**.297**	**.209**	**.005 - .010**	.302	.167	.035 - .050	.308	.204	.020 - .040	.311	.129	.025 - .048	.312	.216	.010 - .020
.290	.170	.010 - .020	**.297**	**.255**	**.005 - .010**	.302	.168	.015 - .025	**.308**	**.205**	**.005 - .025**	**.311**	**.130**	**.005 - .025**	.312	.219	.015 - .030
.290	.199	.015 - .030	.298	.062	.010 - .020	.302	.172	.015 - .025	.308	.209	.015 - .025	.311	.137	.030 - .050	**.312**	**.221**	**.005 - .010**
.290	.201	.030 - .040	**.298**	**.139**	**.005 - .010**	**.302**	**.190**	**.005 - .040**	.308	.210	.015 - .025	.311	.142	.040 - .070	**.312**	**.223**	**.005 - .042**
.290	.209	.025 - .040	**.298**	**.155**	**.005 - .010**	.302	.198	.015 - .030	**.308**	**.254**	**.005 - .010**	.311	.147	.080 - .090	.312	.227	.030 - .042
.291	.032	.010 - .020	.298	.158	.008 - .016	.302	.205	.030 - .050	.309	.031	.010 - .020	.311	.155	.015 - .050	.312	.228	.030 - .050
.291	.078	.015 - .030	.298	.161	.025 - .040	**.302**	**.252**	**.005 - .015**	.309	.070	.015 - .025	**.311**	**.159**	**.005 - .025**	.312	.231	.025 - .040
.291	.125	.040 - .060	.298	.164	.030 - .050	**.303**	**.114**	**.005 - .010**	.309	.094	.010 - .020	.311	.160	.010 - .020	**.312**	**.251**	**.005 - .010**
.291	.159	.040 - .060	.298	.180	.015 - .030	**.303**	**.128**	**.005 - .010**	.309	.109	.025 - .040	.311	.166	.040 - .062	.312	.252	.025 - .042
.291	.176	.020 - .040	.298	.181	.030 - .050	.303	.171	.020 - .040	.309	.147	.010 - .020	**.311**	**.167**	**.005 - .015**	.312	.254	.015 - .030
.291	.184	.008 - .015	.298	.193	.015 - .025	.303	.181	.030 - .050	**.309**	**.159**	**.005 - .030**	**.311**	**.177**	**.005 - .010**	**.313**	**.062**	**.005 - .010**
.291	.190	.025 - .050	**.298**	**.200**	**.005 - .010**	.303	.191	.025 - .040	**.309**	**.160**	**.005 - .010**	.311	.183	.042 - .062	**.313**	**.082**	**.005 - .010**
.291	**.195**	**.005 - .010**	**.298**	**.205**	**.005 - .010**	.303	.197	.030 - .050	.309	.161	.040 - .062	.311	.187	.025 - .042	.313	.096	.075 - .090
.291	**.232**	**.005 - .010**	**.298**	**.241**	**.005 - .010**	**.303**	**.198**	**.005 - .010**	.309	.172	.020 - .035	**.311**	**.188**	**.005 - .050**	.313	.100	.008 - .042
.291	.244	.015 - .025	.299	.105	.030 - .040	**.303**	**.200**	**.005 - .010**	.309	.176	.020 - .030	.311	.190	.015 - .030	.313	.101	.040 - .060
.291	**.250**	**.005 - .010**	.299	.116	.010 - .020	.303	.220	.030 - .050	.309	.191	.030 - .050	.311	.191	.008 - .040	.313	.105	.008 - .020
.292	.114	.040 - .060	.299	.145	.010 - .030	**.303**	**.225**	**.005 - .010**	.309	.194	.025 - .040	**.311**	**.195**	**.005 - .010**	.313	.110	.008 - .015
.292	.145	.025 - .040	**.299**	**.202**	**.005 - .010**	**.303**	**.234**	**.005 - .010**	.309	.195	.050 - .070	**.311**	**.204**	**.005 - .020**	**.313**	**.120**	**.005 - .010**
.292	**.146**	**.005 - .010**	.300	.045	.025 - .040	.303	.240	.020 - .030	.309	.202	.030 - .050	**.311**	**.215**	**.005 - .010**	.313	.123	.050 - .070
.292	.148	.020 - .040	**.300**	**.056**	**.005 - .010**	.303	.251	.010 - .020	.309	.210	.010 - .020	.311	.217	.020 - .040	.313	.126	.020 - .040
.292	.149	.030 - .040	.300	.065	.008 - .040	.304	.083	.025 - .040	**.309**	**.247**	**.005 - .010**	.311	.219	.020 - .035	**.313**	**.129**	**.005 - .010**
.292	.165	.050 - .060	**.300**	**.074**	**.005 - .010**	.304	.163	.010 - .020	.309	.251	.015 - .030	.311	.231	.025 - .040	.313	.130	.025 - .040
.292	**.171**	**.005 - .010**	**.300**	**.081**	**.005 - .010**	**.304**	**.174**	**.005 - .010**	.309	.254	.010 - .030	**.311**	**.238**	**.005 - .010**	.313	.133	.015 - .030
.292	.192	.010 - .015	.300	.095	.010 - .020	.304	.217	.030 - .050	.309	.255	.015 - .030	**.312**	**.039**	**.005 - .012**	.313	.138	.025 - .040
.292	.193	.020 - .030	.300	.097	.016 - .090	.304	.241	.010 - .020	.310	.047	.025 - .035	.312	.045	.025 - .035	.313	.140	.040 - .060

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O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
.313	.147	.030 - .050	**.316**	**.207**	**.005 - .010**	.324	.165	.060 - .080	**.331**	**.129**	**.005 - .010**	.340	.150	.015 - .025	.345	.125	.020 - .032
.313	**.151**	**.005 - .010**	**.316**	**.209**	**.005 - .010**	**.324**	**.190**	**.005 - .010**	.331	.140	.030 - .050	.340	.158	.020 - .040	.345	.132	.032 - .048
.313	.156	.040 - .050	**.316**	**.239**	**.005 - .010**	.324	.200	.010 - .020	**.331**	**.158**	**.005 - .010**	.340	.164	.030 - .060	.345	.135	.032 - .048
.313	**.157**	**.005 - .010**	**.316**	**.252**	**.005 - .010**	.324	.204	.040 - .060	.331	.167	.020 - .030	.340	.189	.012 - .020	.345	.150	.030 - .042
.313	.158	.015 - .030	.316	.255	.006 - .010	.324	.206	.040 - .060	**.331**	**.196**	**.005 - .010**	**.340**	**.190**	**.005 - .010**	**.345**	**.159**	**.005 - .010**
.313	.160	.006 - .030	.317	.095	.008 - .020	.324	.207	.020 - .030	.331	.198	.015 - .030	.340	.191	.025 - .050	**.345**	**.170**	**.005 - .010**
.313	**.162**	**.005 - .010**	.317	.100	.006 - .030	.324	.242	.025 - .042	.331	.200	.040 - .060	**.340**	**.194**	**.005 - .010**	**.345**	**.189**	**.005 - .010**
.313	.170	.060 - .080	**.317**	**.114**	**.005 - .010**	**.324**	**.254**	**.005 - .010**	.331	.236	.015 - .030	.340	.196	.020 - .040	**.345**	**.192**	**.005 - .075**
.313	.173	.025 - .050	**.317**	**.132**	**.005 - .010**	**.325**	**.118**	**.005 - .010**	.331	.237	.020 - .030	**.340**	**.197**	**.005 - .035**	.345	.193	.025 - .060
.313	**.179**	**.005 - .025**	.317	.148	.050 - .070	.325	.125	.015 - .025	**.331**	**.254**	**.005 - .008**	.340	.204	.036 - .050	**.345**	**.205**	**.005 - .010**
.313	**.185**	**.005 - .010**	.317	.205	.010 - .020	.325	.130	.015 - .025	**.332**	**.164**	**.005 - .010**	.340	.207	.030 - .050	**.345**	**.216**	**.005 - .010**
.313	**.187**	**.005 - .010**	**.317**	**.229**	**.005 - .010**	.325	.140	.040 - .060	.332	.175	.050 - .075	.340	.210	.030 - .050	.345	.223	.010 - .050
.313	.190	.010 - .015	.317	.240	.025 - .035	.325	.142	.008 - .018	.332	.192	.016 - .030	.340	.212	.020 - .040	.345	.228	.015 - .030
.313	.200	.010 - .020	**.317**	**.281**	**.005 - .010**	.325	.164	.015 - .030	**.332**	**.213**	**.005 - .008**	.340	.222	.025 - .062	.345	.252	.010 - .020
.313	.206	.030 - .050	**.318**	**.094**	**.005 - .010**	**.325**	**.169**	**.005 - .010**	**.332**	**.236**	**.005 - .030**	.340	.233	.050 - .060	.345	.276	.015 - .030
.313	.207	.020 - .040	**.318**	**.097**	**.005 - .010**	**.325**	**.200**	**.005 - .050**	.333	.123	.020 - .080	.340	.240	.030 - .050	**.345**	**.277**	**.005 - .010**
.313	**.208**	**.005 - .010**	.318	.125	.010 - .020	**.325**	**.235**	**.005 - .010**	.333	.173	.032 - .048	.340	.257	.010 - .020	.346	.044	.015 - .030
.313	.224	.020 - .040	.318	.132	.010 - .020	.325	.236	.025 - .040	.333	.175	.020 - .050	.340	.283	.015 - .025	.346	.046	.025 - .040
.313	**.230**	**.005 - .015**	.318	.143	.008 - .020	.325	.244	.015 - .025	.333	.212	.020 - .036	.341	.052	.025 - .040	.346	.084	.030 - .050
.313	**.232**	**.005 - .015**	.318	.159	.020 - .040	.325	.254	.015 - .025	.333	.225	.010 - .020	**.341**	**.061**	**.005 - .010**	**.346**	**.116**	**.005 - .010**
.313	**.242**	**.005 - .010**	.318	.174	.015 - .030	**.326**	**.138**	**.005 - .010**	.333	.257	.015 - .025	.341	.090	.060 - .080	.346	.128	.050 - .070
.313	.253	.020 - .030	.318	.191	.010 - .020	.326	.150	.030 - .050	.334	.039	.015 - .025	.341	.093	.020 - .040	.346	.143	.040 - .060
.313	.255	.015 - .025	.318	.198	.030 - .060	**.326**	**.180**	**.005 - .010**	**.334**	**.040**	**.005 - .010**	**.341**	**.120**	**.005 - .010**	.346	.149	.075 - .090
.314	.039	.010 - .020	.318	.228	.008 - .016	**.326**	**.181**	**.005 - .010**	**.334**	**.046**	**.005 - .010**	.341	.131	.070 - .090	**.346**	**.152**	**.005 - .010**
.314	**.043**	**.005 - .010**	**.318**	**.237**	**.005 - .010**	.326	.189	.050 - .070	**.334**	**.122**	**.005 - .010**	.341	.141	.080 - .090	**.346**	**.158**	**.005 - .025**
.314	.088	.015 - .035	.319	.140	.015 - .030	**.326**	**.196**	**.005 - .010**	**.334**	**.127**	**.005 - .010**	.341	.158	.025 - .040	.346	.163	.006 - .015
.314	.103	.025 - .045	.319	.146	.020 - .030	**.326**	**.256**	**.005 - .010**	.334	.160	.015 - .030	.341	.161	.015 - .035	**.346**	**.166**	**.005 - .010**
.314	.111	.010 - .025	**.319**	**.178**	**.005 - .010**	.327	.113	.025 - .042	**.334**	**.196**	**.005 - .010**	.341	.164	.010 - .025	.346	.172	.040 - .090
.314	.114	.032 - .050	.319	.228	.010 - .020	.327	.120	.025 - .040	.334	.197	.032 - .048	.341	.202	.015 - .030	**.346**	**.180**	**.005 - .010**
.314	.122	.025 - .048	**.320**	**.061**	**.005 - .010**	.327	.130	.030 - .050	**.334**	**.220**	**.005 - .050**	.341	.281	.025 - .035	**.346**	**.196**	**.005 - .010**
.314	**.128**	**.005 - .015**	.320	.067	.030 - .042	.327	.190	.030 - .050	.334	.226	.025 - .040	**.342**	**.092**	**.005 - .020**	.346	.207	.030 - .060
.314	.139	.040 - .060	**.320**	**.078**	**.005 - .010**	.327	.194	.010 - .020	.334	.242	.010 - .020	.342	.118	.032 - .048	.346	.210	.040 - .060
.314	.148	.025 - .062	.320	.084	.030 - .040	.327	.217	.030 - .050	.334	.258	.020 - .030	**.342**	**.145**	**.005 - .008**	.346	.216	.020 - .030
.314	.152	.035 - .050	.320	.093	.042 - .060	.327	.250	.050 - .060	**.334**	**.260**	**.005 - .010**	.342	.162	.030 - .050	.346	.219	.010 - .020
.314	.158	.060 - .080	**.320**	**.113**	**.005 - .010**	.327	.258	.010 - .025	**.334**	**.275**	**.005 - .010**	.342	.164	.015 - .030	**.346**	**.253**	**.005 - .010**
.314	.161	.040 - .060	.320	.122	.015 - .030	**.327**	**.262**	**.005 - .010**	.334	.295	.010 - .015	**.342**	**.193**	**.005 - .050**	**.346**	**.289**	**.005 - .010**
.314	.162	.040 - .060	**.320**	**.124**	**.005 - .010**	**.328**	**.105**	**.005 - .010**	.335	.034	.010 - .020	.342	.198	.015 - .030	.347	.157	.020 - .030
.314	.176	.030 - .050	**.320**	**.131**	**.005 - .010**	.328	.162	.040 - .060	.335	.129	.015 - .025	.342	.201	.025 - .040	.347	.174	.030 - .050
.314	.189	.015 - .032	.320	.145	.025 - .042	.328	.175	.030 - .050	.335	.159	.060 - .075	.342	.206	.015 - .030	.347	.203	.025 - .040
.314	.219	.030 - .050	.320	.146	.015 - .030	**.328**	**.177**	**.005 - .010**	.335	.169	.015 - .030	.342	.212	.015 - .025	.347	.220	.015 - .030
.314	.220	.015 - .030	**.320**	**.149**	**.005 - .010**	.328	.179	.015 - .030	.335	.172	.010 - .020	.342	.255	.020 - .030	.347	.234	.040 - .060
.314	.225	.015 - .025	.320	.170	.015 - .025	.328	.192	.030 - .050	.335	.196	.025 - .040	.343	.062	.050 - .070	.347	.253	.016 - .025
.314	**.236**	**.005 - .010**	.320	.178	.010 - .020	.328	.197	.025 - .040	.335	.200	.020 - .040	.343	.087	.030 - .050	.347	.256	.006 - .016
.314	.242	.010 - .020	.320	.182	.050 - .070	**.328**	**.200**	**.005 - .015**	**.335**	**.204**	**.005 - .040**	.343	.088	.060 - .075	**.347**	**.263**	**.005 - .010**
.314	.256	.010 - .020	.320	.220	.040 - .050	.328	.214	.010 - .032	.335	.215	.030 - .050	**.343**	**.092**	**.005 - .010**	**.347**	**.287**	**.005 - .010**
.315	.025	.006 - .010	.320	.221	.050 - .062	.328	.219	.030 - .050	.335	.235	.010 - .020	.343	.094	.025 - .040	.348	.168	.020 - .040
.315	**.030**	**.005 - .015**	**.321**	**.062**	**.005 - .010**	.328	.222	.010 - .025	.335	.257	.010 - .030	.343	.097	.010 - .020	**.348**	**.172**	**.005 - .010**
.315	.068	.010 - .020	.321	.077	.020 - .030	**.328**	**.225**	**.005 - .040**	**.335**	**.258**	**.005 - .010**	.343	.110	.025 - .040	.348	.173	.010 - .042
.315	.087	.020 - .040	.321	.135	.020 - .035	.328	.245	.007 - .016	**.335**	**.259**	**.005 - .015**	.343	.116	.015 - .030	**.348**	**.174**	**.005 - .010**
.315	.092	.045 - .065	.321	.147	.010 - .020	.328	.252	.020 - .031	**.336**	**.045**	**.005 - .010**	.343	.134	.007 - .016	.348	.225	.025 - .042
.315	.095	.032 - .062	**.321**	**.203**	**.005 - .010**	**.328**	**.253**	**.005 - .010**	**.336**	**.048**	**.005 - .010**	.343	.138	.040 - .060	.349	.123	.010 - .020
.315	**.097**	**.005 - .030**	.321	.226	.010 - .020	.328	.256	.010 - .020	.336	.117	.040 - .060	**.343**	**.161**	**.005 - .008**	.349	.176	.010 - .015
.315	.124	.050 - .060	.321	.253	.020 - .030	.328	.260	.020 - .040	.336	.118	.040 - .060	.343	.167	.010 - .020	.349	.191	.035 - .050
.315	.127	.050 - .070	**.322**	**.050**	**.005 - .010**	**.328**	**.273**	**.005 - .010**	.336	.138	.032 - .048	**.343**	**.193**	**.005 - .060**	.349	.192	.015 - .030
.315	.129	.030 - .050	.322	.128	.010 - .020	.329	.030	.010 - .020	.336	.191	.030 - .050	.343	.194	.060 - .078	.349	.197	.020 - .030
.315	.138	.060 - .080	.322	.145	.015 - .030	.329	.100	.025 - .040	**.336**	**.197**	**.005 - .010**	.343	.195	.006 - .070	.349	.220	.015 - .030
.315	.147	.020 - .030	**.322**	**.206**	**.005 - .010**	**.329**	**.108**	**.005 - .010**	**.336**	**.218**	**.005 - .010**	.343	.196	.010 - .020	.349	.252	.015 - .030
.315	**.157**	**.005 - .015**	.322	.224	.010 - .020	.329	.111	.010 - .020	.336	.230	.010 - .020	.343	.197	.025 - .040	.349	.285	.020 - .030
.315	**.160**	**.005 - .010**	.322	.228	.025 - .040	**.329**	**.206**	**.005 - .010**	.336	.257	.020 - .040	.343	.217	.040 - .050	**.349**	**.290**	**.005 - .010**
.315	.162	.020 - .030	.322	.241	.010 - .020	.329	.209	.030 - .050	**.336**	**.270**	**.005 - .010**	.343	.219	.032 - .050	**.349**	**.297**	**.005 - .010**
.315	**.163**	**.005 - .010**	.322	.242	.025 - .040	**.329**	**.221**	**.005 - .010**	**.336**	**.275**	**.005 - .010**	.343	.225	.020 - .030	**.350**	**.060**	**.005 - .010**
.315	.170	.020 - .040	.322	.287	.010 - .020	.329	.245	.020 - .040	**.336**	**.306**	**.005 - .010**	**.343**	**.229**	**.005 - .010**	**.350**	**.089**	**.005 - .010**
.315	**.181**	**.005 - .010**	.323	.094	.010 - .020	**.329**	**.253**	**.005 - .010**	**.337**	**.129**	**.005 - .012**	.343	.230	.025 - .035	**.350**	**.090**	**.005 - .010**
.315	**.190**	**.005 - .010**	.323	.099	.020 - .040	**.329**	**.288**	**.005 - .010**	.337	.165	.015 - .025	**.343**	**.245**	**.005 - .010**	.350	.121	.010 - .020
.315	.223	.030 - .050	**.323**	**.124**	**.005 - .010**	**.330**	**.093**	**.005 - .010**	.337	.252	.020 - .030	.343	.261	.010 - .020	**.350**	**.122**	**.005 - .010**
.315	**.224**	**.005 - .010**	.323	.130	.025 - .042	.330	.124	.020 - .032	.337	.277	.015 - .030	.343	.274	.020 - .040	**.350**	**.154**	**.005 - .010**
.315	.238	.010 - .020	**.323**	**.160**	**.005 - .025**	.330	.140	.042 - .062	.337	.285	.015 - .030	**.344**	**.102**	**.005 - .010**	.350	.167	.015 - .030
.315	**.240**	**.005 - .010**	.323	.166	.020 - .030	.330	.143	.020 - .040	**.338**	**.115**	**.005 - .010**	.344	.152	.025 - .045	.350	.168	.030 - .050
.315	**.250**	**.005 - .020**	.323	.171	.015 - .030	**.330**	**.193**	**.005 - .010**	.338	.168	.072 - .090	.344	.165	.015 - .030	**.350**	**.171**	**.005 - .010**
.316	.098	.030 - .050	.323	.180	.042 - .090	.330	.205	.040 - .060	.338	.170	.010 - .020	.344	.167	.015 - .025	.350	.181	.025 - .040
.316	.105	.025 - .048	**.323**	**.196**	**.005 - .010**	**.330**	**.206**	**.005 - .015**	.338	.201	.050 - .060	.344	.172	.035 - .050	**.350**	**.194**	**.005 - .010**
.316	.124	.060 - .075	.323	.200	.020 - .032	**.330**	**.217**	**.005 - .010**	**.338**	**.238**	**.005 - .010**	.344	.184	.025 - .040	.350	.195	.060 - .080
.316	**.134**	**.005 - .010**	.323	.211	.020 - .030	.330	.229	.025 - .040	.338	.251	.015 - .030	.344	.189	.015 - .025	.350	.203	.032 - .042
.316	**.140**	**.005 - .010**	**.323**	**.213**	**.005 - .010**	**.330**	**.250**	**.005 - .010**	.338	.253	.010 - .020	**.344**	**.190**	**.005 - .008**	.350	.213	.020 - .030
.316	**.153**	**.005 - .010**	**.323**	**.223**	**.005 - .010**	**.330**	**.251**	**.005 - .020**	.339	.150	.010 - .020	.344	.196	.020 - .060	.350	.223	.010 - .020
.316	**.157**	**.005 - .010**	**.324**	**.035**	**.005 - .010**	.330	.253	.020 - .040	**.339**	**.151**	**.005 - .010**	.344	.252	.025 - .040	.350	.231	.015 - .030
.316	**.167**	**.005 - .010**	**.324**	**.099**	**.005 - .010**	.330	.257	.020 - .036	**.339**	**.157**	**.005 - .010**	.344	.267	.025 - .040	**.350**	**.252**	**.005 - .020**
.316	.180	.020 - .030	.324	.126	.020 - .040	**.330**	**.261**	**.005 - .010**	.339	.176	.020 - .040	.344	.290	.010 - .020	**.350**	**.253**	**.005 - .010**
.316	.199	.030 - .050	.324	.145	.010 - .020	.331	.067	.010 - .025	**.339**	**.223**	**.005 - .010**	**.344**	**.291**	**.005 - .010**	.350	.255	.025 - .040
.316	**.201**	**.005 - .050**	.324	.162	.060 - .080	.331	.124	.020 - .030	.340	.085	.015 - .030	**.345**	**.043**	**.005 - .010**	.350	.276	.025 - .040

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

For a size NOT listed, send specs or phone for quote — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
.350	.291	.020 - .045	.355	.255	.010 - .020	**.362**	**.283**	**.005 - .010**	**.368**	**.263**	**.005 - .010**	.372	.099	.020 - .040	.374	.225	.008 - .016
.351	**.064**	**.005 - .010**	.355	.260	.030 - .040	**.363**	**.152**	**.005 - .010**	**.368**	**.265**	**.005 - .030**	.372	.106	.025 - .040	**.374**	**.232**	**.005 - .040**
.351	.091	.030 - .050	.355	.281	.015 - .025	.363	.180	.050 - .070	**.368**	**.284**	**.005 - .010**	**.372**	**.124**	**.005 - .010**	.374	.236	.050 - .060
.351	**.094**	**.005 - .010**	**.355**	**.282**	**.005 - .025**	.363	.191	.008 - .016	.368	.287	.020 - .040	.372	.153	.025 - .042	.374	.237	.030 - .060
.351	**.097**	**.005 - .010**	.356	.111	.025 - .040	.363	.254	.010 - .040	**.368**	**.298**	**.005 - .010**	.372	.158	.025 - .048	**.374**	**.252**	**.005 - .040**
.351	**.130**	**.005 - .020**	.356	.198	.030 - .060	.363	.255	.010 - .020	**.368**	**.323**	**.005 - .010**	.372	.162	.020 - .040	**.374**	**.255**	**.005 - .010**
.351	**.145**	**.005 - .010**	**.356**	**.255**	**.005 - .010**	.363	.259	.010 - .020	.369	.084	.030 - .040	.372	.164	.015 - .030	.374	.257	.025 - .060
.351	.166	.008 - .015	.356	.282	.025 - .040	.363	.286	.025 - .036	.369	.117	.015 - .030	.372	.174	.025 - .040	**.374**	**.280**	**.005 - .010**
.351	**.171**	**.005 - .015**	**.357**	**.085**	**.005 - .010**	**.363**	**.314**	**.005 - .010**	.369	.177	.050 - .070	.372	.177	.060 - .080	**.374**	**.307**	**.005 - .010**
.351	**.184**	**.005 - .010**	**.357**	**.093**	**.005 - .012**	.364	.120	.020 - .040	.369	.181	.040 - .060	.372	.179	.015 - .030	.374	.320	.010 - .020
.351	.200	.025 - .050	.357	.142	.020 - .040	.364	.151	.090 - .110	**.369**	**.190**	**.005 - .015**	.372	.180	.015 - .030	.375	.041	.040 - .050
.351	.201	.020 - .030	.357	.150	.030 - .050	.364	.181	.010 - .020	**.369**	**.194**	**.005 - .010**	.372	.196	.062 - .080	.375	.045	.006 - .015
.351	.208	.030 - .060	.357	.173	.070 - .090	.364	.205	.015 - .030	**.369**	**.197**	**.005 - .010**	**.372**	**.199**	**.005 - .016**	**.375**	**.059**	**.005 - .010**
.351	**.222**	**.005 - .010**	.357	.191	.060 - .080	**.364**	**.210**	**.005 - .015**	**.369**	**.205**	**.005 - .010**	.372	.202	.015 - .030	.375	.086	.015 - .030
.351	.230	.040 - .060	.357	.195	.060 - .080	.364	.258	.015 - .030	.369	.208	.025 - .040	.372	.204	.030 - .050	**.375**	**.091**	**.005 - .030**
.351	.241	.020 - .040	.357	.260	.040 - .050	.365	.046	.010 - .020	**.369**	**.215**	**.005 - .010**	.372	.208	.015 - .030	.375	.095	.090 - .104
.351	.252	.010 - .020	.357	.303	.010 - .020	**.365**	**.062**	**.005 - .010**	**.369**	**.224**	**.005 - .010**	.372	.221	.050 - .075	**.375**	**.100**	**.005 - .030**
.351	.268	.020 - .030	**.357**	**.318**	**.005 - .010**	.365	.098	.020 - .040	.369	.257	.050 - .070	.372	.230	.015 - .030	.375	.101	.070 - .080
.351	.309	.010 - .020	.358	.126	.025 - .040	**.365**	**.178**	**.005 - .010**	**.369**	**.313**	**.005 - .010**	.372	.239	.050 - .070	.375	.103	.030 - .050
.352	.031	.010 - .020	.358	.127	.015 - .025	.365	.180	.020 - .040	**.369**	**.324**	**.005 - .010**	.372	.253	.010 - .020	.375	.110	.030 - .040
.352	.090	.010 - .015	.358	.164	.020 - .040	.365	.189	.007 - .015	.370	.034	.020 - .025	.372	.254	.010 - .060	**.375**	**.111**	**.005 - .010**
.352	.129	.020 - .030	.358	.170	.006 - .010	**.365**	**.193**	**.005 - .010**	.370	.088	.010 - .025	**.372**	**.255**	**.005 - .010**	.375	.114	.030 - .042
.352	.167	.030 - .050	.358	.178	.030 - .050	**.365**	**.200**	**.005 - .010**	**.370**	**.101**	**.005 - .020**	**.372**	**.256**	**.005 - .015**	.375	.120	.030 - .060
.352	.168	.008 - .020	**.358**	**.203**	**.005 - .010**	.365	.201	.030 - .040	.370	.110	.025 - .040	.372	.257	.020 - .030	.375	.123	.030 - .075
.352	.184	.015 - .030	.358	.204	.020 - .030	.365	.208	.020 - .040	**.370**	**.119**	**.005 - .010**	.372	.258	.040 - .050	.375	.125	.010 - .070
.352	.191	.035 - .050	**.358**	**.213**	**.005 - .010**	.365	.212	.050 - .070	**.370**	**.125**	**.005 - .060**	**.372**	**.272**	**.005 - .010**	.375	.126	.010 - .020
.352	.236	.030 - .050	.358	.238	.025 - .040	**.365**	**.226**	**.005 - .010**	**.370**	**.126**	**.005 - .010**	.372	.278	.025 - .042	.375	.129	.010 - .036
.352	.240	.040 - .060	**.358**	**.252**	**.005 - .010**	.365	.247	.050 - .070	.370	.140	.010 - .042	.372	.311	.015 - .030	.375	.132	.080 - .090
.352	**.254**	**.005 - .010**	.358	.257	.010 - .020	**.365**	**.250**	**.005 - .020**	.370	.146	.025 - .048	**.372**	**.312**	**.005 - .035**	.375	.133	.050 - .062
.352	.255	.030 - .050	.359	.069	.030 - .050	.365	.253	.025 - .040	.370	.158	.010 - .020	**.372**	**.315**	**.005 - .010**	**.375**	**.135**	**.005 - .010**
.352	.263	.010 - .020	.359	.127	.025 - .040	**.365**	**.254**	**.005 - .010**	.370	.159	.035 - .060	.373	.039	.025 - .035	.375	.143	.075 - .090
.353	.062	.015 - .025	.359	.137	.010 - .020	.365	.255	.015 - .025	.370	.160	.070 - .080	.373	.041	.010 - .020	**.375**	**.144**	**.005 - .040**
.353	.128	.020 - .040	.359	.158	.010 - .020	.365	.257	.015 - .030	**.370**	**.171**	**.005 - .020**	.373	.068	.015 - .030	.375	.145	.025 - .040
.353	.143	.020 - .075	.359	.159	.020 - .035	.365	.265	.042 - .062	.370	.173	.020 - .040	.373	.081	.040 - .062	.375	.147	.030 - .050
.353	.157	.015 - .030	.359	.190	.020 - .040	**.365**	**.268**	**.005 - .010**	.370	.180	.020 - .030	**.373**	**.127**	**.005 - .015**	.375	.148	.030 - .050
.353	**.158**	**.005 - .030**	.359	.195	.030 - .050	.365	.270	.020 - .040	.370	.189	.020 - .040	.373	.142	.062 - .078	.375	.150	.020 - .105
.353	.159	.030 - .050	.359	.204	.010 - .025	**.365**	**.307**	**.005 - .010**	**.370**	**.191**	**.005 - .010**	.373	.157	.020 - .040	.375	.152	.080 - .100
.353	.172	.025 - .040	.359	.210	.025 - .042	**.365**	**.312**	**.005 - .020**	.370	.196	.010 - .020	.373	.159	.020 - .040	**.375**	**.153**	**.005 - .050**
.353	.190	.015 - .030	.359	.221	.025 - .040	**.365**	**.315**	**.005 - .010**	.370	.199	.015 - .025	**.373**	**.165**	**.005 - .015**	**.375**	**.156**	**.005 - .012**
.353	.225	.032 - .050	**.359**	**.240**	**.005 - .010**	**.366**	**.077**	**.005 - .010**	.370	.202	.060 - .080	.373	.168	.010 - .020	**.375**	**.158**	**.005 - .010**
.353	.226	.020 - .042	.359	.257	.010 - .020	.366	.129	.015 - .025	**.370**	**.205**	**.005 - .010**	**.373**	**.174**	**.005 - .010**	.375	.160	.010 - .020
.353	.232	.020 - .040	.359	.258	.020 - .040	.366	.158	.015 - .030	.370	.206	.025 - .040	.373	.175	.050 - .078	.375	.161	.020 - .040
.353	**.237**	**.005 - .010**	.359	.260	.031 - .042	.366	.190	.040 - .060	.370	.211	.060 - .080	.373	.189	.030 - .050	.375	.162	.006 - .100
.353	.242	.015 - .025	.359	.267	.020 - .032	**.366**	**.206**	**.005 - .020**	.370	.212	.040 - .050	.373	.191	.030 - .072	**.375**	**.163**	**.005 - .060**
.353	**.254**	**.005 - .010**	.359	.284	.010 - .020	.366	.218	.016 - .032	.370	.218	.040 - .060	.373	.192	.010 - .060	.375	.165	.042 - .062
.353	**.281**	**.005 - .010**	**.359**	**.293**	**.005 - .015**	.366	.219	.015 - .030	.370	.220	.015 - .030	**.373**	**.193**	**.005 - .060**	.375	.169	.015 - .050
.354	**.048**	**.005 - .010**	**.360**	**.038**	**.005 - .010**	.366	.225	.020 - .040	**.370**	**.252**	**.005 - .010**	**.373**	**.196**	**.005 - .010**	**.375**	**.172**	**.005 - .050**
.354	.052	.030 - .050	**.360**	**.080**	**.005 - .010**	**.366**	**.253**	**.005 - .015**	.370	.254	.020 - .040	**.373**	**.200**	**.005 - .010**	.375	.173	.020 - .030
.354	.061	.015 - .025	**.360**	**.095**	**.005 - .010**	**.366**	**.254**	**.005 - .030**	.370	.256	.015 - .030	**.373**	**.210**	**.005 - .010**	**.375**	**.175**	**.005 - .012**
.354	.070	.015 - .025	.360	.102	.015 - .030	.366	.268	.030 - .050	**.370**	**.261**	**.005 - .010**	.373	.222	.015 - .030	.375	.177	.060 - .075
.354	.099	.010 - .020	.360	.115	.030 - .040	.366	.272	.025 - .035	.370	.269	.040 - .060	.373	.238	.030 - .050	.375	.180	.060 - .080
.354	.119	.040 - .060	**.360**	**.136**	**.005 - .020**	.366	.274	.010 - .020	.370	.300	.020 - .030	.373	.253	.040 - .060	**.375**	**.188**	**.005 - .030**
.354	**.125**	**.005 - .070**	.360	.164	.020 - .032	**.366**	**.294**	**.005 - .012**	**.370**	**.330**	**.005 - .010**	.373	.256	.042 - .060	.375	.189	.080 - .104
.354	.128	.025 - .040	.360	.171	.025 - .040	.366	.305	.016 - .025	.371	.099	.025 - .040	**.373**	**.269**	**.005 - .010**	.375	.190	.080 - .104
.354	.144	.030 - .050	**.360**	**.175**	**.005 - .020**	.366	.312	.015 - .025	.371	.129	.050 - .070	.373	.317	.010 - .020	.375	.191	.040 - .090
.354	.145	.020 - .040	.360	.177	.050 - .070	.367	.098	.030 - .050	.371	.130	.050 - .075	**.373**	**.318**	**.005 - .010**	**.375**	**.192**	**.005 - .090**
.354	.147	.020 - .035	**.360**	**.185**	**.005 - .010**	.367	.105	.015 - .025	.371	.131	.020 - .030	**.374**	**.049**	**.005 - .010**	**.375**	**.193**	**.005 - .015**
.354	.161	.010 - .020	.360	.186	.040 - .060	.367	.125	.090 - .125	**.371**	**.150**	**.005 - .010**	.374	.083	.036 - .050	.375	.194	.040 - .060
.354	.162	.010 - .020	.360	.188	.015 - .030	.367	.176	.050 - .062	**.371**	**.176**	**.005 - .010**	**.374**	**.099**	**.005 - .010**	**.375**	**.195**	**.005 - .042**
.354	.204	.040 - .060	.360	.190	.030 - .050	**.367**	**.186**	**.005 - .010**	.371	.184	.010 - .020	.374	.120	.040 - .060	**.375**	**.196**	**.005 - .060**
.354	**.226**	**.005 - .010**	.360	.192	.060 - .090	.367	.258	.050 - .060	.371	.195	.050 - .070	.374	.130	.010 - .020	.375	.200	.040 - .060
.354	.237	.010 - .020	**.360**	**.193**	**.005 - .015**	.367	.260	.015 - .030	.371	.201	.040 - .060	**.374**	**.138**	**.005 - .015**	.375	.202	.010 - .032
.354	**.238**	**.005 - .040**	.360	.203	.030 - .042	**.367**	**.264**	**.005 - .010**	.371	.206	.060 - .083	.374	.149	.010 - .015	.375	.203	.015 - .060
.354	**.245**	**.005 - .010**	.360	.207	.050 - .062	.367	.272	.020 - .040	.371	.222	.030 - .050	.374	.157	.025 - .040	.375	.204	.060 - .080
.354	**.279**	**.005 - .010**	.360	.230	.010 - .020	**.367**	**.273**	**.005 - .010**	**.371**	**.233**	**.005 - .010**	.374	.168	.025 - .040	.375	.205	.008 - .015
.355	.070	.015 - .030	**.360**	**.245**	**.005 - .010**	**.368**	**.061**	**.005 - .010**	.371	.245	.050 - .075	.374	.172	.040 - .060	.375	.209	.025 - .062
.355	.083	.030 - .050	.360	.260	.025 - .042	**.368**	**.063**	**.005 - .010**	**.371**	**.250**	**.005 - .032**	.374	.173	.040 - .060	.375	.211	.010 - .020
.355	.103	.070 - .080	**.360**	**.277**	**.005 - .010**	.368	.080	.020 - .030	.371	.252	.035 - .050	.374	.175	.040 - .060	.375	.213	.015 - .025
.355	.131	.050 - .078	.360	.312	.015 - .025	.368	.122	.025 - .042	.371	.253	.015 - .030	.374	.180	.020 - .080	.375	.218	.060 - .080
.355	.158	.025 - .042	.361	.243	.025 - .040	.368	.124	.040 - .050	**.371**	**.255**	**.005 - .012**	.374	.185	.015 - .030	**.375**	**.220**	**.005 - .010**
.355	.159	.040 - .060	**.361**	**.281**	**.005 - .010**	**.368**	**.154**	**.005 - .010**	**.371**	**.256**	**.005 - .010**	**.374**	**.191**	**.005 - .060**	.375	.223	.050 - .070
.355	.160	.040 - .060	**.361**	**.296**	**.005 - .010**	.368	.168	.025 - .040	**.371**	**.260**	**.005 - .020**	**.374**	**.194**	**.005 - .010**	.375	.226	.015 - .030
.355	.175	.040 - .060	**.362**	**.121**	**.005 - .010**	.368	.193	.020 - .040	**.371**	**.269**	**.005 - .010**	.374	.196	.025 - .040	.375	.235	.010 - .020
.355	**.185**	**.005 - .010**	.362	.143	.015 - .030	.368	.194	.050 - .070	.371	.281	.020 - .030	**.374**	**.199**	**.005 - .010**	**.375**	**.237**	**.005 - .075**
.355	.198	.030 - .050	**.362**	**.220**	**.005 - .010**	.368	.195	.070 - .090	.371	.283	.010 - .020	**.374**	**.200**	**.005 - .010**	**.375**	**.238**	**.005 - .030**
.355	.201	.020 - .040	.362	.221	.010 - .020	.368	.199	.015 - .050	**.371**	**.314**	**.005 - .010**	.374	.202	.025 - .040	.375	.245	.050 - .060
.355	.203	.020 - .050	.362	.235	.040 - .060	.368	.223	.060 - .080	.372	.060	.010 - .020	**.374**	**.206**	**.005 - .010**	.375	.248	.010 - .020
.355	.226	.008 - .016	.362	.247	.015 - .030	.368	.226	.007 - .015	.372	.071	.020 - .040	.374	.221	.010 - .020	**.375**	**.250**	**.005 - .060**
.355	**.230**	**.005 - .010**	.362	.257	.030 - .050	**.368**	**.256**	**.005 - .010**	.372	.083	.040 - .060	**.374**	**.222**	**.005 - .010**	**.375**	**.252**	**.005 - .015**
.355	**.236**	**.005 - .010**	.362	.267	.025 - .040	.368	.257	.020 - .040	.372	.097	.040 - .060	**.374**	**.224**	**.005 - .010**	**.375**	**.253**	**.005 - .025**

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

Call BOKER'S for precision stamping, assembly, and secondary operations.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
.375	**.254**	**.005 - .040**	.377	.173	.030 - .050	**.381**	**.094**	**.005 - .010**	.388	.171	.075 - .090	**.393**	**.287**	**.005 - .015**	.398	.241	.040 - .060
.375	.255	.020 - .030	.377	.182	.025 - .048	.381	.099	.025 - .040	.388	.205	.025 - .040	.393	.314	.025 - .035	.398	.286	.025 - .048
.375	.257	.025 - .040	.377	.185	.010 - .020	**.381**	**.114**	**.005 - .010**	**.388**	**.211**	**.005 - .010**	**.393**	**.315**	**.005 - .010**	**.398**	**.303**	**.005 - .010**
.375	.258	.010 - .020	.377	.189	.030 - .060	**.381**	**.116**	**.005 - .010**	.388	.215	.040 - .060	.393	.316	.010 - .020	.398	.304	.015 - .030
.375	.267	.020 - .030	.377	.190	.015 - .030	**.381**	**.124**	**.005 - .012**	.388	.252	.015 - .030	.393	.324	.010 - .020	.398	.320	.020 - .040
.375	.274	.010 - .020	.377	.191	.025 - .040	.381	.126	.030 - .050	.388	.264	.025 - .040	**.394**	**.083**	**.005 - .010**	**.399**	**.169**	**.005 - .010**
.375	.280	.030 - .042	.377	.194	.025 - .060	.381	.131	.040 - .060	**.388**	**.280**	**.005 - .030**	**.394**	**.095**	**.005 - .020**	.399	.200	.020 - .040
.375	**.281**	**.005 - .040**	.377	.219	.032 - .042	**.381**	**.138**	**.005 - .010**	.388	.288	.015 - .030	.394	.157	.040 - .060	**.399**	**.223**	**.005 - .010**
.375	**.282**	**.005 - .010**	.377	.220	.020 - .040	.381	.148	.025 - .040	.389	.078	.015 - .030	.394	.158	.040 - .060	.399	.226	.050 - .070
.375	.285	.008 - .015	.377	.223	.030 - .050	**.381**	**.150**	**.005 - .010**	.389	.130	.020 - .035	.394	.168	.050 - .075	.399	.260	.070 - .090
.375	.292	.015 - .025	.377	.225	.015 - .030	.381	.153	.060 - .070	.389	.198	.020 - .040	.394	.183	.010 - .020	.399	.284	.010 - .020
.375	.301	.015 - .030	.377	.230	.010 - .020	.381	.163	.030 - .050	.389	.199	.015 - .030	.394	.196	.050 - .075	**.399**	**.290**	**.005 - .010**
.375	.303	.025 - .040	.377	.253	.015 - .060	.381	.175	.075 - .090	.389	.200	.015 - .030	.394	.207	.050 - .075	**.399**	**.362**	**.005 - .010**
.375	**.313**	**.005 - .010**	.377	.254	.025 - .040	.381	.178	.015 - .030	**.389**	**.205**	**.005 - .012**	.394	.208	.070 - .090	.400	.066	.025 - .048
.375	.316	.020 - .040	.377	.255	.040 - .062	**.381**	**.182**	**.005 - .010**	.389	.223	.012 - .020	**.394**	**.237**	**.005 - .010**	**.400**	**.091**	**.005 - .010**
.375	.318	.020 - .032	.377	.262	.030 - .050	.381	.186	.015 - .030	**.389**	**.227**	**.005 - .010**	.394	.239	.025 - .040	**.400**	**.119**	**.005 - .010**
.375	**.382**	**.005 - .010**	**.377**	**.265**	**.005 - .010**	.381	.195	.040 - .060	.389	.276	.020 - .030	**.394**	**.240**	**.005 - .025**	**.400**	**.124**	**.005 - .010**
.376	.084	.008 - .016	.377	.267	.006 - .012	.381	.200	.020 - .030	**.390**	**.039**	**.005 - .010**	.394	.243	.015 - .030	.400	.131	.020 - .030
.376	.117	.015 - .040	.377	.276	.010 - .020	**.381**	**.203**	**.005 - .010**	.390	.077	.010 - .020	**.394**	**.251**	**.005 - .080**	.400	.139	.020 - .035
.376	.122	.015 - .030	.377	.315	.010 - .020	**.381**	**.212**	**.005 - .010**	.390	.087	.020 - .030	.394	.255	.045 - .064	**.400**	**.142**	**.005 - .010**
.376	.126	.012 - .020	**.378**	**.061**	**.005 - .010**	.381	.255	.015 - .030	.390	.129	.015 - .030	.394	.260	.040 - .060	.400	.147	.025 - .048
.376	.130	.025 - .040	**.378**	**.062**	**.005 - .010**	.381	.260	.015 - .030	.390	.145	.015 - .080	**.394**	**.319**	**.005 - .010**	.400	.151	.010 - .060
.376	.141	.020 - .040	.378	.064	.015 - .025	**.381**	**.290**	**.005 - .010**	**.390**	**.157**	**.005 - .010**	.395	.099	.030 - .050	**.400**	**.153**	**.005 - .010**
.376	.156	.010 - .020	**.378**	**.127**	**.005 - .010**	**.381**	**.294**	**.005 - .010**	.390	.162	.020 - .030	.395	.165	.015 - .030	.400	.168	.042 - .062
.376	.157	.010 - .090	.378	.130	.010 - .020	.381	.300	.020 - .035	.390	.169	.025 - .050	.395	.172	.020 - .035	**.400**	**.172**	**.005 - .010**
.376	.158	.050 - .070	.378	.160	.010 - .020	.381	.315	.020 - .036	.390	.181	.030 - .050	.395	.174	.015 - .030	.400	.173	.030 - .050
.376	.159	.050 - .075	.378	.164	.010 - .030	.382	.132	.025 - .040	**.390**	**.185**	**.005 - .010**	.395	.175	.090 - .105	.400	.182	.016 - .032
.376	**.161**	**.005 - .010**	.378	.171	.032 - .050	.382	.163	.030 - .050	.390	.195	.020 - .050	.395	.186	.070 - .090	**.400**	**.192**	**.005 - .060**
.376	**.169**	**.005 - .010**	**.378**	**.178**	**.005 - .010**	.382	.175	.015 - .030	.390	.198	.015 - .030	.395	.191	.025 - .093	.400	.198	.015 - .050
.376	**.172**	**.005 - .060**	.378	.200	.010 - .020	.382	.189	.050 - .072	.390	.201	.070 - .090	**.395**	**.195**	**.005 - .010**	.400	.200	.015 - .025
.376	.174	.075 - .090	.378	.202	.015 - .030	**.382**	**.195**	**.005 - .010**	.390	.217	.015 - .030	**.395**	**.200**	**.005 - .010**	**.400**	**.202**	**.005 - .010**
.376	.177	.020 - .035	**.378**	**.244**	**.005 - .010**	**.382**	**.204**	**.005 - .010**	.390	.235	.050 - .080	.395	.210	.025 - .040	**.400**	**.203**	**.005 - .010**
.376	.182	.010 - .020	.378	.251	.020 - .030	.382	.207	.030 - .050	**.390**	**.236**	**.005 - .080**	.395	.219	.010 - .020	.400	.206	.050 - .070
.376	.186	.060 - .080	.378	.252	.010 - .060	.382	.225	.030 - .050	.390	.241	.060 - .080	.395	.220	.015 - .035	**.400**	**.210**	**.005 - .020**
.376	.187	.030 - .050	.378	.255	.015 - .025	.382	.252	.015 - .025	**.390**	**.256**	**.005 - .010**	.395	.225	.010 - .020	**.400**	**.216**	**.005 - .010**
.376	**.189**	**.005 - .010**	.378	.258	.020 - .030	.382	.300	.048 - .062	.390	.257	.015 - .030	.395	.236	.040 - .060	.400	.225	.050 - .070
.376	.190	.020 - .080	**.378**	**.260**	**.005 - .010**	.382	.328	.015 - .025	**.390**	**.258**	**.005 - .010**	**.395**	**.243**	**.005 - .015**	.400	.240	.015 - .020
.376	.191	.040 - .060	.378	.269	.008 - .016	.383	.099	.030 - .050	**.390**	**.260**	**.005 - .020**	.395	.246	.015 - .030	**.400**	**.252**	**.005 - .010**
.376	.194	.030 - .050	.378	.289	.012 - .025	.383	.115	.015 - .030	.390	.262	.040 - .060	.395	.248	.060 - .075	.400	.253	.010 - .020
.376	**.196**	**.005 - .010**	**.378**	**.292**	**.005 - .010**	.383	.155	.030 - .050	.390	.266	.025 - .040	.395	.251	.020 - .030	.400	.254	.010 - .020
.376	**.197**	**.005 - .010**	.379	.143	.050 - .070	.384	.127	.020 - .030	**.390**	**.284**	**.005 - .010**	.395	.277	.040 - .050	**.400**	**.255**	**.005 - .030**
.376	.204	.010 - .020	.379	.162	.015 - .035	.384	.144	.030 - .050	**.390**	**.306**	**.005 - .010**	.395	.280	.040 - .060	**.400**	**.260**	**.005 - .010**
.376	**.205**	**.005 - .010**	.379	.163	.020 - .035	.384	.159	.030 - .050	.390	.314	.025 - .040	**.395**	**.284**	**.005 - .048**	.400	.268	.030 - .050
.376	.217	.040 - .060	.379	.164	.040 - .070	.384	.214	.030 - .050	**.391**	**.105**	**.005 - .010**	.395	.294	.036 - .050	.400	.273	.025 - .040
.376	.220	.020 - .032	**.379**	**.173**	**.005 - .010**	.384	.238	.020 - .030	.391	.132	.120 - .140	**.395**	**.322**	**.005 - .010**	.400	.286	.030 - .040
.376	**.222**	**.005 - .010**	**.379**	**.198**	**.005 - .010**	.384	.271	.015 - .020	.391	.163	.040 - .060	**.395**	**.338**	**.005 - .010**	.400	.288	.015 - .030
.376	**.223**	**.005 - .042**	**.379**	**.200**	**.005 - .010**	.384	.285	.015 - .030	.391	.177	.040 - .060	.396	.055	.010 - .020	.400	.314	.025 - .040
.376	.234	.030 - .050	**.379**	**.221**	**.005 - .010**	.385	.156	.020 - .032	.391	.197	.015 - .030	.396	.194	.010 - .015	**.400**	**.347**	**.005 - .010**
.376	.244	.032 - .050	**.379**	**.250**	**.005 - .010**	.385	.181	.030 - .050	.391	.226	.010 - .020	.396	.203	.020 - .040	**.400**	**.360**	**.005 - .010**
.376	.251	.020 - .032	**.379**	**.252**	**.005 - .010**	.385	.188	.025 - .040	**.391**	**.242**	**.005 - .010**	**.396**	**.221**	**.005 - .015**	**.401**	**.102**	**.005 - .010**
.376	.252	.040 - .050	.379	.257	.040 - .062	.385	.194	.060 - .080	.391	.271	.020 - .040	.396	.259	.030 - .050	.401	.121	.030 - .050
.376	.254	.025 - .048	.379	.297	.030 - .042	**.385**	**.239**	**.005 - .010**	.391	.285	.020 - .035	.396	.260	.030 - .050	.401	.125	.030 - .105
.376	.255	.040 - .060	.380	.093	.015 - .030	.385	.241	.030 - .070	**.391**	**.306**	**.005 - .010**	.396	.277	.020 - .040	.401	.128	.025 - .040
.376	**.260**	**.005 - .032**	.380	.095	.015 - .030	.385	.249	.025 - .048	.391	.307	.010 - .020	.396	.278	.020 - .040	**.401**	**.130**	**.005 - .010**
.376	.261	.010 - .020	.380	.096	.060 - .080	**.385**	**.252**	**.005 - .012**	.391	.314	.015 - .020	.396	.285	.025 - .042	**.401**	**.165**	**.005 - .010**
.376	**.263**	**.005 - .020**	.380	.097	.040 - .060	**.385**	**.260**	**.005 - .010**	**.391**	**.348**	**.005 - .010**	**.396**	**.318**	**.005 - .010**	.401	.169	.031 - .048
.376	**.269**	**.005 - .010**	**.380**	**.116**	**.005 - .010**	.385	.262	.050 - .060	.392	.129	.025 - .040	**.396**	**.333**	**.005 - .030**	**.401**	**.171**	**.005 - .010**
.376	.271	.010 - .040	.380	.126	.030 - .050	.385	.290	.010 - .020	**.392**	**.190**	**.005 - .010**	**.396**	**.338**	**.005 - .008**	.401	.202	.020 - .060
.376	.276	.040 - .060	.380	.148	.025 - .040	**.385**	**.301**	**.005 - .010**	.392	.207	.015 - .030	**.397**	**.025**	**.005 - .010**	.401	.219	.020 - .040
.376	**.301**	**.005 - .010**	.380	.149	.080 - .100	.386	.121	.030 - .050	**.392**	**.219**	**.005 - .010**	**.397**	**.032**	**.005 - .010**	.401	.221	.060 - .075
.376	**.316**	**.005 - .010**	.380	.162	.040 - .060	.386	.130	.020 - .030	.392	.280	.035 - .050	.397	.105	.008 - .016	.401	.237	.035 - .050
.377	**.031**	**.005 - .010**	**.380**	**.173**	**.005 - .010**	.386	.141	.010 - .020	**.392**	**.328**	**.005 - .010**	**.397**	**.109**	**.005 - .015**	.401	.241	.030 - .050
.377	.035	.015 - .025	.380	.175	.015 - .090	.386	.162	.050 - .062	**.392**	**.337**	**.005 - .010**	.397	.153	.025 - .040	.401	.251	.025 - .040
.377	.047	.030 - .042	**.380**	**.180**	**.005 - .010**	.386	.181	.040 - .060	**.393**	**.042**	**.005 - .010**	**.397**	**.176**	**.005 - .010**	.401	.258	.015 - .025
.377	.068	.030 - .042	.380	.186	.015 - .040	.386	.225	.020 - .040	.393	.103	.010 - .020	.397	.183	.010 - .020	**.401**	**.263**	**.005 - .010**
.377	**.071**	**.005 - .010**	**.380**	**.190**	**.005 - .010**	.386	.237	.040 - .050	.393	.111	.025 - .040	.397	.196	.010 - .015	**.401**	**.298**	**.005 - .010**
.377	.100	.015 - .030	.380	.191	.020 - .040	.386	.250	.015 - .040	**.393**	**.120**	**.005 - .010**	**.397**	**.212**	**.005 - .015**	.401	.314	.010 - .020
.377	.101	.020 - .030	**.380**	**.192**	**.005 - .010**	.386	.301	.020 - .040	**.393**	**.158**	**.005 - .020**	**.397**	**.231**	**.005 - .010**	**.401**	**.328**	**.005 - .030**
.377	.110	.020 - .030	**.380**	**.194**	**.005 - .010**	.386	.313	.020 - .030	.393	.196	.040 - .050	**.397**	**.250**	**.005 - .010**	.402	.099	.015 - .025
.377	.114	.020 - .040	**.380**	**.195**	**.005 - .025**	.387	.091	.030 - .050	.393	.201	.030 - .050	.397	.255	.070 - .090	.402	.145	.015 - .060
.377	**.115**	**.005 - .010**	.380	.204	.012 - .025	.387	.118	.020 - .030	**.393**	**.209**	**.005 - .010**	.397	.267	.020 - .040	**.402**	**.157**	**.005 - .010**
.377	.134	.015 - .030	.380	.215	.030 - .050	.387	.171	.060 - .090	**.393**	**.214**	**.005 - .010**	.397	.280	.040 - .050	.402	.162	.060 - .080
.377	**.140**	**.005 - .010**	**.380**	**.226**	**.005 - .010**	.387	.189	.032 - .048	.393	.230	.025 - .040	.397	.298	.015 - .030	.402	.193	.015 - .025
.377	.145	.050 - .060	**.380**	**.255**	**.005 - .010**	.387	.258	.020 - .040	**.393**	**.237**	**.005 - .010**	.397	.315	.032 - .042	.402	.235	.050 - .070
.377	.147	.010 - .020	**.380**	**.262**	**.005 - .010**	**.387**	**.280**	**.005 - .010**	**.393**	**.239**	**.005 - .010**	.397	.320	.020 - .040	.402	.256	.030 - .050
.377	.156	.030 - .060	.380	.264	.025 - .040	.387	.318	.008 - .020	**.393**	**.240**	**.005 - .050**	.397	.325	.015 - .025	.402	.270	.040 - .060
.377	.157	.070 - .090	**.380**	**.276**	**.005 - .010**	.387	.328	.010 - .020	.393	.256	.020 - .040	.398	.117	.020 - .035	.402	.281	.048 - .062
.377	**.164**	**.005 - .010**	.380	.277	.010 - .020	.388	.090	.015 - .025	**.393**	**.277**	**.005 - .010**	**.398**	**.188**	**.005 - .010**	.402	.300	.015 - .030
.377	.165	.020 - .030	.380	.280	.030 - .040	.388	.127	.008 - .020	**.393**	**.279**	**.005 - .010**	.398	.200	.070 - .080	**.402**	**.359**	**.005 - .010**
.377	.171	.025 - .040	.380	.285	.032 - .050	**.388**	**.136**	**.005 - .010**	.393	.285	.010 - .020	**.398**	**.225**	**.005 - .010**	**.403**	**.144**	**.005 - .010**

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

New tools added continually. Call for sizes not listed — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
.403	.189	.025 - .036	**.407**	**.207**	**.005 - .015**	.415	.192	.070 - .090	.423	.269	.060 - .078	.430	.159	.020 - .040	.433	.351	.015 - .030
.403	.192	.020 - .040	.407	.225	.020 - .040	.415	.243	.008 - .020	.423	.270	.060 - .080	.430	.161	.010 - .020	**.434**	**.043**	**.005 - .010**
.403	.193	.016 - .025	.407	.237	.020 - .040	.415	.250	.042 - .080	.423	.271	.050 - .070	.430	.175	.015 - .030	.434	.079	.030 - .050
.403	**.203**	**.005 - .010**	.407	.253	.010 - .015	**.415**	**.253**	**.005 - .010**	.423	.278	.025 - .050	.430	.180	.020 - .040	.434	.094	.040 - .060
.403	.263	.030 - .050	.407	.257	.010 - .020	.415	.265	.050 - .070	.423	.314	.010 - .020	.430	.185	.020 - .040	.434	.103	.040 - .060
.404	**.100**	**.005 - .010**	.407	.261	.008 - .016	.415	.281	.050 - .072	.423	.319	.015 - .025	.430	.189	.030 - .050	.434	.160	.090 - .125
.404	**.128**	**.005 - .010**	**.407**	**.262**	**.005 - .040**	.415	.285	.015 - .025	.423	.328	.030 - .042	.430	.190	.020 - .040	.434	.176	.020 - .040
.404	.173	.060 - .080	.407	.265	.015 - .036	.415	.313	.010 - .020	.423	.345	.010 - .020	.430	.191	.020 - .080	**.434**	**.196**	**.005 - .010**
.404	.180	.060 - .080	.407	.320	.010 - .020	.415	.324	.025 - .035	.424	.139	.030 - .050	.430	.200	.070 - .090	**.434**	**.198**	**.005 - .010**
.404	.189	.025 - .040	.408	.083	.020 - .050	**.416**	**.121**	**.005 - .010**	**.424**	**.169**	**.005 - .030**	.430	.206	.080 - .100	**.434**	**.224**	**.005 - .010**
.404	.190	.025 - .040	.408	.134	.025 - .040	.416	.128	.040 - .060	**.424**	**.190**	**.005 - .020**	.430	.215	.032 - .042	.434	.236	.032 - .062
.404	.195	.010 - .020	.408	.166	.015 - .040	**.416**	**.160**	**.005 - .010**	.424	.196	.040 - .060	.430	.220	.015 - .035	.434	.244	.040 - .050
.404	**.197**	**.005 - .010**	**.408**	**.172**	**.005 - .015**	.416	.180	.020 - .030	.424	.230	.015 - .025	**.430**	**.230**	**.005 - .010**	**.434**	**.253**	**.005 - .010**
.404	.210	.030 - .050	**.408**	**.173**	**.005 - .010**	.416	.205	.062 - .080	**.424**	**.319**	**.005 - .010**	.430	.258	.020 - .040	**.434**	**.255**	**.005 - .010**
.404	**.218**	**.005 - .010**	.408	.194	.040 - .060	.416	.218	.010 - .020	**.424**	**.325**	**.005 - .010**	**.430**	**.265**	**.005 - .080**	.434	.271	.050 - .070
.404	.220	.025 - .040	.408	.202	.030 - .040	.416	.241	.008 - .020	.425	.138	.030 - .050	**.430**	**.279**	**.005 - .010**	**.434**	**.282**	**.005 - .010**
.404	**.224**	**.005 - .010**	.408	.240	.020 - .040	.416	.251	.025 - .040	.425	.147	.020 - .030	.430	.285	.020 - .030	.434	.286	.020 - .030
.404	**.246**	**.005 - .010**	**.408**	**.261**	**.005 - .015**	.416	.260	.025 - .040	.425	.165	.015 - .030	.430	.308	.010 - .020	**.434**	**.315**	**.005 - .010**
.404	**.252**	**.005 - .010**	.408	.297	.010 - .020	.417	.251	.048 - .062	.425	.191	.060 - .080	.430	.314	.030 - .050	.434	.316	.015 - .040
.404	.260	.015 - .025	.409	.129	.015 - .030	**.417**	**.276**	**.005 - .010**	**.425**	**.197**	**.005 - .010**	**.430**	**.339**	**.005 - .010**	**.434**	**.318**	**.005 - .010**
.404	.265	.015 - .030	.409	.167	.015 - .025	.417	.356	.010 - .020	**.425**	**.212**	**.005 - .010**	.430	.343	.015 - .030	**.434**	**.320**	**.005 - .010**
.404	.280	.060 - .080	.409	.172	.020 - .040	.418	.149	.050 - .070	.425	.250	.015 - .030	**.430**	**.364**	**.005 - .010**	.434	.330	.030 - .050
.404	**.313**	**.005 - .012**	.409	.194	.035 - .050	.418	.190	.025 - .050	.425	.256	.050 - .070	**.430**	**.372**	**.005 - .020**	.434	.350	.025 - .035
.404	**.320**	**.005 - .020**	.409	.210	.060 - .083	.418	.206	.010 - .015	.425	.261	.050 - .062	**.430**	**.376**	**.005 - .010**	.435	.064	.035 - .062
.405	**.099**	**.005 - .010**	.409	.244	.030 - .040	.418	.251	.030 - .040	.425	.284	.030 - .050	.430	.379	.015 - .020	.435	.067	.020 - .040
.405	**.107**	**.005 - .010**	.409	.313	.015 - .030	.418	.257	.025 - .040	.425	.317	.015 - .030	**.431**	**.040**	**.005 - .010**	**.435**	**.077**	**.005 - .010**
.405	.108	.030 - .050	.409	.322	.015 - .030	.418	.289	.020 - .030	**.425**	**.318**	**.005 - .010**	.431	.126	.035 - .050	.435	.080	.012 - .025
.405	**.137**	**.005 - .010**	**.410**	**.063**	**.005 - .010**	.418	.315	.035 - .050	.425	.319	.040 - .050	.431	.127	.025 - .040	.435	.082	.030 - .050
.405	.156	.040 - .060	.410	.188	.030 - .040	.419	.125	.050 - .072	.425	.326	.020 - .030	.431	.157	.025 - .040	.435	.112	.007 - .012
.405	.162	.015 - .025	**.410**	**.201**	**.005 - .105**	.419	.148	.062 - .090	.425	.336	.020 - .030	**.431**	**.158**	**.005 - .010**	.435	.136	.090 - .105
.405	**.168**	**.005 - .010**	.410	.210	.040 - .060	.419	.173	.080 - .104	.425	.343	.020 - .040	**.431**	**.195**	**.005 - .010**	.435	.149	.060 - .083
.405	.175	.040 - .060	.410	.220	.025 - .040	.419	.224	.040 - .060	**.425**	**.344**	**.005 - .010**	.431	.197	.020 - .030	.435	.160	.010 - .020
.405	**.184**	**.005 - .010**	.410	.223	.010 - .020	**.419**	**.303**	**.005 - .010**	**.425**	**.345**	**.005 - .010**	**.431**	**.235**	**.005 - .012**	.435	.166	.090 - .105
.405	**.201**	**.005 - .010**	**.410**	**.254**	**.005 - .010**	.419	.313	.025 - .040	.426	.140	.015 - .030	.431	.238	.030 - .060	.435	.174	.025 - .040
.405	.202	.020 - .072	.410	.256	.030 - .042	**.419**	**.329**	**.005 - .025**	**.426**	**.215**	**.005 - .015**	**.431**	**.259**	**.005 - .030**	.435	.178	.105 - .125
.405	.204	.050 - .060	**.410**	**.261**	**.005 - .010**	**.419**	**.345**	**.005 - .010**	.426	.216	.070 - .090	.431	.294	.015 - .025	.435	.182	.060 - .083
.405	.243	.010 - .015	**.410**	**.300**	**.005 - .010**	.420	.129	.020 - .030	**.426**	**.219**	**.005 - .010**	**.432**	**.080**	**.005 - .010**	.435	.190	.070 - .090
.405	.250	.020 - .030	.410	.306	.015 - .030	.420	.170	.015 - .030	.426	.225	.010 - .020	.432	.117	.030 - .050	**.435**	**.191**	**.005 - .010**
.405	.252	.030 - .050	**.410**	**.314**	**.005 - .010**	**.420**	**.179**	**.005 - .010**	.426	.234	.025 - .040	.432	.118	.015 - .030	**.435**	**.198**	**.005 - .072**
.405	.253	.025 - .040	.410	.317	.020 - .035	**.420**	**.193**	**.005 - .010**	.426	.256	.040 - .060	.432	.120	.015 - .030	.435	.200	.050 - .075
.405	**.257**	**.005 - .040**	.410	.358	.020 - .030	.420	.204	.030 - .050	.426	.257	.050 - .075	.432	.122	.030 - .050	**.435**	**.203**	**.005 - .008**
.405	.261	.010 - .020	**.411**	**.091**	**.005 - .010**	**.420**	**.234**	**.005 - .010**	.426	.270	.050 - .070	.432	.125	.032 - .062	.435	.214	.040 - .062
.405	.276	.025 - .048	**.411**	**.095**	**.005 - .010**	.420	.238	.020 - .030	**.426**	**.272**	**.005 - .010**	.432	.130	.010 - .020	.435	.223	.025 - .050
.405	.279	.050 - .060	.411	.127	.020 - .040	**.420**	**.241**	**.005 - .010**	**.426**	**.314**	**.005 - .010**	.432	.133	.050 - .090	.435	.237	.015 - .030
.405	.303	.015 - .025	**.411**	**.225**	**.005 - .010**	.420	.251	.030 - .040	.426	.320	.010 - .020	.432	.135	.040 - .060	.435	.250	.015 - .030
.406	**.094**	**.005 - .010**	.411	.258	.020 - .050	.420	.254	.006 - .012	.426	.345	.010 - .020	**.432**	**.199**	**.005 - .010**	.435	.252	.015 - .030
.406	.120	.032 - .048	.411	.292	.010 - .020	**.420**	**.258**	**.005 - .010**	.426	.354	.015 - .025	.432	.260	.080 - .100	**.435**	**.254**	**.005 - .008**
.406	.124	.020 - .040	.411	.310	.010 - .020	**.420**	**.279**	**.005 - .016**	.427	.107	.010 - .020	.432	.263	.015 - .025	.435	.257	.025 - .040
.406	.127	.025 - .040	.411	.314	.030 - .050	.420	.280	.010 - .025	.427	.134	.030 - .050	**.432**	**.297**	**.005 - .010**	.435	.261	.025 - .045
.406	.128	.015 - .030	**.411**	**.315**	**.005 - .020**	**.420**	**.311**	**.005 - .010**	.427	.213	.030 - .050	.432	.313	.020 - .048	.435	.267	.010 - .020
.406	.140	.025 - .042	.412	.136	.007 - .015	.420	.314	.030 - .050	.427	.230	.010 - .020	**.432**	**.315**	**.005 - .010**	.435	.268	.010 - .020
.406	.155	.050 - .075	.412	.161	.030 - .050	**.420**	**.319**	**.005 - .010**	.427	.233	.050 - .070	.432	.316	.040 - .060	.435	.284	.040 - .072
.406	.161	.050 - .075	**.412**	**.190**	**.005 - .070**	**.421**	**.058**	**.005 - .010**	**.427**	**.260**	**.005 - .010**	**.432**	**.317**	**.005 - .010**	.435	.290	.025 - .050
.406	.170	.010 - .025	**.412**	**.196**	**.005 - .015**	**.421**	**.121**	**.005 - .010**	.427	.265	.015 - .030	.432	.319	.030 - .050	**.435**	**.296**	**.005 - .010**
.406	.171	.048 - .072	**.412**	**.211**	**.005 - .010**	.421	.178	.020 - .040	.427	.279	.040 - .060	.432	.356	.015 - .025	**.435**	**.305**	**.005 - .010**
.406	.189	.012 - .020	.412	.231	.060 - .080	.421	.204	.020 - .040	.427	.325	.015 - .030	**.432**	**.364**	**.005 - .010**	.435	.321	.030 - .050
.406	**.190**	**.005 - .010**	**.412**	**.236**	**.005 - .010**	**.421**	**.209**	**.005 - .010**	**.427**	**.347**	**.005 - .010**	.433	.042	.031 - .048	.435	.327	.030 - .050
.406	.201	.050 - .070	**.412**	**.241**	**.005 - .010**	.421	.234	.025 - .040	.428	.034	.016 - .025	.433	.052	.015 - .030	.435	.380	.010 - .020
.406	**.203**	**.005 - .010**	.412	.290	.040 - .060	.421	.251	.015 - .030	.428	.101	.010 - .020	.433	.054	.015 - .030	.436	.188	.070 - .090
.406	.204	.030 - .050	.412	.326	.010 - .040	**.421**	**.252**	**.005 - .010**	**.428**	**.132**	**.005 - .010**	.433	.089	.020 - .040	.436	.226	.010 - .025
.406	.209	.030 - .050	**.413**	**.169**	**.005 - .010**	.421	.268	.025 - .040	.428	.143	.050 - .070	.433	.157	.030 - .050	.436	.241	.025 - .035
.406	.218	.025 - .040	.413	.187	.010 - .020	**.421**	**.279**	**.005 - .010**	.428	.179	.090 - .105	.433	.178	.105 - .125	.436	.251	.080 - .100
.406	.220	.025 - .042	.413	.212	.010 - .020	**.421**	**.280**	**.005 - .010**	.428	.213	.020 - .040	.433	.202	.015 - .030	.436	.253	.030 - .050
.406	.221	.010 - .020	.413	.222	.042 - .072	**.421**	**.291**	**.005 - .010**	.428	.220	.040 - .060	**.433**	**.203**	**.005 - .030**	.436	.254	.010 - .020
.406	**.224**	**.005 - .010**	**.413**	**.223**	**.005 - .010**	.421	.319	.020 - .030	**.428**	**.241**	**.005 - .010**	**.433**	**.220**	**.005 - .010**	**.436**	**.256**	**.005 - .010**
.406	.242	.062 - .080	**.413**	**.229**	**.005 - .010**	**.421**	**.322**	**.005 - .010**	**.428**	**.299**	**.005 - .010**	**.433**	**.224**	**.005 - .010**	**.436**	**.263**	**.005 - .010**
.406	.250	.020 - .035	**.413**	**.319**	**.005 - .010**	.422	.038	.020 - .036	.428	.311	.025 - .040	.433	.237	.030 - .050	.436	.279	.010 - .025
.406	.252	.050 - .070	**.413**	**.326**	**.005 - .010**	**.422**	**.123**	**.005 - .010**	.428	.316	.025 - .040	**.433**	**.238**	**.005 - .010**	.436	.282	.025 - .075
.406	.257	.025 - .042	.413	.379	.010 - .020	.422	.129	.010 - .025	.428	.318	.010 - .020	**.433**	**.239**	**.005 - .010**	.436	.283	.010 - .020
.406	**.260**	**.005 - .010**	.414	.081	.030 - .050	.422	.130	.015 - .025	**.429**	**.135**	**.005 - .010**	.433	.243	.020 - .050	**.436**	**.287**	**.005 - .015**
.406	.262	.025 - .040	.414	.162	.030 - .050	**.422**	**.153**	**.005 - .010**	.429	.161	.020 - .040	.433	.251	.010 - .030	**.436**	**.314**	**.005 - .010**
.406	.264	.036 - .050	.414	.212	.080 - .100	.422	.189	.025 - .035	.429	.189	.010 - .020	.433	.253	.008 - .070	.436	.316	.010 - .042
.406	**.269**	**.005 - .010**	.414	.236	.070 - .080	.422	.282	.040 - .060	**.429**	**.199**	**.005 - .010**	.433	.276	.020 - .040	**.436**	**.318**	**.005 - .010**
.406	.276	.042 - .062	**.414**	**.252**	**.005 - .060**	.422	.335	.010 - .020	.429	.257	.010 - .020	**.433**	**.278**	**.005 - .010**	.436	.334	.015 - .030
.406	**.278**	**.005 - .010**	**.414**	**.261**	**.005 - .010**	**.422**	**.375**	**.005 - .010**	.429	.260	.015 - .060	**.433**	**.315**	**.005 - .030**	.436	.375	.015 - .030
.406	.284	.020 - .040	.414	.277	.035 - .045	**.423**	**.129**	**.005 - .010**	**.430**	**.111**	**.005 - .010**	**.433**	**.317**	**.005 - .010**	**.436**	**.378**	**.005 - .010**
.406	**.285**	**.005 - .010**	.414	.282	.020 - .030	**.423**	**.153**	**.005 - .015**	.430	.115	.010 - .020	.433	.321	.035 - .050	**.436**	**.397**	**.005 - .010**
.406	**.304**	**.005 - .010**	.414	.315	.010 - .020	.423	.226	.040 - .060	**.430**	**.120**	**.005 - .012**	**.433**	**.330**	**.005 - .010**	**.437**	**.039**	**.005 - .010**
.407	**.063**	**.005 - .010**	.415	.092	.040 - .060	.423	.250	.020 - .035	.430	.128	.032 - .042	.433	.347	.015 - .030	.437	.096	.015 - .025
.407	**.175**	**.005 - .010**	.415	.179	.040 - .070	.423	.254	.020 - .030	.430	.130	.030 - .050	.433	.348	.030 - .040	.437	.120	.040 - .060

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

For non-metallic materials, contact BOKER'S — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
.437	**.125**	**.005 - .015**	.438	.198	.025 - .035	.440	.237	.050 - .075	.447	.127	.020 - .040	.451	.344	.030 - .050	.462	.062	.030 - .050
.437	.126	.025 - .050	**.438**	**.200**	**.005 - .090**	**.440**	**.245**	**.005 - .010**	.447	.146	.020 - .040	.451	.353	.010 - .020	.462	.090	.025 - .042
.437	.127	.015 - .060	.438	.201	.025 - .050	**.440**	**.250**	**.005 - .010**	.447	.194	.030 - .050	.451	.378	.020 - .030	.462	.158	.040 - .060
.437	.128	.030 - .050	.438	.202	.020 - .040	.440	.252	.010 - .025	.447	.202	.025 - .040	**.451**	**.395**	**.005 - .010**	**.462**	**.165**	**.005 - .010**
.437	.129	.010 - .042	.438	.203	.075 - .090	**.440**	**.253**	**.005 - .010**	.447	.223	.025 - .050	.452	.036	.010 - .020	.462	.203	.010 - .030
.437	.130	.025 - .042	.438	.205	.070 - .090	.440	.260	.010 - .070	.447	.230	.025 - .040	.452	.102	.015 - .030	**.462**	**.288**	**.005 - .010**
.437	.133	.050 - .062	.438	.206	.020 - .030	**.440**	**.265**	**.005 - .010**	**.447**	**.236**	**.005 - .010**	.452	.250	.040 - .060	.462	.318	.070 - .080
.437	.141	.048 - .072	**.438**	**.207**	**.005 - .010**	.440	.275	.020 - .045	.447	.250	.020 - .040	.452	.257	.010 - .020	**.462**	**.324**	**.005 - .010**
.437	.142	.040 - .060	.438	.210	.042 - .060	.440	.283	.040 - .062	.447	.254	.010 - .020	**.452**	**.284**	**.005 - .010**	.462	.336	.050 - .060
.437	.143	.040 - .060	**.438**	**.216**	**.005 - .100**	.440	.304	.030 - .050	.447	.270	.020 - .030	.452	.328	.040 - .060	.462	.377	.015 - .025
.437	.144	.025 - .035	.438	.232	.035 - .050	.440	.314	.040 - .060	.447	.313	.015 - .025	.453	.236	.030 - .050	.463	.073	.015 - .030
.437	.147	.020 - .040	**.438**	**.236**	**.005 - .010**	.440	.316	.020 - .050	**.447**	**.337**	**.005 - .010**	.453	.243	.020 - .030	.463	.166	.015 - .030
.437	.150	.010 - .020	**.438**	**.247**	**.005 - .010**	.440	.328	.040 - .060	.447	.375	.020 - .036	.453	.275	.010 - .020	.463	.188	.060 - .080
.437	.157	.015 - .030	.438	.249	.050 - .075	.440	.355	.015 - .025	.447	.380	.015 - .030	.453	.300	.030 - .050	.463	.189	.025 - .040
.437	**.158**	**.005 - .010**	**.438**	**.255**	**.005 - .030**	.440	.381	.010 - .020	**.448**	**.094**	**.005 - .010**	.453	.330	.031 - .048	.463	.222	.025 - .040
.437	.166	.010 - .050	.438	.256	.025 - .050	**.440**	**.390**	**.005 - .010**	.448	.139	.030 - .040	.453	.354	.040 - .060	.463	.224	.010 - .020
.437	.169	.008 - .016	.438	.257	.030 - .050	.441	.042	.010 - .020	.448	.181	.006 - .012	.453	.378	.031 - .042	.463	.245	.030 - .060
.437	.171	.030 - .050	**.438**	**.258**	**.005 - .010**	**.441**	**.093**	**.005 - .020**	**.448**	**.189**	**.005 - .010**	.453	.398	.010 - .020	.463	.258	.050 - .075
.437	.183	.050 - .062	**.438**	**.259**	**.005 - .010**	**.441**	**.143**	**.005 - .020**	.448	.191	.030 - .048	**.454**	**.107**	**.005 - .010**	.463	.263	.060 - .075
.437	.191	.010 - .104	.438	.262	.030 - .050	.441	.151	.030 - .050	.448	.203	.015 - .030	.454	.136	.030 - .050	.463	.267	.030 - .050
.437	.192	.050 - .075	.438	.265	.030 - .060	.441	.168	.030 - .050	.448	.205	.030 - .060	.454	.193	.070 - .090	**.463**	**.270**	**.005 - .010**
.437	.194	.020 - .104	.438	.266	.015 - .030	.441	.172	.062 - .083	.448	.215	.020 - .040	**.454**	**.228**	**.005 - .010**	**.463**	**.288**	**.005 - .010**
.437	.197	.040 - .125	.438	.274	.015 - .030	**.441**	**.190**	**.005 - .010**	.448	.223	.025 - .040	.454	.320	.025 - .040	**.463**	**.313**	**.005 - .010**
.437	**.198**	**.005 - .010**	.438	.276	.030 - .050	**.441**	**.198**	**.005 - .030**	**.448**	**.245**	**.005 - .010**	.454	.356	.020 - .030	.463	.320	.040 - .050
.437	.199	.015 - .032	.438	.281	.060 - .080	.441	.224	.050 - .075	.448	.251	.032 - .060	**.454**	**.390**	**.005 - .010**	.463	.321	.030 - .050
.437	.204	.020 - .030	**.438**	**.282**	**.005 - .075**	.441	.242	.020 - .030	.448	.271	.030 - .050	**.454**	**.421**	**.005 - .010**	.463	.322	.015 - .030
.437	.205	.020 - .035	.438	.284	.050 - .075	.441	.254	.020 - .040	**.448**	**.312**	**.005 - .010**	**.455**	**.080**	**.005 - .010**	.463	.333	.030 - .050
.437	.215	.020 - .040	.438	.297	.015 - .025	**.441**	**.255**	**.005 - .010**	.448	.323	.010 - .020	**.455**	**.145**	**.005 - .010**	.463	.391	.020 - .030
.437	.217	.060 - .080	.438	.313	.030 - .060	.441	.257	.020 - .048	.448	.331	.010 - .020	.455	.186	.025 - .040	**.464**	**.129**	**.005 - .010**
.437	.218	.015 - .062	.438	.315	.010 - .020	.441	.258	.030 - .050	.448	.367	.035 - .050	.455	.187	.025 - .035	.464	.159	.060 - .080
.437	.219	.008 - .016	**.438**	**.316**	**.005 - .010**	.441	.266	.042 - .072	.448	.368	.030 - .040	.455	.195	.015 - .030	.464	.160	.015 - .030
.437	.220	.040 - .060	.438	.322	.010 - .020	.441	.270	.025 - .040	**.448**	**.377**	**.005 - .010**	.455	.235	.020 - .030	.464	.190	.030 - .050
.437	**.222**	**.005 - .010**	.438	.323	.025 - .040	**.441**	**.273**	**.005 - .010**	**.449**	**.259**	**.005 - .010**	.455	.257	.020 - .032	.464	.210	.020 - .036
.437	.225	.032 - .062	**.438**	**.325**	**.005 - .010**	.441	.316	.040 - .060	**.449**	**.351**	**.005 - .010**	.455	.261	.007 - .016	**.464**	**.218**	**.005 - .010**
.437	.228	.050 - .070	.438	.328	.010 - .020	**.441**	**.319**	**.005 - .010**	**.449**	**.412**	**.005 - .010**	.455	.265	.015 - .030	.464	.237	.015 - .030
.437	.232	.030 - .042	**.438**	**.335**	**.005 - .010**	**.441**	**.320**	**.005 - .008**	.450	.062	.030 - .050	.455	.302	.015 - .030	**.464**	**.244**	**.005 - .020**
.437	.238	.006 - .016	.438	.337	.025 - .040	.442	.154	.030 - .040	.450	.065	.006 - .015	.455	.353	.010 - .020	**.464**	**.252**	**.005 - .010**
.437	.245	.020 - .040	.438	.339	.025 - .040	**.442**	**.195**	**.005 - .010**	.450	.089	.030 - .050	.455	.383	.025 - .040	.464	.265	.010 - .020
.437	.251	.010 - .015	**.438**	**.365**	**.005 - .015**	.442	.260	.010 - .020	.450	.114	.015 - .030	**.456**	**.074**	**.005 - .010**	.464	.318	.015 - .025
.437	.252	.010 - .020	.438	.381	.020 - .030	**.442**	**.286**	**.005 - .010**	.450	.120	.010 - .015	.456	.153	.025 - .040	.464	.320	.040 - .060
.437	.253	.035 - .050	.438	.384	.015 - .030	.442	.317	.040 - .060	**.450**	**.138**	**.005 - .015**	.456	.189	.030 - .040	.464	.367	.010 - .020
.437	**.254**	**.005 - .050**	.439	.118	.030 - .050	.443	.190	.025 - .040	**.450**	**.143**	**.005 - .010**	.456	.190	.025 - .062	**.464**	**.393**	**.005 - .010**
.437	.255	.010 - .020	.439	.141	.010 - .020	.443	.191	.025 - .040	.450	.162	.050 - .075	.456	.194	.040 - .062	.465	.062	.030 - .050
.437	.257	.008 - .016	.439	.165	.025 - .040	**.443**	**.223**	**.005 - .010**	.450	.174	.025 - .040	**.456**	**.221**	**.005 - .010**	.465	.117	.040 - .060
.437	.258	.025 - .070	.439	.173	.030 - .050	.443	.224	.040 - .060	**.450**	**.182**	**.005 - .010**	**.456**	**.235**	**.005 - .010**	.465	.134	.030 - .040
.437	.259	.050 - .070	**.439**	**.174**	**.005 - .050**	.443	.278	.020 - .040	.450	.185	.040 - .050	.456	.257	.020 - .030	.465	.171	.025 - .040
.437	.260	.010 - .025	.439	.185	.090 - .105	.443	.295	.016 - .025	**.450**	**.192**	**.005 - .010**	**.456**	**.261**	**.005 - .010**	.465	.188	.060 - .070
.437	**.261**	**.005 - .010**	.439	.189	.010 - .075	.443	.336	.040 - .060	.450	.200	.015 - .080	.456	.356	.010 - .020	.465	.210	.040 - .060
.437	.262	.030 - .042	.439	.190	.060 - .080	**.444**	**.165**	**.005 - .010**	**.450**	**.201**	**.005 - .010**	**.456**	**.378**	**.005 - .010**	.465	.211	.100 - .120
.437	**.265**	**.005 - .012**	**.439**	**.192**	**.005 - .010**	.444	.196	.015 - .030	**.450**	**.216**	**.005 - .010**	.456	.390	.010 - .020	**.465**	**.217**	**.005 - .010**
.437	.275	.020 - .040	.439	.203	.040 - .090	.444	.220	.030 - .050	.450	.223	.015 - .025	.457	.252	.050 - .075	**.465**	**.221**	**.005 - .010**
.437	.281	.042 - .062	.439	.207	.040 - .060	.444	.318	.030 - .050	.450	.237	.030 - .050	**.457**	**.254**	**.005 - .010**	.465	.222	.060 - .070
.437	.284	.015 - .030	.439	.251	.060 - .080	.444	.347	.020 - .040	**.450**	**.240**	**.005 - .010**	.457	.311	.030 - .040	**.465**	**.229**	**.005 - .010**
.437	.287	.010 - .020	.439	.252	.060 - .080	**.444**	**.349**	**.005 - .010**	**.450**	**.247**	**.005 - .010**	.457	.313	.050 - .060	.465	.252	.006 - .015
.437	**.302**	**.005 - .012**	.439	.253	.010 - .025	.445	.095	.030 - .050	.450	.251	.020 - .100	**.457**	**.363**	**.005 - .010**	**.465**	**.261**	**.005 - .010**
.437	**.312**	**.005 - .010**	.439	.260	.025 - .040	.445	.116	.050 - .070	**.450**	**.252**	**.005 - .020**	.457	.407	.015 - .025	.465	.283	.075 - .125
.437	.316	.010 - .015	.439	.264	.060 - .075	.445	.136	.010 - .020	.450	.254	.025 - .040	.458	.172	.062 - .090	.465	.314	.015 - .025
.437	.321	.020 - .040	**.439**	**.276**	**.005 - .010**	.445	.142	.040 - .050	.450	.256	.010 - .020	.458	.250	.040 - .062	**.465**	**.345**	**.005 - .010**
.437	**.325**	**.005 - .010**	.439	.313	.040 - .060	.445	.206	.035 - .050	.450	.260	.025 - .040	.459	.172	.050 - .075	**.465**	**.402**	**.005 - .020**
.437	.328	.020 - .030	**.439**	**.315**	**.005 - .010**	**.445**	**.212**	**.005 - .010**	.450	.264	.050 - .070	**.459**	**.173**	**.005 - .050**	.466	.125	.015 - .030
.437	.329	.040 - .060	.439	.317	.040 - .060	.445	.252	.015 - .025	.450	.280	.050 - .075	.459	.194	.040 - .050	.466	.127	.020 - .040
.437	**.343**	**.005 - .060**	**.440**	**.024**	**.005 - .010**	.445	.265	.040 - .060	.450	.284	.020 - .040	.459	.290	.060 - .080	.466	.189	.020 - .040
.437	**.365**	**.005 - .010**	.440	.052	.025 - .040	.445	.325	.010 - .020	.450	.290	.080 - .100	.459	.312	.040 - .060	.466	.191	.020 - .045
.437	**.376**	**.005 - .025**	.440	.090	.035 - .050	.445	.331	.030 - .050	.450	.292	.015 - .025	.459	.337	.040 - .060	.466	.198	.040 - .060
.437	**.380**	**.005 - .010**	**.440**	**.105**	**.005 - .010**	.445	.348	.020 - .040	.450	.295	.015 - .030	.459	.347	.020 - .030	.466	.205	.020 - .030
.438	**.048**	**.005 - .010**	.440	.127	.010 - .020	**.445**	**.383**	**.005 - .040**	**.450**	**.316**	**.005 - .030**	.459	.350	.020 - .030	.466	.210	.020 - .035
.438	.058	.020 - .035	.440	.129	.030 - .050	**.445**	**.385**	**.005 - .010**	**.450**	**.317**	**.005 - .025**	.460	.040	.010 - .020	.466	.218	.050 - .070
.438	**.093**	**.005 - .010**	.440	.140	.025 - .040	.445	.390	.010 - .015	**.450**	**.320**	**.005 - .060**	.460	.143	.020 - .040	.466	.251	.025 - .040
.438	.094	.025 - .040	.440	.158	.030 - .050	**.445**	**.399**	**.005 - .010**	.450	.350	.015 - .025	**.460**	**.159**	**.005 - .010**	.466	.259	.080 - .100
.438	.119	.015 - .030	.440	.168	.040 - .060	.446	.049	.010 - .020	.450	.368	.010 - .020	**.460**	**.194**	**.005 - .010**	**.466**	**.264**	**.005 - .010**
.438	.125	.025 - .042	.440	.170	.025 - .050	.446	.151	.062 - .090	.450	.370	.015 - .030	**.460**	**.301**	**.005 - .010**	.466	.290	.020 - .030
.438	.129	.015 - .030	**.440**	**.173**	**.005 - .010**	**.446**	**.162**	**.005 - .010**	.450	.375	.025 - .042	**.460**	**.306**	**.005 - .010**	**.466**	**.293**	**.005 - .010**
.438	.136	.010 - .015	.440	.190	.100 - .125	.446	.171	.040 - .060	.451	.146	.020 - .030	.460	.313	.020 - .030	.466	.319	.010 - .020
.438	**.138**	**.005 - .010**	.440	.195	.035 - .050	.446	.197	.010 - .020	.451	.188	.020 - .030	.460	.319	.020 - .040	**.466**	**.321**	**.005 - .010**
.438	.147	.030 - .050	.440	.202	.070 - .090	.446	.208	.050 - .070	.451	.241	.025 - .040	.460	.378	.030 - .042	.466	.344	.015 - .030
.438	.162	.030 - .060	.440	.210	.010 - .020	**.446**	**.256**	**.005 - .010**	.451	.267	.030 - .050	**.460**	**.380**	**.005 - .015**	**.466**	**.380**	**.005 - .010**
.438	**.169**	**.005 - .010**	**.440**	**.211**	**.005 - .010**	**.446**	**.270**	**.005 - .040**	**.451**	**.274**	**.005 - .010**	**.461**	**.091**	**.005 - .010**	.467	.103	.010 - .020
.438	.193	.050 - .070	.440	.217	.070 - .090	.446	.307	.030 - .050	.451	.315	.040 - .062	.461	.215	.045 - .060	.467	.189	.075 - .105
.438	.195	.030 - .040	**.440**	**.218**	**.005 - .020**	.446	.319	.032 - .060	**.451**	**.317**	**.005 - .010**	**.461**	**.334**	**.005 - .010**	.467	.201	.015 - .030
.438	**.196**	**.005 - .020**	.440	.228	.015 - .040	.446	.325	.032 - .060	.451	.334	.020 - .030	.461	.355	.015 - .025	**.467**	**.204**	**.005 - .010**

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O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
.467	.213	.015 - .030	.470	.346	.010 - .020	**.473**	**.321**	**.005 - .010**	.480	.215	.030 - .050	.485	.376	.015 - .025	.490	.391	.016 - .025
.467	.218	.015 - .020	.470	.350	.006 - .015	**.473**	**.397**	**.005 - .030**	**.480**	**.222**	**.005 - .010**	.485	.385	.015 - .030	.490	.393	.030 - .042
.467	.245	.025 - .040	**.470**	**.360**	**.005 - .010**	.474	.126	.010 - .020	.480	.237	.040 - .060	.485	.386	.015 - .025	**.490**	**.412**	**.005 - .010**
.467	.251	.050 - .072	**.470**	**.369**	**.005 - .010**	**.474**	**.238**	**.005 - .010**	**.480**	**.250**	**.005 - .010**	.485	.411	.020 - .040	**.490**	**.416**	**.005 - .015**
.467	.260	.030 - .050	.470	.373	.020 - .035	.474	.260	.020 - .070	.480	.251	.030 - .050	.485	.412	.020 - .040	.491	.136	.020 - .040
.467	.294	.020 - .030	.470	.380	.030 - .040	.474	.261	.040 - .060	.480	.260	.015 - .030	**.485**	**.431**	**.005 - .010**	**.491**	**.172**	**.005 - .010**
.467	**.323**	**.005 - .015**	.470	.384	.015 - .025	**.474**	**.278**	**.005 - .010**	.480	.276	.010 - .020	.486	.062	.030 - .050	.491	.207	.020 - .030
.467	**.380**	**.005 - .010**	**.470**	**.418**	**.005 - .010**	**.474**	**.279**	**.005 - .010**	.480	.325	.010 - .020	.486	.128	.015 - .030	**.491**	**.250**	**.005 - .010**
.467	**.382**	**.005 - .010**	.471	.126	.040 - .050	**.474**	**.284**	**.005 - .010**	.480	.330	.020 - .040	.486	.220	.025 - .040	.491	.252	.100 - .134
.467	**.420**	**.005 - .010**	.471	.130	.030 - .080	**.474**	**.317**	**.005 - .015**	.480	.350	.020 - .040	.486	.224	.040 - .060	**.491**	**.253**	**.005 - .075**
.468	.084	.010 - .025	**.471**	**.149**	**.005 - .010**	.474	.320	.030 - .050	**.480**	**.354**	**.005 - .010**	.486	.230	.030 - .050	.491	.254	.050 - .075
.468	**.128**	**.005 - .015**	.471	.170	.020 - .030	**.474**	**.381**	**.005 - .012**	.480	.360	.015 - .030	.486	.260	.010 - .020	.491	.256	.040 - .060
.468	.150	.030 - .050	**.471**	**.174**	**.005 - .010**	.474	.396	.015 - .025	.480	.368	.015 - .025	.486	.315	.015 - .030	.491	.265	.090 - .105
.468	.222	.040 - .060	.471	.197	.030 - .040	.475	.147	.020 - .040	.480	.370	.015 - .030	**.486**	**.327**	**.005 - .050**	.491	.266	.010 - .030
.468	.254	.010 - .015	.471	.203	.115 - .135	.475	.192	.060 - .080	.480	.371	.020 - .030	**.486**	**.355**	**.005 - .010**	**.491**	**.267**	**.005 - .010**
.468	**.257**	**.005 - .010**	.471	.205	.100 - .125	**.475**	**.196**	**.005 - .010**	**.480**	**.380**	**.005 - .010**	.486	.404	.010 - .020	**.491**	**.268**	**.005 - .010**
.468	.258	.020 - .040	**.471**	**.206**	**.005 - .010**	.475	.227	.020 - .030	**.480**	**.391**	**.005 - .010**	.487	.042	.025 - .042	.491	.317	.010 - .020
.468	.259	.010 - .090	**.471**	**.218**	**.005 - .010**	.475	.259	.010 - .030	**.480**	**.417**	**.005 - .010**	.487	.071	.010 - .020	.491	.320	.010 - .020
.468	**.261**	**.005 - .015**	.471	.222	.020 - .030	**.475**	**.279**	**.005 - .010**	**.481**	**.089**	**.005 - .010**	**.487**	**.120**	**.005 - .010**	.491	.338	.030 - .050
.468	**.287**	**.005 - .010**	.471	.223	.040 - .050	**.475**	**.286**	**.005 - .010**	.481	.126	.020 - .040	.487	.225	.010 - .032	.491	.385	.015 - .030
.468	.312	.050 - .070	.471	.224	.020 - .040	**.475**	**.306**	**.005 - .010**	**.481**	**.161**	**.005 - .010**	.487	.233	.040 - .060	**.491**	**.393**	**.005 - .010**
.468	**.320**	**.005 - .010**	**.471**	**.254**	**.005 - .010**	.475	.334	.040 - .060	.481	.188	.020 - .030	.487	.256	.025 - .040	.492	.124	.110 - .130
.468	**.321**	**.005 - .072**	.471	.256	.035 - .050	**.475**	**.360**	**.005 - .010**	.481	.245	.015 - .030	.487	.257	.010 - .020	.492	.193	.030 - .050
.468	.390	.015 - .030	**.471**	**.259**	**.005 - .010**	.475	.368	.015 - .040	.481	.247	.025 - .040	.487	.270	.090 - .110	.492	.201	.040 - .050
.468	.400	.020 - .040	**.471**	**.287**	**.005 - .015**	**.475**	**.378**	**.005 - .010**	**.481**	**.256**	**.005 - .010**	**.487**	**.272**	**.005 - .010**	.492	.204	.105 - .125
.468	**.405**	**.005 - .010**	**.471**	**.296**	**.005 - .010**	.475	.380	.010 - .020	**.481**	**.318**	**.005 - .010**	.487	.286	.015 - .030	.492	.250	.020 - .040
.469	.100	.020 - .040	.471	.318	.050 - .070	.475	.397	.020 - .030	**.481**	**.336**	**.005 - .010**	.487	.321	.040 - .060	.492	.254	.030 - .060
.469	.149	.080 - .104	.471	.319	.010 - .020	.475	.400	.020 - .040	.481	.361	.040 - .060	.487	.327	.030 - .040	.492	.255	.030 - .050
.469	**.184**	**.005 - .010**	**.471**	**.322**	**.005 - .010**	.475	.411	.010 - .020	.481	.383	.010 - .020	.487	.336	.025 - .040	.492	.256	.010 - .020
.469	**.192**	**.005 - .030**	**.471**	**.337**	**.005 - .010**	.475	.424	.015 - .040	.481	.387	.010 - .020	.487	.337	.020 - .040	.492	.260	.070 - .090
.469	.206	.075 - .100	.471	.348	.025 - .042	.476	.144	.032 - .060	.481	.390	.050 - .060	**.487**	**.355**	**.005 - .020**	**.492**	**.276**	**.005 - .010**
.469	.228	.010 - .020	**.471**	**.378**	**.005 - .012**	.476	.163	.015 - .030	**.481**	**.402**	**.005 - .010**	**.487**	**.364**	**.005 - .010**	.492	.281	.030 - .050
.469	.254	.030 - .050	**.471**	**.387**	**.005 - .010**	.476	.169	.070 - .080	.482	.173	.030 - .050	**.487**	**.399**	**.005 - .010**	.492	.290	.020 - .030
.469	.263	.030 - .050	**.472**	**.097**	**.005 - .020**	.476	.181	.030 - .040	.482	.190	.020 - .040	**.487**	**.402**	**.005 - .010**	**.492**	**.323**	**.005 - .010**
.469	.269	.015 - .025	.472	.099	.020 - .040	.476	.190	.015 - .030	.482	.315	.020 - .040	.488	.054	.025 - .040	.492	.328	.012 - .020
.469	**.281**	**.005 - .020**	**.472**	**.125**	**.005 - .010**	.476	.210	.105 - .125	.482	.329	.050 - .075	.488	.096	.060 - .090	.492	.377	.030 - .050
.469	.320	.004 - .008	**.472**	**.157**	**.005 - .010**	.476	.240	.010 - .025	.482	.332	.020 - .040	.488	.118	.080 - .104	**.492**	**.379**	**.005 - .010**
.469	**.321**	**.005 - .010**	.472	.160	.010 - .020	.476	.289	.010 - .030	**.482**	**.334**	**.005 - .010**	.488	.193	.050 - .070	**.492**	**.380**	**.005 - .010**
.469	.322	.010 - .020	.472	.165	.015 - .030	.476	.314	.010 - .020	.482	.359	.010 - .040	.488	.281	.032 - .062	.492	.393	.020 - .042
.469	.325	.020 - .035	.472	.169	.025 - .050	.476	.324	.025 - .040	**.482**	**.396**	**.005 - .010**	**.488**	**.315**	**.005 - .010**	.493	.125	.015 - .030
.469	**.343**	**.005 - .010**	.472	.196	.032 - .048	.476	.376	.010 - .020	.483	.033	.010 - .020	.488	.365	.010 - .020	.493	.131	.020 - .040
.469	.349	.010 - .020	**.472**	**.200**	**.005 - .010**	**.476**	**.404**	**.005 - .010**	.483	.077	.020 - .040	**.488**	**.400**	**.005 - .010**	.493	.145	.070 - .090
.469	.379	.020 - .030	**.472**	**.211**	**.005 - .010**	.477	.132	.030 - .040	**.483**	**.149**	**.005 - .060**	.489	.180	.030 - .050	**.493**	**.181**	**.005 - .010**
.469	.384	.010 - .020	**.472**	**.236**	**.005 - .010**	**.477**	**.140**	**.005 - .010**	.483	.152	.030 - .060	.489	.189	.025 - .040	.493	.193	.075 - .090
.470	.042	.015 - .025	.472	.237	.015 - .030	**.477**	**.168**	**.005 - .010**	.483	.202	.042 - .062	.489	.192	.020 - .030	**.493**	**.198**	**.005 - .010**
.470	.044	.020 - .030	**.472**	**.238**	**.005 - .010**	**.477**	**.178**	**.005 - .010**	**.483**	**.247**	**.005 - .010**	.489	.205	.030 - .060	**.493**	**.207**	**.005 - .010**
.470	**.094**	**.005 - .015**	**.472**	**.239**	**.005 - .010**	.477	.201	.020 - .030	.483	.360	.030 - .040	.489	.206	.040 - .060	.493	.244	.050 - .070
.470	.116	.035 - .050	.472	.241	.075 - .090	.477	.302	.025 - .040	.483	.375	.025 - .040	**.489**	**.230**	**.005 - .010**	.493	.282	.050 - .075
.470	.118	.025 - .042	.472	.245	.030 - .040	.477	.390	.010 - .020	.483	.379	.030 - .040	.489	.296	.010 - .020	.493	.284	.030 - .050
.470	.119	.010 - .025	.472	.246	.030 - .050	.478	.170	.010 - .020	.484	.119	.020 - .040	.489	.303	.010 - .020	.493	.300	.030 - .050
.470	.138	.015 - .025	**.472**	**.265**	**.005 - .010**	.478	.222	.025 - .040	.484	.143	.016 - .025	.489	.304	.020 - .040	.493	.316	.025 - .040
.470	.143	.012 - .050	.472	.268	.070 - .090	**.478**	**.253**	**.005 - .010**	**.484**	**.230**	**.005 - .010**	**.489**	**.315**	**.005 - .010**	.493	.320	.060 - .080
.470	**.149**	**.005 - .010**	.472	.270	.090 - .105	.478	.254	.015 - .030	.484	.257	.050 - .075	.489	.320	.040 - .060	**.493**	**.350**	**.005 - .010**
.470	.150	.060 - .090	.472	.282	.020 - .040	.478	.255	.090 - .105	.484	.285	.060 - .080	.489	.333	.020 - .030	.493	.354	.025 - .040
.470	.158	.050 - .070	**.472**	**.289**	**.005 - .010**	**.478**	**.311**	**.005 - .010**	.484	.313	.050 - .072	.489	.338	.035 - .050	**.493**	**.369**	**.005 - .010**
.470	.159	.050 - .070	.472	.315	.025 - .040	.478	.315	.050 - .070	**.484**	**.370**	**.005 - .010**	.490	.126	.070 - .090	**.493**	**.373**	**.005 - .010**
.470	.176	.060 - .080	**.472**	**.319**	**.005 - .030**	.478	.316	.025 - .040	.484	.379	.040 - .060	.490	.127	.025 - .040	.493	.375	.020 - .040
.470	.187	.110 - .130	**.472**	**.376**	**.005 - .010**	**.478**	**.322**	**.005 - .010**	.484	.398	.040 - .060	.490	.165	.015 - .030	**.493**	**.376**	**.005 - .010**
.470	**.200**	**.005 - .010**	**.472**	**.379**	**.005 - .010**	.478	.325	.050 - .070	**.484**	**.432**	**.005 - .010**	.490	.167	.020 - .030	**.493**	**.388**	**.005 - .010**
.470	.210	.035 - .050	.472	.387	.025 - .035	**.478**	**.343**	**.005 - .010**	.485	.115	.015 - .030	.490	.170	.007 - .016	.493	.394	.025 - .040
.470	.218	.010 - .040	.472	.399	.010 - .020	.478	.375	.050 - .062	.485	.120	.010 - .080	.490	.174	.020 - .030	**.494**	**.032**	**.005 - .010**
.470	.225	.030 - .050	**.473**	**.039**	**.005 - .010**	**.479**	**.127**	**.005 - .010**	.485	.162	.020 - .040	.490	.189	.030 - .050	**.494**	**.081**	**.005 - .016**
.470	.228	.010 - .020	.473	.070	.010 - .020	.479	.160	.050 - .075	.485	.170	.040 - .060	**.490**	**.250**	**.005 - .010**	.494	.131	.030 - .050
.470	**.239**	**.005 - .010**	**.473**	**.157**	**.005 - .010**	**.479**	**.178**	**.005 - .010**	**.485**	**.200**	**.005 - .010**	**.490**	**.252**	**.005 - .010**	.494	.162	.020 - .030
.470	.255	.047 - .085	.473	.172	.120 - .135	.479	.210	.025 - .036	.485	.250	.015 - .030	.490	.259	.090 - .110	.494	.187	.050 - .070
.470	.265	.032 - .048	**.473**	**.205**	**.005 - .010**	.479	.219	.020 - .040	**.485**	**.257**	**.005 - .010**	**.490**	**.260**	**.005 - .010**	**.494**	**.204**	**.005 - .010**
.470	.271	.010 - .020	.473	.238	.030 - .050	**.479**	**.294**	**.005 - .010**	**.485**	**.258**	**.005 - .010**	**.490**	**.265**	**.005 - .010**	**.494**	**.211**	**.005 - .010**
.470	.276	.050 - .075	.473	.240	.010 - .020	.479	.377	.015 - .030	.485	.260	.015 - .025	**.490**	**.295**	**.005 - .020**	**.494**	**.224**	**.005 - .010**
.470	**.279**	**.005 - .010**	.473	.242	.030 - .050	**.479**	**.380**	**.005 - .008**	**.485**	**.270**	**.005 - .010**	**.490**	**.301**	**.005 - .010**	.494	.240	.100 - .125
.470	.280	.010 - .020	.473	.243	.010 - .020	**.479**	**.385**	**.005 - .010**	**.485**	**.281**	**.005 - .010**	**.490**	**.302**	**.005 - .010**	**.494**	**.241**	**.005 - .010**
.470	.290	.015 - .030	.473	.248	.020 - .030	**.479**	**.412**	**.005 - .010**	.485	.312	.030 - .050	.490	.313	.015 - .030	.494	.261	.010 - .020
.470	.312	.020 - .030	**.473**	**.262**	**.005 - .010**	.479	.424	.020 - .025	.485	.313	.010 - .020	.490	.315	.015 - .020	.494	.262	.025 - .040
.470	**.316**	**.005 - .010**	**.473**	**.274**	**.005 - .010**	.480	.062	.020 - .040	**.485**	**.317**	**.005 - .010**	.490	.316	.015 - .020	.494	.265	.010 - .060
.470	**.317**	**.005 - .010**	.473	.284	.030 - .050	**.480**	**.127**	**.005 - .010**	.485	.319	.010 - .020	.490	.343	.030 - .040	**.494**	**.273**	**.005 - .010**
.470	.319	.015 - .030	.473	.289	.030 - .050	**.480**	**.159**	**.005 - .010**	.485	.320	.010 - .040	**.490**	**.344**	**.005 - .010**	**.494**	**.274**	**.005 - .010**
.470	.324	.020 - .040	**.473**	**.315**	**.005 - .010**	.480	.166	.030 - .050	.485	.328	.032 - .050	.490	.353	.010 - .020	.494	.278	.010 - .020
.470	.330	.020 - .030	.473	.317	.010 - .020	**.480**	**.170**	**.005 - .010**	.485	.336	.010 - .020	.490	.360	.020 - .040	**.494**	**.280**	**.005 - .010**
.470	**.338**	**.005 - .010**	**.473**	**.318**	**.005 - .010**	**.480**	**.192**	**.005 - .010**	.485	.347	.020 - .030	.490	.377	.050 - .070	**.494**	**.282**	**.005 - .010**
.470	**.340**	**.005 - .012**	**.473**	**.319**	**.005 - .010**	.480	.196	.040 - .060	.485	.350	.020 - .030	.490	.378	.010 - .042	.494	.314	.015 - .050
.470	.341	.050 - .075	**.473**	**.320**	**.005 - .020**	.480	.201	.015 - .030	.485	.354	.010 - .020	**.490**	**.380**	**.005 - .010**	.494	.321	.010 - .020

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

For a size NOT listed, send specs or phone for quote — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
.494	**.323**	**.005 - .078**	**.496**	**.433**	**.005 - .010**	.499	.118	.060 - .080	.500	.168	.025 - .075	.500	.315	.015 - .104	**.501**	**.376**	**.005 - .010**
.494	.325	.025 - .035	**.496**	**.437**	**.005 - .010**	.499	.123	.050 - .060	.500	.170	.025 - .050	.500	.316	.010 - .050	.501	.379	.030 - .050
.494	**.367**	**.005 - .010**	.497	.088	.020 - .030	**.499**	**.125**	**.005 - .010**	.500	.172	.006 - .050	**.500**	**.317**	**.005 - .090**	**.501**	**.380**	**.005 - .010**
.494	.370	.008 - .015	.497	.098	.030 - .050	**.499**	**.138**	**.005 - .010**	**.500**	**.173**	**.005 - .010**	.500	.318	.010 - .020	.501	.386	.010 - .020
.494	**.373**	**.005 - .010**	.497	.137	.030 - .048	.499	.142	.030 - .050	.500	.176	.050 - .070	.500	.319	.025 - .050	**.501**	**.397**	**.005 - .010**
.494	**.380**	**.005 - .010**	.497	.138	.030 - .048	.499	.170	.020 - .030	.500	.177	.060 - .075	.500	.320	.015 - .025	.501	.402	.020 - .030
.494	.399	.025 - .040	.497	.166	.010 - .020	.499	.175	.050 - .072	.500	.180	.025 - .040	**.500**	**.321**	**.005 - .010**	.501	.404	.015 - .030
.494	.420	.008 - .015	.497	.191	.060 - .080	.499	.189	.010 - .020	.500	.182	.060 - .090	**.500**	**.323**	**.005 - .010**	.501	.409	.030 - .048
.495	.034	.015 - .025	.497	.193	.025 - .040	.499	.190	.020 - .030	.500	.187	.020 - .125	.500	.327	.020 - .080	.501	.413	.015 - .025
.495	**.040**	**.005 - .010**	**.497**	**.196**	**.005 - .010**	**.499**	**.192**	**.005 - .030**	.500	.188	.030 - .050	.500	.328	.048 - .070	.502	.124	.060 - .083
.495	.063	.020 - .035	**.497**	**.215**	**.005 - .010**	**.499**	**.193**	**.005 - .075**	**.500**	**.189**	**.005 - .125**	.500	.332	.080 - .100	**.502**	**.130**	**.005 - .010**
.495	.073	.040 - .062	.497	.220	.020 - .070	**.499**	**.194**	**.005 - .010**	.500	.190	.090 - .104	.500	.334	.010 - .020	.502	.131	.025 - .040
.495	.136	.030 - .050	.497	.250	.015 - .030	.499	.201	.050 - .075	**.500**	**.191**	**.005 - .010**	.500	.336	.030 - .050	**.502**	**.142**	**.005 - .010**
.495	.143	.100 - .125	**.497**	**.252**	**.005 - .025**	.499	.203	.080 - .100	.500	.194	.062 - .090	**.500**	**.338**	**.005 - .070**	.502	.161	.012 - .025
.495	.158	.030 - .060	**.497**	**.253**	**.005 - .010**	.499	.215	.010 - .020	**.500**	**.195**	**.005 - .010**	.500	.348	.015 - .030	.502	.183	.080 - .104
.495	.162	.048 - .075	.497	.254	.015 - .060	**.499**	**.229**	**.005 - .010**	.500	.196	.010 - .125	.500	.350	.040 - .060	.502	.185	.032 - .062
.495	**.170**	**.005 - .010**	.497	.259	.010 - .040	.499	.239	.030 - .040	**.500**	**.197**	**.005 - .125**	.500	.352	.006 - .012	.502	.188	.062 - .090
.495	.184	.070 - .090	.497	.280	.015 - .030	.499	.240	.048 - .070	.500	.197	.126 - .135	**.500**	**.356**	**.005 - .010**	.502	.189	.030 - .050
.495	.190	.010 - .020	**.497**	**.287**	**.005 - .015**	**.499**	**.243**	**.005 - .010**	.500	.199	.035 - .050	.500	.360	.015 - .040	.502	.190	.062 - .100
.495	.191	.020 - .030	**.497**	**.315**	**.005 - .012**	**.499**	**.246**	**.005 - .010**	.500	.200	.040 - .075	.500	.361	.050 - .060	.502	.194	.060 - .080
.495	**.195**	**.005 - .010**	.497	.316	.035 - .050	.499	.254	.035 - .060	.500	.201	.010 - .020	.500	.368	.020 - .040	.502	.196	.040 - .060
.495	.200	.030 - .050	.497	.318	.015 - .030	.499	.258	.015 - .030	.500	.202	.060 - .125	**.500**	**.370**	**.005 - .010**	.502	.245	.025 - .036
.495	.203	.050 - .070	.497	.319	.015 - .030	.499	.259	.030 - .050	.500	.203	.012 - .020	.500	.373	.008 - .015	.502	.257	.040 - .050
.495	.210	.025 - .040	**.497**	**.324**	**.005 - .010**	.499	.264	.010 - .020	.500	.204	.015 - .075	.500	.375	.040 - .075	.502	.262	.040 - .060
.495	.215	.010 - .020	**.497**	**.337**	**.005 - .010**	.499	.265	.025 - .040	**.500**	**.205**	**.005 - .050**	.500	.376	.015 - .030	.502	.263	.030 - .050
.495	.223	.050 - .070	.497	.344	.062 - .075	.499	.281	.080 - .100	.500	.209	.050 - .070	**.500**	**.377**	**.005 - .060**	.502	.303	.075 - .100
.495	.225	.075 - .090	**.497**	**.347**	**.005 - .030**	**.499**	**.313**	**.005 - .010**	.500	.210	.010 - .025	**.500**	**.378**	**.005 - .060**	**.502**	**.315**	**.005 - .040**
.495	.236	.010 - .020	**.497**	**.406**	**.005 - .010**	.499	.318	.050 - .070	.500	.217	.040 - .060	.500	.383	.030 - .050	.502	.329	.020 - .030
.495	.252	.040 - .060	.497	.410	.020 - .030	.499	.323	.010 - .060	**.500**	**.218**	**.005 - .090**	.500	.385	.040 - .050	.502	.378	.025 - .040
.495	.282	.042 - .072	**.497**	**.437**	**.005 - .010**	**.499**	**.329**	**.005 - .010**	.500	.220	.062 - .080	.500	.388	.020 - .036	**.502**	**.386**	**.005 - .010**
.495	.285	.015 - .040	**.497**	**.442**	**.005 - .030**	**.499**	**.373**	**.005 - .010**	.500	.221	.020 - .125	**.500**	**.390**	**.005 - .060**	**.503**	**.131**	**.005 - .120**
.495	.286	.015 - .040	.498	.063	.050 - .062	.499	.377	.050 - .060	.500	.222	.010 - .020	**.500**	**.396**	**.005 - .030**	.503	.142	.030 - .060
.495	.298	.025 - .045	.498	.078	.040 - .060	**.499**	**.381**	**.005 - .060**	.500	.226	.025 - .040	**.500**	**.402**	**.005 - .015**	.503	.153	.040 - .050
.495	.310	.010 - .030	.498	.082	.042 - .062	**.499**	**.394**	**.005 - .010**	.500	.230	.032 - .048	**.500**	**.412**	**.005 - .010**	.503	.157	.050 - .062
.495	**.312**	**.005 - .010**	.498	.096	.030 - .050	.499	.409	.025 - .042	**.500**	**.231**	**.005 - .010**	.500	.415	.012 - .016	**.503**	**.159**	**.005 - .010**
.495	.322	.020 - .040	.498	.122	.020 - .040	**.500**			.500	.233	.100 - .125	.500	.441	.010 - .020	.503	.205	.030 - .040
.495	.325	.020 - .030	.498	.126	.010 - .015				.500	.234	.100 - .120	**.500**	**.446**	**.005 - .010**	.503	.280	.075 - .100
.495	.327	.080 - .100	**.498**	**.130**	**.005 - .010**				**.500**	**.235**	**.005 - .010**	**.500**	**.450**	**.005 - .010**	.503	.281	.010 - .020
.495	.329	.015 - .030	.498	.134	.010 - .020				.500	.237	.008 - .125	.500	.452	.010 - .020	**.503**	**.315**	**.005 - .010**
.495	.337	.060 - .080	.498	.148	.060 - .080				.500	.238	.105 - .125	.501	.061	.010 - .020	**.503**	**.316**	**.005 - .010**
.495	.347	.035 - .050	.498	.173	.020 - .040	**.500**	**.035**	**.005 - .008**	.500	.245	.020 - .030	.501	.099	.050 - .075	.503	.318	.050 - .070
.495	.361	.050 - .065	.498	.175	.100 - .125	**.500**	**.050**	**.005 - .010**	.500	.250	.010 - .134	.501	.130	.030 - .050	**.503**	**.363**	**.005 - .010**
.495	.363	.040 - .060	**.498**	**.184**	**.005 - .010**	**.500**	**.064**	**.005 - .010**	.500	.251	.015 - .030	.501	.131	.025 - .040	**.503**	**.383**	**.005 - .010**
.495	.381	.010 - .020	.498	.187	.015 - .030	**.500**	**.070**	**.005 - .010**	**.500**	**.253**	**.005 - .050**	**.501**	**.136**	**.005 - .020**	**.503**	**.387**	**.005 - .010**
.495	.401	.010 - .025	.498	.197	.040 - .062	**.500**	**.071**	**.005 - .010**	**.500**	**.254**	**.005 - .083**	.501	.139	.075 - .105	**.503**	**.411**	**.005 - .010**
.495	**.440**	**.005 - .008**	.498	.215	.010 - .032	.500	.072	.040 - .062	**.500**	**.255**	**.005 - .030**	.501	.143	.070 - .090	.504	.125	.090 - .104
.496	.041	.030 - .042	.498	.216	.025 - .042	**.500**	**.077**	**.005 - .010**	**.500**	**.257**	**.005 - .104**	**.501**	**.158**	**.005 - .010**	.504	.258	.030 - .050
.496	**.085**	**.005 - .010**	.498	.220	.050 - .072	.500	.082	.008 - .025	.500	.258	.100 - .120	.501	.168	.045 - .060	**.504**	**.269**	**.005 - .010**
.496	.128	.020 - .040	.498	.230	.020 - .042	**.500**	**.086**	**.005 - .010**	.500	.259	.100 - .125	**.501**	**.170**	**.005 - .010**	.504	.283	.010 - .020
.496	.130	.010 - .020	.498	.232	.020 - .036	.500	.088	.040 - .060	**.500**	**.260**	**.005 - .020**	.501	.182	.010 - .104	.504	.321	.030 - .050
.496	**.156**	**.005 - .012**	.498	.239	.025 - .042	.500	.089	.015 - .025	.500	.261	.050 - .075	.501	.191	.090 - .100	.504	.343	.070 - .090
.496	.162	.035 - .050	.498	.247	.015 - .030	**.500**	**.093**	**.005 - .010**	**.500**	**.263**	**.005 - .120**	.501	.192	.020 - .040	**.504**	**.361**	**.005 - .010**
.496	.170	.020 - .030	**.498**	**.248**	**.005 - .010**	**.500**	**.096**	**.005 - .010**	**.500**	**.264**	**.005 - .010**	.501	.195	.048 - .062	**.504**	**.362**	**.005 - .010**
.496	.186	.070 - .090	**.498**	**.251**	**.005 - .010**	.500	.098	.010 - .020	**.500**	**.265**	**.005 - .104**	**.501**	**.196**	**.005 - .010**	.504	.379	.020 - .030
.496	.194	.030 - .050	**.498**	**.252**	**.005 - .010**	.500	.102	.008 - .015	**.500**	**.266**	**.005 - .025**	**.501**	**.199**	**.005 - .010**	**.504**	**.382**	**.005 - .010**
.496	**.203**	**.005 - .012**	.498	.257	.010 - .020	**.500**	**.105**	**.005 - .010**	**.500**	**.268**	**.005 - .020**	**.501**	**.202**	**.005 - .010**	.504	.390	.030 - .050
.496	**.205**	**.005 - .060**	.498	.259	.090 - .120	.500	.112	.030 - .050	.500	.269	.020 - .036	.501	.205	.030 - .100	.505	.090	.015 - .030
.496	**.218**	**.005 - .010**	.498	.262	.032 - .104	.500	.113	.020 - .040	**.500**	**.270**	**.005 - .090**	.501	.207	.025 - .040	.505	.101	.050 - .070
.496	**.248**	**.005 - .010**	.498	.265	.050 - .075	**.500**	**.114**	**.005 - .030**	**.500**	**.275**	**.005 - .010**	.501	.208	.060 - .072	.505	.129	.050 - .070
.496	**.249**	**.005 - .010**	.498	.269	.050 - .070	.500	.116	.020 - .040	.500	.276	.060 - .080	.501	.210	.100 - .125	.505	.149	.010 - .075
.496	.252	.020 - .040	.498	.300	.020 - .030	**.500**	**.121**	**.005 - .012**	.500	.280	.042 - .078	**.501**	**.223**	**.005 - .010**	.505	.167	.025 - .040
.496	.253	.020 - .070	.498	.302	.025 - .040	.500	.125	.007 - .062	**.500**	**.281**	**.005 - .040**	.501	.228	.060 - .080	**.505**	**.194**	**.005 - .010**
.496	**.255**	**.005 - .010**	**.498**	**.315**	**.005 - .010**	.500	.129	.025 - .075	.500	.283	.030 - .104	**.501**	**.230**	**.005 - .010**	.505	.250	.020 - .030
.496	.260	.015 - .030	.498	.321	.010 - .020	.500	.131	.010 - .060	.500	.286	.030 - .050	.501	.241	.080 - .100	.505	.254	.010 - .020
.496	.262	.015 - .030	.498	.323	.020 - .040	.500	.132	.040 - .060	.500	.288	.010 - .020	**.501**	**.253**	**.005 - .125**	.505	.295	.080 - .090
.496	.263	.015 - .030	.498	.328	.060 - .075	**.500**	**.133**	**.005 - .010**	.500	.289	.015 - .030	.501	.254	.048 - .072	.505	.300	.010 - .020
.496	.265	.060 - .080	.498	.337	.015 - .030	.500	.136	.012 - .020	.500	.291	.025 - .040	.501	.255	.080 - .105	**.505**	**.301**	**.005 - .030**
.496	.304	.060 - .080	.498	.339	.020 - .035	.500	.140	.010 - .020	**.500**	**.292**	**.005 - .010**	.501	.256	.020 - .090	.505	.324	.050 - .070
.496	.318	.040 - .080	.498	.341	.050 - .070	.500	.141	.008 - .016	.500	.295	.025 - .040	**.501**	**.263**	**.005 - .010**	.505	.335	.025 - .040
.496	**.319**	**.005 - .010**	.498	.344	.015 - .025	.500	.142	.030 - .125	.500	.296	.010 - .025	.501	.272	.090 - .105	.505	.341	.025 - .075
.496	.332	.030 - .050	**.498**	**.377**	**.005 - .010**	**.500**	**.144**	**.005 - .030**	**.500**	**.298**	**.005 - .025**	.501	.281	.050 - .104	.505	.355	.025 - .040
.496	.343	.030 - .042	.498	.380	.010 - .015	.500	.145	.007 - .020	.500	.299	.030 - .050	.501	.283	.010 - .100	.505	.386	.020 - .030
.496	.346	.050 - .070	**.498**	**.392**	**.005 - .042**	.500	.146	.035 - .050	**.500**	**.300**	**.005 - .010**	**.501**	**.300**	**.005 - .010**	.505	.390	.030 - .050
.496	.349	.050 - .075	.498	.399	.015 - .025	.500	.147	.035 - .050	.500	.302	.060 - .070	**.501**	**.313**	**.005 - .070**	**.505**	**.396**	**.005 - .010**
.496	.353	.050 - .070	**.498**	**.408**	**.005 - .010**	.500	.150	.008 - .050	**.500**	**.304**	**.005 - .010**	**.501**	**.318**	**.005 - .090**	.505	.399	.020 - .040
.496	.377	.050 - .070	**.498**	**.426**	**.005 - .010**	**.500**	**.153**	**.005 - .010**	.500	.305	.020 - .030	.501	.322	.020 - .040	.505	.401	.030 - .050
.496	**.380**	**.005 - .040**	.499	.065	.015 - .025	.500	.155	.100 - .125	.500	.309	.015 - .025	.501	.340	.070 - .090	**.505**	**.457**	**.005 - .010**
.496	.381	.015 - .075	.499	.072	.050 - .075	**.500**	**.160**	**.005 - .010**	.500	.312	.015 - .030	.501	.345	.025 - .040	**.506**	**.053**	**.005 - .010**
.496	.390	.030 - .040	.499	.090	.040 - .060	.500	.163	.050 - .072	.500	.313	.008 - .015	.501	.370	.050 - .070	.506	.220	.040 - .060
.496	**.400**	**.005 - .010**	.499	.094	.042 - .062	**.500**	**.167**	**.005 - .010**	**.500**	**.314**	**.005 - .010**	.501	.375	.016 - .030	.506	.221	.040 - .060

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

Call BOKER'S for precision stamping, assembly, and secondary operations.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
.506	**.257**	**.005 - .010**	.513	.287	.050 - .070	**.520**	**.455**	**.005 - .010**	**.530**	**.180**	**.005 - .010**	.534	.441	.030 - .042	.541	.378	.040 - .060
.506	.258	.040 - .060	.513	.313	.080 - .090	.521	.145	.075 - .090	**.530**	**.191**	**.005 - .010**	.535	.064	.012 - .020	**.541**	**.402**	**.005 - .030**
.506	**.266**	**.005 - .010**	**.513**	**.360**	**.005 - .010**	.521	.239	.040 - .050	.530	.206	.100 - .125	.535	.228	.075 - .104	.541	.407	.040 - .060
.506	**.275**	**.005 - .010**	.513	.373	.015 - .030	.521	.325	.010 - .020	.530	.222	.020 - .035	.535	.238	.010 - .020	**.541**	**.415**	**.005 - .010**
.507	**.107**	**.005 - .010**	**.513**	**.383**	**.005 - .010**	.521	.340	.072 - .090	**.530**	**.253**	**.005 - .010**	**.535**	**.239**	**.005 - .010**	.542	.172	.010 - .020
.507	.125	.030 - .040	.513	.396	.040 - .060	.521	.380	.025 - .040	.530	.254	.015 - .030	.535	.244	.015 - .030	.542	.178	.030 - .050
.507	**.145**	**.005 - .010**	**.513**	**.440**	**.005 - .010**	**.521**	**.440**	**.005 - .010**	.530	.255	.015 - .030	.535	.298	.010 - .020	.542	.303	.060 - .080
.507	.221	.010 - .020	.514	.194	.070 - .090	.522	.251	.042 - .072	.530	.270	.100 - .125	.535	.310	.025 - .042	**.542**	**.395**	**.005 - .010**
.507	.232	.060 - .078	**.514**	**.203**	**.005 - .010**	**.522**	**.265**	**.005 - .010**	.530	.272	.100 - .125	**.535**	**.314**	**.005 - .010**	.542	.437	.010 - .020
.507	.253	.050 - .075	.514	.210	.040 - .060	**.522**	**.279**	**.005 - .010**	.530	.273	.100 - .125	**.535**	**.318**	**.005 - .010**	.543	.198	.040 - .060
.507	.265	.060 - .070	**.514**	**.392**	**.005 - .010**	.522	.290	.040 - .050	**.530**	**.277**	**.005 - .010**	.535	.320	.016 - .025	.543	.316	.020 - .040
.507	**.319**	**.005 - .010**	.514	.431	.030 - .040	.522	.353	.015 - .025	.530	.281	.040 - .050	.535	.325	.010 - .020	**.543**	**.333**	**.005 - .010**
.507	**.360**	**.005 - .010**	.514	.454	.020 - .030	.522	.413	.030 - .050	**.530**	**.312**	**.005 - .010**	**.535**	**.335**	**.005 - .010**	.543	.346	.030 - .050
.507	**.368**	**.005 - .030**	**.515**	**.149**	**.005 - .010**	.522	.435	.015 - .030	.530	.314	.015 - .070	.535	.338	.025 - .040	.543	.377	.015 - .025
.507	.375	.010 - .020	.515	.163	.030 - .050	**.522**	**.437**	**.005 - .010**	.530	.316	.025 - .040	.535	.343	.008 - .015	**.543**	**.433**	**.005 - .010**
.507	.446	.020 - .030	.515	.191	.050 - .070	.523	.118	.025 - .040	.530	.320	.025 - .040	**.535**	**.357**	**.005 - .010**	**.543**	**.441**	**.005 - .010**
.508	.201	.020 - .030	.515	.206	.080 - .104	.523	.252	.070 - .090	.530	.344	.060 - .083	.535	.378	.012 - .025	**.544**	**.189**	**.005 - .010**
.508	.223	.050 - .070	**.515**	**.218**	**.005 - .010**	.523	.396	.015 - .030	**.530**	**.375**	**.005 - .010**	.535	.379	.010 - .020	.544	.226	.010 - .020
.508	.269	.010 - .020	.515	.227	.030 - .050	**.523**	**.402**	**.005 - .010**	**.530**	**.377**	**.005 - .010**	.535	.384	.010 - .020	.544	.311	.030 - .040
.508	.280	.020 - .040	**.515**	**.228**	**.005 - .010**	.523	.406	.032 - .050	.530	.385	.050 - .060	**.535**	**.445**	**.005 - .010**	**.544**	**.324**	**.005 - .010**
.508	.285	.015 - .025	.515	.253	.105 - .125	.523	.411	.040 - .060	.530	.388	.010 - .020	.536	.105	.030 - .050	.544	.325	.020 - .040
.508	**.312**	**.005 - .010**	.515	.308	.008 - .015	.523	.428	.015 - .030	**.530**	**.393**	**.005 - .010**	.536	.191	.075 - .090	**.544**	**.385**	**.005 - .010**
.508	**.315**	**.005 - .010**	.515	.310	.008 - .015	.524	.286	.030 - .048	.530	.397	.025 - .035	**.536**	**.242**	**.005 - .010**	**.544**	**.421**	**.005 - .010**
.508	.329	.050 - .075	.515	.315	.008 - .015	.524	.323	.020 - .060	**.530**	**.403**	**.005 - .010**	.536	.259	.100 - .125	.544	.449	.015 - .030
.508	**.336**	**.005 - .010**	.515	.316	.008 - .015	.524	.387	.015 - .025	**.530**	**.417**	**.005 - .010**	.536	.264	.030 - .050	**.544**	**.463**	**.005 - .010**
.508	.355	.040 - .060	**.515**	**.318**	**.005 - .010**	**.524**	**.396**	**.005 - .010**	.530	.450	.015 - .030	.536	.324	.025 - .040	.544	.502	.010 - .020
.508	**.366**	**.005 - .010**	.515	.322	.015 - .025	.524	.409	.010 - .020	**.530**	**.468**	**.005 - .030**	.536	.346	.010 - .015	.545	.100	.042 - .060
.508	**.405**	**.005 - .010**	**.515**	**.377**	**.005 - .010**	**.524**	**.441**	**.005 - .010**	**.530**	**.490**	**.005 - .010**	.537	.104	.016 - .025	**.545**	**.187**	**.005 - .012**
.508	.430	.030 - .040	.515	.378	.020 - .030	.524	.463	.025 - .040	.531	.143	.015 - .050	.537	.243	.105 - .125	**.545**	**.244**	**.005 - .060**
.509	.031	.030 - .050	**.515**	**.385**	**.005 - .010**	.525	.068	.015 - .032	.531	.158	.032 - .048	.537	.283	.105 - .125	.545	.260	.050 - .070
.509	.064	.030 - .050	.515	.388	.020 - .040	.525	.156	.090 - .105	.531	.180	.050 - .075	.537	.370	.040 - .060	**.545**	**.313**	**.005 - .010**
.509	.080	.030 - .050	.515	.390	.010 - .040	.525	.187	.015 - .030	.531	.191	.012 - .020	**.537**	**.375**	**.005 - .010**	.545	.319	.015 - .050
.509	.219	.025 - .042	.515	.391	.050 - .060	**.525**	**.252**	**.005 - .010**	.531	.200	.015 - .030	.537	.394	.010 - .020	.545	.346	.042 - .062
.509	.285	.010 - .020	**.515**	**.394**	**.005 - .008**	.525	.258	.060 - .080	.531	.202	.015 - .030	.537	.409	.025 - .040	.545	.378	.040 - .060
.509	.286	.010 - .020	**.515**	**.397**	**.005 - .010**	**.525**	**.308**	**.005 - .010**	**.531**	**.206**	**.005 - .030**	.538	.210	.030 - .060	.545	.382	.040 - .062
.509	.298	.050 - .070	.515	.420	.020 - .032	.525	.346	.060 - .080	**.531**	**.213**	**.005 - .010**	**.538**	**.219**	**.005 - .010**	**.545**	**.385**	**.005 - .010**
.509	.430	.020 - .035	.516	.156	.030 - .050	.525	.358	.070 - .080	.531	.230	.105 - .125	.538	.257	.015 - .030	.545	.409	.010 - .020
.510	.053	.015 - .025	.516	.195	.008 - .015	**.525**	**.375**	**.005 - .010**	.531	.254	.060 - .083	.538	.309	.010 - .020	.545	.410	.020 - .030
.510	.156	.025 - .042	**.516**	**.239**	**.005 - .010**	.525	.378	.030 - .050	.531	.257	.010 - .060	.538	.340	.030 - .050	**.545**	**.442**	**.005 - .010**
.510	.210	.075 - .090	**.516**	**.246**	**.005 - .020**	.525	.390	.060 - .080	.531	.264	.030 - .050	.538	.342	.040 - .060	**.545**	**.445**	**.005 - .010**
.510	**.269**	**.005 - .010**	**.516**	**.315**	**.005 - .010**	.525	.401	.020 - .040	.531	.271	.025 - .035	.538	.385	.050 - .075	**.546**	**.217**	**.005 - .010**
.510	.280	.040 - .075	**.516**	**.320**	**.005 - .010**	**.525**	**.428**	**.005 - .015**	.531	.295	.015 - .030	**.538**	**.440**	**.005 - .010**	**.546**	**.259**	**.005 - .010**
.510	.300	.010 - .020	.516	.387	.020 - .040	.526	.195	.030 - .050	.531	.317	.010 - .060	**.538**	**.457**	**.005 - .010**	.546	.271	.010 - .020
.510	.341	.042 - .062	**.516**	**.388**	**.005 - .010**	.526	.256	.030 - .050	.531	.330	.040 - .060	.539	.195	.025 - .050	**.546**	**.305**	**.005 - .010**
.510	.398	.040 - .050	.516	.438	.020 - .032	.526	.270	.010 - .020	.531	.335	.090 - .105	.539	.252	.060 - .080	.546	.375	.030 - .050
.510	.414	.007 - .020	**.516**	**.445**	**.005 - .010**	.526	.437	.015 - .030	.531	.335	.100 - .120	.539	.278	.015 - .030	.546	.378	.015 - .030
.511	**.150**	**.005 - .010**	.517	.331	.030 - .050	.527	.129	.015 - .025	.531	.346	.042 - .062	**.539**	**.318**	**.005 - .010**	.546	.410	.020 - .030
.511	.165	.040 - .060	.517	.340	.015 - .030	**.527**	**.145**	**.005 - .010**	.531	.348	.050 - .072	**.539**	**.366**	**.005 - .010**	.546	.435	.020 - .040
.511	**.237**	**.005 - .010**	.517	.341	.040 - .060	.527	.346	.040 - .060	.531	.350	.040 - .062	.539	.367	.025 - .040	**.547**	**.144**	**.005 - .010**
.511	**.250**	**.005 - .072**	**.517**	**.346**	**.005 - .070**	.527	.348	.032 - .050	.531	.386	.010 - .020	.539	.380	.025 - .042	.547	.160	.010 - .015
.511	**.256**	**.005 - .010**	**.517**	**.402**	**.005 - .010**	**.527**	**.369**	**.005 - .010**	.531	.406	.050 - .060	**.539**	**.399**	**.005 - .030**	**.547**	**.214**	**.005 - .010**
.511	.259	.010 - .020	**.517**	**.417**	**.005 - .010**	.527	.393	.030 - .050	.531	.463	.015 - .030	**.539**	**.420**	**.005 - .010**	**.547**	**.256**	**.005 - .010**
.511	.285	.020 - .040	**.517**	**.438**	**.005 - .010**	.527	.437	.010 - .020	.532	.073	.010 - .020	**.539**	**.425**	**.005 - .010**	**.547**	**.258**	**.005 - .010**
.511	**.316**	**.005 - .010**	.517	.441	.020 - .030	.527	.443	.020 - .040	.532	.166	.100 - .125	.539	.469	.007 - .015	.547	.293	.060 - .070
.511	.320	.015 - .030	.518	.175	.008 - .016	.528	.128	.010 - .020	**.532**	**.201**	**.005 - .010**	.540	.162	.032 - .062	**.547**	**.312**	**.005 - .010**
.511	.327	.020 - .040	.518	.214	.015 - .030	**.528**	**.152**	**.005 - .012**	.532	.207	.062 - .090	.540	.186	.060 - .070	.547	.317	.050 - .070
.511	.383	.015 - .030	**.518**	**.253**	**.005 - .010**	.528	.209	.010 - .020	**.532**	**.250**	**.005 - .015**	.540	.220	.020 - .040	.547	.320	.030 - .050
.512	.198	.050 - .070	**.518**	**.338**	**.005 - .010**	.528	.236	.040 - .060	.532	.329	.040 - .075	.540	.229	.030 - .050	**.547**	**.365**	**.005 - .010**
.512	**.203**	**.005 - .010**	.518	.375	.050 - .070	**.528**	**.254**	**.005 - .010**	.532	.381	.030 - .050	.540	.262	.010 - .020	**.547**	**.406**	**.005 - .010**
.512	.209	.010 - .020	**.518**	**.438**	**.005 - .010**	.528	.265	.030 - .060	**.532**	**.451**	**.005 - .010**	.540	.280	.030 - .060	.548	.095	.040 - .060
.512	**.238**	**.005 - .010**	.518	.440	.020 - .030	.528	.268	.040 - .060	.532	.468	.020 - .040	.540	.282	.042 - .062	.548	.170	.050 - .070
.512	.275	.040 - .060	.518	.447	.010 - .020	**.528**	**.308**	**.005 - .010**	.532	.490	.012 - .020	.540	.284	.015 - .030	.548	.211	.015 - .030
.512	**.278**	**.005 - .010**	.519	.081	.015 - .025	.528	.360	.025 - .040	.533	.067	.010 - .020	.540	.321	.010 - .020	**.548**	**.303**	**.005 - .016**
.512	.312	.010 - .020	**.519**	**.103**	**.005 - .010**	.528	.410	.040 - .060	.533	.201	.010 - .020	.540	.333	.015 - .025	.548	.325	.060 - .080
.512	**.317**	**.005 - .020**	.519	.170	.050 - .070	.528	.439	.010 - .020	**.533**	**.236**	**.005 - .010**	.540	.347	.078 - .104	.548	.329	.025 - .040
.512	**.320**	**.005 - .010**	.519	.290	.030 - .040	**.528**	**.453**	**.005 - .010**	.533	.240	.050 - .070	.540	.348	.015 - .030	**.548**	**.397**	**.005 - .010**
.512	**.321**	**.005 - .010**	**.519**	**.377**	**.005 - .010**	**.529**	**.132**	**.005 - .010**	.533	.266	.090 - .105	.540	.388	.050 - .070	.548	.401	.050 - .070
.512	**.322**	**.005 - .080**	**.519**	**.397**	**.005 - .010**	.529	.175	.015 - .030	**.533**	**.274**	**.005 - .010**	.540	.391	.030 - .050	.548	.452	.030 - .050
.512	.363	.030 - .040	.520	.120	.010 - .020	.529	.234	.070 - .090	.533	.367	.070 - .090	.540	.392	.010 - .020	.548	.453	.025 - .040
.512	**.394**	**.005 - .010**	.520	.194	.050 - .060	.529	.280	.015 - .030	.533	.389	.020 - .030	**.540**	**.395**	**.005 - .010**	**.549**	**.099**	**.005 - .010**
.512	.395	.015 - .025	.520	.208	.015 - .020	.529	.313	.030 - .048	.533	.411	.010 - .025	.540	.399	.025 - .040	**.549**	**.216**	**.005 - .010**
.512	**.433**	**.005 - .010**	**.520**	**.224**	**.005 - .010**	.529	.331	.020 - .040	.534	.039	.015 - .030	.540	.408	.015 - .025	**.549**	**.316**	**.005 - .010**
.513	.119	.040 - .060	.520	.311	.020 - .035	.529	.375	.050 - .075	.534	.131	.030 - .050	**.540**	**.409**	**.005 - .010**	**.549**	**.326**	**.005 - .010**
.513	**.137**	**.005 - .010**	**.520**	**.324**	**.005 - .010**	**.529**	**.385**	**.005 - .010**	.534	.186	.070 - .090	.540	.413	.040 - .050	.549	.334	.025 - .040
.513	.153	.040 - .060	**.520**	**.333**	**.005 - .010**	.529	.439	.015 - .030	.534	.193	.015 - .030	.540	.420	.015 - .030	.549	.452	.030 - .060
.513	.174	.030 - .050	.520	.346	.020 - .030	.530	.066	.035 - .060	.534	.207	.030 - .050	.541	.152	.060 - .090	.549	.455	.010 - .020
.513	.197	.015 - .030	**.520**	**.380**	**.005 - .010**	.530	.090	.010 - .020	**.534**	**.220**	**.005 - .010**	.541	.300	.010 - .020	**.549**	**.476**	**.005 - .010**
.513	.237	.070 - .090	**.520**	**.392**	**.005 - .010**	.530	.099	.015 - .030	.534	.284	.060 - .083	.541	.314	.050 - .060	.550	.032	.010 - .020
.513	.240	.030 - .050	.520	.430	.010 - .020	.530	.130	.040 - .060	.534	.361	.062 - .080	.541	.319	.030 - .050	.550	.105	.042 - .060
.513	**.268**	**.005 - .012**	**.520**	**.440**	**.005 - .010**	.530	.153	.080 - .104	.534	.394	.030 - .050	.541	.375	.030 - .050	**.550**	**.120**	**.005 - .060**

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

New tools added continually. Call for sizes not listed — (800) 927-4377, Fax (800) 321-3462.

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
.550	.140	.020 - .040	.552	.237	.010 - .020	.559	.216	.020 - .040	.561	.175	.015 - .030	.562	.382	.040 - .060	.566	.151	.040 - .060
.550	**.158**	**.005 - .010**	**.552**	**.238**	**.005 - .010**	**.559**	**.225**	**.005 - .010**	.561	.189	.015 - .025	.562	.383	.030 - .050	**.566**	**.201**	**.005 - .010**
.550	.159	.090 - .100	.552	.240	.010 - .020	.559	.259	.010 - .040	**.561**	**.190**	**.005 - .060**	.562	.385	.015 - .070	**.566**	**.266**	**.005 - .010**
.550	.190	.020 - .030	.552	.276	.030 - .040	**.559**	**.285**	**.005 - .010**	.561	.192	.020 - .040	.562	.386	.020 - .040	**.566**	**.270**	**.005 - .010**
.550	**.193**	**.005 - .060**	.552	.286	.010 - .020	**.559**	**.311**	**.005 - .010**	.561	.200	.080 - .105	.562	.387	.040 - .060	.566	.299	.050 - .075
.550	.208	.048 - .062	.552	.305	.025 - .060	.559	.322	.080 - .104	.561	.202	.030 - .060	**.562**	**.388**	**.005 - .015**	**.566**	**.321**	**.005 - .010**
.550	.240	.010 - .020	**.552**	**.319**	**.005 - .010**	.559	.347	.025 - .042	.561	.208	.030 - .050	.562	.391	.075 - .090	**.566**	**.322**	**.005 - .010**
.550	.245	.020 - .040	**.552**	**.321**	**.005 - .010**	.559	.349	.075 - .090	.561	.255	.020 - .040	**.562**	**.392**	**.005 - .010**	.566	.328	.010 - .015
.550	.250	.040 - .100	.552	.387	.040 - .060	.559	.379	.030 - .050	**.561**	**.290**	**.005 - .010**	.562	.396	.025 - .040	.566	.330	.040 - .060
.550	.255	.020 - .032	**.552**	**.395**	**.005 - .015**	.559	.388	.060 - .080	.561	.298	.060 - .083	.562	.420	.020 - .070	**.566**	**.334**	**.005 - .060**
.550	.258	.025 - .040	.552	.396	.050 - .075	.559	.391	.030 - .050	.561	.310	.040 - .060	.562	.437	.015 - .075	.566	.342	.093 - .104
.550	**.259**	**.005 - .030**	**.552**	**.397**	**.005 - .010**	.559	.454	.020 - .040	.561	.314	.036 - .060	.562	.439	.010 - .025	.566	.378	.060 - .090
.550	**.271**	**.005 - .010**	**.552**	**.398**	**.005 - .010**	**.559**	**.471**	**.005 - .030**	.561	.320	.090 - .110	**.562**	**.500**	**.005 - .010**	.566	.446	.040 - .060
.550	.282	.035 - .125	.552	.400	.025 - .040	**.559**	**.480**	**.005 - .010**	.561	.331	.100 - .120	.562	.505	.020 - .030	.566	.447	.040 - .060
.550	.300	.042 - .062	.552	.401	.010 - .015	**.559**	**.507**	**.005 - .010**	.561	.360	.015 - .025	.563	.101	.025 - .040	.566	.448	.010 - .020
.550	.304	.030 - .060	.552	.425	.040 - .050	.560	.113	.015 - .030	**.561**	**.367**	**.005 - .010**	**.563**	**.145**	**.005 - .010**	.566	.450	.015 - .030
.550	**.315**	**.005 - .048**	.552	.434	.015 - .030	.560	.118	.016 - .030	.561	.377	.020 - .030	.563	.176	.025 - .040	.566	.505	.015 - .025
.550	**.316**	**.005 - .030**	**.552**	**.438**	**.005 - .010**	.560	.120	.075 - .104	.561	.381	.075 - .093	.563	.186	.100 - .125	**.566**	**.507**	**.005 - .010**
.550	.317	.015 - .030	**.552**	**.478**	**.005 - .010**	.560	.128	.015 - .030	.561	.397	.020 - .032	.563	.191	.020 - .030	.567	.190	.010 - .020
.550	**.319**	**.005 - .010**	.553	.176	.010 - .020	.560	.131	.060 - .083	**.561**	**.407**	**.005 - .010**	.563	.194	.100 - .125	.567	.227	.007 - .012
.550	.322	.030 - .050	.553	.212	.060 - .080	.560	.135	.050 - .070	**.561**	**.421**	**.005 - .010**	.563	.197	.030 - .050	.567	.234	.010 - .020
.550	.323	.008 - .020	**.553**	**.229**	**.005 - .010**	**.560**	**.149**	**.005 - .020**	.561	.435	.010 - .020	**.563**	**.218**	**.005 - .125**	.567	.260	.040 - .060
.550	**.332**	**.005 - .010**	**.553**	**.237**	**.005 - .010**	.560	.161	.040 - .062	.561	.440	.035 - .060	.563	.247	.020 - .030	.567	.263	.030 - .050
.550	.344	.060 - .083	.553	.242	.040 - .060	**.560**	**.172**	**.005 - .010**	.561	.459	.010 - .020	**.563**	**.253**	**.005 - .015**	.567	.301	.040 - .060
.550	.357	.040 - .062	**.553**	**.320**	**.005 - .010**	**.560**	**.180**	**.005 - .015**	**.562**	**.090**	**.005 - .010**	.563	.259	.030 - .050	.567	.336	.090 - .104
.550	**.375**	**.005 - .020**	.553	.396	.015 - .030	.560	.190	.030 - .050	**.562**	**.130**	**.005 - .010**	.563	.277	.020 - .040	.567	.379	.015 - .025
.550	.381	.040 - .060	.554	.154	.015 - .030	.560	.192	.008 - .016	.562	.134	.030 - .050	.563	.285	.100 - .125	.567	.408	.040 - .060
.550	.390	.070 - .090	**.554**	**.240**	**.005 - .010**	.560	.194	.032 - .048	.562	.146	.032 - .050	**.563**	**.313**	**.005 - .042**	.567	.409	.030 - .050
.550	**.398**	**.005 - .010**	.554	.258	.025 - .035	.560	.196	.015 - .025	.562	.148	.040 - .060	.563	.317	.010 - .040	.567	.417	.050 - .060
.550	.400	.050 - .070	.554	.318	.090 - .110	**.560**	**.200**	**.005 - .010**	.562	.152	.035 - .050	**.563**	**.318**	**.005 - .010**	.567	.504	.020 - .030
.550	.404	.020 - .040	**.554**	**.330**	**.005 - .010**	.560	.202	.032 - .050	.562	.158	.036 - .075	.563	.320	.015 - .030	.568	.109	.040 - .060
.550	.408	.040 - .060	**.554**	**.370**	**.005 - .020**	.560	.203	.012 - .020	.562	.165	.008 - .015	.563	.321	.072 - .090	**.568**	**.138**	**.005 - .010**
.550	.409	.060 - .075	.554	.379	.010 - .020	**.560**	**.206**	**.005 - .010**	.562	.166	.050 - .070	.563	.350	.015 - .025	.568	.210	.042 - .072
.550	**.415**	**.005 - .010**	.554	.405	.030 - .048	.560	.207	.030 - .050	**.562**	**.169**	**.005 - .010**	.563	.359	.025 - .040	**.568**	**.224**	**.005 - .010**
.550	.427	.025 - .042	.554	.468	.010 - .025	.560	.225	.006 - .010	.562	.191	.040 - .060	.563	.373	.015 - .030	.568	.255	.050 - .070
.550	.429	.035 - .050	.555	.125	.030 - .050	.560	.226	.015 - .025	.562	.193	.040 - .060	.563	.376	.072 - .090	**.568**	**.305**	**.005 - .010**
.550	**.479**	**.005 - .010**	.555	.131	.060 - .080	.560	.228	.060 - .083	.562	.194	.060 - .080	.563	.377	.010 - .020	.568	.312	.050 - .062
.550	**.498**	**.005 - .010**	.555	.154	.020 - .040	.560	.246	.040 - .060	.562	.195	.050 - .070	.563	.379	.015 - .060	**.568**	**.317**	**.005 - .010**
.551	**.081**	**.005 - .010**	.555	.173	.105 - .135	.560	.254	.100 - .120	.562	.202	.030 - .050	.563	.380	.015 - .090	**.568**	**.360**	**.005 - .010**
.551	.095	.012 - .020	.555	.250	.010 - .020	.560	.258	.060 - .080	.562	.204	.075 - .090	.563	.381	.010 - .020	.568	.378	.010 - .030
.551	**.141**	**.005 - .010**	.555	.253	.080 - .104	.560	.259	.048 - .060	.562	.205	.020 - .040	.563	.385	.020 - .030	.568	.413	.015 - .025
.551	**.161**	**.005 - .010**	.555	.265	.020 - .040	**.560**	**.262**	**.005 - .010**	**.562**	**.207**	**.005 - .010**	.563	.387	.020 - .050	.568	.414	.020 - .040
.551	.166	.030 - .105	**.555**	**.318**	**.005 - .010**	.560	.263	.010 - .050	.562	.218	.048 - .072	.563	.398	.030 - .050	.568	.440	.030 - .040
.551	.172	.080 - .100	.555	.320	.060 - .080	.560	.273	.010 - .020	.562	.222	.010 - .070	.563	.405	.030 - .080	.569	.205	.050 - .070
.551	**.201**	**.005 - .010**	.555	.328	.050 - .078	.560	.280	.040 - .060	**.562**	**.233**	**.005 - .015**	.563	.408	.020 - .030	.569	.207	.025 - .040
.551	.220	.015 - .025	.555	.356	.050 - .060	**.560**	**.286**	**.005 - .010**	.562	.240	.050 - .070	**.563**	**.439**	**.005 - .015**	.569	.243	.010 - .015
.551	.225	.070 - .090	.555	.360	.050 - .070	**.560**	**.295**	**.005 - .010**	.562	.241	.015 - .030	**.563**	**.450**	**.005 - .010**	**.569**	**.257**	**.005 - .010**
.551	**.236**	**.005 - .010**	**.555**	**.438**	**.005 - .010**	**.560**	**.311**	**.005 - .010**	.562	.251	.110 - .130	.563	.467	.025 - .042	.569	.324	.015 - .075
.551	**.238**	**.005 - .020**	**.555**	**.440**	**.005 - .010**	.560	.313	.062 - .120	**.562**	**.253**	**.005 - .010**	**.564**	**.118**	**.005 - .010**	.569	.447	.020 - .040
.551	**.240**	**.005 - .050**	**.555**	**.445**	**.005 - .010**	**.560**	**.316**	**.005 - .010**	.562	.257	.062 - .090	.564	.195	.090 - .105	.569	.470	.015 - .025
.551	**.253**	**.005 - .010**	.555	.475	.030 - .045	.560	.317	.040 - .060	.562	.261	.030 - .050	.564	.208	.040 - .050	.569	.472	.012 - .020
.551	.264	.070 - .090	.556	.120	.030 - .050	.560	.320	.020 - .040	**.562**	**.263**	**.005 - .030**	.564	.214	.030 - .050	**.569**	**.474**	**.005 - .010**
.551	**.278**	**.005 - .010**	.556	.123	.030 - .060	**.560**	**.326**	**.005 - .010**	.562	.264	.015 - .030	.564	.252	.075 - .090	.569	.481	.030 - .050
.551	.284	.030 - .050	.556	.136	.030 - .050	**.560**	**.331**	**.005 - .015**	.562	.265	.050 - .090	.564	.253	.040 - .060	.570	.170	.080 - .090
.551	.294	.012 - .025	.556	.172	.040 - .060	**.560**	**.336**	**.005 - .010**	.562	.266	.100 - .125	.564	.256	.020 - .040	.570	.193	.015 - .030
.551	**.315**	**.005 - .010**	.556	.197	.030 - .050	.560	.343	.040 - .060	.562	.269	.030 - .050	**.564**	**.284**	**.005 - .020**	.570	.206	.105 - .125
.551	**.316**	**.005 - .050**	**.556**	**.200**	**.005 - .010**	.560	.345	.090 - .110	.562	.275	.050 - .075	.564	.286	.015 - .030	.570	.232	.025 - .042
.551	**.317**	**.005 - .010**	**.556**	**.263**	**.005 - .010**	**.560**	**.370**	**.005 - .010**	.562	.281	.032 - .050	.564	.311	.025 - .040	.570	.233	.050 - .075
.551	.318	.050 - .070	.556	.281	.075 - .104	.560	.375	.050 - .070	.562	.282	.080 - .100	.564	.337	.010 - .020	.570	.236	.025 - .042
.551	**.320**	**.005 - .010**	.556	.317	.040 - .060	**.560**	**.377**	**.005 - .015**	.562	.289	.050 - .070	**.564**	**.352**	**.005 - .010**	**.570**	**.277**	**.005 - .010**
.551	**.321**	**.005 - .010**	.556	.383	.040 - .060	.560	.379	.020 - .040	.562	.290	.025 - .040	**.564**	**.384**	**.005 - .010**	.570	.278	.030 - .050
.551	**.322**	**.005 - .010**	.557	.242	.010 - .020	**.560**	**.380**	**.005 - .010**	.562	.297	.010 - .020	.564	.386	.030 - .048	.570	.282	.025 - .042
.551	.357	.015 - .030	.557	.317	.020 - .060	.560	.381	.015 - .060	.562	.304	.020 - .030	.564	.392	.050 - .072	.570	.316	.010 - .020
.551	.377	.010 - .020	.557	.380	.040 - .060	**.560**	**.384**	**.005 - .010**	**.562**	**.309**	**.005 - .010**	**.564**	**.445**	**.005 - .010**	.570	.318	.015 - .030
.551	.378	.010 - .100	.557	.387	.025 - .040	.560	.390	.030 - .060	.562	.313	.010 - .020	.564	.500	.020 - .040	.570	.325	.020 - .040
.551	**.385**	**.005 - .010**	.557	.396	.050 - .070	.560	.392	.035 - .060	.562	.314	.080 - .104	**.564**	**.504**	**.005 - .010**	**.570**	**.369**	**.005 - .010**
.551	.387	.010 - .020	.557	.421	.010 - .020	**.560**	**.401**	**.005 - .010**	.562	.315	.020 - .070	**.564**	**.507**	**.005 - .010**	**.570**	**.377**	**.005 - .010**
.551	**.394**	**.005 - .040**	.557	.446	.020 - .040	**.560**	**.410**	**.005 - .010**	**.562**	**.318**	**.005 - .075**	**.565**	**.066**	**.005 - .010**	.570	.380	.010 - .020
.551	.395	.050 - .070	**.558**	**.288**	**.005 - .010**	**.560**	**.420**	**.005 - .010**	**.562**	**.320**	**.005 - .060**	.565	.093	.080 - .090	.570	.433	.010 - .020
.551	.399	.010 - .040	.558	.327	.050 - .070	.560	.421	.030 - .050	**.562**	**.326**	**.005 - .030**	.565	.120	.015 - .030	.570	.445	.025 - .040
.551	.418	.036 - .060	.558	.331	.020 - .050	.560	.426	.020 - .040	.562	.328	.050 - .070	.565	.174	.025 - .040	.570	.461	.030 - .050
.551	.443	.010 - .025	**.558**	**.360**	**.005 - .012**	**.560**	**.459**	**.005 - .015**	.562	.329	.025 - .040	.565	.186	.010 - .015	**.570**	**.515**	**.005 - .010**
.551	**.461**	**.005 - .010**	.558	.361	.036 - .060	.560	.485	.020 - .032	.562	.331	.080 - .100	.565	.236	.083 - .105	.571	.206	.105 - .125
.551	**.472**	**.005 - .030**	.558	.414	.030 - .050	.560	.500	.020 - .032	.562	.332	.020 - .040	.565	.240	.050 - .080	.571	.256	.030 - .050
.552	.093	.025 - .040	**.558**	**.486**	**.005 - .030**	.561	.105	.015 - .030	**.562**	**.343**	**.005 - .050**	.565	.280	.105 - .125	.571	.283	.070 - .090
.552	**.094**	**.005 - .008**	.559	.032	.020 - .030	.561	.127	.020 - .040	.562	.344	.060 - .080	.565	.310	.030 - .040	.571	.319	.050 - .070
.552	.129	.031 - .048	.559	.060	.015 - .025	**.561**	**.161**	**.005 - .010**	**.562**	**.374**	**.005 - .010**	**.565**	**.315**	**.005 - .015**	.571	.373	.020 - .035
.552	.160	.020 - .040	**.559**	**.128**	**.005 - .010**	.561	.166	.060 - .083	.562	.375	.050 - .070	.565	.316	.060 - .080	**.572**	**.256**	**.005 - .008**
.552	.212	.060 - .080	.559	.145	.015 - .030	**.561**	**.173**	**.005 - .010**	**.562**	**.376**	**.005 - .062**	.565	.353	.050 - .072	.572	.470	.030 - .040
.552	**.220**	**.005 - .010**	.559	.209	.060 - .080	.561	.174	.075 - .090	.562	.381	.040 - .060	.565	.453	.025 - .035	.573	.129	.050 - .070

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

For non-metallic materials, contact BOKER'S — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
.573	.130	.050 - .070	**.580**	**.283**	**.005 - .010**	**.590**	**.066**	**.005 - .010**	.593	.190	.032 - .060	.599	.201	.075 - .090	**.601**	**.438**	**.005 - .010**
.573	.205	.050 - .070	.580	.324	.025 - .035	.590	.115	.032 - .062	.593	.195	.015 - .030	.599	.254	.080 - .090	**.601**	**.461**	**.005 - .010**
.573	.266	.025 - .040	.580	.330	.080 - .104	**.590**	**.145**	**.005 - .010**	.593	.196	.015 - .040	.599	.257	.050 - .070	**.601**	**.480**	**.005 - .010**
.573	.394	.040 - .060	.580	.346	.042 - .062	**.590**	**.147**	**.005 - .020**	**.593**	**.261**	**.005 - .010**	.599	.378	.030 - .050	.602	.101	.080 - .100
.573	.395	.025 - .045	.580	.377	.090 - .105	.590	.199	.060 - .080	.593	.265	.025 - .042	.599	.383	.030 - .050	.602	.180	.050 - .080
.573	.402	.050 - .060	**.580**	**.379**	**.005 - .010**	**.590**	**.201**	**.005 - .010**	.593	.301	.050 - .070	.599	.400	.035 - .050	**.602**	**.254**	**.005 - .010**
.573	.474	.030 - .050	.580	.380	.010 - .020	.590	.202	.030 - .050	**.593**	**.318**	**.005 - .010**	**.599**	**.401**	**.005 - .010**	.602	.255	.040 - .060
.573	.525	.015 - .025	**.580**	**.398**	**.005 - .010**	.590	.209	.125 - .156	.593	.392	.075 - .095	**.599**	**.408**	**.005 - .060**	.602	.407	.025 - .040
.574	.199	.025 - .042	.580	.416	.042 - .062	**.590**	**.237**	**.005 - .010**	.593	.399	.010 - .020	.599	.413	.025 - .040	.602	.486	.040 - .060
.574	.296	.015 - .030	**.580**	**.417**	**.005 - .010**	**.590**	**.238**	**.005 - .010**	.593	.407	.100 - .120	.599	.476	.050 - .070	.603	.227	.030 - .050
.574	.297	.090 - .105	.580	.432	.010 - .032	.590	.290	.040 - .060	**.593**	**.410**	**.005 - .010**	**.599**	**.489**	**.005 - .010**	.603	.479	.040 - .060
.574	**.298**	**.005 - .010**	.580	.444	.025 - .040	.590	.292	.010 - .020	**.593**	**.437**	**.005 - .010**	.600	.041	.015 - .025	.603	.498	.010 - .020
.574	.300	.032 - .062	.580	.450	.025 - .040	**.590**	**.295**	**.005 - .010**	**.593**	**.453**	**.005 - .010**	**.600**	**.046**	**.005 - .010**	.603	.504	.010 - .020
.574	**.397**	**.005 - .010**	.581	.197	.090 - .125	.590	.314	.060 - .080	.593	.464	.015 - .030	.600	.066	.020 - .035	**.604**	**.252**	**.005 - .010**
.574	.406	.020 - .030	.581	.223	.050 - .070	**.590**	**.316**	**.005 - .010**	.593	.468	.020 - .040	.600	.076	.020 - .030	**.604**	**.255**	**.005 - .010**
.574	.482	.070 - .090	.581	.437	.030 - .050	.590	.317	.040 - .090	**.593**	**.472**	**.005 - .010**	**.600**	**.077**	**.005 - .010**	**.604**	**.307**	**.005 - .010**
.575	.151	.040 - .062	.582	.063	.020 - .040	.590	.318	.030 - .050	**.593**	**.478**	**.005 - .015**	.600	.089	.020 - .040	.604	.308	.010 - .030
.575	.180	.010 - .020	.582	.286	.020 - .040	**.590**	**.324**	**.005 - .010**	**.593**	**.497**	**.005 - .010**	.600	.118	.015 - .030	.604	.340	.040 - .060
.575	.186	.070 - .090	.582	.400	.015 - .030	.590	.327	.050 - .075	.593	.518	.020 - .030	.600	.119	.080 - .100	.604	.347	.031 - .042
.575	.189	.080 - .100	**.583**	**.259**	**.005 - .010**	.590	.329	.042 - .062	**.594**	**.283**	**.005 - .010**	.600	.128	.032 - .048	.604	.381	.025 - .040
.575	.199	.060 - .080	.583	.344	.070 - .090	.590	.331	.010 - .020	.594	.312	.010 - .020	.600	.138	.040 - .105	.604	.384	.015 - .030
.575	.200	.025 - .042	.583	.378	.015 - .030	**.590**	**.334**	**.005 - .010**	**.594**	**.315**	**.005 - .010**	.600	.156	.025 - .040	**.604**	**.407**	**.005 - .030**
.575	.251	.010 - .020	.583	.410	.030 - .050	.590	.339	.035 - .060	**.594**	**.325**	**.005 - .010**	.600	.157	.025 - .040	.604	.439	.030 - .050
.575	**.258**	**.005 - .030**	**.584**	**.301**	**.005 - .010**	.590	.340	.010 - .050	.594	.358	.015 - .025	.600	.168	.070 - .090	.604	.502	.010 - .020
.575	.260	.075 - .090	**.584**	**.327**	**.005 - .010**	.590	.344	.032 - .050	.594	.375	.070 - .090	**.600**	**.176**	**.005 - .010**	.604	.508	.015 - .030
.575	**.287**	**.005 - .010**	**.584**	**.350**	**.005 - .010**	.590	.345	.040 - .060	**.594**	**.378**	**.005 - .104**	**.600**	**.200**	**.005 - .010**	.605	.163	.015 - .030
.575	.312	.100 - .125	**.584**	**.358**	**.005 - .010**	**.590**	**.355**	**.005 - .010**	.594	.383	.015 - .030	.600	.203	.020 - .040	.605	.190	.020 - .040
.575	.320	.020 - .040	**.584**	**.431**	**.005 - .010**	.590	.376	.020 - .032	**.594**	**.405**	**.005 - .010**	.600	.210	.075 - .090	.605	.313	.015 - .030
.575	.322	.010 - .020	.584	.446	.030 - .050	**.590**	**.378**	**.005 - .010**	.594	.423	.025 - .040	**.600**	**.215**	**.005 - .010**	.605	.317	.075 - .090
.575	.335	.016 - .025	.585	.104	.025 - .040	.590	.379	.025 - .040	.594	.452	.040 - .060	.600	.217	.050 - .075	.605	.359	.025 - .040
.575	**.346**	**.005 - .030**	.585	.183	.015 - .030	**.590**	**.386**	**.005 - .010**	.594	.506	.015 - .025	**.600**	**.236**	**.005 - .010**	.605	.388	.070 - .090
.575	.360	.025 - .042	.585	.257	.020 - .040	.590	.390	.032 - .062	.595	.144	.008 - .016	.600	.237	.040 - .060	**.605**	**.416**	**.005 - .010**
.575	.394	.060 - .080	.585	.264	.025 - .040	**.590**	**.396**	**.005 - .012**	.595	.186	.070 - .090	**.600**	**.241**	**.005 - .030**	**.605**	**.453**	**.005 - .060**
.575	.399	.060 - .090	.585	.290	.090 - .105	**.590**	**.397**	**.005 - .050**	.595	.193	.075 - .090	**.600**	**.252**	**.005 - .010**	**.605**	**.566**	**.005 - .010**
.575	.412	.010 - .020	.585	.327	.050 - .070	**.590**	**.401**	**.005 - .010**	.595	.195	.010 - .020	**.600**	**.253**	**.005 - .060**	.606	.198	.040 - .050
.575	.440	.040 - .060	.585	.328	.070 - .090	.590	.410	.040 - .060	.595	.251	.010 - .020	.600	.254	.015 - .030	**.606**	**.203**	**.005 - .010**
.575	.446	.010 - .030	.585	.364	.060 - .080	.590	.426	.070 - .080	.595	.253	.020 - .030	**.600**	**.255**	**.005 - .010**	.606	.285	.060 - .083
.575	.464	.020 - .040	.585	.366	.040 - .050	**.590**	**.430**	**.005 - .060**	.595	.256	.015 - .030	.600	.265	.010 - .020	.606	.312	.075 - .100
.575	**.485**	**.005 - .040**	.585	.372	.025 - .040	**.590**	**.439**	**.005 - .010**	.595	.320	.010 - .020	**.600**	**.266**	**.005 - .010**	.606	.380	.040 - .060
.576	.147	.090 - .104	**.585**	**.377**	**.005 - .010**	.590	.471	.015 - .025	.595	.353	.025 - .040	**.600**	**.267**	**.005 - .010**	.606	.389	.050 - .075
.576	.218	.030 - .040	**.585**	**.380**	**.005 - .010**	**.590**	**.480**	**.005 - .020**	.595	.413	.050 - .070	.600	.269	.025 - .040	.606	.400	.020 - .030
.576	.500	.020 - .030	.585	.390	.020 - .040	.590	.498	.025 - .040	.595	.430	.040 - .060	**.600**	**.270**	**.005 - .010**	.606	.462	.020 - .040
.577	.096	.012 - .025	**.585**	**.397**	**.005 - .010**	**.590**	**.523**	**.005 - .008**	**.595**	**.436**	**.005 - .010**	**.600**	**.282**	**.005 - .010**	.606	.480	.040 - .060
.577	.199	.060 - .090	.585	.405	.050 - .070	.591	.079	.020 - .030	.595	.437	.040 - .060	**.600**	**.285**	**.005 - .010**	.607	.247	.020 - .040
.577	.253	.050 - .070	.586	.132	.010 - .020	.591	.115	.020 - .040	.595	.495	.030 - .050	.600	.296	.015 - .105	.607	.251	.030 - .050
.577	.290	.050 - .070	.586	.327	.015 - .030	.591	.161	.050 - .070	.596	.099	.030 - .050	**.600**	**.300**	**.005 - .010**	**.607**	**.333**	**.005 - .010**
.577	.325	.042 - .062	**.586**	**.415**	**.005 - .010**	.591	.200	.040 - .060	.596	.129	.025 - .040	.600	.322	.030 - .080	.607	.388	.080 - .105
.577	.328	.090 - .120	.586	.433	.040 - .060	.591	.216	.050 - .070	.596	.401	.020 - .040	.600	.330	.080 - .090	**.607**	**.461**	**.005 - .010**
.577	.353	.025 - .040	**.586**	**.447**	**.005 - .010**	.591	.217	.015 - .025	.596	.409	.010 - .020	.600	.361	.015 - .030	**.607**	**.531**	**.005 - .010**
.577	.376	.010 - .025	**.586**	**.477**	**.005 - .010**	.591	.240	.075 - .090	.596	.443	.050 - .075	.600	.370	.040 - .060	.608	.204	.010 - .020
.578	.173	.025 - .042	**.586**	**.484**	**.005 - .010**	**.591**	**.277**	**.005 - .010**	**.596**	**.485**	**.005 - .040**	.600	.380	.015 - .090	.608	.249	.030 - .050
.578	**.203**	**.005 - .060**	.586	.500	.030 - .040	.591	.289	.080 - .105	.596	.503	.020 - .040	.600	.386	.010 - .020	.608	.252	.015 - .040
.578	.239	.080 - .090	**.586**	**.525**	**.005 - .010**	.591	.296	.050 - .070	.596	.510	.025 - .040	.600	.401	.010 - .020	.608	.253	.020 - .040
.578	.257	.050 - .075	.586	.544	.010 - .020	.591	.316	.010 - .020	**.597**	**.130**	**.005 - .015**	.600	.406	.020 - .030	.608	.254	.020 - .040
.578	.266	.020 - .060	.587	.195	.032 - .050	.591	.317	.010 - .020	.597	.251	.062 - .078	.600	.408	.040 - .060	.608	.283	.020 - .040
.578	**.355**	**.005 - .010**	.587	.231	.015 - .025	.591	.321	.015 - .030	.597	.305	.025 - .040	.600	.413	.010 - .020	.608	.293	.040 - .060
.578	.407	.050 - .070	.587	.345	.030 - .050	.591	.324	.040 - .060	**.597**	**.388**	**.005 - .015**	**.600**	**.421**	**.005 - .010**	.608	.350	.020 - .032
.578	.468	.010 - .020	**.587**	**.373**	**.005 - .010**	**.591**	**.326**	**.005 - .010**	.597	.406	.025 - .040	**.600**	**.434**	**.005 - .010**	.608	.392	.030 - .050
.578	.526	.010 - .020	.587	.400	.050 - .070	.591	.435	.050 - .070	.597	.452	.016 - .040	.600	.440	.010 - .020	**.608**	**.397**	**.005 - .020**
.579	.138	.031 - .042	.587	.411	.040 - .060	.591	.440	.040 - .050	.597	.512	.020 - .030	.600	.450	.040 - .060	.608	.509	.010 - .025
.579	.174	.020 - .040	.587	.437	.010 - .020	.591	.511	.010 - .020	.597	.513	.020 - .030	.600	.460	.030 - .050	.609	.128	.030 - .050
.579	.188	.020 - .040	**.587**	**.461**	**.005 - .010**	**.592**	**.147**	**.005 - .010**	**.598**	**.180**	**.005 - .010**	**.600**	**.498**	**.005 - .010**	**.609**	**.274**	**.005 - .010**
.579	.265	.050 - .075	.588	.245	.015 - .030	**.592**	**.221**	**.005 - .010**	.598	.215	.032 - .062	**.600**	**.503**	**.005 - .010**	.609	.297	.020 - .032
.579	.318	.060 - .070	**.588**	**.250**	**.005 - .010**	**.592**	**.236**	**.005 - .010**	.598	.264	.010 - .020	.600	.505	.020 - .030	.609	.400	.040 - .060
.579	.342	.090 - .104	.588	.260	.040 - .060	.592	.258	.030 - .050	.598	.271	.025 - .040	**.600**	**.517**	**.005 - .010**	.609	.487	.030 - .060
.579	.374	.020 - .030	.588	.282	.030 - .040	.592	.315	.010 - .015	.598	.304	.025 - .040	**.600**	**.550**	**.005 - .010**	.609	.506	.020 - .030
.579	.378	.020 - .030	.588	.386	.010 - .020	**.592**	**.317**	**.005 - .010**	**.598**	**.313**	**.005 - .020**	.601	.159	.080 - .100	.609	.546	.015 - .025
.579	**.407**	**.005 - .010**	.588	.406	.040 - .060	**.592**	**.322**	**.005 - .010**	.598	.321	.010 - .020	**.601**	**.165**	**.005 - .010**	.609	.551	.015 - .025
.579	.437	.025 - .040	.588	.417	.040 - .060	.592	.330	.040 - .062	**.598**	**.340**	**.005 - .010**	**.601**	**.227**	**.005 - .030**	.610	.094	.060 - .080
.579	**.502**	**.005 - .010**	.589	.178	.060 - .080	**.592**	**.332**	**.005 - .010**	.598	.387	.025 - .040	**.601**	**.228**	**.005 - .010**	.610	.100	.040 - .060
.580	.096	.025 - .040	.589	.232	.070 - .090	**.592**	**.389**	**.005 - .010**	.598	.412	.031 - .048	.601	.257	.030 - .050	.610	.191	.040 - .060
.580	**.196**	**.005 - .010**	.589	.311	.030 - .050	.592	.394	.040 - .060	.598	.442	.025 - .040	.601	.313	.020 - .040	.610	.204	.010 - .030
.580	.197	.090 - .120	**.589**	**.314**	**.005 - .015**	.592	.396	.040 - .060	.598	.494	.040 - .060	.601	.315	.040 - .060	.610	.206	.104 - .125
.580	.213	.050 - .075	.589	.341	.040 - .062	.592	.397	.020 - .040	**.598**	**.504**	**.005 - .010**	.601	.357	.060 - .080	.610	.209	.104 - .125
.580	.218	.093 - .125	.589	.348	.040 - .060	.592	.453	.020 - .042	.598	.506	.040 - .050	**.601**	**.376**	**.005 - .020**	.610	.248	.020 - .032
.580	.250	.030 - .040	.589	.376	.015 - .030	.592	.472	.040 - .060	**.598**	**.511**	**.005 - .015**	.601	.377	.010 - .020	.610	.250	.020 - .040
.580	.251	.050 - .070	.589	.410	.062 - .078	**.592**	**.497**	**.005 - .010**	**.598**	**.527**	**.005 - .010**	**.601**	**.378**	**.005 - .010**	.610	.258	.040 - .090
.580	.255	.050 - .070	.589	.444	.040 - .060	.593	.082	.032 - .062	.599	.128	.060 - .080	.601	.391	.025 - .040	**.610**	**.273**	**.005 - .010**
.580	.257	.050 - .070	.589	.446	.020 - .030	**.593**	**.096**	**.005 - .010**	.599	.149	.025 - .042	.601	.401	.040 - .060	.610	.317	.010 - .020
.580	.258	.080 - .104	.589	.455	.030 - .050	**.593**	**.129**	**.005 - .012**	.599	.189	.010 - .020	.601	.428	.010 - .020	.610	.328	.050 - .075

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
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O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
.610	.335	.015 - .030	.615	.322	.020 - .040	.619	.329	.070 - .090	.621	.363	.050 - .070	.623	.179	.050 - .090	.624	.515	.020 - .030
.610	.352	.020 - .040	.615	.341	.050 - .070	.619	.353	.050 - .070	.621	.368	.030 - .050	.623	.190	.010 - .125	**.624**	**.533**	**.005 - .010**
.610	.365	.010 - .020	**.615**	**.352**	**.005 - .012**	**.619**	**.360**	**.005 - .010**	.621	.376	.010 - .020	.623	.191	.030 - .060	**.624**	**.564**	**.005 - .010**
.610	.367	.020 - .030	**.615**	**.359**	**.005 - .010**	.619	.377	.020 - .035	.621	.378	.010 - .020	.623	.202	.050 - .090	**.625**	**.063**	**.005 - .010**
.610	.375	.050 - .060	.615	.377	.070 - .090	.619	.381	.105 - .135	.621	.379	.025 - .040	.623	.220	.050 - .090	.625	.067	.008 - .016
.610	.376	.060 - .125	.615	.386	.060 - .080	**.619**	**.431**	**.005 - .010**	.621	.380	.090 - .105	.623	.240	.050 - .090	**.625**	**.087**	**.005 - .010**
.610	.380	.010 - .020	.615	.395	.020 - .040	**.619**	**.440**	**.005 - .040**	**.621**	**.381**	**.005 - .010**	.623	.247	.020 - .035	**.625**	**.096**	**.005 - .010**
.610	.395	.015 - .030	.615	.408	.090 - .105	.619	.449	.030 - .040	**.621**	**.410**	**.005 - .010**	**.623**	**.250**	**.005 - .010**	.625	.102	.020 - .040
.610	**.409**	**.005 - .010**	.615	.420	.010 - .020	.619	.460	.080 - .100	.621	.437	.025 - .036	.623	.254	.080 - .100	**.625**	**.115**	**.005 - .010**
.610	.438	.050 - .070	**.615**	**.441**	**.005 - .010**	**.619**	**.481**	**.005 - .010**	.621	.438	.032 - .042	**.623**	**.265**	**.005 - .075**	.625	.127	.010 - .020
.610	.460	.040 - .060	.615	.448	.030 - .040	**.619**	**.500**	**.005 - .020**	**.621**	**.442**	**.005 - .048**	.623	.268	.010 - .015	.625	.128	.030 - .062
.610	.472	.050 - .075	.615	.460	.020 - .040	**.619**	**.508**	**.005 - .010**	.621	.471	.008 - .016	.623	.281	.012 - .075	.625	.129	.020 - .040
.610	.476	.040 - .060	.615	.478	.030 - .040	**.619**	**.540**	**.005 - .010**	.621	.500	.015 - .025	.623	.304	.075 - .105	.625	.130	.012 - .020
.610	**.550**	**.005 - .010**	.615	.492	.020 - .040	.619	.549	.015 - .020	.621	.504	.020 - .030	.623	.317	.050 - .075	.625	.136	.080 - .104
.611	.089	.040 - .060	.615	.510	.025 - .040	.620	.041	.040 - .060	**.621**	**.505**	**.005 - .030**	**.623**	**.320**	**.005 - .030**	.625	.139	.025 - .105
.611	.192	.020 - .030	.615	.520	.025 - .035	.620	.076	.010 - .020	.621	.506	.040 - .060	.623	.326	.040 - .060	.625	.145	.020 - .032
.611	.243	.062 - .090	.615	.536	.010 - .020	.620	.126	.015 - .030	.621	.507	.015 - .030	.623	.328	.010 - .025	**.625**	**.151**	**.005 - .010**
.611	.250	.062 - .090	.615	.537	.020 - .040	**.620**	**.132**	**.005 - .010**	.621	.533	.015 - .030	.623	.330	.050 - .090	.625	.157	.100 - .125
.611	.259	.040 - .060	.615	.540	.010 - .025	.620	.168	.050 - .072	**.622**	**.061**	**.005 - .010**	.623	.375	.010 - .020	**.625**	**.158**	**.005 - .010**
.611	**.261**	**.005 - .010**	.615	.551	.030 - .040	.620	.184	.050 - .075	.622	.147	.060 - .080	.623	.390	.050 - .070	.625	.160	.075 - .104
.611	.265	.105 - .125	.616	.044	.015 - .025	.620	.191	.025 - .040	.622	.159	.048 - .075	**.623**	**.404**	**.005 - .010**	.625	.166	.025 - .042
.611	**.273**	**.005 - .010**	.616	.160	.015 - .030	.620	.198	.050 - .070	**.622**	**.166**	**.005 - .010**	.623	.405	.030 - .050	.625	.171	.015 - .125
.611	**.278**	**.005 - .010**	.616	.167	.020 - .032	**.620**	**.200**	**.005 - .010**	.622	.174	.008 - .016	.623	.460	.050 - .075	.625	.187	.025 - .050
.611	.315	.050 - .010	.616	.192	.070 - .090	.620	.201	.030 - .050	.622	.175	.007 - .015	.623	.465	.012 - .020	**.625**	**.188**	**.005 - .010**
.611	**.347**	**.005 - .010**	**.616**	**.251**	**.005 - .010**	.620	.214	.050 - .070	.622	.180	.016 - .025	.623	.474	.008 - .016	**.625**	**.189**	**.005 - .060**
.611	.350	.030 - .050	.616	.256	.020 - .032	.620	.250	.010 - .035	.622	.190	.020 - .040	**.623**	**.492**	**.005 - .010**	.625	.190	.060 - .090
.611	**.352**	**.005 - .010**	**.616**	**.259**	**.005 - .010**	.620	.252	.020 - .040	**.622**	**.191**	**.005 - .010**	**.623**	**.500**	**.005 - .012**	.625	.191	.025 - .042
.611	.379	.025 - .040	.616	.268	.015 - .030	.620	.254	.010 - .020	.622	.196	.030 - .048	.623	.501	.010 - .020	.625	.192	.050 - .070
.611	.405	.060 - .083	.616	.323	.010 - .020	.620	.255	.015 - .020	.622	.205	.030 - .050	.623	.504	.050 - .062	.625	.193	.100 - .125
.611	.460	.025 - .040	.616	.328	.025 - .040	.620	.257	.040 - .060	.622	.206	.030 - .060	**.623**	**.505**	**.005 - .010**	.625	.195	.090 - .125
.611	.480	.050 - .070	.616	.377	.050 - .090	**.620**	**.260**	**.005 - .010**	.622	.214	.015 - .030	**.623**	**.515**	**.005 - .010**	.625	.196	.020 - .040
.611	.515	.020 - .040	**.616**	**.384**	**.005 - .010**	**.620**	**.268**	**.005 - .010**	.622	.220	.010 - .020	.623	.531	.010 - .020	.625	.200	.030 - .040
.612	.194	.100 - .125	.616	.386	.062 - .083	**.620**	**.279**	**.005 - .010**	.622	.230	.060 - .090	**.623**	**.532**	**.005 - .010**	**.625**	**.201**	**.005 - .010**
.612	.198	.008 - .020	.616	.412	.020 - .040	.620	.281	.040 - .060	**.622**	**.250**	**.005 - .015**	.624	.087	.010 - .020	.625	.202	.050 - .075
.612	.214	.030 - .050	.616	.456	.040 - .050	.620	.320	.105 - .125	**.622**	**.251**	**.005 - .010**	.624	.094	.070 - .090	.625	.205	.050 - .090
.612	.433	.040 - .060	.616	.478	.030 - .040	.620	.322	.040 - .060	.622	.258	.025 - .040	**.624**	**.108**	**.005 - .010**	**.625**	**.207**	**.005 - .015**
.612	.440	.042 - .062	.616	.480	.040 - .060	.620	.334	.050 - .070	.622	.261	.036 - .050	**.624**	**.109**	**.005 - .010**	**.625**	**.208**	**.005 - .010**
.612	.444	.010 - .030	**.616**	**.505**	**.005 - .010**	.620	.346	.016 - .025	.622	.284	.010 - .042	.624	.128	.025 - .040	.625	.210	.100 - .125
.612	**.467**	**.005 - .010**	.616	.524	.030 - .040	.620	.348	.050 - .070	.622	.300	.020 - .040	.624	.156	.050 - .070	.625	.211	.040 - .060
.612	.510	.040 - .050	**.617**	**.310**	**.005 - .010**	.620	.350	.025 - .062	.622	.302	.050 - .070	.624	.168	.060 - .080	**.625**	**.220**	**.005 - .010**
.612	**.520**	**.005 - .010**	.617	.318	.015 - .025	.620	.370	.015 - .025	.622	.314	.075 - .125	.624	.173	.020 - .050	.625	.222	.050 - .070
.613	.040	.020 - .030	**.617**	**.351**	**.005 - .010**	.620	.378	.020 - .035	.622	.315	.100 - .125	.624	.177	.010 - .020	**.625**	**.223**	**.005 - .010**
.613	.278	.050 - .070	.617	.359	.025 - .040	.620	.380	.080 - .100	.622	.317	.040 - .060	.624	.178	.015 - .030	.625	.225	.015 - .020
.613	.331	.050 - .070	**.617**	**.362**	**.005 - .010**	.620	.381	.015 - .025	.622	.320	.025 - .070	.624	.196	.032 - .042	.625	.226	.032 - .042
.613	.350	.050 - .070	**.617**	**.385**	**.005 - .010**	.620	.384	.100 - .125	.622	.325	.007 - .025	**.624**	**.204**	**.005 - .010**	.625	.230	.075 - .090
.613	.377	.015 - .030	.617	.448	.065 - .080	.620	.390	.100 - .125	**.622**	**.343**	**.005 - .010**	**.624**	**.220**	**.005 - .010**	.625	.236	.025 - .042
.613	.391	.025 - .040	.617	.496	.010 - .020	.620	.394	.010 - .020	**.622**	**.374**	**.005 - .010**	.624	.249	.050 - .070	**.625**	**.238**	**.005 - .072**
.613	**.402**	**.005 - .010**	**.617**	**.514**	**.005 - .010**	**.620**	**.406**	**.005 - .060**	.622	.376	.015 - .025	.624	.250	.050 - .075	.625	.239	.070 - .090
.613	.451	.030 - .050	**.617**	**.560**	**.005 - .010**	.620	.408	.030 - .050	.622	.377	.025 - .105	.624	.253	.100 - .125	.625	.240	.050 - .070
.613	**.472**	**.005 - .010**	.618	.120	.015 - .030	.620	.409	.030 - .050	.622	.378	.015 - .030	**.624**	**.254**	**.005 - .010**	**.625**	**.251**	**.005 - .042**
.613	.521	.020 - .042	.618	.124	.040 - .060	.620	.410	.080 - .105	**.622**	**.384**	**.005 - .010**	.624	.255	.040 - .075	.625	.252	.036 - .105
.614	.094	.040 - .060	.618	.185	.040 - .050	.620	.420	.020 - .060	.622	.389	.060 - .075	.624	.264	.050 - .070	**.625**	**.253**	**.005 - .042**
.614	.198	.050 - .090	**.618**	**.215**	**.005 - .010**	.620	.440	.025 - .042	**.622**	**.390**	**.005 - .010**	.624	.298	.050 - .075	.625	.255	.075 - .104
.614	.199	.060 - .078	.618	.216	.010 - .020	.620	.442	.032 - .048	.622	.391	.050 - .105	**.624**	**.312**	**.005 - .010**	.625	.259	.125 - .156
.614	.200	.060 - .083	.618	.259	.040 - .060	**.620**	**.476**	**.005 - .010**	.622	.400	.010 - .020	.624	.313	.025 - .045	**.625**	**.260**	**.005 - .010**
.614	**.268**	**.005 - .010**	**.618**	**.262**	**.005 - .010**	.620	.484	.020 - .030	.622	.407	.006 - .016	.624	.315	.100 - .125	.625	.261	.030 - .075
.614	.330	.015 - .030	**.618**	**.364**	**.005 - .078**	.620	.490	.020 - .040	**.622**	**.409**	**.005 - .015**	.624	.324	.030 - .042	**.625**	**.264**	**.005 - .015**
.614	.354	.050 - .070	.618	.381	.040 - .060	**.620**	**.500**	**.005 - .010**	.622	.411	.025 - .040	.624	.328	.050 - .070	.625	.265	.040 - .050
.614	.373	.050 - .070	.618	.382	.020 - .040	**.620**	**.502**	**.005 - .010**	**.622**	**.438**	**.005 - .010**	.624	.330	.060 - .090	.625	.266	.015 - .100
.614	.388	.015 - .030	**.618**	**.393**	**.005 - .010**	**.620**	**.503**	**.005 - .025**	.622	.445	.015 - .030	.624	.334	.030 - .050	.625	.268	.015 - .104
.614	.402	.010 - .020	.618	.400	.080 - .104	.620	.509	.010 - .025	.622	.450	.050 - .070	.624	.335	.010 - .020	.625	.271	.025 - .040
.614	.434	.030 - .050	.618	.435	.050 - .075	**.620**	**.515**	**.005 - .015**	**.622**	**.453**	**.005 - .010**	.624	.343	.105 - .125	.625	.273	.060 - .070
.614	**.479**	**.005 - .010**	**.618**	**.440**	**.005 - .010**	.620	.522	.015 - .030	**.622**	**.461**	**.005 - .010**	.624	.376	.080 - .125	.625	.279	.060 - .080
.614	.482	.008 - .020	**.618**	**.446**	**.005 - .010**	**.620**	**.530**	**.005 - .010**	.622	.488	.050 - .070	**.624**	**.378**	**.005 - .010**	.625	.280	.030 - .060
.614	**.534**	**.005 - .010**	**.618**	**.475**	**.005 - .010**	**.620**	**.532**	**.005 - .010**	.622	.500	.010 - .020	.624	.379	.080 - .100	.625	.281	.120 - .134
.614	**.540**	**.005 - .010**	**.618**	**.500**	**.005 - .010**	**.620**	**.550**	**.005 - .010**	**.622**	**.503**	**.005 - .030**	.624	.380	.105 - .125	.625	.283	.025 - .060
.615	**.030**	**.005 - .010**	**.618**	**.507**	**.005 - .010**	.621	.062	.030 - .050	.622	.532	.008 - .015	.624	.392	.030 - .050	**.625**	**.284**	**.005 - .040**
.615	.041	.015 - .030	.618	.526	.032 - .042	**.621**	**.075**	**.005 - .010**	**.622**	**.533**	**.005 - .015**	.624	.398	.020 - .040	.625	.290	.090 - .100
.615	.099	.020 - .030	**.618**	**.531**	**.005 - .010**	**.621**	**.091**	**.005 - .010**	**.622**	**.534**	**.005 - .010**	.624	.399	.030 - .050	**.625**	**.293**	**.005 - .040**
.615	.110	.020 - .030	**.618**	**.549**	**.005 - .010**	.621	.125	.050 - .070	**.622**	**.540**	**.005 - .010**	.624	.403	.030 - .050	.625	.298	.015 - .030
.615	.126	.020 - .030	.618	.551	.015 - .025	.621	.159	.030 - .042	.623	.030	.010 - .020	.624	.415	.025 - .050	.625	.299	.020 - .050
.615	.137	.025 - .080	**.618**	**.556**	**.005 - .010**	.621	.161	.090 - .120	.623	.062	.015 - .030	.624	.425	.035 - .050	**.625**	**.301**	**.005 - .010**
.615	.140	.015 - .030	.618	.560	.015 - .025	**.621**	**.172**	**.005 - .010**	.623	.094	.060 - .075	.624	.438	.030 - .050	.625	.302	.050 - .070
.615	.153	.020 - .030	.619	.125	.050 - .070	.621	.182	.105 - .125	.623	.100	.040 - .060	.624	.440	.010 - .020	.625	.311	.042 - .062
.615	.212	.020 - .030	.619	.158	.100 - .125	**.621**	**.194**	**.005 - .010**	.623	.126	.040 - .050	.624	.442	.006 - .012	**.625**	**.312**	**.005 - .125**
.615	**.240**	**.005 - .010**	.619	.171	.015 - .075	.621	.253	.062 - .080	.623	.136	.080 - .104	.624	.445	.050 - .070	**.625**	**.314**	**.005 - .030**
.615	.267	.040 - .060	.619	.238	.030 - .050	.621	.254	.010 - .020	.623	.137	.030 - .060	**.624**	**.448**	**.005 - .015**	.625	.315	.025 - .040
.615	.298	.020 - .030	.619	.306	.025 - .040	.621	.283	.015 - .025	.623	.148	.030 - .050	.624	.452	.031 - .048	.625	.316	.040 - .060
.615	.315	.010 - .020	.619	.324	.020 - .030	.621	.288	.050 - .075	.623	.156	.020 - .035	.624	.485	.040 - .060	.625	.317	.060 - .070
.615	.321	.050 - .070	.619	.326	.020 - .040	.621	.336	.050 - .070	.623	.176	.050 - .070	**.624**	**.500**	**.005 - .010**	**.625**	**.318**	**.005 - .125**

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

For a size NOT listed, send specs or phone for quote — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
.625	.319	.020 - .040	.626	.282	.020 - .040	.628	.261	.040 - .060	**.630**	**.554**	**.005 - .010**	.637	.399	.105 - .125	.645	.316	.020 - .032
.625	.320	.010 - .050	.626	.312	.035 - .050	**.628**	**.271**	**.005 - .010**	**.630**	**.558**	**.005 - .020**	.637	.425	.012 - .020	.645	.347	.025 - .040
.625	.321	.015 - .070	**.626**	**.314**	**.005 - .015**	.628	.287	.090 - .105	.631	.150	.040 - .060	**.637**	**.520**	**.005 - .010**	.645	.393	.050 - .062
.625	.322	.045 - .075	.626	.315	.040 - .060	.628	.331	.105 - .120	.631	.154	.050 - .070	.638	.156	.032 - .048	.645	.434	.032 - .048
.625	.323	.060 - .075	.626	.317	.010 - .015	.628	.375	.060 - .083	**.631**	**.238**	**.005 - .010**	.638	.263	.040 - .060	.645	.441	.060 - .080
.625	**.324**	**.005 - .010**	.626	.326	.020 - .030	**.628**	**.477**	**.005 - .010**	.631	.240	.010 - .020	.638	.410	.020 - .040	**.645**	**.470**	**.005 - .010**
.625	.327	.070 - .080	.626	.339	.100 - .125	.628	.483	.030 - .050	.631	.315	.015 - .030	.638	.506	.025 - .040	**.645**	**.510**	**.005 - .010**
.625	**.328**	**.005 - .125**	.626	.344	.025 - .040	.628	.510	.010 - .020	**.631**	**.316**	**.005 - .010**	.639	.325	.010 - .020	.645	.518	.040 - .060
.625	.329	.020 - .030	**.626**	**.377**	**.005 - .010**	.628	.511	.040 - .060	**.631**	**.318**	**.005 - .010**	.639	.394	.020 - .040	.646	.204	.060 - .070
.625	.330	.025 - .040	**.626**	**.379**	**.005 - .010**	.628	.555	.020 - .030	**.631**	**.319**	**.005 - .010**	.639	.415	.025 - .040	.646	.210	.060 - .110
.625	**.331**	**.005 - .010**	**.626**	**.381**	**.005 - .010**	.629	.095	.062 - .078	**.631**	**.320**	**.005 - .010**	.639	.438	.030 - .050	.646	.255	.020 - .030
.625	.336	.090 - .120	**.626**	**.386**	**.005 - .075**	.629	.149	.015 - .030	.631	.374	.105 - .125	.639	.439	.040 - .050	.646	.273	.020 - .035
.625	**.343**	**.005 - .125**	**.626**	**.392**	**.005 - .010**	**.629**	**.177**	**.005 - .010**	.631	.378	.060 - .080	**.639**	**.453**	**.005 - .010**	**.646**	**.316**	**.005 - .012**
.625	.343	.126 - .134	.626	.394	.015 - .030	**.629**	**.226**	**.005 - .010**	.631	.386	.060 - .080	.639	.524	.025 - .035	.646	.344	.020 - .030
.625	.348	.080 - .104	.626	.408	.090 - .105	.629	.290	.050 - .083	.631	.387	.010 - .020	**.639**	**.550**	**.005 - .010**	.646	.393	.090 - .105
.625	.349	.083 - .104	.626	.409	.020 - .030	.629	.292	.042 - .060	**.631**	**.396**	**.005 - .010**	.639	.576	.015 - .030	**.646**	**.409**	**.005 - .010**
.625	.356	.042 - .062	.626	.422	.070 - .090	**.629**	**.316**	**.005 - .010**	.631	.399	.010 - .020	.640	.036	.015 - .030	**.646**	**.447**	**.005 - .010**
.625	.372	.030 - .050	**.626**	**.442**	**.005 - .025**	**.629**	**.319**	**.005 - .010**	.631	.403	.060 - .080	.640	.073	.025 - .040	**.646**	**.539**	**.005 - .010**
.625	**.375**	**.005 - .120**	**.626**	**.468**	**.005 - .010**	.629	.356	.010 - .020	.631	.411	.020 - .030	.640	.168	.025 - .040	**.647**	**.131**	**.005 - .010**
.625	**.377**	**.005 - .010**	**.626**	**.470**	**.005 - .010**	.629	.391	.030 - .050	**.631**	**.437**	**.005 - .010**	.640	.175	.025 - .042	.647	.191	.030 - .050
.625	.378	.015 - .080	**.626**	**.478**	**.005 - .010**	.629	.472	.030 - .080	.631	.452	.060 - .080	.640	.186	.030 - .050	.647	.283	.030 - .050
.625	**.379**	**.005 - .010**	.626	.495	.040 - .060	**.629**	**.473**	**.005 - .020**	.631	.521	.040 - .060	.640	.251	.020 - .040	.647	.355	.010 - .020
.625	.380	.025 - .042	.626	.499	.010 - .020	**.629**	**.507**	**.005 - .030**	.632	.160	.030 - .040	**.640**	**.256**	**.005 - .010**	.647	.381	.105 - .125
.625	.381	.100 - .125	.626	.501	.010 - .020	.629	.512	.015 - .030	**.632**	**.239**	**.005 - .010**	**.640**	**.334**	**.005 - .010**	.647	.407	.030 - .050
.625	.382	.030 - .120	.626	.504	.010 - .020	**.629**	**.517**	**.005 - .010**	.632	.253	.015 - .030	.640	.342	.040 - .060	.647	.472	.015 - .030
.625	**.385**	**.005 - .010**	**.626**	**.505**	**.005 - .010**	**.630**	**.128**	**.005 - .010**	.632	.261	.020 - .040	.640	.361	.030 - .050	**.647**	**.492**	**.005 - .010**
.625	.386	.032 - .048	**.626**	**.507**	**.005 - .030**	.630	.138	.030 - .060	**.632**	**.285**	**.005 - .010**	.640	.377	.030 - .040	**.648**	**.093**	**.005 - .010**
.625	.390	.015 - .062	.626	.510	.010 - .025	.630	.140	.020 - .040	**.632**	**.317**	**.005 - .010**	.640	.390	.050 - .075	.648	.144	.020 - .040
.625	.392	.020 - .042	.626	.528	.025 - .040	.630	.141	.100 - .120	**.632**	**.320**	**.005 - .010**	**.640**	**.400**	**.005 - .010**	.648	.202	.008 - .015
.625	.393	.010 - .020	**.626**	**.564**	**.005 - .010**	.630	.158	.050 - .060	**.632**	**.357**	**.005 - .010**	**.640**	**.406**	**.005 - .010**	.648	.209	.015 - .030
.625	.394	.020 - .040	.626	.566	.010 - .020	.630	.163	.050 - .060	.632	.359	.025 - .040	.640	.429	.012 - .020	.648	.250	.050 - .070
.625	.396	.020 - .030	.627	.036	.025 - .035	.630	.174	.050 - .075	.632	.387	.020 - .060	.640	.441	.010 - .020	**.648**	**.266**	**.005 - .010**
.625	.397	.090 - .120	.627	.058	.020 - .032	.630	.177	.030 - .050	.632	.426	.070 - .090	.640	.443	.025 - .040	.648	.298	.050 - .075
.625	**.398**	**.005 - .010**	.627	.125	.020 - .040	.630	.188	.090 - .105	.632	.475	.040 - .060	.640	.444	.015 - .030	**.648**	**.382**	**.005 - .012**
.625	.399	.050 - .075	.627	.129	.025 - .040	.630	.204	.050 - .065	**.632**	**.480**	**.005 - .072**	.640	.446	.015 - .030	.648	.490	.010 - .020
.625	.400	.025 - .040	.627	.133	.040 - .060	.630	.209	.105 - .125	.632	.547	.010 - .020	.640	.451	.080 - .090	.648	.493	.015 - .030
.625	.401	.070 - .090	**.627**	**.166**	**.005 - .010**	.630	.214	.065 - .080	**.633**	**.119**	**.005 - .010**	.640	.460	.050 - .060	**.648**	**.521**	**.005 - .010**
.625	**.402**	**.005 - .015**	.627	.196	.050 - .070	**.630**	**.236**	**.005 - .025**	.633	.172	.015 - .035	.640	.485	.020 - .040	**.648**	**.551**	**.005 - .010**
.625	.406	.060 - .075	.627	.198	.010 - .025	**.630**	**.237**	**.005 - .020**	.633	.256	.060 - .080	.640	.489	.040 - .060	.649	.126	.020 - .050
.625	**.415**	**.005 - .012**	.627	.236	.100 - .125	**.630**	**.238**	**.005 - .010**	.633	.267	.032 - .050	.640	.501	.015 - .048	.649	.201	.090 - .100
.625	.425	.020 - .035	.627	.248	.100 - .125	**.630**	**.239**	**.005 - .010**	.633	.282	.080 - .100	.640	.508	.015 - .030	.649	.203	.025 - .040
.625	.437	.040 - .060	**.627**	**.253**	**.005 - .010**	.630	.241	.050 - .060	.633	.346	.060 - .080	**.640**	**.540**	**.005 - .010**	.649	.266	.125 - .135
.625	**.440**	**.005 - .105**	.627	.265	.050 - .070	.630	.254	.025 - .040	.633	.377	.075 - .090	.640	.576	.020 - .030	**.649**	**.281**	**.005 - .010**
.625	**.441**	**.005 - .010**	.627	.266	.030 - .050	**.630**	**.275**	**.005 - .125**	.633	.439	.030 - .050	**.640**	**.579**	**.005 - .010**	.649	.286	.070 - .090
.625	**.442**	**.005 - .010**	.627	.280	.100 - .125	**.630**	**.279**	**.005 - .010**	.633	.472	.010 - .020	**.641**	**.125**	**.005 - .010**	.649	.338	.030 - .050
.625	.445	.060 - .075	.627	.281	.100 - .120	**.630**	**.280**	**.005 - .015**	.633	.501	.030 - .050	.641	.243	.020 - .090	**.649**	**.452**	**.005 - .010**
.625	.449	.070 - .090	.627	.283	.030 - .048	.630	.282	.050 - .070	.633	.551	.015 - .030	**.641**	**.265**	**.005 - .060**	**.649**	**.522**	**.005 - .010**
.625	.453	.020 - .030	.627	.285	.042 - .062	.630	.283	.105 - .125	.634	.116	.032 - .042	**.641**	**.308**	**.005 - .010**	**.649**	**.562**	**.005 - .010**
.625	.455	.020 - .030	.627	.313	.090 - .120	**.630**	**.315**	**.005 - .010**	.634	.155	.050 - .070	.641	.320	.010 - .025	**.649**	**.583**	**.005 - .010**
.625	.456	.030 - .070	.627	.314	.015 - .030	**.630**	**.316**	**.005 - .090**	.634	.194	.015 - .025	.641	.368	.020 - .040	**.650**	**.056**	**.005 - .010**
.625	.457	.010 - .040	.627	.323	.105 - .125	.630	.317	.010 - .020	**.634**	**.330**	**.005 - .010**	.641	.470	.010 - .020	.650	.062	.020 - .040
.625	.458	.010 - .020	.627	.334	.100 - .125	**.630**	**.319**	**.005 - .050**	.634	.354	.010 - .030	**.641**	**.475**	**.005 - .010**	**.650**	**.076**	**.005 - .010**
.625	.476	.040 - .060	.627	.335	.100 - .125	**.630**	**.320**	**.005 - .010**	**.634**	**.394**	**.005 - .010**	.641	.501	.031 - .048	**.650**	**.161**	**.005 - .015**
.625	.479	.010 - .050	.627	.344	.050 - .125	**.630**	**.321**	**.005 - .010**	.634	.459	.020 - .030	.641	.522	.020 - .030	.650	.162	.040 - .060
.625	**.485**	**.005 - .008**	.627	.349	.080 - .104	.630	.326	.060 - .080	.634	.477	.008 - .016	.641	.533	.030 - .060	**.650**	**.212**	**.005 - .010**
.625	.500	.032 - .060	**.627**	**.375**	**.005 - .010**	.630	.330	.010 - .020	**.634**	**.478**	**.005 - .010**	.642	.153	.030 - .050	**.650**	**.236**	**.005 - .010**
.625	.501	.020 - .030	.627	.376	.080 - .104	.630	.331	.050 - .070	.634	.512	.010 - .020	.642	.254	.015 - .030	.650	.250	.020 - .030
.625	.506	.030 - .050	.627	.378	.030 - .050	.630	.331	.105 - .125	.635	.167	.015 - .035	**.642**	**.411**	**.005 - .010**	.650	.260	.042 - .060
.625	.520	.040 - .050	.627	.379	.030 - .050	**.630**	**.336**	**.005 - .010**	.635	.179	.010 - .015	**.642**	**.449**	**.005 - .010**	.650	.290	.015 - .030
.625	.532	.020 - .030	.627	.380	.050 - .070	.630	.346	.040 - .060	.635	.200	.025 - .040	.642	.477	.070 - .090	.650	.311	.075 - .090
.625	.570	.015 - .030	.627	.385	.083 - .120	.630	.354	.050 - .070	.635	.204	.010 - .020	.642	.482	.020 - .040	**.650**	**.312**	**.005 - .120**
.626	.096	.015 - .025	**.627**	**.389**	**.005 - .010**	.630	.368	.050 - .075	.635	.312	.035 - .050	.642	.536	.007 - .012	.650	.315	.010 - .020
.626	.100	.015 - .030	**.627**	**.392**	**.005 - .010**	**.630**	**.384**	**.005 - .040**	.635	.356	.010 - .020	**.643**	**.169**	**.005 - .010**	**.650**	**.316**	**.005 - .010**
.626	**.104**	**.005 - .010**	.627	.406	.050 - .090	.630	.387	.010 - .020	.635	.375	.032 - .042	**.643**	**.174**	**.005 - .010**	**.650**	**.317**	**.005 - .010**
.626	.113	.030 - .050	**.627**	**.442**	**.005 - .010**	.630	.394	.060 - .070	**.635**	**.376**	**.005 - .010**	.643	.256	.010 - .020	**.650**	**.319**	**.005 - .010**
.626	**.129**	**.005 - .125**	.627	.475	.020 - .030	**.630**	**.395**	**.005 - .020**	**.635**	**.410**	**.005 - .010**	.643	.322	.015 - .030	.650	.325	.050 - .075
.626	.129	.126 - .130	.627	.486	.012 - .025	**.630**	**.397**	**.005 - .090**	.635	.443	.020 - .030	**.643**	**.370**	**.005 - .010**	.650	.357	.015 - .030
.626	.133	.030 - .060	.627	.505	.050 - .070	.630	.400	.025 - .090	.635	.470	.030 - .042	**.643**	**.502**	**.005 - .010**	.650	.374	.015 - .030
.626	.156	.020 - .035	**.627**	**.510**	**.005 - .040**	.630	.401	.015 - .030	.635	.531	.025 - .040	.643	.503	.015 - .030	.650	.377	.020 - .030
.626	.193	.020 - .075	**.627**	**.527**	**.005 - .010**	**.630**	**.403**	**.005 - .010**	.636	.179	.008 - .015	**.644**	**.171**	**.005 - .010**	.650	.380	.050 - .070
.626	.198	.025 - .040	.627	.547	.007 - .012	**.630**	**.404**	**.005 - .010**	**.636**	**.275**	**.005 - .010**	.644	.257	.050 - .070	**.650**	**.397**	**.005 - .010**
.626	.204	.030 - .156	.628	.096	.030 - .050	.630	.415	.080 - .105	.636	.381	.015 - .030	.644	.316	.020 - .035	.650	.404	.040 - .060
.626	.207	.050 - .070	**.628**	**.125**	**.005 - .010**	.630	.417	.050 - .070	**.636**	**.384**	**.005 - .010**	.644	.346	.015 - .030	.650	.410	.080 - .090
.626	.217	.100 - .125	.628	.166	.050 - .070	.630	.440	.070 - .090	.636	.393	.020 - .030	.644	.396	.025 - .040	**.650**	**.424**	**.005 - .010**
.626	**.229**	**.005 - .010**	.628	.191	.040 - .060	.630	.475	.010 - .020	**.636**	**.410**	**.005 - .015**	.644	.454	.025 - .040	.650	.469	.050 - .070
.626	.253	.060 - .080	**.628**	**.198**	**.005 - .010**	.630	.479	.040 - .050	.636	.454	.015 - .030	.644	.477	.020 - .030	**.650**	**.500**	**.005 - .010**
.626	.257	.015 - .030	.628	.201	.040 - .060	**.630**	**.499**	**.005 - .010**	**.636**	**.565**	**.005 - .010**	.644	.503	.020 - .040	.650	.503	.015 - .030
.626	.262	.100 - .125	.628	.208	.020 - .040	.630	.500	.015 - .030	.637	.244	.020 - .040	.645	.152	.030 - .050	.650	.505	.020 - .030
.626	.268	.020 - .060	.628	.232	.030 - .050	.630	.518	.010 - .020	**.637**	**.356**	**.005 - .010**	.645	.170	.035 - .050	.650	.507	.010 - .020
.626	**.281**	**.005 - .020**	.628	.238	.050 - .070	**.630**	**.534**	**.005 - .010**	.637	.381	.025 - .040	.645	.214	.010 - .020	.650	.534	.025 - .040

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

Call BOKER'S for precision stamping, assembly, and secondary operations.

O.D.	I.D.	Choose Any Thickness* From To
.650	.553	.010 - .020
.650	**.562**	**.005 - .010**
.651	.147	.042 - .060
.651	.160	.020 - .030
.651	**.229**	**.005 - .010**
.651	.315	.010 - .020
.651	.374	.010 - .020
.651	.377	.030 - .050
.651	**.379**	**.005 - .010**
.651	.380	.015 - .030
.651	**.394**	**.005 - .010**
.651	**.398**	**.005 - .010**
.651	.450	.010 - .020
.651	**.460**	**.005 - .010**
.651	.465	.010 - .020
.651	.485	.040 - .060
.651	**.505**	**.005 - .010**
.651	**.551**	**.005 - .030**
.652	.096	.062 - .078
.652	.118	.062 - .090
.652	.193	.030 - .050
.652	**.376**	**.005 - .010**
.652	.400	.010 - .020
.652	.406	.015 - .030
.652	**.412**	**.005 - .010**
.652	**.435**	**.005 - .010**
.652	.439	.020 - .040
.652	**.453**	**.005 - .010**
.652	.501	.030 - .042
.652	.510	.010 - .020
.653	.154	.040 - .062
.653	.238	.040 - .062
.653	.316	.010 - .020
.653	**.317**	**.005 - .010**
.653	.376	.010 - .020
.653	.392	.050 - .090
.653	.414	.050 - .070
.653	**.442**	**.005 - .010**
.653	**.542**	**.005 - .010**
.654	.142	.040 - .060
.654	.267	.030 - .050
.654	**.270**	**.005 - .010**
.654	.276	.010 - .020
.654	.363	.050 - .075
.654	.389	.025 - .040
.654	.480	.010 - .020
.654	.510	.025 - .040
.654	**.564**	**.005 - .012**
.654	.574	.015 - .025
.655	.124	.015 - .030
.655	.125	.040 - .060
.655	.142	.015 - .030
.655	.167	.030 - .050
.655	.191	.010 - .020
.655	.223	.080 - .100
.655	.256	.020 - .040
.655	**.318**	**.005 - .010**
.655	.378	.030 - .090
.655	.379	.010 - .020
.655	.381	.020 - .030
.655	**.419**	**.005 - .010**
.655	.421	.050 - .070
.655	**.465**	**.005 - .010**
.655	**.488**	**.005 - .010**
.655	.512	.015 - .025
.655	.525	.040 - .060
.655	**.528**	**.005 - .010**
.655	**.530**	**.005 - .010**
.656	.118	.030 - .050
.656	.190	.075 - .090
.656	.195	.050 - .075
.656	.196	.020 - .040
.656	.258	.030 - .050
.656	.267	.050 - .075
.656	**.278**	**.005 - .010**
.656	.290	.070 - .090
.656	.320	.025 - .040
.656	.341	.030 - .050
.656	.377	.015 - .030
.656	.387	.030 - .050

O.D.	I.D.	Choose Any Thickness* From To
.656	.397	.015 - .025
.656	.404	.080 - .104
.656	.406	.090 - .125
.656	**.453**	**.005 - .040**
.656	.460	.025 - .035
.656	.470	.035 - .050
.656	**.489**	**.005 - .010**
.656	.500	.030 - .050
.656	.503	.010 - .020
.656	**.510**	**.005 - .010**
.656	**.511**	**.005 - .030**
.656	.515	.015 - .030
.656	.528	.015 - .030
.656	.563	.020 - .040
.656	.565	.010 - .020
.657	.216	.060 - .080
.657	.250	.080 - .105
.657	.255	.015 - .030
.657	.330	.075 - .100
.657	.338	.105 - .125
.657	**.363**	**.005 - .010**
.657	**.375**	**.005 - .010**
.657	**.413**	**.005 - .010**
.657	**.417**	**.005 - .010**
.657	.530	.020 - .040
.657	.531	.040 - .060
.657	.538	.040 - .060
.657	.613	.016 - .025
.658	.255	.010 - .020
.658	.314	.030 - .050
.658	.375	.010 - .020
.658	.385	.050 - .060
.658	**.437**	**.005 - .012**
.658	.478	.015 - .025
.658	.479	.030 - .042
.658	.511	.030 - .070
.658	**.572**	**.005 - .010**
.659	.125	.015 - .025
.659	.256	.100 - .120
.659	.265	.020 - .035
.659	.288	.050 - .070
.659	.313	.020 - .040
.659	.335	.060 - .075
.659	.381	.090 - .100
.659	.501	.015 - .030
.660	.125	.020 - .030
.660	.213	.070 - .090
.660	.225	.040 - .060
.660	**.251**	**.005 - .010**
.660	**.261**	**.005 - .010**
.660	.268	.050 - .072
.660	.313	.020 - .030
.660	**.314**	**.005 - .010**
.660	.345	.015 - .030
.660	.350	.050 - .070
.660	.366	.020 - .030
.660	.378	.020 - .030
.660	.390	.040 - .060
.660	.401	.020 - .030
.660	.409	.040 - .060
.660	**.436**	**.005 - .010**
.660	**.472**	**.005 - .010**
.660	**.507**	**.005 - .010**
.660	**.512**	**.005 - .010**
.660	**.563**	**.005 - .010**
.660	.577	.020 - .030
.661	**.241**	**.005 - .010**
.661	.270	.060 - .080
.661	.336	.020 - .040
.661	**.341**	**.005 - .010**
.661	.403	.040 - .060
.661	.487	.040 - .060
.661	.529	.015 - .025
.661	.531	.010 - .020
.661	**.551**	**.005 - .010**
.661	**.583**	**.005 - .010**
.662	.201	.050 - .070
.662	.219	.050 - .070
.662	.386	.020 - .040
.662	.393	.040 - .060

O.D.	I.D.	Choose Any Thickness* From To
.662	.432	.060 - .080
.662	.461	.030 - .050
.662	.477	.010 - .020
.662	.487	.060 - .070
.662	.553	.010 - .020
.663	**.140**	**.005 - .010**
.663	.457	.050 - .070
.663	**.504**	**.005 - .010**
.663	.556	.010 - .020
.664	.256	.100 - .125
.664	**.259**	**.005 - .125**
.664	.413	.030 - .050
.664	.503	.025 - .050
.664	.541	.040 - .060
.665	.173	.050 - .075
.665	.249	.030 - .050
.665	.251	.075 - .090
.665	.334	.050 - .130
.665	.374	.120 - .140
.665	.383	.040 - .060
.665	.397	.070 - .090
.665	.434	.040 - .060
.665	.515	.025 - .040
.665	**.550**	**.005 - .012**
.665	.569	.020 - .040
.665	.576	.030 - .048
.666	.143	.015 - .030
.666	.168	.075 - .090
.666	.196	.020 - .040
.666	.256	.075 - .090
.666	.267	.040 - .062
.666	.430	.020 - .030
.666	.453	.015 - .025
.666	.475	.020 - .040
.666	.478	.030 - .050
.666	**.537**	**.005 - .010**
.666	.564	.010 - .020
.666	**.579**	**.005 - .010**
.667	.213	.012 - .020
.667	.270	.025 - .040
.667	.275	.025 - .042
.667	.319	.042 - .062
.667	**.336**	**.005 - .010**
.667	.347	.015 - .030
.667	**.496**	**.005 - .010**
.667	**.595**	**.005 - .010**
.668	.218	.060 - .080
.668	**.316**	**.005 - .010**
.668	**.317**	**.005 - .010**
.668	.333	.050 - .075
.668	.340	.035 - .050
.668	.348	.010 - .015
.668	.406	.040 - .060
.668	.435	.020 - .030
.668	.472	.010 - .020
.669	**.031**	**.005 - .010**
.669	**.114**	**.005 - .010**
.669	**.138**	**.005 - .010**
.669	**.163**	**.005 - .010**
.669	**.200**	**.005 - .010**
.669	.204	.020 - .060
.669	**.237**	**.005 - .010**
.669	**.316**	**.005 - .010**
.669	.317	.075 - .105
.669	**.319**	**.005 - .020**
.669	.320	.010 - .040
.669	.331	.050 - .070
.669	.338	.080 - .100
.669	**.397**	**.005 - .010**
.669	.427	.030 - .050
.669	.430	.010 - .020
.669	.434	.070 - .090
.669	.472	.030 - .050
.669	.487	.006 - .015
.669	**.515**	**.005 - .010**
.669	.543	.015 - .030
.669	.550	.015 - .030
.669	**.552**	**.005 - .010**
.670	.121	.060 - .080
.670	**.123**	**.005 - .010**

O.D.	I.D.	Choose Any Thickness* From To
.670	**.130**	**.005 - .010**
.670	.168	.040 - .060
.670	.169	.040 - .060
.670	.178	.030 - .040
.670	.190	.015 - .032
.670	**.208**	**.005 - .010**
.670	**.234**	**.005 - .010**
.670	**.237**	**.005 - .010**
.670	**.239**	**.005 - .010**
.670	**.240**	**.005 - .010**
.670	.245	.020 - .030
.670	**.253**	**.005 - .010**
.670	.257	.040 - .125
.670	.260	.020 - .030
.670	.280	.010 - .020
.670	**.300**	**.005 - .010**
.670	**.315**	**.005 - .010**
.670	**.317**	**.005 - .010**
.670	.319	.050 - .070
.670	.330	.050 - .075
.670	**.331**	**.005 - .010**
.670	.350	.020 - .100
.670	.354	.105 - .125
.670	**.355**	**.005 - .010**
.670	.360	.040 - .050
.670	.378	.060 - .080
.670	.382	.030 - .060
.670	.398	.040 - .060
.670	**.406**	**.005 - .010**
.670	**.421**	**.005 - .010**
.670	**.439**	**.005 - .010**
.670	.474	.070 - .090
.670	.480	.010 - .020
.670	.481	.040 - .060
.670	.495	.040 - .062
.670	.503	.020 - .040
.670	**.545**	**.005 - .010**
.670	.574	.030 - .050
.671	.200	.025 - .042
.671	**.239**	**.005 - .010**
.671	**.264**	**.005 - .010**
.671	.311	.078 - .090
.671	**.315**	**.005 - .010**
.671	.316	.015 - .030
.671	**.319**	**.005 - .010**
.671	**.322**	**.005 - .010**
.671	.325	.015 - .030
.671	.333	.010 - .020
.671	.345	.020 - .040
.671	.385	.070 - .090
.671	.386	.100 - .125
.671	**.391**	**.005 - .075**
.671	.395	.020 - .030
.671	**.474**	**.005 - .010**
.671	.507	.008 - .015
.671	.568	.010 - .020
.672	.128	.100 - .125
.672	.325	.015 - .030
.672	.326	.080 - .125
.672	**.346**	**.005 - .010**
.672	**.362**	**.005 - .010**
.672	**.375**	**.005 - .010**
.672	.407	.010 - .020
.672	**.415**	**.005 - .010**
.672	.442	.030 - .040
.672	.445	.025 - .060
.672	.490	.050 - .070
.672	.531	.030 - .040
.673	.098	.020 - .040
.673	**.283**	**.005 - .010**
.673	**.408**	**.005 - .010**
.673	.412	.100 - .134
.673	.437	.010 - .025
.673	**.446**	**.005 - .010**
.673	.473	.010 - .025
.673	.500	.020 - .036
.674	.095	.010 - .020
.674	.377	.025 - .040
.674	**.391**	**.005 - .010**
.674	**.395**	**.005 - .010**

O.D.	I.D.	Choose Any Thickness* From To
.674	**.441**	**.005 - .080**
.674	.450	.040 - .060
.674	.473	.025 - .040
.674	.480	.070 - .090
.674	.504	.075 - .090
.674	.536	.040 - .060
.674	.562	.020 - .030
.675	**.095**	**.005 - .010**
.675	.203	.020 - .040
.675	**.224**	**.005 - .010**
.675	.280	.060 - .090
.675	.284	.032 - .050
.675	.301	.050 - .105
.675	.375	.010 - .020
.675	.400	.010 - .040
.675	.416	.015 - .030
.675	.435	.070 - .090
.675	**.440**	**.005 - .010**
.675	**.442**	**.005 - .010**
.675	.447	.080 - .100
.675	.458	.020 - .040
.675	.460	.010 - .020
.675	**.480**	**.005 - .060**
.675	.500	.040 - .060
.675	.515	.025 - .048
.675	**.582**	**.005 - .010**
.676	.288	.010 - .025
.676	.370	.070 - .080
.676	**.440**	**.005 - .010**
.676	.500	.025 - .042
.676	.515	.020 - .030
.676	.565	.020 - .040
.677	.168	.020 - .030
.677	**.382**	**.005 - .010**
.677	**.387**	**.005 - .010**
.677	.441	.060 - .080
.677	.458	.025 - .040
.677	.468	.010 - .020
.677	.476	.040 - .060
.677	**.523**	**.005 - .010**
.677	**.525**	**.005 - .010**
.677	**.534**	**.005 - .010**
.678	.193	.060 - .090
.678	.256	.035 - .060
.678	.384	.020 - .032
.678	.405	.010 - .030
.678	**.440**	**.005 - .010**
.678	.442	.012 - .020
.678	.449	.040 - .060
.678	.504	.015 - .030
.678	**.507**	**.005 - .010**
.678	**.529**	**.005 - .007**
.678	.530	.015 - .030
.678	.564	.035 - .050
.678	.568	.010 - .020
.678	**.591**	**.005 - .010**
.678	**.593**	**.005 - .010**
.678	**.606**	**.005 - .010**
.679	.111	.048 - .062
.679	.206	.035 - .060
.679	.221	.010 - .015
.679	.395	.030 - .050
.679	.396	.015 - .030
.679	.403	.050 - .075
.679	.409	.040 - .050
.679	**.411**	**.005 - .010**
.679	.441	.030 - .050
.679	**.451**	**.005 - .010**
.679	.457	.030 - .060
.679	.482	.015 - .062
.679	.501	.015 - .030
.679	**.509**	**.005 - .010**
.680	**.163**	**.005 - .010**
.680	.200	.032 - .050
.680	**.239**	**.005 - .010**
.680	**.253**	**.005 - .030**
.680	.256	.040 - .060
.680	.270	.015 - .035
.680	.283	.080 - .105
.680	.300	.032 - .050

O.D.	I.D.	Choose Any Thickness* From To
.680	.316	.048 - .062
.680	.317	.030 - .040
.680	**.325**	**.005 - .050**
.680	.326	.070 - .090
.680	.330	.015 - .030
.680	.369	.050 - .075
.680	.375	.040 - .060
.680	**.422**	**.005 - .015**
.680	.442	.040 - .060
.680	**.445**	**.005 - .010**
.680	.447	.010 - .020
.680	**.470**	**.005 - .010**
.680	.476	.030 - .050
.680	.485	.050 - .060
.680	.500	.032 - .050
.680	.504	.020 - .040
.680	.514	.020 - .040
.680	.524	.030 - .050
.680	**.540**	**.005 - .010**
.680	**.559**	**.005 - .010**
.680	.564	.030 - .050
.680	**.565**	**.005 - .050**
.680	**.597**	**.005 - .010**
.681	.190	.030 - .050
.681	.251	.050 - .070
.681	.264	.030 - .050
.681	**.391**	**.005 - .010**
.681	**.395**	**.005 - .050**
.681	.401	.020 - .040
.681	**.440**	**.005 - .010**
.681	.503	.015 - .030
.681	**.515**	**.005 - .010**
.681	.590	.010 - .020
.682	.129	.015 - .025
.682	.333	.070 - .090
.682	.351	.050 - .070
.682	**.365**	**.005 - .010**
.682	**.395**	**.005 - .010**
.682	.400	.032 - .048
.682	.439	.025 - .040
.682	.440	.020 - .030
.682	.472	.062 - .078
.682	**.486**	**.005 - .010**
.682	**.503**	**.005 - .010**
.682	.578	.015 - .030
.682	.601	.020 - .030
.683	.121	.050 - .070
.683	.172	.010 - .025
.683	.345	.070 - .090
.683	**.376**	**.005 - .010**
.683	.378	.015 - .030
.683	.396	.070 - .090
.683	.400	.032 - .042
.683	.406	.040 - .105
.683	.440	.015 - .030
.683	.478	.025 - .035
.683	.488	.080 - .104
.683	.505	.050 - .070
.683	.510	.030 - .062
.683	.570	.040 - .050
.683	.575	.040 - .060
.683	.579	.015 - .025
.684	.234	.062 - .078
.684	.247	.050 - .075
.684	**.279**	**.005 - .010**
.684	**.303**	**.005 - .010**
.684	.323	.020 - .040
.684	**.399**	**.005 - .010**
.684	.400	.015 - .030
.684	.412	.100 - .125
.684	**.443**	**.005 - .012**
.684	.466	.090 - .100
.684	.510	.050 - .070
.684	.542	.035 - .050
.684	.568	.025 - .045
.684	.581	.015 - .025
.684	.593	.030 - .040
.684	.613	.015 - .030
.685	.143	.040 - .060
.685	.158	.060 - .083

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

New tools added continually. Call for sizes not listed — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
.685	**.225**	**.005 - .010**	.687	.257	.080 - .090	.688	.452	.030 - .050	.691	.192	.020 - .040	.700	.159	.040 - .060	**.701**	**.168**	**.005 - .010**
.685	.233	.010 - .020	**.687**	**.259**	**.005 - .010**	.688	.464	.080 - .100	.691	.194	.015 - .030	.700	.164	.010 - .020	.701	.193	.040 - .060
.685	.254	.010 - .075	.687	.267	.030 - .048	.688	.468	.020 - .040	**.691**	**.203**	**.005 - .010**	.700	.168	.050 - .070	.701	.204	.050 - .070
.685	.263	.010 - .015	.687	.296	.050 - .075	.688	.469	.015 - .030	.691	.238	.030 - .050	.700	.169	.040 - .060	.701	.224	.040 - .060
.685	**.264**	**.005 - .010**	.687	.306	.040 - .060	.688	.505	.060 - .080	.691	.258	.060 - .080	**.700**	**.176**	**.005 - .010**	.701	.241	.050 - .070
.685	.269	.050 - .070	.687	.312	.120 - .156	.688	.513	.050 - .075	.691	.475	.030 - .060	**.700**	**.193**	**.005 - .010**	.701	.257	.050 - .100
.685	.325	.090 - .120	.687	.316	.036 - .048	**.688**	**.518**	**.005 - .010**	**.691**	**.485**	**.005 - .010**	.700	.210	.050 - .070	**.701**	**.259**	**.005 - .010**
.685	.344	.040 - .060	.687	.323	.048 - .062	.688	.538	.015 - .040	.691	.511	.020 - .030	.700	.221	.075 - .090	**.701**	**.410**	**.005 - .010**
.685	.346	.070 - .105	**.687**	**.328**	**.005 - .012**	**.688**	**.563**	**.005 - .010**	.691	.515	.015 - .030	.700	.250	.070 - .090	.701	.419	.050 - .070
.685	.366	.105 - .125	.687	.330	.050 - .075	.688	.615	.015 - .030	**.691**	**.598**	**.005 - .010**	.700	.252	.010 - .020	.701	.425	.050 - .070
.685	.371	.100 - .125	.687	.339	.050 - .070	.689	.156	.040 - .060	.692	.286	.042 - .062	**.700**	**.253**	**.005 - .010**	.701	.438	.040 - .060
.685	.375	.032 - .062	**.687**	**.343**	**.005 - .010**	.689	.162	.100 - .120	.692	.406	.020 - .040	.700	.256	.040 - .060	.701	.500	.010 - .060
.685	.376	.100 - .125	.687	.350	.050 - .075	.689	.222	.090 - .120	**.692**	**.519**	**.005 - .010**	.700	.272	.060 - .080	.701	.521	.080 - .100
.685	.378	.080 - .100	.687	.359	.025 - .048	**.689**	**.249**	**.005 - .010**	**.693**	**.119**	**.005 - .012**	**.700**	**.291**	**.005 - .010**	.701	.549	.020 - .030
.685	.379	.010 - .048	.687	.371	.100 - .125	**.689**	**.273**	**.005 - .010**	**.693**	**.236**	**.005 - .010**	.700	.313	.010 - .020	.701	.561	.010 - .020
.685	.380	.025 - .060	.687	.376	.010 - .020	.689	.281	.050 - .070	**.693**	**.320**	**.005 - .010**	**.700**	**.317**	**.005 - .020**	.701	.614	.015 - .030
.685	.391	.090 - .110	.687	.378	.010 - .020	.689	.313	.020 - .040	.693	.396	.050 - .075	**.700**	**.320**	**.005 - .010**	.702	.261	.100 - .120
.685	.392	.090 - .110	**.687**	**.379**	**.005 - .010**	.689	.319	.025 - .040	.693	.410	.025 - .040	.700	.327	.015 - .020	.702	.312	.010 - .020
.685	.400	.105 - .125	.687	.380	.025 - .040	**.689**	**.320**	**.005 - .010**	.693	.438	.020 - .030	.700	.328	.010 - .025	.702	.319	.020 - .030
.685	.410	.060 - .078	.687	.384	.010 - .040	.689	.325	.040 - .060	**.693**	**.443**	**.005 - .010**	.700	.330	.100 - .125	**.702**	**.325**	**.005 - .010**
.685	.423	.100 - .125	**.687**	**.385**	**.005 - .010**	.689	.345	.040 - .060	.693	.539	.050 - .070	.700	.337	.050 - .070	.702	.327	.105 - .125
.685	.427	.032 - .042	.687	.386	.070 - .090	.689	.375	.010 - .020	.694	.370	.010 - .020	.700	.344	.007 - .020	.702	.401	.025 - .040
.685	**.441**	**.005 - .010**	**.687**	**.393**	**.005 - .015**	.689	.377	.050 - .070	.694	.379	.060 - .070	**.700**	**.356**	**.005 - .010**	.702	.437	.090 - .105
.685	.450	.008 - .020	.687	.397	.050 - .075	**.689**	**.398**	**.005 - .010**	.694	.478	.060 - .070	.700	.357	.010 - .020	.702	.487	.050 - .070
.685	.470	.050 - .070	.687	.406	.040 - .050	.689	.401	.015 - .030	.694	.484	.050 - .070	.700	.358	.040 - .060	.702	.504	.012 - .025
.685	.473	.060 - .080	.687	.407	.060 - .070	.689	.402	.032 - .048	.695	.195	.015 - .025	.700	.360	.030 - .050	**.702**	**.505**	**.005 - .010**
.685	.475	.020 - .040	.687	.416	.050 - .060	.689	.408	.100 - .125	.695	.196	.032 - .062	.700	.366	.090 - .105	.702	.516	.050 - .075
.685	.478	.015 - .030	.687	.432	.050 - .070	**.689**	**.435**	**.005 - .010**	**.695**	**.264**	**.005 - .012**	.700	.376	.010 - .020	.702	.561	.015 - .030
.685	.487	.020 - .030	.687	.433	.050 - .125	**.689**	**.437**	**.005 - .010**	.695	.265	.030 - .060	.700	.377	.020 - .040	.702	.595	.025 - .040
.685	.520	.010 - .020	**.687**	**.438**	**.005 - .020**	.689	.468	.015 - .125	**.695**	**.282**	**.005 - .010**	**.700**	**.378**	**.005 - .030**	.703	.119	.030 - .050
.685	.533	.060 - .083	.687	.441	.020 - .070	**.689**	**.471**	**.005 - .010**	.695	.335	.025 - .040	.700	.380	.040 - .060	.703	.206	.025 - .040
.685	.568	.030 - .050	.687	.443	.030 - .125	.689	.472	.030 - .050	.695	.353	.010 - .020	**.700**	**.381**	**.005 - .010**	**.703**	**.263**	**.005 - .010**
.685	.609	.010 - .030	.687	.445	.012 - .020	.689	.493	.040 - .060	.695	.412	.080 - .104	.700	.383	.040 - .060	.703	.409	.010 - .020
.686	.066	.036 - .050	.687	.452	.010 - .020	.689	.494	.050 - .075	.695	.414	.012 - .025	.700	.385	.090 - .105	**.703**	**.443**	**.005 - .010**
.686	**.094**	**.005 - .010**	.687	.455	.050 - .100	**.689**	**.500**	**.005 - .010**	.695	.486	.060 - .070	.700	.392	.010 - .020	.703	.480	.030 - .050
.686	.135	.030 - .050	.687	.465	.080 - .100	.689	.517	.030 - .050	.695	.518	.030 - .040	.700	.394	.135 - .156	.703	.482	.050 - .070
.686	.136	.040 - .060	.687	.468	.040 - .060	.689	.564	.010 - .030	**.695**	**.520**	**.005 - .010**	**.700**	**.397**	**.005 - .010**	.703	.487	.040 - .050
.686	.147	.015 - .025	.687	.469	.050 - .080	.689	.565	.010 - .020	**.695**	**.557**	**.005 - .010**	.700	.405	.120 - .134	.703	.516	.020 - .040
.686	.159	.080 - .100	.687	.475	.015 - .030	.689	.577	.030 - .050	.695	.558	.015 - .030	.700	.406	.050 - .150	.703	.525	.030 - .050
.686	**.161**	**.005 - .010**	.687	.481	.050 - .070	.690	.076	.010 - .020	.695	.626	.015 - .025	**.700**	**.411**	**.005 - .060**	.703	.540	.040 - .060
.686	.167	.040 - .135	.687	.487	.025 - .040	.690	.149	.050 - .060	.696	.037	.007 - .015	**.700**	**.417**	**.005 - .020**	.703	.635	.010 - .020
.686	.198	.042 - .060	.687	.500	.010 - .050	**.690**	**.167**	**.005 - .010**	**.696**	**.147**	**.005 - .015**	**.700**	**.435**	**.005 - .010**	.704	.078	.040 - .060
.686	.202	.100 - .125	**.687**	**.503**	**.005 - .010**	.690	.173	.050 - .070	**.696**	**.156**	**.005 - .010**	**.700**	**.437**	**.005 - .010**	.704	.259	.050 - .070
.686	.252	.040 - .060	**.687**	**.506**	**.005 - .010**	.690	.188	.040 - .060	.696	.166	.062 - .090	**.700**	**.441**	**.005 - .020**	.704	.264	.060 - .080
.686	.253	.042 - .062	.687	.510	.050 - .060	.690	.190	.010 - .020	.696	.178	.062 - .078	**.700**	**.450**	**.005 - .080**	.704	.268	.060 - .090
.686	.269	.050 - .072	.687	.511	.020 - .040	.690	.192	.060 - .080	.696	.196	.050 - .070	**.700**	**.455**	**.005 - .010**	.704	.343	.060 - .080
.686	**.270**	**.005 - .010**	.687	.513	.042 - .062	.690	.202	.030 - .050	.696	.281	.090 - .120	.700	.456	.030 - .050	.704	.366	.010 - .040
.686	.313	.100 - .120	.687	.517	.030 - .048	.690	.206	.050 - .075	.696	.458	.025 - .042	.700	.465	.020 - .040	.704	.475	.010 - .025
.686	.345	.060 - .080	**.687**	**.564**	**.005 - .010**	.690	.220	.020 - .032	**.696**	**.498**	**.005 - .010**	**.700**	**.473**	**.005 - .010**	.704	.478	.040 - .060
.686	.346	.025 - .035	**.687**	**.566**	**.005 - .015**	.690	.250	.125 - .135	.696	.531	.015 - .030	**.700**	**.476**	**.005 - .010**	.704	.480	.015 - .030
.686	.360	.015 - .025	**.687**	**.603**	**.005 - .010**	.690	.254	.050 - .070	.697	.313	.090 - .110	.700	.478	.070 - .080	.704	.497	.020 - .035
.686	.377	.060 - .080	.688	.130	.050 - .060	.690	.264	.105 - .125	.697	.532	.025 - .040	**.700**	**.500**	**.005 - .010**	.704	.503	.060 - .100
.686	.379	.025 - .040	.688	.168	.050 - .060	.690	.265	.100 - .125	**.698**	**.231**	**.005 - .010**	.700	.501	.070 - .090	.704	.532	.030 - .050
.686	.381	.080 - .105	.688	.205	.025 - .040	.690	.280	.050 - .075	**.698**	**.361**	**.005 - .010**	.700	.502	.010 - .100	**.704**	**.553**	**.005 - .010**
.686	.385	.048 - .062	.688	.206	.040 - .060	.690	.281	.050 - .070	**.698**	**.477**	**.005 - .010**	**.700**	**.504**	**.005 - .030**	.704	.600	.020 - .040
.686	.390	.048 - .062	.688	.216	.050 - .070	.690	.317	.080 - .100	**.698**	**.500**	**.005 - .010**	.700	.506	.015 - .042	**.704**	**.626**	**.005 - .010**
.686	.392	.050 - .062	.688	.253	.010 - .020	.690	.323	.020 - .070	**.698**	**.527**	**.005 - .010**	.700	.510	.010 - .025	**.705**	**.085**	**.005 - .012**
.686	.395	.010 - .020	.688	.259	.040 - .060	.690	.330	.105 - .135	.698	.541	.025 - .040	.700	.511	.020 - .040	**.705**	**.098**	**.005 - .010**
.686	**.398**	**.005 - .010**	**.688**	**.263**	**.005 - .125**	.690	.336	.060 - .075	.698	.542	.030 - .060	.700	.514	.020 - .060	.705	.253	.050 - .072
.686	**.421**	**.005 - .010**	.688	.263	.126 - .190	.690	.343	.050 - .070	.698	.564	.010 - .020	.700	.530	.070 - .080	.705	.265	.020 - .040
.686	.437	.015 - .030	**.688**	**.284**	**.005 - .010**	.690	.344	.100 - .120	**.698**	**.602**	**.005 - .010**	.700	.531	.020 - .040	**.705**	**.274**	**.005 - .010**
.686	.438	.050 - .075	.688	.311	.010 - .040	**.690**	**.354**	**.005 - .010**	**.698**	**.626**	**.005 - .010**	**.700**	**.532**	**.005 - .010**	**.705**	**.311**	**.005 - .010**
.686	.483	.050 - .075	.688	.313	.020 - .140	**.690**	**.365**	**.005 - .010**	.699	.070	.040 - .060	.700	.533	.030 - .050	**.705**	**.312**	**.005 - .010**
.686	.500	.030 - .070	**.688**	**.316**	**.005 - .010**	.690	.376	.010 - .030	.699	.076	.015 - .025	.700	.535	.040 - .050	**.705**	**.317**	**.005 - .010**
.686	.502	.025 - .042	**.688**	**.317**	**.005 - .010**	.690	.385	.090 - .104	.699	.201	.040 - .060	**.700**	**.550**	**.005 - .010**	.705	.361	.105 - .125
.686	**.512**	**.005 - .010**	.688	.326	.015 - .030	.690	.436	.100 - .125	.699	.210	.060 - .080	.700	.555	.015 - .030	.705	.383	.010 - .020
.686	.520	.015 - .030	.688	.330	.030 - .050	.690	.475	.030 - .050	**.699**	**.376**	**.005 - .010**	**.700**	**.560**	**.005 - .030**	**.705**	**.438**	**.005 - .010**
.686	**.528**	**.005 - .010**	**.688**	**.334**	**.005 - .010**	.690	.494	.075 - .090	**.699**	**.380**	**.005 - .010**	.700	.564	.025 - .072	.705	.516	.025 - .040
.687	.119	.015 - .030	.688	.343	.070 - .090	.690	.503	.050 - .070	**.699**	**.483**	**.005 - .010**	.700	.565	.010 - .060	**.705**	**.531**	**.005 - .010**
.687	.187	.030 - .050	.688	.344	.070 - .090	.690	.530	.040 - .060	.699	.500	.010 - .020	.700	.566	.015 - .032	.705	.550	.030 - .050
.687	.189	.010 - .060	**.688**	**.349**	**.005 - .010**	.690	.533	.072 - .090	**.699**	**.502**	**.005 - .010**	**.700**	**.578**	**.005 - .010**	.705	.634	.015 - .025
.687	**.191**	**.005 - .010**	.688	.350	.050 - .070	**.690**	**.542**	**.005 - .010**	.699	.503	.070 - .090	**.700**	**.585**	**.005 - .010**	.706	.254	.030 - .050
.687	.194	.125 - .156	.688	.352	.050 - .070	.690	.566	.030 - .050	.699	.514	.060 - .080	.700	.600	.010 - .020	**.706**	**.347**	**.005 - .010**
.687	.198	.090 - .105	**.688**	**.376**	**.005 - .042**	.690	.569	.010 - .020	.699	.562	.040 - .060	**.700**	**.608**	**.005 - .010**	.706	.395	.062 - .083
.687	.199	.015 - .020	.688	.378	.050 - .075	.690	.575	.010 - .020	.700	.076	.010 - .020	.700	.610	.015 - .030	.706	.398	.050 - .070
.687	.200	.032 - .042	.688	.384	.050 - .070	.690	.615	.020 - .030	**.700**	**.077**	**.005 - .010**	**.700**	**.615**	**.005 - .010**	**.706**	**.402**	**.005 - .010**
.687	.219	.036 - .050	.688	.386	.050 - .070	.690	.625	.010 - .020	**.700**	**.093**	**.005 - .010**	**.700**	**.631**	**.005 - .010**	**.706**	**.420**	**.005 - .010**
.687	.221	.020 - .062	.688	.391	.105 - .125	**.690**	**.639**	**.005 - .010**	.700	.096	.050 - .062	**.700**	**.651**	**.005 - .010**	.706	.434	.025 - .040
.687	**.234**	**.005 - .010**	.688	.393	.075 - .090	.691	.163	.025 - .040	.700	.120	.070 - .090	.701	.130	.060 - .080	.706	.453	.032 - .042
.687	**.237**	**.005 - .010**	**.688**	**.407**	**.005 - .010**	.691	.189	.050 - .070	.700	.138	.010 - .020	.701	.153	.048 - .090	.706	.478	.040 - .060

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
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For non-metallic materials, contact BOKER'S — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
.706	.500	.075 - .100	.709	.503	.080 - .105	**.715**	**.379**	**.005 - .010**	**.720**	**.315**	**.005 - .010**	.728	.174	.020 - .040	.734	.380	.010 - .015
.706	.505	.010 - .060	**.709**	**.550**	**.005 - .010**	.715	.437	.008 - .012	.720	.321	.050 - .075	.728	.219	.010 - .020	.734	.406	.050 - .125
.707	.315	.100 - .125	.709	.592	.030 - .050	.715	.440	.090 - .100	.720	.341	.090 - .105	**.728**	**.251**	**.005 - .010**	.734	.420	.093 - .130
.707	**.316**	**.005 - .125**	**.710**	**.133**	**.005 - .010**	.715	.470	.060 - .105	.720	.360	.020 - .030	.728	.253	.025 - .040	.734	.466	.060 - .075
.707	**.320**	**.005 - .010**	.710	.201	.050 - .070	.715	.474	.030 - .060	**.720**	**.401**	**.005 - .015**	.728	.259	.025 - .040	.734	.485	.020 - .030
.707	.335	.020 - .040	.710	.211	.070 - .090	.715	.481	.025 - .040	.720	.446	.025 - .040	.728	.291	.025 - .040	.734	.515	.030 - .042
.707	**.436**	**.005 - .010**	**.710**	**.236**	**.005 - .010**	.715	.500	.020 - .035	.720	.455	.105 - .125	.728	.292	.025 - .042	**.734**	**.531**	**.005 - .010**
.707	.472	.015 - .030	**.710**	**.238**	**.005 - .010**	.715	.526	.015 - .025	.720	.463	.080 - .104	.728	.328	.025 - .040	.734	.630	.032 - .048
.707	**.480**	**.005 - .010**	.710	.252	.008 - .016	.715	.535	.025 - .040	**.720**	**.473**	**.005 - .010**	.728	.375	.060 - .090	.735	.193	.050 - .070
.708	.120	.072 - .120	**.710**	**.278**	**.005 - .010**	.716	.230	.015 - .030	.720	.502	.015 - .020	.728	.395	.010 - .020	.735	.282	.050 - .070
.708	.136	.040 - .060	**.710**	**.279**	**.005 - .010**	.716	.264	.020 - .040	**.720**	**.550**	**.005 - .010**	.728	.403	.010 - .020	.735	.321	.030 - .060
.708	.170	.040 - .060	.710	.288	.015 - .125	.716	.405	.025 - .042	.720	.564	.020 - .032	**.728**	**.440**	**.005 - .010**	.735	.346	.050 - .080
.708	**.218**	**.005 - .030**	.710	.301	.010 - .020	.716	.474	.030 - .050	.720	.566	.015 - .030	.728	.454	.015 - .025	.735	.369	.060 - .080
.708	.236	.030 - .050	.710	.308	.100 - .120	.716	.515	.040 - .062	.720	.568	.015 - .030	.728	.473	.025 - .042	.735	.380	.105 - .156
.708	**.238**	**.005 - .010**	**.710**	**.315**	**.005 - .010**	.716	.624	.030 - .048	.720	.594	.050 - .075	**.728**	**.500**	**.005 - .015**	.735	.385	.020 - .030
.708	.239	.030 - .050	**.710**	**.317**	**.005 - .010**	.717	.187	.010 - .020	**.720**	**.612**	**.005 - .010**	.728	.532	.020 - .040	**.735**	**.393**	**.005 - .110**
.708	.253	.040 - .060	.710	.318	.010 - .015	.717	.223	.050 - .070	**.720**	**.621**	**.005 - .010**	.728	.545	.015 - .030	.735	.401	.015 - .025
.708	.257	.050 - .070	.710	.330	.010 - .020	.717	.290	.030 - .050	**.720**	**.639**	**.005 - .010**	**.728**	**.574**	**.005 - .010**	**.735**	**.412**	**.005 - .010**
.708	.271	.105 - .120	.710	.342	.020 - .030	.717	.293	.010 - .020	.720	.642	.030 - .040	.728	.631	.012 - .020	.735	.451	.050 - .070
.708	.279	.060 - .080	.710	.354	.008 - .020	.717	.318	.025 - .040	.721	.250	.050 - .075	**.728**	**.632**	**.005 - .010**	.735	.454	.100 - .130
.708	.293	.050 - .070	.710	.376	.020 - .040	.717	.322	.032 - .050	.721	.318	.030 - .042	.729	.219	.010 - .020	.735	.500	.020 - .070
.708	**.305**	**.005 - .010**	.710	.413	.050 - .072	.717	.438	.030 - .050	.721	.404	.062 - .078	**.729**	**.379**	**.005 - .010**	.735	.560	.060 - .080
.708	**.315**	**.005 - .010**	**.710**	**.454**	**.005 - .010**	.717	.440	.080 - .100	**.721**	**.423**	**.005 - .010**	.729	.382	.135 - .156	.735	.627	.040 - .060
.708	**.319**	**.005 - .070**	.710	.473	.010 - .020	**.717**	**.447**	**.005 - .010**	.721	.530	.010 - .020	.729	.397	.025 - .040	.736	.118	.015 - .030
.708	**.322**	**.005 - .010**	**.710**	**.474**	**.005 - .010**	.717	.473	.015 - .030	.721	.594	.016 - .025	**.729**	**.500**	**.005 - .010**	.736	.159	.040 - .050
.708	.335	.020 - .030	.710	.475	.015 - .030	.717	.476	.025 - .040	.721	.601	.020 - .040	.729	.513	.007 - .016	.736	.160	.030 - .050
.708	**.338**	**.005 - .010**	.710	.497	.030 - .050	**.717**	**.478**	**.005 - .010**	**.722**	**.186**	**.005 - .010**	.729	.552	.060 - .080	.736	.268	.042 - .060
.708	.339	.040 - .060	.710	.505	.050 - .070	.717	.515	.050 - .075	.722	.221	.080 - .100	.730	.238	.060 - .080	.736	.310	.048 - .070
.708	**.341**	**.005 - .010**	.710	.507	.020 - .035	**.717**	**.548**	**.005 - .010**	.722	.233	.050 - .070	.730	.280	.010 - .020	.736	.313	.040 - .060
.708	**.347**	**.005 - .010**	**.710**	**.525**	**.005 - .010**	**.717**	**.628**	**.005 - .010**	.722	.265	.050 - .075	.730	.287	.050 - .075	.736	.318	.015 - .030
.708	.354	.050 - .060	.710	.526	.010 - .025	.718	.131	.030 - .050	**.722**	**.268**	**.005 - .010**	**.730**	**.401**	**.005 - .010**	.736	.380	.020 - .030
.708	**.375**	**.005 - .010**	.710	.530	.070 - .090	.718	.160	.048 - .062	.722	.314	.050 - .075	**.730**	**.415**	**.005 - .010**	.736	.386	.040 - .060
.708	**.393**	**.005 - .020**	.710	.533	.050 - .070	.718	.189	.015 - .030	.722	.320	.050 - .080	.730	.433	.025 - .040	**.736**	**.467**	**.005 - .010**
.708	.394	.050 - .070	.710	.575	.040 - .060	**.718**	**.205**	**.005 - .010**	.722	.324	.030 - .050	.730	.460	.010 - .020	.736	.504	.007 - .016
.708	.404	.050 - .070	.710	.578	.040 - .060	.718	.213	.015 - .030	.722	.376	.100 - .125	.730	.475	.020 - .040	.736	.516	.030 - .050
.708	.413	.080 - .100	**.710**	**.589**	**.005 - .030**	.718	.252	.010 - .025	.722	.481	.050 - .060	.730	.480	.050 - .070	**.736**	**.565**	**.005 - .010**
.708	.415	.025 - .040	**.710**	**.620**	**.005 - .010**	.718	.257	.025 - .040	.722	.500	.072 - .090	.730	.486	.020 - .040	.736	.578	.015 - .025
.708	.478	.080 - .090	**.711**	**.160**	**.005 - .010**	.718	.262	.020 - .040	.722	.515	.010 - .020	.730	.492	.030 - .050	.736	.595	.040 - .062
.708	**.512**	**.005 - .040**	**.711**	**.168**	**.005 - .010**	.718	.282	.062 - .083	.722	.540	.078 - .090	.730	.506	.040 - .060	.736	.601	.015 - .030
.708	.550	.020 - .036	**.711**	**.320**	**.005 - .010**	.718	.313	.015 - .030	.722	.636	.010 - .020	.730	.519	.050 - .070	.736	.633	.015 - .030
.708	.551	.045 - .060	.711	.407	.020 - .050	**.718**	**.353**	**.005 - .010**	**.723**	**.221**	**.005 - .040**	**.730**	**.571**	**.005 - .010**	.736	.650	.025 - .040
.708	.575	.010 - .025	.711	.485	.040 - .060	.718	.375	.030 - .060	.723	.314	.040 - .060	.730	.615	.020 - .030	.737	.318	.015 - .025
.708	**.630**	**.005 - .010**	.711	.486	.040 - .060	.718	.378	.025 - .050	.723	.382	.030 - .060	.730	.630	.030 - .042	.737	.330	.040 - .060
.708	**.632**	**.005 - .010**	.711	.526	.015 - .025	**.718**	**.380**	**.005 - .090**	**.723**	**.632**	**.005 - .010**	.731	.206	.030 - .050	**.737**	**.364**	**.005 - .010**
.708	.636	.015 - .030	.712	.177	.020 - .032	.718	.395	.010 - .020	.723	.637	.010 - .020	.731	.410	.070 - .090	.737	.419	.030 - .060
.708	**.637**	**.005 - .020**	**.712**	**.200**	**.005 - .015**	**.718**	**.398**	**.005 - .010**	.724	.173	.030 - .050	**.731**	**.416**	**.005 - .080**	.737	.436	.040 - .050
.708	**.641**	**.005 - .010**	**.712**	**.234**	**.005 - .010**	**.718**	**.406**	**.005 - .010**	.724	.201	.020 - .040	.731	.426	.010 - .020	.737	.503	.060 - .083
.709	**.145**	**.005 - .010**	**.712**	**.236**	**.005 - .010**	.718	.408	.030 - .050	.724	.382	.020 - .040	.731	.433	.030 - .050	**.737**	**.505**	**.005 - .070**
.709	.149	.030 - .060	.712	.246	.080 - .105	.718	.438	.090 - .125	.724	.508	.025 - .040	.731	.453	.100 - .120	.737	.537	.030 - .050
.709	**.177**	**.005 - .010**	**.712**	**.252**	**.005 - .010**	**.718**	**.464**	**.005 - .010**	.724	.519	.020 - .040	.731	.482	.020 - .040	**.737**	**.546**	**.005 - .010**
.709	.181	.060 - .080	**.712**	**.505**	**.005 - .010**	.718	.465	.060 - .070	**.724**	**.570**	**.005 - .010**	**.731**	**.564**	**.005 - .010**	.737	.550	.025 - .040
.709	**.239**	**.005 - .020**	.712	.525	.040 - .060	**.718**	**.487**	**.005 - .010**	.725	.089	.062 - .078	**.731**	**.585**	**.005 - .010**	.738	.342	.042 - .060
.709	**.243**	**.005 - .010**	.712	.530	.030 - .050	.718	.518	.020 - .040	.725	.128	.040 - .060	.732	.043	.010 - .020	**.738**	**.346**	**.005 - .010**
.709	.253	.160 - .180	.712	.567	.015 - .030	**.718**	**.562**	**.005 - .040**	.725	.160	.020 - .040	.732	.159	.070 - .090	.738	.538	.015 - .030
.709	.259	.040 - .060	**.712**	**.646**	**.005 - .010**	**.718**	**.585**	**.005 - .010**	.725	.187	.060 - .090	.732	.163	.015 - .030	.738	.540	.015 - .025
.709	**.313**	**.005 - .110**	.713	.116	.050 - .070	.718	.593	.015 - .020	.725	.296	.100 - .125	**.732**	**.165**	**.005 - .010**	**.738**	**.544**	**.005 - .010**
.709	**.314**	**.005 - .010**	.713	.199	.015 - .030	**.718**	**.595**	**.005 - .010**	**.725**	**.339**	**.005 - .030**	.732	.199	.042 - .080	.738	.594	.015 - .030
.709	**.316**	**.005 - .030**	.713	.206	.080 - .100	.718	.600	.045 - .060	**.725**	**.346**	**.005 - .010**	.732	.253	.010 - .015	**.738**	**.595**	**.005 - .010**
.709	**.317**	**.005 - .010**	.713	.400	.015 - .025	.718	.638	.006 - .030	.725	.458	.010 - .020	.732	.263	.040 - .062	.739	.222	.040 - .060
.709	**.320**	**.005 - .010**	**.713**	**.410**	**.005 - .010**	.719	.132	.030 - .050	.725	.540	.050 - .070	.732	.281	.050 - .075	.739	.305	.010 - .020
.709	**.321**	**.005 - .010**	.713	.437	.060 - .075	.719	.196	.040 - .060	.725	.548	.020 - .040	**.732**	**.290**	**.005 - .010**	.739	.333	.050 - .070
.709	**.322**	**.005 - .010**	.713	.540	.040 - .060	.719	.198	.015 - .030	.726	.183	.050 - .070	**.732**	**.330**	**.005 - .060**	.739	.407	.060 - .080
.709	.327	.040 - .060	.713	.595	.010 - .020	**.719**	**.237**	**.005 - .010**	.726	.304	.010 - .020	.732	.443	.015 - .030	.739	.431	.070 - .090
.709	.347	.050 - .070	**.713**	**.672**	**.005 - .010**	.719	.240	.015 - .030	.726	.315	.020 - .030	.732	.475	.008 - .015	.739	.505	.015 - .030
.709	.352	.015 - .030	.714	.101	.020 - .030	.719	.254	.008 - .016	**.726**	**.325**	**.005 - .010**	.732	.502	.025 - .042	**.739**	**.519**	**.005 - .010**
.709	**.386**	**.005 - .010**	.714	.111	.020 - .030	.719	.324	.015 - .030	**.726**	**.343**	**.005 - .010**	.732	.550	.040 - .050	.739	.522	.015 - .030
.709	.392	.010 - .020	.714	.118	.020 - .030	.719	.329	.080 - .100	.726	.375	.105 - .125	.733	.159	.070 - .090	.739	.565	.015 - .030
.709	.394	.010 - .050	.714	.125	.020 - .030	.719	.374	.010 - .015	**.726**	**.388**	**.005 - .010**	.733	.389	.010 - .020	**.739**	**.576**	**.005 - .010**
.709	**.395**	**.005 - .020**	.714	.140	.020 - .030	**.719**	**.378**	**.005 - .010**	.726	.406	.030 - .050	.733	.435	.030 - .050	.739	.605	.040 - .060
.709	**.397**	**.005 - .020**	**.714**	**.182**	**.005 - .010**	.719	.380	.070 - .090	.726	.439	.020 - .040	.733	.515	.050 - .070	**.739**	**.632**	**.005 - .010**
.709	.399	.010 - .020	.714	.223	.050 - .070	.719	.395	.040 - .060	**.726**	**.632**	**.005 - .010**	.733	.650	.010 - .015	**.739**	**.634**	**.005 - .010**
.709	**.437**	**.005 - .050**	.714	.299	.020 - .030	.719	.439	.080 - .105	.727	.257	.020 - .040	.734	.162	.015 - .030	.739	.656	.025 - .040
.709	.455	.090 - .105	.714	.390	.048 - .072	.719	.441	.070 - .090	**.727**	**.397**	**.005 - .010**	**.734**	**.187**	**.005 - .010**	.740	.143	.070 - .080
.709	**.472**	**.005 - .050**	.714	.414	.040 - .060	.719	.453	.050 - .070	**.727**	**.448**	**.005 - .010**	.734	.192	.080 - .125	**.740**	**.160**	**.005 - .010**
.709	.474	.010 - .020	.714	.555	.050 - .075	.719	.468	.020 - .040	.727	.480	.040 - .050	.734	.198	.070 - .090	**.740**	**.200**	**.005 - .010**
.709	.475	.040 - .060	.715	.198	.030 - .078	.719	.543	.040 - .060	.727	.500	.015 - .030	.734	.203	.040 - .080	**.740**	**.206**	**.005 - .010**
.709	**.476**	**.005 - .010**	.715	.199	.060 - .083	.719	.555	.040 - .060	.727	.512	.010 - .020	.734	.258	.040 - .060	.740	.250	.120 - .135
.709	.482	.070 - .090	.715	.315	.090 - .104	.720	.254	.020 - .035	.727	.570	.040 - .060	.734	.260	.032 - .050	**.740**	**.318**	**.005 - .010**
.709	**.483**	**.005 - .010**	**.715**	**.330**	**.005 - .012**	**.720**	**.259**	**.005 - .010**	.727	.576	.015 - .035	.734	.316	.010 - .020	.740	.330	.070 - .080
.709	.492	.030 - .050	.715	.366	.020 - .040	.720	.281	.156 - .187	.727	.586	.015 - .030	.734	.376	.030 - .050	.740	.341	.050 - .070

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O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
.740	.344	.020 - .030	.744	.383	.035 - .050	**.746**	**.500**	**.005 - .012**	.748	.563	.015 - .030	**.749**	**.669**	**.005 - .010**	.750	.288	.015 - .030
.740	.352	.020 - .040	**.744**	**.388**	**.005 - .010**	**.746**	**.521**	**.005 - .010**	**.748**	**.570**	**.005 - .012**				.750	.291	.100 - .125
.740	.377	.050 - .093	.744	.403	.031 - .048	**.746**	**.531**	**.005 - .020**	.748	.573	.012 - .020				.750	.293	.100 - .125
.740	.380	.030 - .125	.744	.409	.050 - .070	.746	.533	.030 - .050	**.748**	**.582**	**.005 - .010**				.750	.295	.015 - .030
.740	**.386**	**.005 - .010**	.744	.413	.105 - .125	.746	.565	.075 - .090	.748	.626	.040 - .060				.750	.299	.010 - .020
.740	**.390**	**.005 - .050**	**.744**	**.430**	**.005 - .010**	.746	.579	.025 - .048	.748	.629	.010 - .020				.750	.303	.060 - .080
.740	**.391**	**.005 - .010**	.744	.438	.040 - .060	.746	.608	.050 - .070	.748	.632	.015 - .030				.750	.312	.035 - .050
.740	.410	.105 - .125	.744	.449	.060 - .080	**.746**	**.621**	**.005 - .010**	**.748**	**.634**	**.005 - .030**				.750	.313	.020 - .135
.740	.412	.062 - .075	.744	.450	.050 - .075	.746	.634	.010 - .020	.748	.635	.015 - .025				.750	.315	.025 - .190
.740	**.439**	**.005 - .010**	**.744**	**.500**	**.005 - .012**	**.746**	**.670**	**.005 - .010**	.748	.644	.025 - .040				.750	.316	.007 - .125
.740	.440	.010 - .020	**.744**	**.504**	**.005 - .010**	.747	.131	.025 - .040	**.748**	**.670**	**.005 - .015**	.750	.063	.025 - .048	**.750**	**.317**	**.005 - .030**
.740	.453	.020 - .040	.744	.507	.040 - .075	.747	.143	.030 - .050	**.748**	**.693**	**.005 - .010**	**.750**	**.069**	**.005 - .010**	**.750**	**.318**	**.005 - .015**
.740	**.489**	**.005 - .080**	.744	.525	.040 - .050	.747	.214	.065 - .080	.749	.064	.030 - .050	**.750**	**.078**	**.005 - .010**	.750	.319	.040 - .100
.740	.501	.008 - .015	.744	.532	.010 - .020	**.747**	**.235**	**.005 - .010**	.749	.087	.015 - .030	.750	.090	.010 - .015	.750	.320	.015 - .025
.740	.502	.080 - .100	**.744**	**.561**	**.005 - .010**	.747	.261	.015 - .025	.749	.160	.008 - .016	.750	.096	.060 - .090	**.750**	**.321**	**.005 - .010**
.740	.510	.040 - .060	**.744**	**.599**	**.005 - .012**	**.747**	**.268**	**.005 - .010**	.749	.161	.060 - .090	.750	.102	.015 - .025	.750	.325	.125 - .156
.740	**.571**	**.005 - .010**	**.745**	**.095**	**.005 - .010**	**.747**	**.315**	**.005 - .010**	.749	.181	.060 - .090	**.750**	**.118**	**.005 - .010**	.750	.326	.025 - .040
.740	**.603**	**.005 - .010**	.745	.120	.015 - .040	.747	.316	.030 - .040	.749	.190	.010 - .020	.750	.125	.012 - .025	.750	.327	.062 - .090
.740	**.626**	**.005 - .010**	.745	.126	.032 - .050	.747	.317	.040 - .060	.749	.194	.090 - .125	**.750**	**.126**	**.005 - .010**	.750	.329	.070 - .090
.740	**.628**	**.005 - .010**	.745	.143	.035 - .055	.747	.324	.020 - .030	.749	.200	.020 - .042	**.750**	**.128**	**.005 - .010**	.750	.330	.025 - .040
.740	**.631**	**.005 - .010**	.745	.184	.010 - .020	.747	.376	.010 - .020	.749	.203	.125 - .156	.750	.129	.090 - .104	**.750**	**.331**	**.005 - .010**
.740	**.659**	**.005 - .010**	.745	.190	.040 - .060	.747	.377	.010 - .015	**.749**	**.204**	**.005 - .060**	.750	.133	.030 - .050	**.750**	**.333**	**.005 - .010**
.740	.660	.020 - .030	.745	.191	.025 - .035	.747	.380	.008 - .016	.749	.220	.105 - .135	**.750**	**.134**	**.005 - .010**	.750	.337	.042 - .072
.740	**.691**	**.005 - .010**	.745	.193	.020 - .060	.747	.395	.010 - .020	.749	.221	.040 - .060	.750	.143	.015 - .030	.750	.344	.075 - .100
.740	.696	.010 - .020	.745	.200	.050 - .070	.747	.397	.105 - .125	.749	.229	.160 - .187	.750	.146	.010 - .078	**.750**	**.345**	**.005 - .125**
.741	.201	.015 - .025	.745	.214	.015 - .030	.747	.468	.030 - .050	**.749**	**.237**	**.005 - .010**	**.750**	**.147**	**.005 - .015**	.750	.350	.072 - .090
.741	.203	.060 - .080	.745	.234	.040 - .060	.747	.475	.008 - .012	.749	.238	.010 - .020	.750	.149	.010 - .020	**.750**	**.354**	**.005 - .010**
.741	.261	.156 - .187	**.745**	**.244**	**.005 - .010**	**.747**	**.478**	**.005 - .015**	.749	.252	.025 - .040	**.750**	**.150**	**.005 - .020**	.750	.356	.070 - .080
.741	.291	.015 - .025	.745	.255	.032 - .050	**.747**	**.491**	**.005 - .010**	.749	.257	.072 - .120	**.750**	**.155**	**.005 - .010**	.750	.359	.015 - .125
.741	.296	.015 - .030	.745	.265	.050 - .125	.747	.508	.100 - .125	.749	.258	.030 - .040	.750	.156	.025 - .075	.750	.362	.050 - .075
.741	.322	.050 - .075	.745	.316	.060 - .070	.747	.510	.015 - .030	.749	.263	.030 - .050	.750	.161	.090 - .100	**.750**	**.364**	**.005 - .010**
.741	.378	.050 - .080	.745	.317	.105 - .135	.747	.517	.010 - .020	.749	.268	.060 - .090	.750	.165	.060 - .080	.750	.374	.010 - .020
.741	.395	.025 - .040	.745	.320	.080 - .105	.747	.561	.010 - .025	**.749**	**.272**	**.005 - .010**	.750	.166	.025 - .035	**.750**	**.375**	**.005 - .010**
.741	.412	.080 - .105	.745	.330	.015 - .030	.747	.566	.050 - .070	.749	.286	.105 - .120	**.750**	**.171**	**.005 - .010**	**.750**	**.376**	**.005 - .125**
.741	.505	.060 - .083	.745	.389	.050 - .070	**.747**	**.618**	**.005 - .010**	**.749**	**.313**	**.005 - .040**	.750	.172	.010 - .020	**.750**	**.377**	**.005 - .010**
.741	.515	.040 - .060	.745	.403	.050 - .060	**.747**	**.651**	**.005 - .010**	**.749**	**.315**	**.005 - .010**	.750	.184	.030 - .050	**.750**	**.378**	**.005 - .125**
.741	.529	.010 - .020	.745	.422	.090 - .100	.747	.691	.015 - .025	**.749**	**.316**	**.005 - .010**	**.750**	**.186**	**.005 - .015**	.750	.378	.126 - .187
.741	.531	.050 - .070	.745	.438	.020 - .036	.748	.066	.015 - .030	**.749**	**.322**	**.005 - .010**	.750	.188	.060 - .083	.750	.379	.015 - .040
.741	.563	.030 - .050	.745	.451	.010 - .020	.748	.136	.031 - .042	.749	.323	.105 - .125	**.750**	**.189**	**.005 - .104**	.750	.381	.048 - .062
.741	.570	.020 - .040	.745	.455	.032 - .050	.748	.139	.020 - .042	.749	.330	.060 - .090	.750	.190	.015 - .125	.750	.382	.020 - .040
.741	**.640**	**.005 - .010**	**.745**	**.468**	**.005 - .012**	.748	.147	.062 - .075	.749	.347	.020 - .035	.750	.191	.050 - .075	.750	.383	.060 - .083
.741	**.690**	**.005 - .010**	**.745**	**.509**	**.005 - .010**	.748	.173	.032 - .050	**.749**	**.350**	**.005 - .010**	.750	.192	.050 - .070	**.750**	**.384**	**.005 - .020**
.742	**.149**	**.005 - .010**	.745	.510	.020 - .040	.748	.180	.008 - .016	**.749**	**.351**	**.005 - .010**	.750	.193	.010 - .075	**.750**	**.385**	**.005 - .010**
.742	.226	.075 - .100	.745	.541	.010 - .025	.748	.201	.060 - .090	**.749**	**.364**	**.005 - .010**	.750	.194	.042 - .062	.750	.387	.050 - .080
.742	.251	.040 - .060	.745	.558	.010 - .020	**.748**	**.237**	**.005 - .010**	.749	.375	.025 - .040	**.750**	**.195**	**.005 - .125**	.750	.388	.025 - .040
.742	.346	.020 - .030	**.745**	**.560**	**.005 - .010**	**.748**	**.238**	**.005 - .010**	.749	.379	.036 - .060	**.750**	**.197**	**.005 - .010**	.750	.389	.050 - .070
.742	.360	.050 - .060	.745	.562	.020 - .030	.748	.239	.050 - .070	**.749**	**.386**	**.005 - .010**	.750	.198	.025 - .105	.750	.390	.007 - .105
.742	.378	.080 - .104	**.745**	**.571**	**.005 - .010**	.748	.241	.040 - .060	**.749**	**.387**	**.005 - .010**	.750	.200	.030 - .060	.750	.391	.050 - .070
.742	.380	.030 - .050	.745	.576	.042 - .060	.748	.249	.050 - .075	**.749**	**.395**	**.005 - .010**	.750	.203	.030 - .050	.750	.394	.100 - .125
.742	.387	.100 - .135	.745	.591	.030 - .050	**.748**	**.252**	**.005 - .010**	.749	.397	.015 - .025	.750	.204	.050 - .070	.750	.395	.020 - .050
.742	.389	.042 - .062	**.745**	**.599**	**.005 - .010**	.748	.254	.060 - .090	.749	.402	.100 - .120	.750	.206	.070 - .090	.750	.396	.060 - .070
.742	.426	.050 - .070	**.745**	**.605**	**.005 - .010**	**.748**	**.255**	**.005 - .010**	**.749**	**.403**	**.005 - .008**	.750	.209	.030 - .050	.750	.400	.020 - .040
.742	.443	.025 - .060	.745	.626	.040 - .060	.748	.259	.008 - .016	**.749**	**.408**	**.005 - .010**	.750	.213	.105 - .125	.750	.402	.042 - .060
.742	.466	.060 - .075	.745	.661	.010 - .015	**.748**	**.315**	**.005 - .010**	.749	.424	.040 - .060	**.750**	**.218**	**.005 - .010**	.750	.406	.010 - .030
.742	.474	.080 - .100	.745	.693	.010 - .020	**.748**	**.316**	**.005 - .125**	.749	.437	.042 - .060	.750	.223	.125 - .156	.750	.407	.120 - .134
.742	.502	.060 - .070	.746	.100	.032 - .050	.748	.316	.126 - .190	.749	.438	.010 - .020	**.750**	**.229**	**.005 - .010**	.750	.411	.060 - .070
.742	**.517**	**.005 - .030**	.746	.125	.015 - .030	**.748**	**.317**	**.005 - .010**	**.749**	**.440**	**.005 - .070**	.750	.232	.050 - .075	**.750**	**.413**	**.005 - .015**
.742	.566	.025 - .040	.746	.166	.050 - .075	**.748**	**.319**	**.005 - .010**	**.749**	**.445**	**.005 - .015**	**.750**	**.236**	**.005 - .030**	**.750**	**.415**	**.005 - .010**
.742	.593	.025 - .040	.746	.200	.060 - .080	**.748**	**.322**	**.005 - .010**	**.749**	**.468**	**.005 - .010**	.750	.242	.030 - .050	.750	.419	.080 - .100
.742	.671	.010 - .020	.746	.203	.030 - .050	.748	.328	.105 - .134	.749	.471	.050 - .070	**.750**	**.250**	**.005 - .062**	.750	.420	.105 - .125
.743	.144	.070 - .090	.746	.204	.070 - .090	.748	.331	.015 - .030	.749	.474	.050 - .070	**.750**	**.251**	**.005 - .030**	**.750**	**.426**	**.005 - .010**
.743	.271	.050 - .075	.746	.253	.040 - .060	.748	.357	.070 - .090	.749	.499	.020 - .080	**.750**	**.252**	**.005 - .080**	**.750**	**.437**	**.005 - .010**
.743	**.390**	**.005 - .010**	**.746**	**.260**	**.005 - .010**	**.748**	**.376**	**.005 - .010**	**.749**	**.503**	**.005 - .010**	.750	.253	.025 - .040	.750	.438	.040 - .062
.743	**.417**	**.005 - .010**	**.746**	**.285**	**.005 - .010**	.748	.377	.156 - .187	.749	.504	.090 - .120	**.750**	**.254**	**.005 - .100**	.750	.439	.010 - .020
.743	.475	.040 - .050	**.746**	**.316**	**.005 - .030**	.748	.384	.020 - .040	.749	.507	.008 - .016	.750	.256	.040 - .060	.750	.440	.080 - .104
.743	.488	.060 - .080	.746	.318	.078 - .090	**.748**	**.385**	**.005 - .010**	**.749**	**.517**	**.005 - .010**	.750	.257	.090 - .120	.750	.441	.060 - .090
.743	.520	.070 - .090	.746	.319	.040 - .060	.748	.393	.060 - .080	**.749**	**.528**	**.005 - .010**	**.750**	**.259**	**.005 - .032**	**.750**	**.442**	**.005 - .090**
.743	**.531**	**.005 - .010**	.746	.379	.040 - .060	**.748**	**.397**	**.005 - .010**	**.749**	**.531**	**.005 - .010**	.750	.260	.090 - .125	.750	.444	.015 - .030
.743	**.541**	**.005 - .010**	.746	.386	.060 - .070	**.748**	**.400**	**.005 - .010**	.749	.562	.010 - .020	.750	.261	.040 - .080	.750	.445	.030 - .050
.743	**.556**	**.005 - .008**	.746	.390	.006 - .010	**.748**	**.451**	**.005 - .010**	**.749**	**.563**	**.005 - .010**	**.750**	**.264**	**.005 - .104**	.750	.446	.015 - .030
.743	.572	.040 - .060	.746	.393	.110 - .130	.748	.461	.010 - .020	.749	.575	.040 - .060	.750	.265	.050 - .120	**.750**	**.448**	**.005 - .010**
.743	**.596**	**.005 - .010**	.746	.395	.030 - .050	**.748**	**.462**	**.005 - .010**	.749	.594	.010 - .020	.750	.266	.072 - .135	.750	.450	.025 - .042
.743	.600	.010 - .080	**.746**	**.405**	**.005 - .010**	**.748**	**.473**	**.005 - .015**	.749	.595	.035 - .062	.750	.267	.010 - .025	.750	.451	.036 - .050
.743	.623	.010 - .020	.746	.437	.042 - .060	.748	.501	.090 - .105	**.749**	**.609**	**.005 - .010**	.750	.268	.010 - .080	.750	.454	.042 - .125
.743	.630	.016 - .025	**.746**	**.438**	**.005 - .010**	.748	.503	.010 - .040	.749	.620	.015 - .030	**.750**	**.270**	**.005 - .010**	.750	.457	.070 - .090
.744	.187	.100 - .120	.746	.445	.040 - .060	.748	.504	.050 - .070	.749	.626	.040 - .060	**.750**	**.277**	**.005 - .010**	.750	.468	.010 - .125
.744	.215	.030 - .050	.746	.455	.010 - .020	.748	.507	.020 - .036	.749	.633	.010 - .020	**.750**	**.281**	**.005 - .078**	.750	.470	.020 - .040
.744	.236	.010 - .020	.746	.469	.030 - .060	.748	.511	.010 - .020	.749	.640	.030 - .060	.750	.282	.105 - .135	.750	.472	.016 - .025
.744	.262	.015 - .030	.746	.480	.015 - .090	.748	.513	.070 - .090	**.749**	**.644**	**.005 - .010**	.750	.283	.170 - .190	.750	.476	.060 - .080
.744	.370	.015 - .030	.746	.499	.020 - .040	**.748**	**.553**	**.005 - .010**	.749	.650	.040 - .050	.750	.285	.015 - .135	**.750**	**.477**	**.005 - .010**

.750

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

For a size NOT listed, send specs or phone for quote — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
.750	.478	.100 - .125	.751	.272	.100 - .125	.752	.624	.050 - .070	.760	.624	.020 - .030	**.771**	**.700**	**.005 - .010**	.780	.380	.080 - .105
.750	.480	.030 - .050	.751	.296	.050 - .070	.752	.697	.010 - .020	**.760**	**.664**	**.005 - .010**	.772	.188	.020 - .040	.780	.390	.080 - .104
.750	.491	.015 - .030	**.751**	**.303**	**.005 - .010**	.753	.133	.075 - .090	.760	.675	.010 - .020	.772	.250	.040 - .060	.780	.391	.080 - .100
.750	.496	.040 - .060	.751	.315	.015 - .030	.753	.276	.010 - .020	**.761**	**.141**	**.005 - .015**	.772	.265	.060 - .070	**.780**	**.403**	**.005 - .010**
.750	.499	.100 - .125	.751	.322	.050 - .075	.753	.318	.050 - .070	**.761**	**.184**	**.005 - .015**	**.772**	**.404**	**.005 - .010**	.780	.408	.030 - .050
.750	**.500**	**.005 - .060**	.751	.325	.015 - .030	.753	.330	.110 - .130	.761	.561	.030 - .050	.772	.412	.050 - .060	.780	.420	.060 - .080
.750	**.502**	**.005 - .100**	.751	.331	.075 - .093	.753	.337	.100 - .125	**.762**	**.250**	**.005 - .010**	.772	.671	.010 - .020	.780	.422	.015 - .040
.750	**.503**	**.005 - .020**	**.751**	**.332**	**.005 - .010**	.753	.375	.100 - .125	.762	.445	.040 - .060	**.773**	**.126**	**.005 - .010**	.780	.425	.010 - .020
.750	.504	.015 - .025	.751	.335	.090 - .125	.753	.381	.134 - .187	**.762**	**.616**	**.005 - .010**	.773	.238	.062 - .080	.780	.460	.030 - .060
.750	.505	.025 - .105	.751	.343	.025 - .040	.753	.384	.050 - .070	**.763**	**.503**	**.005 - .010**	.773	.370	.060 - .080	**.780**	**.484**	**.005 - .010**
.750	**.506**	**.005 - .020**	**.751**	**.361**	**.005 - .010**	.753	.405	.050 - .072	**.763**	**.660**	**.005 - .010**	.773	.480	.015 - .030	.780	.498	.080 - .104
.750	**.509**	**.005 - .010**	**.751**	**.376**	**.005 - .015**	**.753**	**.409**	**.005 - .010**	.764	.315	.050 - .075	.773	.579	.090 - .100	.780	.500	.015 - .030
.750	.510	.010 - .020	.751	.379	.040 - .060	.753	.472	.100 - .120	.764	.528	.060 - .080	.773	.656	.020 - .040	.780	.503	.006 - .012
.750	.511	.030 - .060	**.751**	**.380**	**.005 - .020**	.753	.477	.020 - .040	**.764**	**.707**	**.005 - .010**	.773	.677	.040 - .050	**.780**	**.510**	**.005 - .030**
.750	**.512**	**.005 - .075**	.751	.387	.105 - .125	.753	.484	.025 - .050	.765	.117	.040 - .062	**.773**	**.692**	**.005 - .010**	.780	.511	.030 - .050
.750	.513	.010 - .075	.751	.395	.020 - .030	.753	.526	.030 - .060	.765	.222	.030 - .050	.774	.251	.050 - .070	.780	.520	.007 - .015
.750	.514	.100 - .125	.751	.400	.050 - .080	**.753**	**.527**	**.005 - .010**	.765	.265	.100 - .125	.774	.556	.050 - .070	.780	.527	.075 - .090
.750	.517	.030 - .050	.751	.420	.110 - .130	.753	.609	.025 - .050	**.765**	**.285**	**.005 - .010**	.774	.605	.010 - .020	.780	.529	.025 - .040
.750	.522	.010 - .020	**.751**	**.435**	**.005 - .010**	**.753**	**.627**	**.005 - .015**	.765	.293	.040 - .060	.774	.634	.010 - .020	.780	.552	.040 - .060
.750	.525	.050 - .070	**.751**	**.437**	**.005 - .010**	**.753**	**.629**	**.005 - .010**	.765	.312	.050 - .062	**.774**	**.705**	**.005 - .010**	.780	.562	.031 - .048
.750	.530	.040 - .105	.751	.438	.050 - .070	**.754**	**.253**	**.005 - .010**	.765	.331	.025 - .040	.775	.228	.050 - .072	.780	.566	.030 - .050
.750	.531	.010 - .020	.751	.440	.050 - .070	.754	.265	.030 - .060	.765	.348	.025 - .035	.775	.231	.042 - .062	**.780**	**.579**	**.005 - .015**
.750	.532	.020 - .125	.751	.448	.050 - .070	**.754**	**.393**	**.005 - .010**	**.765**	**.406**	**.005 - .010**	**.775**	**.252**	**.005 - .010**	.780	.591	.060 - .090
.750	.533	.050 - .070	.751	.455	.010 - .020	.754	.428	.048 - .062	**.765**	**.508**	**.005 - .010**	.775	.324	.100 - .125	**.780**	**.593**	**.005 - .010**
.750	.536	.040 - .060	.751	.463	.050 - .070	.754	.460	.105 - .125	.765	.528	.050 - .060	.775	.335	.015 - .030	.780	.598	.050 - .070
.750	.540	.040 - .050	.751	.470	.075 - .090	.754	.469	.040 - .060	.765	.533	.015 - .030	.775	.368	.080 - .090	.780	.627	.020 - .030
.750	.545	.015 - .030	**.751**	**.499**	**.005 - .025**	.754	.509	.030 - .050	.765	.565	.010 - .020	**.775**	**.379**	**.005 - .012**	.780	.640	.030 - .070
.750	**.549**	**.005 - .010**	.751	.500	.050 - .070	.754	.532	.080 - .105	.765	.625	.050 - .070	.775	.428	.025 - .040	**.780**	**.658**	**.005 - .010**
.750	.550	.020 - .030	**.751**	**.503**	**.005 - .110**	**.755**	**.222**	**.005 - .010**	.766	.505	.030 - .050	**.775**	**.457**	**.005 - .010**	.780	.672	.015 - .030
.750	.551	.010 - .020	.751	.504	.010 - .080	**.755**	**.281**	**.005 - .010**	.766	.518	.050 - .070	.775	.464	.048 - .070	.780	.684	.025 - .040
.750	.562	.040 - .060	.751	.505	.010 - .105	.755	.335	.170 - .190	.766	.535	.080 - .100	.775	.469	.080 - .100	**.780**	**.685**	**.005 - .012**
.750	.563	.010 - .060	.751	.506	.015 - .025	.755	.378	.060 - .080	.766	.557	.025 - .040	.775	.500	.075 - .090	.781	.111	.025 - .040
.750	**.564**	**.005 - .060**	.751	.508	.020 - .030	.755	.385	.025 - .042	.766	.585	.015 - .030	.775	.525	.100 - .125	.781	.142	.010 - .020
.750	.565	.010 - .040	.751	.513	.090 - .120	**.755**	**.393**	**.005 - .010**	.766	.610	.030 - .050	.775	.555	.020 - .030	.781	.172	.010 - .020
.750	.566	.012 - .020	.751	.515	.025 - .040	.755	.513	.030 - .040	**.766**	**.676**	**.005 - .010**	.775	.560	.070 - .090	.781	.280	.156 - .190
.750	.569	.050 - .062	.751	.516	.008 - .060	**.755**	**.520**	**.005 - .010**	.767	.073	.025 - .040	**.775**	**.643**	**.005 - .030**	**.781**	**.316**	**.005 - .010**
.750	.582	.030 - .050	.751	.521	.048 - .060	.755	.532	.020 - .040	.767	.084	.015 - .030	.776	.196	.015 - .030	.781	.317	.010 - .030
.750	**.584**	**.005 - .010**	**.751**	**.524**	**.005 - .010**	.755	.533	.010 - .020	.767	.224	.090 - .110	.776	.197	.020 - .035	**.781**	**.335**	**.005 - .050**
.750	**.590**	**.005 - .010**	**.751**	**.563**	**.005 - .040**	.755	.552	.030 - .040	.767	.301	.100 - .125	.776	.240	.025 - .040	.781	.402	.010 - .020
.750	**.595**	**.005 - .020**	.751	.594	.010 - .020	**.755**	**.554**	**.005 - .010**	.767	.315	.020 - .040	.776	.283	.030 - .050	.781	.430	.048 - .062
.750	**.625**	**.005 - .050**	.751	.600	.030 - .050	**.755**	**.586**	**.005 - .010**	**.767**	**.429**	**.005 - .010**	**.776**	**.386**	**.005 - .010**	.781	.448	.015 - .030
.750	.626	.015 - .030	**.751**	**.606**	**.005 - .010**	**.756**	**.230**	**.005 - .010**	.767	.563	.020 - .040	.776	.432	.070 - .090	**.781**	**.485**	**.005 - .010**
.750	**.630**	**.005 - .060**	**.751**	**.626**	**.005 - .025**	.756	.258	.075 - .100	.767	.576	.030 - .050	.776	.598	.050 - .070	.781	.488	.050 - .060
.750	**.632**	**.005 - .010**	**.751**	**.633**	**.005 - .010**	.756	.375	.040 - .050	.767	.588	.015 - .030	.776	.646	.020 - .040	**.781**	**.501**	**.005 - .015**
.750	**.634**	**.005 - .020**	**.751**	**.634**	**.005 - .010**	**.756**	**.395**	**.005 - .010**	**.767**	**.699**	**.005 - .010**	.776	.653	.040 - .050	.781	.518	.040 - .060
.750	.639	.015 - .030	.751	.639	.010 - .015	.756	.408	.020 - .035	.768	.235	.040 - .060	**.777**	**.150**	**.005 - .010**	.781	.531	.008 - .012
.750	.640	.010 - .020	.751	.650	.010 - .020	.756	.500	.010 - .020	.768	.378	.110 - .130	.777	.328	.156 - .187	.781	.557	.020 - .040
.750	.645	.010 - .020	.752	.143	.090 - .120	**.756**	**.564**	**.005 - .010**	.768	.415	.050 - .070	.777	.392	.020 - .030	.781	.600	.015 - .030
.750	.650	.025 - .040	.752	.145	.100 - .125	.756	.570	.020 - .030	.768	.416	.050 - .070	.777	.421	.025 - .040	.781	.605	.032 - .050
.750	.651	.040 - .060	.752	.150	.090 - .105	**.757**	**.139**	**.005 - .010**	.768	.471	.010 - .020	**.777**	**.572**	**.005 - .010**	.781	.621	.040 - .060
.750	**.679**	**.005 - .010**	.752	.181	.080 - .104	**.757**	**.243**	**.005 - .020**	.768	.530	.010 - .030	.777	.613	.050 - .070	.781	.625	.050 - .075
.750	.691	.010 - .020	**.752**	**.186**	**.005 - .010**	**.757**	**.279**	**.005 - .015**	.768	.545	.020 - .040	.778	.221	.010 - .015	.781	.627	.040 - .060
.750	.692	.015 - .025	.752	.196	.040 - .060	.757	.387	.060 - .125	.769	.202	.050 - .070	.778	.261	.060 - .070	**.781**	**.628**	**.005 - .010**
.750	.700	.010 - .020	.752	.212	.030 - .060	.757	.400	.040 - .060	.769	.240	.050 - .070	.778	.266	.062 - .075	.781	.629	.025 - .060
.750	.705	.010 - .020	**.752**	**.250**	**.005 - .010**	.757	.468	.030 - .050	**.769**	**.256**	**.005 - .035**	.778	.363	.070 - .090	.781	.640	.060 - .070
.751	.105	.010 - .020	.752	.269	.100 - .135	.757	.470	.020 - .040	.769	.395	.070 - .090	.778	.386	.030 - .050	.782	.368	.010 - .020
.751	.126	.030 - .050	**.752**	**.303**	**.005 - .012**	.757	.563	.010 - .020	.769	.399	.135 - .156	.778	.408	.020 - .040	.782	.437	.090 - .105
.751	.129	.050 - .070	.752	.315	.104 - .135	**.758**	**.234**	**.005 - .010**	.770	.141	.025 - .040	.778	.435	.120 - .135	.782	.440	.015 - .030
.751	.140	.080 - .100	.752	.317	.010 - .020	.758	.310	.015 - .030	.770	.211	.040 - .060	.778	.534	.062 - .078	.782	.442	.070 - .090
.751	.168	.040 - .060	**.752**	**.319**	**.005 - .030**	.758	.394	.040 - .060	**.770**	**.248**	**.005 - .010**	.779	.190	.030 - .050	.782	.482	.070 - .090
.751	.170	.040 - .060	.752	.320	.050 - .070	.758	.608	.050 - .075	.770	.375	.040 - .060	.779	.264	.025 - .040	.782	.500	.030 - .060
.751	**.184**	**.005 - .010**	**.752**	**.322**	**.005 - .010**	**.759**	**.462**	**.005 - .010**	.770	.377	.040 - .060	.779	.270	.060 - .090	.782	.513	.030 - .050
.751	.187	.010 - .020	**.752**	**.340**	**.005 - .010**	**.759**	**.606**	**.005 - .010**	.770	.384	.020 - .040	.779	.323	.015 - .030	.782	.517	.080 - .100
.751	.188	.060 - .083	.752	.357	.050 - .070	**.759**	**.694**	**.005 - .010**	.770	.385	.015 - .030	.779	.378	.090 - .105	.782	.530	.093 - .103
.751	**.190**	**.005 - .010**	.752	.375	.062 - .075	.760	.032	.020 - .032	.770	.430	.030 - .050	.779	.395	.032 - .060	**.782**	**.542**	**.005 - .010**
.751	.194	.090 - .125	.752	.379	.090 - .110	.760	.126	.015 - .030	.770	.474	.030 - .040	.779	.422	.030 - .050	.782	.546	.010 - .020
.751	.200	.042 - .062	.752	.380	.090 - .120	.760	.150	.020 - .040	.770	.524	.040 - .060	.779	.439	.015 - .030	.782	.562	.060 - .083
.751	**.204**	**.005 - .010**	.752	.388	.050 - .070	.760	.256	.080 - .104	**.770**	**.525**	**.005 - .010**	.779	.476	.100 - .125	.782	.563	.010 - .020
.751	.205	.060 - .080	**.752**	**.389**	**.005 - .010**	.760	.260	.030 - .062	.770	.531	.050 - .060	.779	.492	.050 - .060	**.782**	**.699**	**.005 - .010**
.751	.206	.040 - .075	.752	.406	.060 - .083	.760	.269	.040 - .060	.770	.536	.015 - .030	.779	.568	.010 - .020	.783	.062	.030 - .050
.751	.218	.020 - .050	.752	.431	.090 - .125	.760	.322	.050 - .070	.770	.571	.025 - .040	**.779**	**.579**	**.005 - .010**	.783	.254	.050 - .070
.751	.229	.015 - .030	.752	.461	.008 - .012	**.760**	**.330**	**.005 - .010**	**.770**	**.664**	**.005 - .010**	.779	.632	.030 - .060	.783	.270	.070 - .080
.751	**.239**	**.005 - .010**	.752	.475	.030 - .050	.760	.385	.040 - .060	.770	.680	.035 - .045	**.779**	**.633**	**.005 - .010**	.783	.278	.010 - .020
.751	.242	.080 - .105	.752	.502	.008 - .012	.760	.471	.050 - .070	.770	.711	.015 - .030	.779	.640	.040 - .060	.783	.320	.050 - .070
.751	.244	.050 - .070	.752	.504	.010 - .050	.760	.482	.040 - .060	**.771**	**.380**	**.005 - .010**	**.779**	**.680**	**.005 - .010**	.783	.453	.080 - .104
.751	.250	.080 - .140	.752	.505	.015 - .030	.760	.508	.105 - .120	.771	.474	.050 - .070	.779	.700	.010 - .020	**.783**	**.488**	**.005 - .010**
.751	.255	.050 - .070	**.752**	**.516**	**.005 - .015**	.760	.565	.020 - .040	.771	.511	.105 - .125	.780	.051	.025 - .035	.783	.500	.030 - .050
.751	.257	.050 - .070	.752	.555	.040 - .070	.760	.571	.070 - .090	.771	.554	.010 - .020	.780	.190	.040 - .060	.783	.513	.025 - .040
.751	**.265**	**.005 - .015**	.752	.564	.050 - .070	**.760**	**.579**	**.005 - .008**	**.771**	**.606**	**.005 - .010**	.780	.267	.062 - .090	**.783**	**.604**	**.005 - .010**
.751	.266	.032 - .050	.752	.591	.060 - .090	.760	.592	.020 - .035	.771	.639	.050 - .060	.780	.306	.015 - .030	.783	.630	.060 - .080

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

Call BOKER'S for precision stamping, assembly, and secondary operations.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
.783	.635	.050 - .070	**.787**	**.424**	**.005 - .010**	.790	.441	.020 - .040	**.798**	**.578**	**.005 - .090**	**.800**	**.639**	**.005 - .010**	**.807**	**.283**	**.005 - .010**
.783	**.645**	**.005 - .020**	.787	.433	.010 - .020	.790	.450	.030 - .042	.798	.624	.070 - .090	.800	.641	.016 - .025	.807	.389	.050 - .070
.783	**.646**	**.005 - .010**	**.787**	**.453**	**.005 - .010**	.790	.452	.030 - .060	.798	.632	.010 - .020	.800	.645	.025 - .040	.807	.445	.040 - .060
.783	.656	.048 - .062	.787	.472	.030 - .050	.790	.478	.025 - .045	**.798**	**.656**	**.005 - .010**	.800	.654	.040 - .060	.807	.531	.080 - .090
.784	.592	.015 - .030	**.787**	**.473**	**.005 - .010**	.790	.500	.050 - .072	.798	.711	.010 - .020	.800	.659	.010 - .020	**.807**	**.534**	**.005 - .010**
.784	.599	.030 - .050	.787	.475	.010 - .020	.790	.515	.020 - .040	**.799**	**.252**	**.005 - .010**	**.800**	**.670**	**.005 - .020**	**.807**	**.625**	**.005 - .010**
.784	.601	.030 - .050	.787	.477	.050 - .070	.790	.550	.030 - .042	.799	.360	.170 - .190	**.800**	**.672**	**.005 - .010**	.807	.629	.020 - .040
.784	.612	.020 - .030	.787	.480	.020 - .030	.790	.565	.040 - .060	.799	.397	.010 - .020	**.800**	**.675**	**.005 - .010**	.807	.638	.015 - .030
.785	.170	.042 - .062	.787	.490	.120 - .130	.790	.586	.015 - .025	.799	.401	.030 - .050	**.800**	**.677**	**.005 - .010**	.807	.640	.010 - .020
.785	.238	.006 - .010	**.787**	**.525**	**.005 - .010**	.790	.623	.050 - .070	**.799**	**.439**	**.005 - .010**	**.800**	**.678**	**.005 - .010**	.807	.670	.050 - .070
.785	**.343**	**.005 - .010**	.787	.530	.030 - .050	.790	.642	.010 - .040	**.799**	**.471**	**.005 - .010**	**.800**	**.679**	**.005 - .010**	.807	.690	.015 - .030
.785	**.357**	**.005 - .010**	**.787**	**.547**	**.005 - .010**	.790	.650	.030 - .042	.799	.472	.030 - .050	**.800**	**.680**	**.005 - .010**	.807	.745	.020 - .031
.785	.392	.110 - .130	**.787**	**.551**	**.005 - .030**	.790	.694	.040 - .060	.799	.492	.080 - .100	.800	.711	.010 - .040	**.808**	**.228**	**.005 - .015**
.785	**.406**	**.005 - .010**	**.787**	**.556**	**.005 - .010**	.790	.728	.010 - .020	**.799**	**.500**	**.005 - .010**	.801	.148	.010 - .020	.808	.231	.060 - .080
.785	.417	.050 - .070	**.787**	**.577**	**.005 - .010**	.791	.056	.015 - .030	.799	.501	.010 - .020	.801	.255	.030 - .060	.808	.317	.015 - .030
.785	.450	.050 - .070	**.787**	**.603**	**.005 - .010**	.791	.323	.050 - .070	.799	.505	.025 - .040	.801	.321	.040 - .050	.808	.375	.105 - .125
.785	.475	.015 - .050	**.787**	**.610**	**.005 - .080**	.791	.400	.010 - .020	.799	.580	.050 - .075	.801	.332	.080 - .104	.808	.413	.060 - .080
.785	.482	.100 - .125	.787	.630	.030 - .050	.791	.401	.025 - .040	**.799**	**.596**	**.005 - .010**	.801	.345	.075 - .102	.808	.414	.025 - .040
.785	.512	.060 - .080	**.787**	**.631**	**.005 - .010**	.791	.531	.010 - .020	.799	.629	.015 - .025	.801	.376	.015 - .030	**.808**	**.471**	**.005 - .010**
.785	.520	.090 - .105	.787	.648	.025 - .040	**.791**	**.635**	**.005 - .010**	**.799**	**.653**	**.005 - .010**	.801	.400	.025 - .040	.808	.478	.020 - .040
.785	**.523**	**.005 - .020**	**.787**	**.661**	**.005 - .010**	.791	.674	.010 - .020	**.799**	**.671**	**.005 - .010**	**.801**	**.439**	**.005 - .010**	**.808**	**.532**	**.005 - .010**
.785	.530	.030 - .050	.787	.677	.010 - .020	.792	.317	.062 - .083	**.799**	**.673**	**.005 - .010**	**.801**	**.490**	**.005 - .010**	.808	.620	.015 - .030
.785	.548	.042 - .062	.787	.680	.060 - .080	.792	.420	.020 - .030	**.799**	**.674**	**.005 - .010**	.801	.502	.015 - .025	.808	.626	.015 - .030
.785	**.569**	**.005 - .010**	**.787**	**.697**	**.005 - .010**	.792	.485	.025 - .040	**.799**	**.694**	**.005 - .010**	**.801**	**.505**	**.005 - .010**	.808	.692	.030 - .050
.785	**.594**	**.005 - .010**	.788	.128	.010 - .020	.792	.517	.010 - .020	**.799**	**.701**	**.005 - .010**	.801	.596	.015 - .025	.809	.094	.030 - .050
.785	**.656**	**.005 - .010**	.788	.218	.040 - .060	**.792**	**.606**	**.005 - .010**	**.800**	**.076**	**.005 - .010**	.801	.598	.015 - .030	.809	.096	.015 - .032
.785	.696	.010 - .020	**.788**	**.227**	**.005 - .010**	.792	.672	.010 - .020	.800	.190	.020 - .040	.801	.629	.040 - .060	**.809**	**.099**	**.005 - .015**
.786	.157	.015 - .030	.788	.237	.080 - .100	.792	.695	.015 - .030	.800	.194	.050 - .070	.801	.650	.010 - .020	.809	.157	.050 - .070
.786	.198	.015 - .030	.788	.243	.030 - .050	.793	.256	.010 - .020	.800	.200	.025 - .040	**.801**	**.657**	**.005 - .010**	.809	.250	.020 - .030
.786	.253	.070 - .090	.788	.317	.010 - .020	.793	.386	.050 - .060	.800	.222	.065 - .080	**.801**	**.674**	**.005 - .010**	.809	.257	.030 - .050
.786	**.257**	**.005 - .010**	**.788**	**.322**	**.005 - .010**	.793	.438	.080 - .100	.800	.225	.040 - .060	.801	.696	.060 - .070	.809	.288	.070 - .090
.786	**.300**	**.005 - .010**	.788	.355	.010 - .020	.793	.439	.060 - .090	.800	.250	.020 - .030	.802	.257	.060 - .080	.809	.321	.025 - .042
.786	.316	.090 - .135	**.788**	**.376**	**.005 - .010**	.793	.441	.020 - .040	.800	.252	.008 - .015	.802	.261	.040 - .062	.809	.336	.050 - .070
.786	**.382**	**.005 - .010**	.788	.394	.125 - .156	.793	.471	.025 - .048	.800	.253	.040 - .060	.802	.346	.020 - .035	**.809**	**.377**	**.005 - .010**
.786	.396	.040 - .060	**.788**	**.395**	**.005 - .010**	.793	.505	.025 - .040	.800	.254	.025 - .040	.802	.387	.050 - .075	**.809**	**.385**	**.005 - .010**
.786	.436	.050 - .070	**.788**	**.397**	**.005 - .015**	.793	.575	.032 - .050	**.800**	**.256**	**.005 - .010**	.802	.408	.100 - .110	.809	.414	.070 - .090
.786	.443	.100 - .120	**.788**	**.403**	**.005 - .030**	**.794**	**.285**	**.005 - .010**	.800	.315	.010 - .020	.802	.453	.025 - .040	.809	.475	.070 - .090
.786	.446	.040 - .060	.788	.414	.020 - .040	.794	.420	.090 - .110	**.800**	**.316**	**.005 - .010**	.802	.516	.040 - .060	.809	.483	.032 - .042
.786	.452	.010 - .020	**.788**	**.440**	**.005 - .010**	.794	.477	.135 - .160	.800	.320	.105 - .125	**.802**	**.596**	**.005 - .010**	**.809**	**.504**	**.005 - .010**
.786	**.474**	**.005 - .010**	**.788**	**.452**	**.005 - .010**	.794	.552	.070 - .090	.800	.327	.020 - .040	.802	.611	.025 - .040	**.809**	**.508**	**.005 - .010**
.786	**.477**	**.005 - .010**	.788	.473	.010 - .020	**.795**	**.116**	**.005 - .010**	.800	.345	.075 - .104	.802	.622	.020 - .030	.809	.570	.050 - .070
.786	.484	.040 - .050	.788	.476	.030 - .050	**.795**	**.159**	**.005 - .010**	**.800**	**.370**	**.005 - .012**	**.802**	**.701**	**.005 - .010**	.809	.601	.020 - .040
.786	.502	.010 - .020	.788	.478	.030 - .050	.795	.170	.090 - .125	**.800**	**.377**	**.005 - .010**	.802	.704	.025 - .040	**.809**	**.625**	**.005 - .010**
.786	**.505**	**.005 - .020**	.788	.483	.070 - .090	**.795**	**.175**	**.005 - .010**	**.800**	**.378**	**.005 - .078**	**.802**	**.752**	**.005 - .008**	**.810**	**.057**	**.005 - .010**
.786	.515	.010 - .020	.788	.487	.040 - .060	.795	.187	.030 - .050	.800	.379	.010 - .020	.803	.261	.050 - .075	.810	.116	.015 - .032
.786	.531	.020 - .030	.788	.488	.040 - .050	.795	.197	.008 - .016	.800	.380	.040 - .060	.803	.264	.010 - .020	.810	.142	.040 - .060
.786	**.535**	**.005 - .030**	.788	.512	.060 - .090	.795	.267	.048 - .062	.800	.387	.020 - .040	.803	.345	.080 - .105	.810	.150	.040 - .060
.786	.556	.040 - .060	.788	.521	.048 - .062	.795	.281	.040 - .060	**.800**	**.397**	**.005 - .010**	.803	.422	.015 - .030	.810	.166	.025 - .040
.786	.572	.050 - .070	**.788**	**.545**	**.005 - .010**	**.795**	**.340**	**.005 - .012**	**.800**	**.398**	**.005 - .010**	.803	.517	.105 - .125	**.810**	**.185**	**.005 - .010**
.786	.594	.010 - .020	.788	.555	.040 - .060	.795	.392	.010 - .020	.800	.426	.105 - .135	**.803**	**.569**	**.005 - .010**	.810	.192	.050 - .062
.786	.598	.030 - .050	.788	.566	.080 - .100	.795	.427	.090 - .105	**.800**	**.437**	**.005 - .010**	.803	.715	.010 - .025	.810	.198	.030 - .050
.786	.626	.030 - .050	.788	.596	.030 - .050	.795	.482	.030 - .050	.800	.439	.030 - .050	.804	.134	.050 - .072	.810	.210	.025 - .042
.786	.631	.030 - .050	.788	.697	.010 - .015	.795	.509	.030 - .060	**.800**	**.440**	**.005 - .010**	.804	.191	.060 - .080	.810	.218	.100 - .125
.786	.680	.010 - .020	**.788**	**.715**	**.005 - .010**	.795	.551	.010 - .020	.800	.441	.010 - .020	**.804**	**.313**	**.005 - .010**	.810	.250	.062 - .078
.787	.129	.030 - .050	.788	.716	.010 - .020	.795	.577	.090 - .105	**.800**	**.442**	**.005 - .010**	.804	.330	.050 - .072	.810	.255	.090 - .125
.787	.141	.040 - .060	.789	.114	.025 - .040	**.795**	**.634**	**.005 - .010**	.800	.464	.040 - .060	.804	.409	.100 - .125	.810	.315	.020 - .040
.787	.142	.030 - .060	**.789**	**.221**	**.005 - .010**	.795	.655	.030 - .040	.800	.490	.030 - .050	**.804**	**.602**	**.005 - .010**	**.810**	**.355**	**.005 - .050**
.787	.161	.050 - .070	.789	.255	.010 - .020	**.795**	**.680**	**.005 - .040**	.800	.502	.010 - .020	**.805**	**.312**	**.005 - .010**	**.810**	**.379**	**.005 - .090**
.787	.203	.040 - .060	.789	.262	.040 - .050	.795	.730	.025 - .035	**.800**	**.504**	**.005 - .030**	.805	.564	.090 - .110	.810	.385	.080 - .105
.787	.208	.070 - .080	.789	.312	.042 - .060	.795	.731	.030 - .040	**.800**	**.505**	**.005 - .010**	.805	.573	.060 - .080	**.810**	**.395**	**.005 - .010**
.787	.228	.052 - .072	**.789**	**.316**	**.005 - .010**	**.796**	**.286**	**.005 - .010**	**.800**	**.508**	**.005 - .010**	**.805**	**.632**	**.005 - .010**	.810	.405	.060 - .080
.787	**.238**	**.005 - .010**	**.789**	**.326**	**.005 - .010**	.796	.290	.025 - .040	.800	.510	.020 - .040	**.805**	**.656**	**.005 - .010**	**.810**	**.413**	**.005 - .012**
.787	.256	.010 - .020	.789	.354	.060 - .080	.796	.353	.030 - .040	**.800**	**.528**	**.005 - .010**	**.805**	**.672**	**.005 - .010**	.810	.419	.062 - .078
.787	.257	.025 - .060	**.789**	**.438**	**.005 - .010**	.796	.397	.050 - .070	.800	.530	.030 - .050	.805	.692	.010 - .020	**.810**	**.443**	**.005 - .010**
.787	**.279**	**.005 - .010**	.789	.478	.050 - .080	.796	.509	.040 - .060	**.800**	**.544**	**.005 - .010**	**.806**	**.209**	**.005 - .010**	.810	.455	.060 - .093
.787	**.315**	**.005 - .020**	**.789**	**.498**	**.005 - .010**	**.796**	**.520**	**.005 - .012**	.800	.550	.060 - .075	.806	.262	.040 - .060	.810	.475	.025 - .042
.787	**.317**	**.005 - .010**	.789	.543	.010 - .020	.796	.521	.030 - .060	**.800**	**.551**	**.005 - .010**	**.806**	**.300**	**.005 - .010**	**.810**	**.480**	**.005 - .010**
.787	**.318**	**.005 - .010**	.789	.630	.010 - .020	.796	.525	.010 - .020	**.800**	**.557**	**.005 - .010**	**.806**	**.350**	**.005 - .010**	.810	.501	.080 - .100
.787	**.319**	**.005 - .010**	.790	.175	.050 - .070	.796	.579	.040 - .060	**.800**	**.558**	**.005 - .015**	.806	.378	.060 - .083	.810	.507	.010 - .025
.787	.324	.015 - .030	.790	.250	.032 - .042	.796	.602	.025 - .040	.800	.560	.070 - .090	.806	.407	.030 - .050	.810	.514	.080 - .125
.787	**.329**	**.005 - .010**	**.790**	**.319**	**.005 - .010**	**.796**	**.610**	**.005 - .070**	.800	.574	.050 - .060	.806	.469	.030 - .050	.810	.522	.040 - .060
.787	.355	.135 - .156	**.790**	**.320**	**.005 - .010**	.796	.630	.030 - .040	.800	.575	.025 - .040	.806	.631	.020 - .040	.810	.533	.025 - .050
.787	.380	.015 - .030	.790	.350	.025 - .048	**.797**	**.349**	**.005 - .010**	**.800**	**.582**	**.005 - .010**	**.806**	**.636**	**.005 - .010**	.810	.543	.020 - .040
.787	**.392**	**.005 - .010**	.790	.375	.015 - .030	**.797**	**.413**	**.005 - .010**	**.800**	**.594**	**.005 - .010**	.806	.641	.060 - .083	.810	.545	.020 - .040
.787	**.395**	**.005 - .010**	.790	.377	.020 - .040	.797	.561	.020 - .040	**.800**	**.618**	**.005 - .010**	.806	.650	.050 - .070	**.810**	**.551**	**.005 - .010**
.787	**.397**	**.005 - .010**	.790	.378	.040 - .050	.797	.691	.025 - .040	**.800**	**.619**	**.005 - .010**	**.806**	**.671**	**.005 - .010**	.810	.561	.120 - .140
.787	**.398**	**.005 - .020**	.790	.383	.075 - .090	.798	.312	.010 - .025	.800	.623	.050 - .075	.806	.691	.020 - .040	**.810**	**.564**	**.005 - .015**
.787	.399	.070 - .080	.790	.423	.025 - .040	.798	.351	.010 - .020	**.800**	**.626**	**.005 - .010**	**.806**	**.692**	**.005 - .010**	.810	.565	.025 - .050
.787	.400	.040 - .060	.790	.438	.020 - .040	**.798**	**.378**	**.005 - .010**	.800	.628	.025 - .080	.807	.117	.015 - .030	.810	.569	.020 - .040
.787	.410	.060 - .080	.790	.440	.010 - .020	**.798**	**.487**	**.005 - .010**	.800	.631	.010 - .020	.807	.222	.015 - .030	.810	.600	.040 - .060

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

New tools added continually. Call for sizes not listed — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
.810	**.646**	**.005 - .010**	.812	.641	.015 - .080	**.818**	**.549**	**.005 - .010**	.826	.250	.040 - .050	.833	.730	.030 - .042	**.842**	**.764**	**.005 - .010**
.810	**.652**	**.005 - .010**	.812	.647	.015 - .025	.818	.591	.090 - .110	.826	.314	.030 - .050	.833	.770	.010 - .020	.843	.142	.010 - .020
.810	**.675**	**.005 - .010**	.812	.650	.040 - .060	.818	.644	.010 - .020	.826	.319	.030 - .050	.834	.462	.020 - .040	.843	.210	.040 - .060
.810	.690	.010 - .020	.812	.655	.020 - .030	.818	.690	.040 - .060	.826	.359	.105 - .125	**.834**	**.562**	**.005 - .010**	**.843**	**.260**	**.005 - .010**
.810	**.703**	**.005 - .010**	.812	.675	.020 - .040	.818	.720	.025 - .040	.826	.401	.010 - .020	.834	.590	.030 - .050	.843	.390	.070 - .090
.810	.706	.025 - .042	.812	.687	.050 - .070	.819	.065	.025 - .040	.826	.414	.025 - .040	.834	.596	.030 - .050	.843	.453	.100 - .125
.810	**.723**	**.005 - .010**	.812	.697	.050 - .062	**.819**	**.174**	**.005 - .010**	.826	.536	.090 - .105	.835	.200	.020 - .035	**.843**	**.500**	**.005 - .010**
.811	**.116**	**.005 - .015**	**.812**	**.707**	**.005 - .010**	**.819**	**.250**	**.005 - .010**	.826	.620	.030 - .050	**.835**	**.221**	**.005 - .010**	.843	.559	.050 - .072
.811	.156	.030 - .050	.813	.156	.040 - .060	.819	.260	.010 - .020	.826	.711	.025 - .040	.835	.390	.040 - .060	**.843**	**.630**	**.005 - .010**
.811	.188	.040 - .060	.813	.162	.040 - .060	**.819**	**.531**	**.005 - .010**	.827	.187	.010 - .020	.835	.480	.010 - .020	.843	.656	.010 - .020
.811	.201	.040 - .060	.813	.194	.100 - .125	.819	.675	.025 - .040	**.827**	**.215**	**.005 - .010**	**.835**	**.570**	**.005 - .050**	.843	.689	.030 - .040
.811	.282	.050 - .070	.813	.272	.100 - .134	.819	.690	.020 - .035	**.827**	**.236**	**.005 - .010**	.835	.595	.010 - .020	.843	.782	.020 - .030
.811	.322	.030 - .050	**.813**	**.328**	**.005 - .010**	.819	.700	.040 - .060	**.827**	**.238**	**.005 - .010**	.835	.685	.030 - .060	.844	.099	.025 - .040
.811	**.333**	**.005 - .010**	.813	.350	.030 - .050	**.820**	**.090**	**.005 - .010**	**.827**	**.317**	**.005 - .125**	.835	.782	.020 - .030	**.844**	**.397**	**.005 - .010**
.811	.342	.135 - .187	.813	.380	.100 - .125	.820	.125	.015 - .030	.827	.328	.060 - .080	.836	.416	.010 - .020	.844	.555	.010 - .020
.811	.376	.040 - .060	.813	.406	.030 - .125	.820	.159	.105 - .135	.827	.331	.120 - .135	.836	.450	.040 - .060	.844	.610	.030 - .060
.811	.393	.010 - .020	.813	.407	.100 - .125	**.820**	**.198**	**.005 - .010**	.827	.332	.156 - .187	**.836**	**.680**	**.005 - .060**	.844	.666	.070 - .090
.811	.403	.060 - .070	**.813**	**.419**	**.005 - .010**	.820	.280	.060 - .075	**.827**	**.376**	**.005 - .010**	.836	.705	.032 - .060	**.844**	**.703**	**.005 - .010**
.811	.411	.010 - .020	**.813**	**.431**	**.005 - .010**	**.820**	**.310**	**.005 - .010**	**.827**	**.393**	**.005 - .010**	.837	.527	.040 - .060	.844	.711	.015 - .030
.811	.449	.100 - .125	.813	.435	.100 - .125	**.820**	**.315**	**.005 - .010**	.827	.407	.090 - .120	.837	.530	.048 - .075	.845	.163	.010 - .020
.811	.548	.070 - .090	.813	.441	.050 - .070	.820	.320	.040 - .060	**.827**	**.412**	**.005 - .010**	**.837**	**.591**	**.005 - .010**	.845	.313	.015 - .090
.811	.553	.040 - .060	.813	.450	.040 - .060	**.820**	**.340**	**.005 - .010**	.827	.415	.060 - .080	.837	.633	.025 - .040	**.845**	**.466**	**.005 - .010**
.811	.566	.025 - .050	**.813**	**.493**	**.005 - .010**	**.820**	**.348**	**.005 - .010**	**.827**	**.473**	**.005 - .010**	.837	.679	.025 - .040	**.845**	**.482**	**.005 - .010**
.811	.567	.042 - .062	.813	.494	.020 - .040	**.820**	**.380**	**.005 - .010**	.827	.509	.050 - .075	.838	.281	.032 - .060	.845	.495	.020 - .030
.811	**.568**	**.005 - .010**	.813	.496	.010 - .020	.820	.392	.010 - .020	**.827**	**.632**	**.005 - .010**	.838	.290	.050 - .075	.845	.497	.015 - .030
.811	.576	.026 - .052	.813	.500	.050 - .083	.820	.395	.050 - .075	**.827**	**.749**	**.005 - .010**	.838	.376	.015 - .030	.845	.513	.015 - .030
.811	.577	.025 - .042	.813	.504	.105 - .135	.820	.405	.135 - .160	**.828**	**.108**	**.005 - .010**	.838	.482	.031 - .048	.845	.651	.030 - .050
.811	.595	.035 - .060	.813	.510	.020 - .040	.820	.442	.025 - .040	.828	.317	.010 - .015	.838	.483	.050 - .075	.845	.660	.010 - .020
.811	**.623**	**.005 - .010**	.813	.562	.080 - .100	.820	.450	.012 - .025	.828	.407	.015 - .030	**.838**	**.508**	**.005 - .010**	**.845**	**.758**	**.005 - .035**
.811	**.630**	**.005 - .010**	**.813**	**.563**	**.005 - .020**	.820	.453	.015 - .025	.828	.447	.060 - .080	.838	.618	.040 - .060	**.845**	**.782**	**.005 - .010**
.811	**.656**	**.005 - .010**	.813	.597	.020 - .040	.820	.460	.030 - .040	**.828**	**.499**	**.005 - .008**	.838	.651	.010 - .020	.846	.242	.032 - .050
.811	.658	.020 - .030	.813	.631	.010 - .020	.820	.482	.070 - .090	.828	.502	.030 - .040	**.838**	**.665**	**.005 - .010**	**.846**	**.273**	**.005 - .010**
.812	.127	.025 - .040	.813	.634	.060 - .080	**.820**	**.500**	**.005 - .010**	**.828**	**.504**	**.005 - .020**	.838	.706	.015 - .020	.846	.320	.015 - .030
.812	.130	.015 - .030	.813	.659	.035 - .048	.820	.536	.050 - .070	**.828**	**.530**	**.005 - .010**	.839	.316	.015 - .030	**.846**	**.327**	**.005 - .010**
.812	.136	.040 - .060	**.813**	**.680**	**.005 - .030**	.820	.559	.050 - .075	.828	.590	.015 - .030	**.839**	**.502**	**.005 - .010**	.846	.455	.030 - .060
.812	**.141**	**.005 - .040**	**.813**	**.728**	**.005 - .010**	.820	.564	.100 - .125	**.828**	**.655**	**.005 - .010**	.839	.591	.010 - .015	.846	.456	.035 - .050
.812	.191	.020 - .040	.814	.412	.060 - .080	.820	.565	.100 - .125	**.828**	**.727**	**.005 - .010**	.839	.628	.050 - .070	**.846**	**.639**	**.005 - .040**
.812	**.192**	**.005 - .010**	.814	.522	.040 - .060	**.820**	**.566**	**.005 - .010**	.829	.137	.025 - .048	**.839**	**.652**	**.005 - .010**	.846	.658	.032 - .050
.812	.219	.062 - .075	.814	.532	.090 - .105	.820	.572	.105 - .125	.829	.250	.030 - .050	**.840**	**.165**	**.005 - .010**	.846	.662	.010 - .020
.812	.221	.080 - .100	.814	.598	.050 - .075	**.820**	**.600**	**.005 - .010**	.829	.283	.020 - .030	.840	.246	.104 - .125	.846	.663	.030 - .060
.812	.245	.020 - .036	.814	.628	.020 - .030	.820	.678	.010 - .020	.829	.414	.007 - .090	.840	.292	.020 - .040	.846	.670	.040 - .060
.812	.253	.080 - .104	.814	.637	.042 - .062	**.820**	**.698**	**.005 - .030**	.829	.430	.100 - .125	.840	.313	.105 - .125	.846	.697	.015 - .030
.812	**.255**	**.005 - .010**	**.814**	**.641**	**.005 - .010**	.820	.726	.015 - .025	.829	.468	.100 - .125	.840	.316	.015 - .030	**.846**	**.757**	**.005 - .010**
.812	.269	.050 - .070	.814	.751	.020 - .030	.821	.144	.032 - .048	.829	.475	.080 - .104	.840	.340	.010 - .025	.847	.193	.090 - .105
.812	.312	.040 - .060	.815	.129	.020 - .040	.821	.157	.030 - .040	.829	.480	.105 - .135	.840	.384	.010 - .025	**.847**	**.253**	**.005 - .010**
.812	.314	.025 - .042	.815	.221	.020 - .030	.821	.266	.010 - .020	**.829**	**.500**	**.005 - .010**	.840	.387	.015 - .030	**.847**	**.323**	**.005 - .010**
.812	.315	.015 - .030	.815	.255	.060 - .075	.821	.416	.100 - .125	.829	.503	.025 - .040	**.840**	**.390**	**.005 - .010**	**.847**	**.416**	**.005 - .010**
.812	.375	.150 - .180	.815	.260	.048 - .062	**.821**	**.596**	**.005 - .030**	.829	.648	.050 - .070	.840	.470	.060 - .083	**.847**	**.422**	**.005 - .010**
.812	.376	.156 - .190	.815	.281	.105 - .120	**.821**	**.625**	**.005 - .010**	.829	.653	.030 - .060	**.840**	**.503**	**.005 - .010**	**.847**	**.500**	**.005 - .010**
.812	.378	.050 - .083	**.815**	**.309**	**.005 - .010**	.821	.636	.060 - .080	.829	.761	.020 - .030	.840	.515	.025 - .040	**.847**	**.522**	**.005 - .010**
.812	.379	.025 - .032	.815	.439	.025 - .040	.821	.727	.030 - .048	.830	.160	.060 - .090	**.840**	**.535**	**.005 - .010**	**.847**	**.536**	**.005 - .010**
.812	.390	.031 - .060	**.815**	**.444**	**.005 - .012**	.822	.200	.020 - .030	.830	.187	.020 - .040	.840	.545	.100 - .135	.848	.067	.010 - .020
.812	.391	.080 - .100	.815	.468	.025 - .036	.822	.523	.060 - .080	**.830**	**.379**	**.005 - .035**	.840	.556	.032 - .040	.848	.199	.025 - .040
.812	.398	.015 - .135	.815	.500	.015 - .030	.822	.693	.050 - .070	.830	.405	.040 - .060	**.840**	**.558**	**.005 - .010**	**.848**	**.317**	**.005 - .010**
.812	.406	.075 - .090	.815	.527	.080 - .104	**.823**	**.407**	**.005 - .010**	.830	.461	.015 - .030	**.840**	**.569**	**.005 - .010**	**.848**	**.323**	**.005 - .020**
.812	.409	.050 - .090	.815	.555	.030 - .050	.823	.523	.070 - .090	.830	.475	.025 - .040	.840	.575	.060 - .070	.848	.472	.015 - .030
.812	.410	.060 - .070	.815	.556	.015 - .025	**.823**	**.755**	**.005 - .020**	**.830**	**.515**	**.005 - .010**	.840	.631	.030 - .060	.848	.492	.050 - .070
.812	.411	.105 - .125	.815	.578	.080 - .100	**.823**	**.756**	**.005 - .010**	.830	.530	.090 - .120	.840	.633	.007 - .015	**.848**	**.540**	**.005 - .010**
.812	.436	.100 - .125	.815	.669	.025 - .040	**.824**	**.321**	**.005 - .010**	.830	.556	.010 - .025	.840	.643	.075 - .090	.848	.610	.010 - .020
.812	.437	.015 - .030	.816	.439	.015 - .030	**.824**	**.333**	**.005 - .010**	.830	.564	.100 - .125	.840	.650	.048 - .062	.848	.685	.032 - .062
.812	.441	.032 - .048	.816	.456	.070 - .090	.824	.508	.050 - .070	.830	.565	.030 - .050	.840	.674	.010 - .020	.848	.750	.010 - .020
.812	.442	.062 - .075	**.816**	**.510**	**.005 - .012**	.824	.543	.025 - .040	.830	.590	.070 - .090	.840	.675	.015 - .030	.849	.151	.030 - .060
.812	.456	.104 - .125	.816	.520	.015 - .025	.824	.605	.042 - .062	.830	.605	.025 - .040	.840	.676	.020 - .035	.849	.386	.050 - .075
.812	.469	.030 - .050	.817	.319	.060 - .083	**.825**	**.238**	**.005 - .010**	.830	.628	.025 - .040	**.840**	**.680**	**.005 - .010**	.849	.401	.040 - .060
.812	.473	.015 - .020	.817	.321	.015 - .030	**.825**	**.317**	**.005 - .010**	.830	.632	.025 - .040	.840	.682	.015 - .030	**.849**	**.413**	**.005 - .010**
.812	**.501**	**.005 - .020**	.817	.455	.060 - .090	**.825**	**.319**	**.005 - .020**	.830	.636	.015 - .030	.840	.711	.020 - .040	**.849**	**.497**	**.005 - .010**
.812	.506	.060 - .080	.817	.505	.050 - .070	**.825**	**.399**	**.005 - .010**	.830	.649	.010 - .020	.840	.731	.030 - .050	**.849**	**.520**	**.005 - .010**
.812	.508	.015 - .025	**.817**	**.631**	**.005 - .010**	.825	.400	.015 - .030	.830	.693	.020 - .035	.840	.748	.015 - .025	**.849**	**.606**	**.005 - .010**
.812	.509	.050 - .075	**.817**	**.660**	**.005 - .010**	.825	.414	.105 - .125	**.830**	**.696**	**.005 - .010**	.841	.440	.025 - .040	.849	.631	.010 - .020
.812	.515	.042 - .060	**.817**	**.661**	**.005 - .010**	.825	.483	.040 - .060	.830	.711	.015 - .030	.841	.631	.030 - .050	**.850**	**.155**	**.005 - .010**
.812	.517	.030 - .040	.817	.690	.012 - .020	**.825**	**.511**	**.005 - .010**	**.831**	**.239**	**.005 - .010**	**.841**	**.651**	**.005 - .010**	.850	.174	.025 - .040
.812	.524	.050 - .070	**.817**	**.711**	**.005 - .010**	.825	.518	.070 - .080	.831	.584	.015 - .025	.841	.663	.015 - .030	.850	.175	.050 - .070
.812	.530	.032 - .042	.817	.750	.010 - .020	.825	.525	.010 - .020	**.831**	**.649**	**.005 - .010**	.841	.752	.010 - .020	.850	.180	.120 - .135
.812	.540	.010 - .020	.818	.264	.030 - .040	.825	.527	.090 - .125	.832	.461	.010 - .025	.842	.378	.025 - .042	.850	.200	.020 - .080
.812	**.561**	**.005 - .030**	.818	.317	.030 - .040	.825	.543	.015 - .030	.832	.520	.050 - .070	.842	.470	.050 - .070	.850	.240	.048 - .072
.812	.577	.020 - .040	.818	.321	.010 - .020	.825	.577	.020 - .040	**.832**	**.551**	**.005 - .010**	.842	.593	.080 - .095	.850	.250	.015 - .030
.812	.591	.020 - .030	**.818**	**.330**	**.005 - .010**	**.825**	**.624**	**.005 - .015**	**.832**	**.595**	**.005 - .010**	**.842**	**.631**	**.005 - .008**	.850	.251	.120 - .140
.812	**.592**	**.005 - .050**	.818	.391	.125 - .156	.825	.632	.030 - .040	**.832**	**.598**	**.005 - .010**	.842	.632	.010 - .020	**.850**	**.252**	**.005 - .010**
.812	.596	.025 - .040	.818	.432	.060 - .080	.825	.669	.020 - .030	.832	.751	.030 - .040	**.842**	**.690**	**.005 - .010**	**.850**	**.283**	**.005 - .010**
.812	.625	.015 - .025	**.818**	**.480**	**.005 - .010**	**.825**	**.709**	**.005 - .010**	**.833**	**.607**	**.005 - .010**	**.842**	**.729**	**.005 - .010**	.850	.302	.105 - .125

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

For non-metallic materials, contact BOKER'S — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
.850	.316	.090 - .105	.854	.583	.030 - .050	**.860**	**.338**	**.005 - .010**	.865	.398	.020 - .040	.867	.370	.025 - .040	.870	.393	.050 - .070
.850	.319	.060 - .080	**.854**	**.605**	**.005 - .010**	.860	.340	.020 - .030	.865	.412	.060 - .080	.867	.381	.030 - .060	.870	.394	.070 - .080
.850	.330	.020 - .040	**.854**	**.650**	**.005 - .010**	**.860**	**.384**	**.005 - .015**	**.865**	**.434**	**.005 - .010**	**.867**	**.387**	**.005 - .010**	.870	.421	.040 - .060
.850	**.340**	**.005 - .010**	**.854**	**.655**	**.005 - .010**	.860	.428	.100 - .125	**.865**	**.471**	**.005 - .010**	.867	.394	.010 - .020	.870	.437	.060 - .080
.850	.350	.080 - .104	.854	.808	.015 - .020	.860	.439	.020 - .035	.865	.476	.020 - .040	**.867**	**.398**	**.005 - .010**	.870	.440	.156 - .187
.850	.356	.010 - .020	**.855**	**.078**	**.005 - .010**	.860	.458	.010 - .020	**.865**	**.477**	**.005 - .010**	.867	.405	.090 - .105	.870	.450	.090 - .120
.850	**.374**	**.005 - .010**	.855	.130	.060 - .080	.860	.488	.010 - .020	.865	.479	.070 - .090	**.867**	**.413**	**.005 - .010**	.870	.459	.010 - .020
.850	**.377**	**.005 - .020**	.855	.229	.050 - .075	**.860**	**.496**	**.005 - .010**	.865	.492	.036 - .060	**.867**	**.452**	**.005 - .010**	.870	.461	.040 - .060
.850	**.378**	**.005 - .010**	.855	.242	.020 - .040	**.860**	**.512**	**.005 - .010**	.865	.493	.010 - .020	.867	.474	.090 - .110	**.870**	**.472**	**.005 - .010**
.850	.380	.030 - .040	.855	.327	.048 - .072	.860	.540	.040 - .060	.865	.551	.080 - .100	.867	.560	.040 - .060	.870	.502	.030 - .040
.850	**.382**	**.005 - .125**	.855	.331	.030 - .050	.860	.562	.015 - .030	.865	.553	.010 - .020	**.867**	**.566**	**.005 - .010**	.870	.505	.040 - .075
.850	.384	.100 - .125	**.855**	**.375**	**.005 - .062**	**.860**	**.563**	**.005 - .015**	**.865**	**.566**	**.005 - .010**	.867	.593	.015 - .030	.870	.508	.105 - .135
.850	**.433**	**.005 - .010**	.855	.503	.010 - .080	**.860**	**.592**	**.005 - .010**	.865	.570	.030 - .040	.867	.608	.080 - .120	**.870**	**.512**	**.005 - .010**
.850	.495	.015 - .025	.855	.509	.070 - .080	**.860**	**.600**	**.005 - .010**	.865	.597	.042 - .062	.867	.632	.025 - .040	.870	.520	.075 - .090
.850	.500	.015 - .025	**.855**	**.512**	**.005 - .010**	.860	.625	.050 - .070	.865	.626	.040 - .060	.867	.638	.012 - .020	**.870**	**.540**	**.005 - .010**
.850	**.502**	**.005 - .010**	.855	.531	.010 - .020	.860	.629	.030 - .050	**.865**	**.630**	**.005 - .010**	.867	.670	.015 - .030	.870	.541	.105 - .125
.850	**.503**	**.005 - .010**	**.855**	**.562**	**.005 - .010**	.860	.634	.020 - .030	**.865**	**.634**	**.005 - .070**	**.867**	**.688**	**.005 - .008**	**.870**	**.557**	**.005 - .010**
.850	.506	.020 - .040	**.855**	**.598**	**.005 - .010**	.860	.645	.040 - .060	**.865**	**.635**	**.005 - .010**	.867	.690	.010 - .020	**.870**	**.562**	**.005 - .060**
.850	**.509**	**.005 - .010**	.855	.599	.105 - .135	**.860**	**.676**	**.005 - .030**	.865	.650	.020 - .030	.867	.704	.025 - .040	.870	.567	.090 - .105
.850	**.510**	**.005 - .012**	.855	.651	.050 - .062	**.860**	**.691**	**.005 - .010**	.865	.672	.010 - .015	**.867**	**.709**	**.005 - .010**	.870	.578	.040 - .060
.850	**.513**	**.005 - .060**	.855	.691	.050 - .070	.860	.698	.030 - .050	**.865**	**.698**	**.005 - .010**	.867	.710	.010 - .030	.870	.580	.010 - .020
.850	.523	.040 - .060	.856	.088	.010 - .020	**.860**	**.705**	**.005 - .050**	**.865**	**.714**	**.005 - .010**	.867	.724	.040 - .060	.870	.581	.042 - .060
.850	.535	.050 - .075	**.856**	**.123**	**.005 - .010**	.860	.711	.025 - .040	.865	.715	.032 - .042	**.867**	**.753**	**.005 - .010**	.870	.608	.030 - .060
.850	**.566**	**.005 - .010**	.856	.265	.048 - .062	.860	.742	.030 - .050	.865	.755	.032 - .050	.867	.760	.015 - .030	**.870**	**.610**	**.005 - .012**
.850	.574	.060 - .080	.856	.286	.050 - .070	**.860**	**.750**	**.005 - .010**	**.865**	**.756**	**.005 - .010**	.867	.770	.030 - .050	.870	.625	.015 - .030
.850	.585	.010 - .020	.856	.380	.010 - .020	**.860**	**.757**	**.005 - .010**	**.865**	**.794**	**.005 - .010**	**.867**	**.794**	**.005 - .010**	.870	.628	.025 - .040
.850	.595	.090 - .105	.856	.443	.020 - .040	**.860**	**.767**	**.005 - .010**	.866	.157	.020 - .030	**.868**	**.237**	**.005 - .010**	**.870**	**.629**	**.005 - .010**
.850	.600	.010 - .020	.856	.616	.025 - .040	**.860**	**.778**	**.005 - .010**	.866	.197	.080 - .100	**.868**	**.238**	**.005 - .010**	.870	.632	.010 - .050
.850	**.612**	**.005 - .010**	.856	.628	.060 - .080	.860	.785	.010 - .020	**.866**	**.236**	**.005 - .020**	.868	.315	.015 - .060	**.870**	**.639**	**.005 - .010**
.850	.625	.060 - .080	.856	.650	.010 - .020	.861	.499	.030 - .050	.866	.239	.030 - .050	**.868**	**.317**	**.005 - .010**	.870	.640	.030 - .060
.850	**.627**	**.005 - .010**	.856	.671	.010 - .020	.861	.527	.040 - .060	.866	.276	.030 - .040	**.868**	**.442**	**.005 - .010**	**.870**	**.647**	**.005 - .010**
.850	.630	.015 - .020	**.856**	**.688**	**.005 - .010**	.861	.601	.030 - .050	**.866**	**.299**	**.005 - .020**	.868	.462	.030 - .050	.870	.649	.015 - .030
.850	.635	.015 - .030	.856	.689	.030 - .050	.861	.620	.060 - .080	**.866**	**.315**	**.005 - .020**	**.868**	**.473**	**.005 - .010**	.870	.650	.040 - .060
.850	.650	.070 - .080	.856	.734	.010 - .020	**.861**	**.636**	**.005 - .010**	**.866**	**.316**	**.005 - .010**	**.868**	**.477**	**.005 - .010**	.870	.682	.015 - .075
.850	**.664**	**.005 - .030**	**.857**	**.312**	**.005 - .010**	.861	.638	.050 - .070	**.866**	**.317**	**.005 - .010**	.868	.513	.015 - .025	.870	.687	.050 - .062
.850	.673	.015 - .030	**.857**	**.409**	**.005 - .010**	.861	.689	.030 - .050	**.866**	**.318**	**.005 - .010**	.868	.521	.100 - .134	**.870**	**.691**	**.005 - .010**
.850	.711	.015 - .030	.857	.555	.015 - .025	.861	.749	.015 - .020	**.866**	**.319**	**.005 - .010**	.868	.527	.010 - .020	**.870**	**.695**	**.005 - .010**
.850	.731	.020 - .040	.857	.640	.025 - .040	**.861**	**.763**	**.005 - .010**	**.866**	**.322**	**.005 - .010**	.868	.563	.080 - .100	.870	.711	.025 - .040
.850	**.735**	**.005 - .030**	.857	.665	.010 - .020	.862	.256	.050 - .072	.866	.325	.090 - .105	.868	.606	.015 - .030	**.870**	**.728**	**.005 - .010**
.850	.750	.010 - .020	.857	.692	.030 - .050	.862	.295	.040 - .070	.866	.336	.070 - .080	.868	.607	.015 - .030	**.870**	**.744**	**.005 - .010**
.850	.809	.010 - .020	.858	.352	.100 - .125	.862	.312	.025 - .042	.866	.350	.025 - .040	.868	.610	.090 - .125	**.870**	**.754**	**.005 - .012**
.851	**.093**	**.005 - .010**	.858	.564	.030 - .060	.862	.407	.015 - .025	**.866**	**.394**	**.005 - .020**	**.868**	**.620**	**.005 - .010**	.870	.755	.042 - .062
.851	.164	.050 - .070	.858	.596	.030 - .050	.862	.427	.020 - .030	.866	.395	.010 - .020	.868	.627	.080 - .105	.870	.761	.020 - .030
.851	**.173**	**.005 - .010**	.858	.619	.050 - .070	.862	.472	.050 - .060	**.866**	**.396**	**.005 - .010**	.868	.641	.040 - .060	.870	.810	.015 - .025
.851	.184	.040 - .090	**.858**	**.626**	**.005 - .010**	.862	.518	.090 - .125	**.866**	**.397**	**.005 - .015**	.868	.664	.060 - .080	.871	.211	.050 - .070
.851	.185	.060 - .090	**.858**	**.630**	**.005 - .010**	.862	.529	.050 - .075	.866	.401	.105 - .125	.868	.665	.010 - .030	.871	.381	.030 - .110
.851	.384	.104 - .134	.858	.649	.030 - .050	.862	.538	.015 - .030	**.866**	**.416**	**.005 - .010**	**.868**	**.687**	**.005 - .010**	.871	.383	.060 - .070
.851	.385	.010 - .020	.858	.650	.008 - .020	.862	.572	.060 - .075	**.866**	**.439**	**.005 - .010**	**.868**	**.689**	**.005 - .010**	.871	.410	.030 - .050
.851	**.401**	**.005 - .010**	.858	.653	.025 - .040	.862	.680	.020 - .032	**.866**	**.444**	**.005 - .010**	.868	.719	.070 - .090	**.871**	**.455**	**.005 - .010**
.851	.421	.105 - .120	.858	.720	.030 - .050	.862	.692	.020 - .030	.866	.453	.030 - .040	.868	.736	.010 - .020	.871	.477	.060 - .090
.851	.450	.030 - .050	.858	.725	.040 - .060	.862	.751	.030 - .050	**.866**	**.473**	**.005 - .010**	.868	.751	.010 - .020	.871	.579	.010 - .020
.851	**.503**	**.005 - .010**	.858	.773	.010 - .020	.863	.272	.062 - .078	**.866**	**.474**	**.005 - .020**	.868	.760	.025 - .040	.871	.581	.070 - .090
.851	.513	.040 - .060	.859	.064	.030 - .050	.863	.375	.025 - .040	.866	.475	.010 - .020	.869	.279	.105 - .135	**.871**	**.582**	**.005 - .010**
.851	.564	.030 - .050	.859	.171	.010 - .020	.863	.422	.090 - .120	.866	.484	.070 - .090	.869	.393	.020 - .035	**.871**	**.590**	**.005 - .010**
.851	**.571**	**.005 - .010**	.859	.265	.075 - .090	**.863**	**.505**	**.005 - .010**	.866	.496	.100 - .125	.869	.430	.125 - .187	.871	.673	.010 - .020
.851	**.640**	**.005 - .010**	**.859**	**.380**	**.005 - .015**	**.863**	**.531**	**.005 - .050**	.866	.500	.010 - .020	.869	.508	.050 - .070	.871	.675	.015 - .030
.851	**.655**	**.005 - .010**	.859	.439	.020 - .030	.863	.540	.015 - .030	.866	.531	.025 - .040	.869	.539	.010 - .020	.871	.771	.025 - .040
.851	.671	.040 - .060	**.859**	**.450**	**.005 - .020**	.863	.626	.090 - .120	.866	.543	.030 - .060	**.869**	**.575**	**.005 - .010**	.872	.153	.040 - .060
.852	.187	.040 - .060	.859	.454	.015 - .030	.863	.679	.040 - .062	.866	.545	.020 - .040	.869	.628	.020 - .080	**.872**	**.189**	**.005 - .015**
.852	.257	.062 - .090	.859	.489	.020 - .030	**.863**	**.680**	**.005 - .008**	.866	.562	.015 - .030	.869	.667	.020 - .030	.872	.219	.060 - .083
.852	**.409**	**.005 - .020**	.859	.508	.025 - .050	.863	.682	.010 - .020	.866	.568	.040 - .060	**.870**	**.125**	**.005 - .015**	.872	.221	.080 - .100
.852	.503	.020 - .030	.859	.515	.032 - .042	.863	.687	.015 - .020	.866	.591	.030 - .050	.870	.170	.025 - .040	.872	.254	.010 - .020
.852	.528	.015 - .030	.859	.606	.060 - .080	**.863**	**.688**	**.005 - .010**	**.866**	**.592**	**.005 - .010**	.870	.184	.040 - .062	**.872**	**.261**	**.005 - .010**
.852	.534	.015 - .025	.859	.628	.020 - .030	.863	.759	.015 - .050	.866	.626	.040 - .060	**.870**	**.186**	**.005 - .010**	.872	.267	.030 - .050
.852	.543	.025 - .040	**.859**	**.629**	**.005 - .010**	**.864**	**.208**	**.005 - .010**	.866	.627	.025 - .040	**.870**	**.196**	**.005 - .015**	.872	.269	.032 - .042
.852	.628	.020 - .040	.859	.646	.020 - .040	**.864**	**.316**	**.005 - .010**	.866	.631	.010 - .020	**.870**	**.202**	**.005 - .010**	.872	.306	.020 - .030
.852	.685	.020 - .062	.859	.650	.030 - .070	**.864**	**.368**	**.005 - .010**	.866	.637	.015 - .030	**.870**	**.239**	**.005 - .010**	.872	.320	.042 - .062
.853	.266	.030 - .060	.859	.671	.040 - .060	.864	.430	.040 - .060	.866	.638	.060 - .070	.870	.248	.040 - .060	.872	.334	.010 - .050
.853	**.357**	**.005 - .010**	.859	.675	.030 - .050	.864	.505	.015 - .025	**.866**	**.642**	**.005 - .010**	.870	.264	.100 - .125	.872	.376	.010 - .020
.853	.401	.040 - .060	**.859**	**.705**	**.005 - .010**	.864	.536	.080 - .104	**.866**	**.643**	**.005 - .010**	.870	.280	.120 - .150	**.872**	**.394**	**.005 - .025**
.853	.408	.050 - .070	**.859**	**.779**	**.005 - .010**	**.864**	**.551**	**.005 - .010**	**.866**	**.670**	**.005 - .010**	.870	.307	.010 - .030	**.872**	**.399**	**.005 - .010**
.853	.438	.016 - .025	.860	.036	.032 - .042	**.864**	**.595**	**.005 - .008**	.866	.697	.015 - .025	.870	.312	.013 - .028	.872	.402	.010 - .020
.853	.467	.010 - .020	.860	.171	.015 - .030	.864	.620	.010 - .020	.866	.719	.015 - .030	.870	.313	.015 - .025	.872	.475	.060 - .083
.853	.628	.040 - .060	.860	.192	.090 - .125	.864	.628	.050 - .070	.866	.750	.015 - .030	.870	.316	.012 - .020	.872	.476	.055 - .085
.853	**.632**	**.005 - .010**	.860	.225	.030 - .040	**.864**	**.633**	**.005 - .010**	**.866**	**.756**	**.005 - .010**	.870	.320	.040 - .060	.872	.562	.075 - .090
.853	**.750**	**.005 - .010**	.860	.252	.015 - .030	.864	.639	.042 - .062	.866	.758	.010 - .030	.870	.345	.025 - .040	.872	.593	.075 - .104
.854	**.077**	**.005 - .030**	.860	.261	.010 - .030	.864	.781	.010 - .020	.867	.129	.020 - .040	**.870**	**.352**	**.005 - .010**	**.872**	**.605**	**.005 - .010**
.854	.329	.050 - .075	.860	.265	.075 - .090	**.865**	**.205**	**.005 - .010**	.867	.264	.070 - .090	.870	.354	.060 - .080	**.872**	**.626**	**.005 - .010**
.854	.352	.100 - .125	.860	.314	.075 - .090	.865	.260	.020 - .040	.867	.336	.090 - .120	.870	.381	.090 - .120	**.872**	**.687**	**.005 - .010**
.854	.578	.010 - .020	.860	.321	.062 - .090	.865	.351	.020 - .030	.867	.360	.020 - .040	.870	.387	.135 - .187	.872	.725	.040 - .060

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O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
.872	**.728**	**.005 - .010**	**.875**	**.086**	**.005 - .010**	.875	.473	.100 - .125	.876	.522	.100 - .125	.879	.376	.010 - .020	.887	.325	.035 - .050
.872	**.755**	**.005 - .025**	.875	.087	.020 - .040	.875	.475	.025 - .040	.876	.533	.110 - .130	.879	.399	.050 - .070	.887	.572	.050 - .070
.872	**.760**	**.005 - .010**	.875	.111	.020 - .040	.875	.481	.120 - .135	.876	.551	.100 - .120	.879	.431	.050 - .070	.887	.714	.020 - .040
.872	.807	.010 - .015	.875	.129	.020 - .040	.875	.486	.020 - .040	**.876**	**.563**	**.005 - .010**	.879	.515	.025 - .040	**.887**	**.755**	**.005 - .010**
.873	.140	.048 - .062	.875	.133	.032 - .042	.875	.500	.040 - .090	.876	.565	.020 - .040	.879	.516	.040 - .060	**.887**	**.795**	**.005 - .010**
.873	.153	.050 - .075	.875	.140	.015 - .030	.875	.501	.006 - .030	.876	.591	.050 - .070	.879	.593	.050 - .070	.888	.382	.075 - .090
.873	.194	.070 - .090	**.875**	**.150**	**.005 - .010**	.875	.502	.015 - .030	.876	.600	.060 - .075	.879	.635	.050 - .075	**.888**	**.530**	**.005 - .010**
.873	**.195**	**.005 - .010**	.875	.153	.040 - .060	.875	.504	.030 - .125	.876	.616	.048 - .062	.880	.165	.050 - .075	.888	.535	.015 - .030
.873	.224	.020 - .040	**.875**	**.158**	**.005 - .010**	**.875**	**.505**	**.005 - .042**	.876	.622	.040 - .060	.880	.170	.110 - .130	**.888**	**.622**	**.005 - .010**
.873	.307	.007 - .016	.875	.161	.040 - .060	.875	.506	.090 - .125	**.876**	**.625**	**.005 - .010**	.880	.192	.015 - .030	**.888**	**.656**	**.005 - .010**
.873	.312	.030 - .050	.875	.168	.072 - .120	.875	.507	.030 - .125	.876	.626	.050 - .075	.880	.219	.032 - .050	.888	.760	.010 - .020
.873	.361	.105 - .125	.875	.172	.048 - .062	.875	.513	.032 - .135	.876	.632	.030 - .050	**.880**	**.260**	**.005 - .125**	.889	.395	.105 - .120
.873	**.365**	**.005 - .010**	.875	.175	.040 - .060	.875	.516	.060 - .080	.876	.633	.062 - .080	.880	.260	.126 - .187	**.889**	**.557**	**.005 - .010**
.873	.378	.040 - .060	.875	.180	.062 - .075	**.875**	**.517**	**.005 - .010**	.876	.672	.090 - .105	**.880**	**.265**	**.005 - .010**	**.889**	**.569**	**.005 - .010**
.873	**.381**	**.005 - .010**	.875	.184	.020 - .040	.875	.518	.090 - .110	.876	.675	.030 - .040	**.880**	**.302**	**.005 - .015**	.889	.758	.025 - .040
.873	.387	.015 - .025	.875	.187	.090 - .105	.875	.527	.032 - .048	.876	.681	.060 - .080	.880	.324	.050 - .070	**.889**	**.786**	**.005 - .010**
.873	**.388**	**.005 - .010**	.875	.192	.025 - .042	.875	.531	.105 - .125	.876	.692	.020 - .030	.880	.333	.042 - .060	.890	.192	.050 - .072
.873	.405	.015 - .030	.875	.196	.050 - .075	.875	.562	.050 - .072	.876	.694	.020 - .040	.880	.340	.160 - .190	.890	.273	.070 - .105
.873	.410	.105 - .135	.875	.199	.050 - .070	**.875**	**.563**	**.005 - .105**	.876	.702	.010 - .020	**.880**	**.357**	**.005 - .010**	.890	.405	.100 - .125
.873	**.412**	**.005 - .010**	.875	.203	.062 - .090	**.875**	**.567**	**.005 - .090**	.876	.714	.030 - .050	.880	.375	.060 - .080	.890	.438	.030 - .040
.873	.436	.050 - .075	**.875**	**.226**	**.005 - .010**	.875	.568	.020 - .048	.876	.745	.025 - .040	.880	.376	.025 - .062	.890	.504	.015 - .030
.873	.440	.105 - .135	**.875**	**.236**	**.005 - .060**	.875	.579	.050 - .060	.876	.750	.030 - .040	**.880**	**.380**	**.005 - .080**	.890	.530	.010 - .030
.873	.467	.015 - .030	.875	.246	.040 - .060	.875	.580	.015 - .030	.876	.751	.015 - .030	**.880**	**.381**	**.005 - .015**	.890	.537	.105 - .125
.873	.470	.030 - .050	**.875**	**.250**	**.005 - .050**	.875	.600	.090 - .105	.877	.128	.060 - .080	.880	.386	.070 - .090	**.890**	**.580**	**.005 - .008**
.873	.503	.015 - .070	.875	.252	.010 - .020	.875	.610	.025 - .040	.877	.170	.035 - .060	**.880**	**.406**	**.005 - .010**	**.890**	**.582**	**.005 - .010**
.873	.522	.020 - .040	.875	.253	.050 - .075	.875	.611	.050 - .070	.877	.173	.100 - .125	.880	.407	.080 - .105	**.890**	**.587**	**.005 - .010**
.873	.532	.170 - .190	.875	.257	.070 - .130	.875	.621	.060 - .080	.877	.250	.030 - .050	**.880**	**.426**	**.005 - .015**	**.890**	**.667**	**.005 - .010**
.873	.546	.050 - .070	.875	.260	.030 - .040	.875	.626	.050 - .070	.877	.254	.100 - .125	**.880**	**.430**	**.005 - .010**	.890	.711	.025 - .040
.873	.582	.100 - .125	.875	.267	.090 - .134	**.875**	**.628**	**.005 - .060**	.877	.281	.010 - .015	**.880**	**.455**	**.005 - .012**	.890	.785	.040 - .050
.873	.599	.075 - .090	**.875**	**.268**	**.005 - .010**	.875	.630	.050 - .070	.877	.313	.025 - .040	.880	.485	.050 - .060	.891	.582	.030 - .050
.873	.604	.025 - .040	**.875**	**.281**	**.005 - .010**	.875	.631	.015 - .030	.877	.329	.020 - .030	**.880**	**.495**	**.005 - .010**	**.891**	**.632**	**.005 - .010**
.873	.627	.030 - .060	.875	.282	.030 - .050	.875	.632	.100 - .125	.877	.377	.012 - .020	.880	.505	.015 - .025	.891	.669	.010 - .020
.873	.628	.105 - .125	.875	.315	.100 - .134	**.875**	**.635**	**.005 - .010**	.877	.389	.134 - .187	.880	.518	.040 - .060	**.891**	**.711**	**.005 - .015**
.873	**.632**	**.005 - .015**	.875	.318	.090 - .110	.875	.637	.010 - .104	.877	.407	.170 - .190	**.880**	**.523**	**.005 - .010**	.892	.073	.025 - .036
.873	.780	.025 - .040	.875	.320	.010 - .020	.875	.650	.100 - .125	.877	.442	.070 - .080	.880	.530	.030 - .040	.892	.273	.070 - .105
.874	.200	.042 - .080	.875	.324	.030 - .040	.875	.652	.031 - .048	.877	.494	.072 - .083	.880	.541	.025 - .035	**.892**	**.390**	**.005 - .010**
.874	.203	.040 - .060	.875	.325	.050 - .072	.875	.654	.075 - .100	.877	.498	.050 - .075	**.880**	**.604**	**.005 - .010**	**.892**	**.514**	**.005 - .010**
.874	.243	.030 - .050	.875	.327	.090 - .125	.875	.660	.062 - .078	.877	.507	.060 - .080	.880	.621	.020 - .060	.892	.612	.010 - .025
.874	**.259**	**.005 - .010**	**.875**	**.328**	**.005 - .010**	.875	.666	.040 - .060	.877	.593	.080 - .100	.880	.626	.062 - .078	**.892**	**.632**	**.005 - .010**
.874	.266	.025 - .040	.875	.330	.080 - .104	**.875**	**.670**	**.005 - .010**	.877	.643	.025 - .042	.880	.659	.070 - .080	.892	.653	.050 - .070
.874	**.312**	**.005 - .010**	.875	.337	.050 - .072	.875	.674	.010 - .020	.877	.693	.030 - .050	**.880**	**.681**	**.005 - .012**	**.892**	**.726**	**.005 - .010**
.874	**.316**	**.005 - .010**	**.875**	**.340**	**.005 - .010**	.875	.687	.050 - .080	.877	.694	.070 - .090	.880	.690	.060 - .070	.893	.621	.040 - .075
.874	.329	.060 - .083	.875	.343	.016 - .025	.875	.690	.075 - .090	.877	.755	.042 - .062	.880	.711	.025 - .040	.894	.195	.020 - .040
.874	.330	.025 - .040	.875	.345	.110 - .130	.875	.691	.040 - .060	**.877**	**.836**	**.005 - .010**	**.881**	**.201**	**.005 - .010**	.894	.251	.010 - .020
.874	.375	.060 - .187	.875	.347	.042 - .062	.875	.693	.030 - .050	.878	.125	.020 - .040	**.881**	**.203**	**.005 - .010**	.894	.501	.060 - .080
.874	.376	.020 - .040	**.875**	**.354**	**.005 - .010**	**.875**	**.698**	**.005 - .010**	.878	.187	.020 - .040	.881	.548	.030 - .050	**.894**	**.624**	**.005 - .010**
.874	.377	.015 - .080	.875	.362	.012 - .020	**.875**	**.719**	**.005 - .080**	.878	.219	.015 - .040	**.881**	**.661**	**.005 - .010**	**.894**	**.762**	**.005 - .010**
.874	.384	.008 - .016	**.875**	**.367**	**.005 - .010**	.875	.735	.050 - .070	.878	.229	.040 - .060	.881	.681	.010 - .015	.895	.375	.070 - .090
.874	.392	.015 - .030	.875	.375	.100 - .125	.875	.746	.010 - .020	.878	.264	.060 - .083	.881	.732	.020 - .030	.895	.390	.032 - .062
.874	.398	.125 - .156	**.875**	**.376**	**.005 - .010**	.875	.750	.030 - .050	.878	.285	.090 - .120	**.882**	**.300**	**.005 - .010**	**.895**	**.462**	**.005 - .010**
.874	.410	.080 - .100	.875	.377	.010 - .020	**.875**	**.751**	**.005 - .015**	.878	.376	.025 - .040	**.882**	**.323**	**.005 - .010**	.895	.574	.032 - .042
.874	**.420**	**.005 - .010**	.875	.378	.020 - .030	.875	.755	.010 - .020	.878	.387	.020 - .040	**.882**	**.325**	**.005 - .010**	**.895**	**.631**	**.005 - .010**
.874	.439	.105 - .125	.875	.380	.105 - .134	.875	.756	.025 - .040	.878	.387	.048 - .062	.882	.500	.150 - .180	.895	.661	.010 - .020
.874	.501	.105 - .125	.875	.382	.015 - .030	.875	.760	.020 - .040	.878	.402	.060 - .075	.882	.540	.090 - .110	.895	.733	.050 - .070
.874	.502	.105 - .125	.875	.383	.150 - .180	.876	.067	.015 - .030	.878	.406	.025 - .040	**.882**	**.664**	**.005 - .010**	.895	.795	.010 - .020
.874	.505	.050 - .070	.875	.384	.008 - .016	.876	.093	.020 - .040	.878	.437	.020 - .040	.883	.315	.010 - .020	.895	.801	.020 - .030
.874	.508	.040 - .060	.875	.389	.040 - .060	.876	.127	.060 - .080	.878	.446	.050 - .075	.883	.500	.050 - .075	.896	.340	.050 - .070
.874	.509	.010 - .020	.875	.390	.060 - .075	**.876**	**.130**	**.005 - .010**	.878	.473	.135 - .156	.883	.509	.030 - .050	.896	.772	.020 - .042
.874	.510	.075 - .090	.875	.391	.040 - .060	**.876**	**.164**	**.005 - .010**	.878	.478	.010 - .020	.883	.560	.050 - .070	**.897**	**.292**	**.005 - .010**
.874	.512	.060 - .080	**.875**	**.393**	**.005 - .010**	.876	.173	.050 - .070	.878	.501	.020 - .040	.883	.622	.050 - .075	**.897**	**.407**	**.005 - .010**
.874	.513	.015 - .030	.875	.395	.090 - .125	.876	.282	.040 - .187	.878	.516	.100 - .125	.883	.777	.010 - .020	.897	.408	.010 - .020
.874	**.514**	**.005 - .010**	.875	.396	.010 - .020	.876	.284	.040 - .060	.878	.518	.100 - .125	**.884**	**.411**	**.005 - .010**	.897	.409	.025 - .080
.874	.526	.050 - .070	.875	.397	.050 - .070	.876	.287	.100 - .125	.878	.523	.100 - .125	.884	.510	.015 - .030	.897	.704	.025 - .040
.874	.533	.030 - .060	**.875**	**.399**	**.005 - .010**	**.876**	**.288**	**.005 - .010**	.878	.531	.020 - .040	.885	.150	.020 - .040	**.897**	**.748**	**.005 - .015**
.874	.535	.032 - .048	.875	.405	.100 - .120	.876	.317	.030 - .050	.878	.562	.025 - .040	.885	.212	.010 - .020	.897	.810	.010 - .020
.874	.540	.030 - .050	.875	.406	.050 - .060	**.876**	**.328**	**.005 - .125**	**.878**	**.570**	**.005 - .012**	**.885**	**.325**	**.005 - .010**	.898	.250	.040 - .060
.874	.579	.015 - .030	.875	.412	.100 - .125	.876	.340	.160 - .190	**.878**	**.585**	**.005 - .010**	**.885**	**.396**	**.005 - .010**	.898	.318	.050 - .075
.874	.601	.070 - .090	**.875**	**.413**	**.005 - .015**	.876	.343	.025 - .040	.878	.593	.025 - .050	**.885**	**.443**	**.005 - .008**	**.898**	**.343**	**.005 - .010**
.874	**.603**	**.005 - .010**	.875	.415	.060 - .083	.876	.350	.015 - .025	.878	.627	.020 - .030	**.885**	**.456**	**.005 - .020**	.898	.453	.080 - .100
.874	**.621**	**.005 - .010**	**.875**	**.430**	**.005 - .030**	**.876**	**.377**	**.005 - .010**	**.878**	**.628**	**.005 - .010**	**.885**	**.521**	**.005 - .010**	.898	.510	.075 - .104
.874	.624	.020 - .040	.875	.436	.060 - .080	.876	.378	.090 - .105	.878	.632	.040 - .060	.885	.565	.015 - .032	.898	.665	.025 - .040
.874	.625	.015 - .025	.875	.437	.050 - .080	.876	.397	.030 - .050	**.878**	**.648**	**.005 - .010**	.885	.626	.020 - .040	**.898**	**.748**	**.005 - .010**
.874	.627	.030 - .050	.875	.438	.010 - .020	**.876**	**.461**	**.005 - .010**	.878	.660	.015 - .030	**.885**	**.695**	**.005 - .010**	**.898**	**.812**	**.005 - .010**
.874	.645	.030 - .050	**.875**	**.439**	**.005 - .010**	.876	.471	.040 - .062	.878	.689	.020 - .040	**.885**	**.705**	**.005 - .010**	.898	.829	.015 - .030
.874	**.658**	**.005 - .010**	.875	.440	.015 - .125	**.876**	**.500**	**.005 - .010**	**.878**	**.742**	**.005 - .010**	.886	.118	.030 - .050	.899	.121	.040 - .060
.874	.660	.010 - .020	.875	.448	.030 - .050	**.876**	**.503**	**.005 - .010**	**.878**	**.826**	**.005 - .010**	.886	.291	.030 - .050	.899	.197	.030 - .050
.874	.688	.015 - .030	**.875**	**.451**	**.005 - .010**	.876	.506	.090 - .120	.879	.125	.050 - .060	**.886**	**.443**	**.005 - .040**	.899	.479	.020 - .040
.874	.721	.010 - .020	**.875**	**.452**	**.005 - .010**	.876	.515	.080 - .104	.879	.172	.090 - .120	.886	.531	.050 - .070	.899	.501	.010 - .020
.874	.751	.020 - .030	.875	.453	.025 - .080	.876	.516	.125 - .156	.879	.250	.025 - .040	.886	.650	.070 - .090	**.899**	**.535**	**.005 - .010**
.875	**.070**	**.005 - .010**	.875	.456	.090 - .125	.876	.519	.060 - .083	.879	.327	.048 - .062	.887	.265	.062 - .090	.899	.562	.025 - .040

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

For a size NOT listed, send specs or phone for quote — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
.899	**.563**	**.005 - .010**	**.902**	**.792**	**.005 - .010**	.906	.759	.010 - .020	.915	.350	.040 - .060	.921	.682	.030 - .050	**.930**	**.199**	**.005 - .083**
.899	.568	.070 - .090	.903	.252	.080 - .100	.906	.769	.010 - .020	.915	.446	.015 - .025	.921	.788	.020 - .040	**.930**	**.270**	**.005 - .010**
.899	.789	.030 - .040	.903	.258	.060 - .080	.907	.228	.040 - .060	**.915**	**.448**	**.005 - .010**	**.921**	**.790**	**.005 - .010**	.930	.286	.070 - .090
.899	.791	.010 - .020	.903	.315	.030 - .048	.907	.293	.070 - .090	.915	.509	.050 - .070	.922	.316	.105 - .125	.930	.301	.015 - .030
.899	.810	.020 - .030	.903	.330	.015 - .030	.907	.330	.050 - .060	**.915**	**.510**	**.005 - .010**	.922	.450	.080 - .100	**.930**	**.377**	**.005 - .020**
.899	**.814**	**.005 - .010**	**.903**	**.401**	**.005 - .010**	.907	.380	.125 - .135	.915	.616	.015 - .030	.922	.608	.050 - .075	.930	.381	.040 - .060
.899	.841	.010 - .020	.903	.416	.100 - .125	.907	.411	.025 - .040	.915	.623	.030 - .060	.922	.630	.010 - .020	.930	.381	.105 - .125
.900	.063	.010 - .020	.903	.500	.025 - .036	.907	.469	.100 - .120	.915	.628	.080 - .095	.922	.640	.030 - .050	.930	.440	.020 - .040
.900	.079	.030 - .050	.903	.531	.160 - .180	**.907**	**.514**	**.005 - .010**	**.915**	**.744**	**.005 - .010**	.922	.670	.010 - .020	.930	.475	.040 - .060
.900	.100	.015 - .030	.903	.664	.025 - .040	.907	.603	.070 - .090	.916	.150	.020 - .032	.922	.687	.020 - .030	.930	.501	.025 - .062
.900	**.154**	**.005 - .010**	.903	.710	.010 - .020	.907	.624	.020 - .035	.916	.317	.100 - .120	.922	.755	.020 - .040	.930	.520	.020 - .040
.900	.217	.025 - .040	**.903**	**.735**	**.005 - .015**	.907	.645	.020 - .040	.916	.507	.020 - .040	.922	.758	.050 - .070	.930	.609	.042 - .072
.900	**.252**	**.005 - .010**	.903	.760	.015 - .030	.907	.669	.060 - .080	.916	.532	.040 - .060	.923	.265	.090 - .105	.930	.630	.010 - .025
.900	.254	.040 - .060	.903	.766	.040 - .060	.907	.672	.042 - .060	.916	.540	.020 - .040	.923	.397	.015 - .025	.930	.635	.080 - .104
.900	**.376**	**.005 - .030**	**.903**	**.771**	**.005 - .050**	**.907**	**.728**	**.005 - .015**	.916	.570	.050 - .090	.923	.502	.015 - .030	**.930**	**.645**	**.005 - .010**
.900	**.377**	**.005 - .010**	.903	.781	.040 - .050	.907	.740	.010 - .050	.916	.571	.090 - .110	.923	.506	.050 - .070	**.930**	**.679**	**.005 - .010**
.900	.378	.015 - .040	.904	.206	.040 - .060	.907	.757	.010 - .020	.916	.734	.020 - .040	**.923**	**.661**	**.005 - .010**	**.930**	**.700**	**.005 - .010**
.900	**.379**	**.005 - .078**	.904	.262	.070 - .090	.908	.332	.135 - .156	.916	.735	.020 - .040	.923	.668	.030 - .050	.930	.701	.015 - .030
.900	.380	.010 - .020	**.904**	**.319**	**.005 - .020**	.908	.342	.050 - .075	.916	.795	.010 - .020	.923	.678	.020 - .030	**.930**	**.710**	**.005 - .010**
.900	.390	.030 - .060	**.904**	**.329**	**.005 - .010**	.908	.379	.025 - .040	.916	.804	.016 - .032	.923	.754	.020 - .040	.930	.750	.025 - .040
.900	**.400**	**.005 - .010**	.904	.486	.025 - .042	.908	.502	.030 - .050	**.916**	**.834**	**.005 - .010**	.923	.755	.015 - .050	**.930**	**.760**	**.005 - .030**
.900	**.437**	**.005 - .010**	.904	.629	.020 - .100	.908	.555	.080 - .105	.917	.501	.050 - .090	**.923**	**.820**	**.005 - .010**	.930	.812	.010 - .020
.900	**.440**	**.005 - .010**	.904	.640	.030 - .040	.908	.564	.015 - .030	.917	.506	.010 - .020	.924	.201	.100 - .125	.931	.454	.020 - .030
.900	**.441**	**.005 - .010**	.904	.649	.020 - .035	.908	.616	.020 - .032	.917	.531	.062 - .078	**.924**	**.253**	**.005 - .010**	.931	.478	.020 - .030
.900	.453	.030 - .040	.904	.690	.015 - .030	.908	.688	.010 - .025	.917	.579	.050 - .060	.924	.382	.030 - .040	.931	.598	.035 - .060
.900	.455	.050 - .070	.904	.750	.040 - .060	.908	.705	.030 - .048	**.917**	**.596**	**.005 - .015**	.924	.538	.010 - .015	.931	.632	.105 - .125
.900	**.489**	**.005 - .010**	**.904**	**.805**	**.005 - .040**	.908	.751	.060 - .080	.917	.623	.040 - .060	.924	.727	.040 - .060	.931	.660	.020 - .030
.900	**.500**	**.005 - .105**	.905	.127	.090 - .110	**.908**	**.753**	**.005 - .010**	.918	.497	.010 - .020	.924	.746	.020 - .040	.931	.691	.040 - .060
.900	**.501**	**.005 - .010**	.905	.196	.040 - .060	.908	.764	.020 - .030	**.918**	**.596**	**.005 - .010**	.925	.158	.100 - .125	.931	.729	.050 - .070
.900	**.503**	**.005 - .020**	**.905**	**.238**	**.005 - .010**	.908	.765	.020 - .040	**.918**	**.614**	**.005 - .010**	.925	.314	.010 - .015	.931	.762	.020 - .030
.900	**.504**	**.005 - .008**	**.905**	**.317**	**.005 - .010**	.909	.250	.030 - .040	.918	.762	.025 - .035	.925	.322	.070 - .090	.931	.811	.040 - .060
.900	.510	.015 - .030	.905	.330	.015 - .030	.909	.342	.050 - .075	.919	.257	.070 - .090	.925	.346	.015 - .025	.932	.243	.050 - .070
.900	**.562**	**.005 - .015**	.905	.344	.020 - .030	**.909**	**.364**	**.005 - .010**	**.919**	**.366**	**.005 - .010**	.925	.397	.048 - .072	.932	.330	.025 - .040
.900	.563	.040 - .060	.905	.392	.010 - .040	**.909**	**.379**	**.005 - .010**	**.919**	**.396**	**.005 - .010**	.925	.438	.015 - .030	.932	.335	.050 - .070
.900	.564	.010 - .100	**.905**	**.396**	**.005 - .010**	.909	.634	.010 - .020	.919	.493	.100 - .125	.925	.445	.060 - .083	.932	.465	.090 - .110
.900	**.570**	**.005 - .070**	.905	.398	.120 - .135	.909	.676	.007 - .015	**.919**	**.565**	**.005 - .020**	.925	.450	.025 - .040	.932	.469	.040 - .062
.900	.577	.015 - .025	.905	.414	.180 - .190	.909	.749	.040 - .060	.919	.697	.010 - .020	.925	.474	.050 - .070	**.932**	**.563**	**.005 - .012**
.900	.595	.070 - .090	.905	.451	.070 - .090	**.909**	**.796**	**.005 - .010**	**.919**	**.765**	**.005 - .010**	.925	.516	.025 - .040	.932	.676	.015 - .030
.900	.595	.080 - .090	**.905**	**.460**	**.005 - .010**	.910	.250	.080 - .104	.919	.812	.020 - .030	.925	.526	.015 - .030	.932	.749	.050 - .070
.900	.610	.020 - .040	.905	.473	.010 - .030	.910	.330	.030 - .040	**.920**	**.157**	**.005 - .010**	.925	.575	.070 - .090	**.932**	**.775**	**.005 - .010**
.900	.625	.025 - .040	.905	.475	.105 - .125	.910	.381	.050 - .070	.920	.163	.032 - .060	.925	.576	.050 - .075	**.932**	**.869**	**.005 - .020**
.900	.626	.050 - .070	.905	.481	.040 - .060	.910	.417	.010 - .020	**.920**	**.200**	**.005 - .010**	.925	.577	.050 - .075	.932	.870	.010 - .020
.900	**.628**	**.005 - .010**	.905	.493	.070 - .090	**.910**	**.425**	**.005 - .010**	.920	.230	.025 - .040	.925	.661	.025 - .040	.933	.197	.010 - .020
.900	.630	.120 - .135	.905	.520	.020 - .040	**.910**	**.440**	**.005 - .010**	**.920**	**.253**	**.005 - .075**	.925	.672	.040 - .060	.933	.415	.010 - .020
.900	.634	.040 - .060	.905	.531	.050 - .060	.910	.468	.075 - .090	.920	.265	.040 - .060	.925	.690	.010 - .020	.933	.508	.032 - .060
.900	**.651**	**.005 - .010**	**.905**	**.558**	**.005 - .010**	.910	.490	.130 - .156	.920	.269	.135 - .187	**.925**	**.719**	**.005 - .010**	.933	.624	.025 - .040
.900	.654	.060 - .070	.905	.564	.040 - .060	.910	.500	.025 - .040	.920	.316	.080 - .100	.925	.725	.010 - .020	**.933**	**.688**	**.005 - .010**
.900	.661	.070 - .090	.905	.585	.050 - .075	.910	.515	.100 - .125	**.920**	**.318**	**.005 - .010**	.925	.756	.010 - .020	**.933**	**.726**	**.005 - .010**
.900	.670	.025 - .048	.905	.634	.032 - .060	.910	.540	.060 - .080	**.920**	**.378**	**.005 - .010**	.925	.800	.012 - .025	.933	.775	.010 - .020
.900	.690	.010 - .050	.905	.637	.015 - .030	.910	.560	.110 - .130	.920	.456	.010 - .030	.925	.817	.010 - .020	**.934**	**.094**	**.005 - .010**
.900	.711	.025 - .040	.905	.639	.040 - .060	**.910**	**.590**	**.005 - .010**	.920	.470	.105 - .125	.925	.834	.020 - .030	.934	.190	.010 - .020
.900	.725	.020 - .040	.905	.643	.010 - .020	**.910**	**.650**	**.005 - .015**	.920	.499	.050 - .070	.926	.399	.080 - .105	.934	.414	.025 - .040
.900	.730	.060 - .080	.905	.657	.070 - .080	.910	.667	.030 - .050	**.920**	**.504**	**.005 - .010**	.926	.438	.045 - .060	.934	.508	.020 - .040
.900	.755	.010 - .020	.905	.672	.070 - .090	.910	.703	.030 - .040	**.920**	**.525**	**.005 - .010**	.926	.670	.010 - .020	**.934**	**.513**	**.005 - .010**
.900	**.800**	**.005 - .010**	.905	.673	.090 - .125	.910	.811	.020 - .040	**.920**	**.550**	**.005 - .010**	.926	.689	.015 - .030	.934	.563	.048 - .078
.900	**.805**	**.005 - .010**	.905	.674	.075 - .100	**.910**	**.820**	**.005 - .010**	.920	.564	.015 - .030	.926	.724	.015 - .030	.934	.743	.020 - .040
.900	.810	.010 - .020	.905	.677	.105 - .125	.911	.256	.080 - .100	**.920**	**.584**	**.005 - .010**	.927	.171	.100 - .125	**.934**	**.753**	**.005 - .010**
.900	.830	.015 - .025	.905	.682	.010 - .020	.911	.416	.062 - .090	**.920**	**.590**	**.005 - .010**	**.927**	**.264**	**.005 - .010**	**.934**	**.754**	**.005 - .020**
.901	.202	.030 - .050	.905	.709	.015 - .030	.911	.471	.030 - .050	**.920**	**.608**	**.005 - .010**	**.927**	**.397**	**.005 - .010**	.934	.757	.030 - .050
.901	.256	.010 - .016	.905	.728	.050 - .070	.911	.564	.030 - .050	**.920**	**.618**	**.005 - .010**	.927	.512	.008 - .016	.934	.770	.040 - .060
.901	.292	.040 - .060	**.905**	**.785**	**.005 - .010**	**.911**	**.568**	**.005 - .010**	.920	.628	.030 - .050	**.927**	**.627**	**.005 - .010**	.935	.152	.040 - .060
.901	.361	.010 - .020	**.906**	**.316**	**.005 - .010**	**.911**	**.615**	**.005 - .010**	.920	.629	.010 - .020	.927	.647	.042 - .060	.935	.216	.080 - .090
.901	**.506**	**.005 - .020**	**.906**	**.325**	**.005 - .010**	.911	.710	.030 - .048	.920	.630	.015 - .060	.927	.689	.010 - .020	.935	.273	.010 - .020
.901	**.626**	**.005 - .020**	.906	.394	.010 - .020	**.911**	**.780**	**.005 - .010**	.920	.687	.020 - .040	.927	.691	.020 - .040	.935	.310	.050 - .083
.901	.694	.075 - .093	.906	.395	.090 - .100	**.911**	**.815**	**.005 - .010**	.920	.690	.090 - .105	**.927**	**.819**	**.005 - .010**	**.935**	**.318**	**.005 - .010**
.901	**.710**	**.005 - .020**	.906	.396	.010 - .020	.912	.549	.070 - .105	**.920**	**.705**	**.005 - .010**	.928	.084	.050 - .062	**.935**	**.321**	**.005 - .010**
.901	.715	.010 - .020	.906	.405	.010 - .020	.912	.563	.010 - .020	.920	.720	.040 - .060	.928	.087	.050 - .060	.935	.439	.020 - .050
.902	.316	.010 - .030	**.906**	**.474**	**.005 - .010**	**.912**	**.596**	**.005 - .010**	.920	.778	.030 - .050	.928	.153	.060 - .080	.935	.455	.100 - .125
.902	**.318**	**.005 - .010**	.906	.512	.006 - .012	.912	.636	.060 - .070	.920	.819	.020 - .030	**.928**	**.383**	**.005 - .015**	.935	.481	.030 - .050
.902	**.329**	**.005 - .010**	.906	.519	.010 - .020	.912	.656	.105 - .120	.920	.853	.010 - .020	.928	.552	.080 - .100	.935	.489	.090 - .120
.902	**.377**	**.005 - .010**	.906	.565	.080 - .100	.912	.683	.015 - .030	.921	.314	.078 - .090	**.928**	**.678**	**.005 - .010**	.935	.501	.080 - .104
.902	.504	.006 - .012	.906	.592	.025 - .040	**.912**	**.805**	**.005 - .010**	**.921**	**.402**	**.005 - .010**	.929	.260	.020 - .040	.935	.523	.080 - .105
.902	**.505**	**.005 - .010**	.906	.603	.010 - .020	.913	.493	.015 - .030	**.921**	**.445**	**.005 - .010**	.929	.470	.072 - .105	.935	.535	.090 - .105
.902	**.505**	**.005 - .020**	**.906**	**.609**	**.005 - .010**	.913	.507	.020 - .030	.921	.490	.025 - .040	**.929**	**.570**	**.005 - .010**	.935	.565	.012 - .020
.902	**.535**	**.005 - .010**	.906	.638	.093 - .125	.913	.510	.020 - .040	.921	.508	.010 - .020	**.929**	**.575**	**.005 - .010**	.935	.569	.030 - .050
.902	**.564**	**.005 - .010**	.906	.657	.025 - .035	.913	.665	.080 - .100	.921	.531	.025 - .040	.929	.600	.050 - .075	.935	.570	.030 - .060
.902	**.642**	**.005 - .010**	.906	.669	.015 - .030	**.913**	**.847**	**.005 - .010**	.921	.587	.020 - .040	**.929**	**.689**	**.005 - .104**	.935	.581	.100 - .125
.902	**.658**	**.005 - .010**	.906	.728	.030 - .050	**.914**	**.521**	**.005 - .010**	.921	.630	.010 - .020	.929	.697	.012 - .020	.935	.624	.100 - .125
.902	.679	.030 - .050	.906	.730	.030 - .050	.914	.596	.025 - .040	.921	.641	.010 - .020	.930	.088	.015 - .030	.935	.681	.030 - .050
.902	.790	.030 - .050	.906	.750	.010 - .020	.914	.650	.015 - .030	.921	.680	.025 - .040	.930	.098	.020 - .040	**.935**	**.682**	**.005 - .010**

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

Call BOKER'S for precision stamping, assembly, and secondary operations.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
.935	.683	.030 - .060	.937	.737	.020 - .030	**.940**	**.437**	**.005 - .010**	.944	.281	.025 - .036	**.948**	**.245**	**.005 - .072**	**.954**	**.826**	**.005 - .010**
.935	.685	.072 - .120	.937	.754	.048 - .072	.940	.441	.040 - .060	.944	.314	.080 - .100	.948	.262	.060 - .080	.955	.510	.025 - .040
.935	.687	.020 - .040	.937	.772	.060 - .080	.940	.481	.050 - .075	**.944**	**.317**	**.005 - .020**	**.948**	**.390**	**.005 - .010**	.955	.733	.020 - .040
.935	.715	.016 - .032	**.937**	**.785**	**.005 - .015**	.940	.490	.075 - .105	.944	.319	.008 - .012	**.948**	**.398**	**.005 - .010**	.955	.825	.010 - .020
.935	.719	.010 - .030	.937	.793	.025 - .040	.940	.502	.015 - .030	**.944**	**.394**	**.005 - .010**	**.948**	**.413**	**.005 - .010**	**.955**	**.848**	**.005 - .010**
.935	.720	.050 - .070	.937	.802	.015 - .040	.940	.508	.100 - .125	.944	.423	.156 - .187	.948	.439	.010 - .020	.956	.439	.060 - .125
.935	.733	.025 - .040	**.937**	**.813**	**.005 - .010**	.940	.509	.050 - .070	.944	.432	.105 - .125	.948	.448	.060 - .070	**.956**	**.635**	**.005 - .050**
.935	**.735**	**.005 - .010**	.937	.875	.025 - .035	.940	.518	.050 - .070	**.944**	**.442**	**.005 - .020**	.948	.485	.090 - .100	**.956**	**.781**	**.005 - .010**
.935	**.783**	**.005 - .010**	.938	.140	.048 - .062	.940	.520	.090 - .105	**.944**	**.473**	**.005 - .010**	.948	.493	.062 - .080	**.956**	**.820**	**.005 - .010**
.935	.794	.060 - .075	.938	.144	.105 - .135	.940	.525	.040 - .060	**.944**	**.475**	**.005 - .010**	.948	.502	.006 - .015	.957	.295	.030 - .050
.935	.796	.020 - .040	.938	.150	.050 - .072	.940	.535	.030 - .040	.944	.479	.020 - .030	**.948**	**.503**	**.005 - .010**	.957	.626	.040 - .060
.935	.839	.020 - .030	.938	.199	.048 - .062	.940	.553	.100 - .125	.944	.502	.010 - .020	**.948**	**.506**	**.005 - .010**	.957	.734	.015 - .030
.935	.860	.015 - .030	.938	.200	.030 - .060	.940	.590	.015 - .030	.944	.595	.020 - .040	.948	.514	.050 - .075	**.957**	**.812**	**.005 - .010**
.935	**.871**	**.005 - .010**	.938	.201	.100 - .120	.940	.591	.060 - .070	**.944**	**.633**	**.005 - .010**	.948	.518	.030 - .060	.957	.841	.015 - .020
.936	.266	.060 - .080	.938	.217	.050 - .072	.940	.607	.030 - .060	.944	.673	.015 - .025	**.948**	**.576**	**.005 - .010**	**.958**	**.442**	**.005 - .010**
.936	.310	.050 - .080	.938	.246	.048 - .062	.940	.610	.030 - .060	.944	.694	.040 - .060	.948	.666	.035 - .050	.958	.606	.050 - .072
.936	.313	.020 - .035	.938	.266	.042 - .060	**.940**	**.633**	**.005 - .010**	.944	.766	.020 - .040	**.948**	**.763**	**.005 - .010**	.958	.639	.020 - .030
.936	.343	.105 - .125	.938	.318	.048 - .062	**.940**	**.640**	**.005 - .105**	.944	.795	.015 - .030	.948	.780	.020 - .040	.958	.779	.070 - .080
.936	.375	.040 - .050	.938	.322	.035 - .060	.940	.641	.025 - .040	.945	.221	.050 - .075	.948	.864	.025 - .040	.959	.300	.015 - .025
.936	.390	.060 - .090	.938	.328	.104 - .134	.940	.646	.060 - .080	**.945**	**.240**	**.005 - .010**	**.949**	**.189**	**.005 - .010**	.959	.328	.030 - .050
.936	.406	.050 - .070	.938	.343	.048 - .062	.940	.656	.040 - .060	.945	.249	.060 - .125	.949	.380	.040 - .060	.959	.420	.030 - .050
.936	.480	.010 - .030	.938	.376	.048 - .062	**.940**	**.673**	**.005 - .030**	.945	.282	.040 - .060	**.949**	**.503**	**.005 - .010**	.959	.641	.090 - .120
.936	**.481**	**.005 - .060**	**.938**	**.379**	**.005 - .010**	**.940**	**.674**	**.005 - .010**	**.945**	**.314**	**.005 - .010**	.949	.505	.050 - .070	.959	.729	.020 - .040
.936	**.502**	**.005 - .010**	.938	.383	.105 - .125	.940	.686	.010 - .020	.945	.315	.010 - .020	.949	.507	.010 - .020	.960	.125	.032 - .060
.936	.517	.090 - .110	.938	.388	.090 - .105	.940	.700	.015 - .025	**.945**	**.317**	**.005 - .070**	.949	.511	.010 - .020	.960	.133	.010 - .025
.936	**.537**	**.005 - .010**	.938	.439	.042 - .062	.940	.701	.015 - .030	.945	.322	.010 - .020	.949	.592	.072 - .090	.960	.155	.050 - .072
.936	**.552**	**.005 - .010**	.938	.444	.040 - .062	.940	.704	.083 - .105	.945	.331	.070 - .090	**.950**	**.125**	**.005 - .010**	**.960**	**.259**	**.005 - .010**
.936	.627	.040 - .060	**.938**	**.458**	**.005 - .010**	.940	.710	.030 - .050	.945	.345	.020 - .040	.950	.131	.062 - .080	.960	.315	.020 - .032
.936	.641	.100 - .125	.938	.505	.030 - .050	.940	.721	.040 - .060	.945	.378	.050 - .070	.950	.186	.020 - .035	.960	.350	.032 - .050
.936	.645	.105 - .135	**.938**	**.507**	**.005 - .010**	**.940**	**.752**	**.005 - .010**	.945	.389	.050 - .075	**.950**	**.189**	**.005 - .030**	.960	.398	.090 - .105
.936	.650	.050 - .070	**.938**	**.521**	**.005 - .010**	.940	.766	.050 - .075	.945	.393	.030 - .050	.950	.198	.047 - .070	.960	.450	.032 - .050
.936	**.660**	**.005 - .008**	.938	.532	.105 - .125	**.940**	**.776**	**.005 - .010**	.945	.394	.010 - .020	.950	.204	.020 - .035	.960	.500	.030 - .060
.936	.687	.052 - .084	**.938**	**.550**	**.005 - .010**	.940	.788	.020 - .030	**.945**	**.411**	**.005 - .010**	.950	.219	.015 - .030	.960	.507	.080 - .104
.936	.718	.020 - .040	.938	.562	.030 - .050	**.940**	**.830**	**.005 - .012**	.945	.434	.156 - .187	.950	.234	.015 - .030	**.960**	**.537**	**.005 - .010**
.937	.080	.020 - .035	.938	.563	.015 - .030	.941	.119	.030 - .060	.945	.453	.156 - .187	.950	.250	.015 - .030	.960	.550	.032 - .050
.937	.092	.050 - .070	.938	.570	.070 - .090	.941	.150	.060 - .070	.945	.454	.156 - .187	.950	.328	.105 - .125	**.960**	**.575**	**.005 - .010**
.937	.110	.050 - .070	**.938**	**.595**	**.005 - .010**	.941	.257	.010 - .020	**.945**	**.472**	**.005 - .010**	**.950**	**.387**	**.005 - .010**	**.960**	**.640**	**.005 - .010**
.937	.174	.062 - .080	**.938**	**.596**	**.005 - .010**	.941	.260	.050 - .070	.945	.474	.010 - .020	**.950**	**.395**	**.005 - .070**	.960	.650	.032 - .050
.937	.257	.032 - .048	.938	.636	.030 - .050	.941	.459	.020 - .030	**.945**	**.477**	**.005 - .010**	.950	.440	.090 - .105	.960	.705	.030 - .060
.937	.275	.030 - .050	.938	.637	.080 - .104	**.941**	**.484**	**.005 - .010**	.945	.484	.050 - .075	**.950**	**.500**	**.005 - .030**	.960	.728	.040 - .060
.937	.292	.025 - .040	.938	.690	.040 - .060	.941	.500	.040 - .060	**.945**	**.502**	**.005 - .010**	**.950**	**.502**	**.005 - .020**	.960	.740	.090 - .105
.937	.315	.080 - .100	.938	.721	.020 - .040	.941	.532	.030 - .050	**.945**	**.512**	**.005 - .010**	.950	.503	.010 - .040	.960	.750	.030 - .060
.937	.319	.025 - .040	.938	.730	.070 - .090	**.941**	**.555**	**.005 - .012**	.945	.514	.180 - .190	.950	.505	.010 - .020	.960	.751	.050 - .075
.937	.324	.030 - .060	.938	.752	.015 - .090	.941	.566	.020 - .040	.945	.519	.040 - .060	.950	.512	.100 - .125	**.960**	**.758**	**.005 - .010**
.937	.341	.050 - .075	**.938**	**.760**	**.005 - .010**	.941	.632	.030 - .060	.945	.554	.010 - .020	.950	.531	.060 - .080	**.960**	**.774**	**.005 - .010**
.937	.350	.020 - .030	.938	.761	.015 - .030	**.941**	**.675**	**.005 - .010**	**.945**	**.607**	**.005 - .010**	.950	.567	.030 - .050	.960	.783	.020 - .030
.937	.375	.010 - .020	.938	.766	.020 - .030	.941	.717	.050 - .070	.945	.610	.060 - .080	.950	.640	.030 - .125	**.960**	**.820**	**.005 - .010**
.937	.381	.025 - .040	.938	.770	.030 - .050	.941	.744	.006 - .012	.945	.627	.032 - .042	.950	.696	.030 - .040	.961	.438	.050 - .070
.937	**.390**	**.005 - .010**	.938	.784	.015 - .030	.941	.816	.028 - .040	.945	.669	.050 - .125	**.950**	**.747**	**.005 - .010**	.961	.500	.040 - .050
.937	.399	.156 - .187	**.938**	**.831**	**.005 - .010**	.941	.821	.010 - .020	**.945**	**.671**	**.005 - .010**	.950	.775	.020 - .035	**.961**	**.621**	**.005 - .010**
.937	.410	.015 - .030	.939	.040	.010 - .020	.941	.880	.020 - .030	.945	.673	.015 - .030	.950	.807	.010 - .020	.961	.676	.020 - .030
.937	.431	.050 - .075	.939	.126	.020 - .030	.942	.171	.025 - .040	.945	.686	.060 - .105	**.950**	**.815**	**.005 - .010**	**.961**	**.730**	**.005 - .010**
.937	.437	.156 - .187	.939	.189	.105 - .135	**.942**	**.407**	**.005 - .010**	.945	.708	.060 - .080	.951	.156	.015 - .030	.961	.820	.010 - .020
.937	.440	.020 - .040	.939	.195	.105 - .125	.942	.455	.030 - .120	.945	.710	.030 - .050	.951	.376	.010 - .020	.961	.844	.010 - .020
.937	**.444**	**.005 - .008**	.939	.218	.100 - .125	.942	.475	.030 - .050	.945	.714	.060 - .080	.951	.377	.020 - .030	**.961**	**.878**	**.005 - .010**
.937	.460	.025 - .040	**.939**	**.442**	**.005 - .030**	.942	.484	.010 - .020	.945	.719	.070 - .090	.951	.380	.040 - .060	.962	.045	.015 - .025
.937	.480	.015 - .030	.939	.457	.008 - .016	.942	.504	.030 - .050	**.945**	**.737**	**.005 - .010**	.951	.388	.010 - .020	**.962**	**.055**	**.005 - .010**
.937	**.487**	**.005 - .010**	**.939**	**.496**	**.005 - .010**	.942	.508	.090 - .120	.945	.831	.015 - .030	.951	.500	.010 - .020	**.962**	**.766**	**.005 - .010**
.937	.500	.015 - .030	.939	.560	.080 - .104	.942	.515	.015 - .035	**.945**	**.845**	**.005 - .015**	.951	.586	.015 - .025	.962	.769	.035 - .062
.937	.510	.020 - .110	**.939**	**.563**	**.005 - .010**	**.942**	**.530**	**.005 - .010**	.946	.386	.040 - .060	**.951**	**.661**	**.005 - .010**	.962	.789	.020 - .030
.937	.515	.030 - .050	.939	.610	.040 - .060	.942	.628	.060 - .080	.946	.398	.010 - .020	.951	.741	.020 - .030	**.963**	**.271**	**.005 - .010**
.937	.517	.105 - .125	.939	.628	.015 - .030	**.942**	**.693**	**.005 - .010**	**.946**	**.473**	**.005 - .010**	.952	.125	.025 - .040	.963	.283	.030 - .050
.937	**.518**	**.005 - .010**	.939	.630	.020 - .040	.942	.724	.100 - .125	.946	.513	.105 - .125	.952	.166	.060 - .080	.963	.451	.030 - .050
.937	.520	.020 - .125	.939	.633	.015 - .030	**.942**	**.744**	**.005 - .010**	.946	.602	.025 - .042	.952	.198	.048 - .070	.963	.500	.010 - .020
.937	**.570**	**.005 - .010**	.939	.640	.015 - .025	**.942**	**.794**	**.005 - .010**	**.946**	**.678**	**.005 - .010**	.952	.213	.048 - .070	**.963**	**.504**	**.005 - .010**
.937	.578	.080 - .104	.939	.656	.030 - .040	.942	.798	.020 - .030	.946	.686	.062 - .070	**.952**	**.376**	**.005 - .010**	.963	.659	.080 - .100
.937	.580	.030 - .050	.939	.660	.050 - .070	**.943**	**.406**	**.005 - .010**	.946	.717	.060 - .080	**.952**	**.470**	**.005 - .010**	.963	.758	.020 - .030
.937	.594	.050 - .060	.939	.678	.040 - .060	.943	.418	.120 - .140	.946	.786	.050 - .070	.952	.502	.050 - .070	.963	.800	.030 - .050
.937	.624	.075 - .090	**.939**	**.700**	**.005 - .010**	.943	.426	.020 - .040	**.947**	**.128**	**.005 - .010**	.952	.555	.060 - .070	.963	.885	.010 - .020
.937	**.625**	**.005 - .010**	.939	.739	.050 - .070	.943	.442	.010 - .030	.947	.397	.010 - .020	.952	.570	.080 - .100	.964	.500	.015 - .030
.937	.629	.030 - .050	.939	.783	.040 - .060	.943	.473	.075 - .090	.947	.463	.060 - .070	**.952**	**.627**	**.005 - .010**	.964	.652	.090 - .120
.937	.637	.025 - .042	.939	.799	.030 - .050	**.943**	**.475**	**.005 - .010**	.947	.566	.030 - .048	.952	.685	.060 - .070	.965	.264	.020 - .040
.937	.640	.032 - .060	.939	.869	.015 - .025	**.943**	**.517**	**.005 - .010**	.947	.599	.042 - .060	**.952**	**.687**	**.005 - .010**	.965	.423	.030 - .040
.937	**.650**	**.005 - .010**	.940	.186	.031 - .048	.943	.547	.030 - .050	.947	.730	.030 - .050	.953	.693	.105 - .125	.965	.506	.060 - .075
.937	.656	.032 - .060	.940	.194	.010 - .020	.943	.568	.080 - .100	.947	.757	.010 - .025	.953	.710	.105 - .135	.965	.514	.090 - .120
.937	**.672**	**.005 - .010**	**.940**	**.231**	**.005 - .010**	.943	.596	.030 - .050	.947	.780	.020 - .040	.953	.742	.090 - .105	.965	.580	.032 - .060
.937	.675	.060 - .075	.940	.253	.007 - .015	**.943**	**.597**	**.005 - .012**	.947	.783	.048 - .062	**.954**	**.322**	**.005 - .010**	.965	.610	.020 - .035
.937	.687	.100 - .125	.940	.315	.010 - .075	.943	.736	.070 - .090	.947	.799	.010 - .020	.954	.630	.105 - .125	.965	.620	.025 - .040
.937	.693	.015 - .020	.940	.400	.160 - .190	.944	.150	.040 - .060	**.947**	**.821**	**.005 - .010**	.954	.670	.060 - .070	**.965**	**.644**	**.005 - .010**
.937	.703	.010 - .020	.940	.407	.090 - .120	**.944**	**.238**	**.005 - .010**	**.948**	**.059**	**.005 - .010**	.954	.753	.040 - .060	.965	.669	.080 - .105

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

New tools added continually. Call for sizes not listed — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
.965	**.709**	**.005 - .010**	.974	.768	.030 - .050	**.981**	**.586**	**.005 - .015**	**.985**	**.443**	**.005 - .010**	.990	.560	.030 - .060	**.994**	**.721**	**.005 - .010**
.965	.754	.020 - .040	**.975**	**.440**	**.005 - .010**	.981	.730	.030 - .050	.985	.450	.025 - .035	.990	.562	.080 - .156	**.994**	**.813**	**.005 - .010**
.965	.783	.020 - .036	**.975**	**.495**	**.005 - .010**	.981	.752	.020 - .040	.985	.451	.070 - .090	.990	.595	.105 - .125	**.994**	**.900**	**.005 - .010**
.966	.391	.040 - .060	.975	.503	.015 - .030	**.981**	**.840**	**.005 - .010**	.985	.475	.010 - .015	.990	.605	.075 - .090	**.995**	**.083**	**.005 - .010**
.966	.542	.020 - .032	.975	.531	.010 - .020	**.981**	**.845**	**.005 - .015**	.985	.490	.120 - .156	.990	.625	.020 - .040	.995	.157	.032 - .042
.966	.643	.080 - .105	.975	.532	.025 - .040	.982	.286	.030 - .060	.985	.500	.020 - .032	.990	.626	.050 - .075	.995	.160	.015 - .030
.966	.703	.060 - .075	.975	.550	.050 - .060	.982	.345	.060 - .080	.985	.503	.008 - .015	**.990**	**.631**	**.005 - .010**	**.995**	**.196**	**.005 - .010**
.967	**.265**	**.005 - .030**	.975	.570	.050 - .090	**.982**	**.501**	**.005 - .010**	.985	.506	.100 - .120	**.990**	**.645**	**.005 - .010**	.995	.282	.025 - .050
.967	.375	.090 - .125	.975	.596	.030 - .040	.982	.502	.015 - .030	.985	.512	.030 - .050	.990	.661	.010 - .020	.995	.297	.100 - .125
.967	.542	.015 - .030	.975	.630	.010 - .020	**.982**	**.503**	**.005 - .010**	.985	.535	.040 - .060	**.990**	**.693**	**.005 - .010**	.995	.374	.050 - .070
.967	.567	.070 - .090	**.975**	**.640**	**.005 - .020**	.982	.504	.100 - .125	.985	.548	.010 - .015	.990	.703	.020 - .040	**.995**	**.378**	**.005 - .030**
.967	.593	.050 - .075	.975	.687	.090 - .100	.982	.562	.060 - .080	.985	.556	.040 - .060	.990	.735	.030 - .050	.995	.392	.050 - .070
.967	.719	.060 - .080	.975	.697	.062 - .075	**.982**	**.620**	**.005 - .010**	.985	.565	.062 - .105	.990	.758	.020 - .105	**.995**	**.410**	**.005 - .010**
.967	.761	.050 - .075	**.975**	**.699**	**.005 - .010**	.982	.704	.010 - .020	.985	.587	.020 - .032	.990	.759	.080 - .100	**.995**	**.447**	**.005 - .010**
.968	.517	.050 - .075	.975	.765	.040 - .050	.982	.752	.030 - .050	.985	.635	.060 - .080	.990	.760	.010 - .042	.995	.453	.008 - .016
.968	.625	.050 - .070	**.975**	**.795**	**.005 - .012**	**.982**	**.801**	**.005 - .010**	**.985**	**.669**	**.005 - .010**	.990	.770	.020 - .030	.995	.500	.070 - .090
.968	**.634**	**.005 - .015**	.975	.804	.030 - .060	.982	.875	.020 - .040	.985	.685	.100 - .125	**.990**	**.780**	**.005 - .010**	.995	.515	.070 - .090
.968	.655	.025 - .045	**.975**	**.825**	**.005 - .010**	.983	.090	.010 - .025	**.985**	**.700**	**.005 - .015**	**.990**	**.800**	**.005 - .010**	.995	.534	.083 - .105
.968	.675	.015 - .030	.975	.885	.010 - .020	.983	.242	.040 - .060	.985	.721	.040 - .105	.990	.810	.010 - .030	.995	.535	.062 - .120
.968	.687	.020 - .040	.976	.394	.035 - .050	.983	.257	.100 - .125	.985	.760	.042 - .062	**.990**	**.813**	**.005 - .010**	.995	.538	.015 - .030
.968	.718	.050 - .075	.976	.503	.030 - .050	.983	.280	.015 - .025	**.985**	**.789**	**.005 - .025**	.990	.820	.016 - .032	.995	.559	.125 - .187
.968	.729	.015 - .030	.976	.525	.010 - .020	**.983**	**.315**	**.005 - .010**	**.985**	**.790**	**.005 - .010**	.990	.842	.010 - .020	.995	.564	.040 - .060
.968	**.741**	**.005 - .010**	.976	.527	.015 - .030	**.983**	**.319**	**.005 - .010**	**.985**	**.806**	**.005 - .010**	.990	.858	.025 - .040	.995	.566	.030 - .060
.968	.869	.025 - .040	**.976**	**.565**	**.005 - .010**	.983	.323	.040 - .060	.985	.825	.010 - .020	.990	.910	.015 - .025	.995	.573	.050 - .070
.969	.250	.050 - .070	**.976**	**.640**	**.005 - .020**	.983	.381	.015 - .030	.986	.220	.070 - .090	.991	.071	.010 - .020	.995	.630	.050 - .070
.969	.391	.030 - .050	**.976**	**.661**	**.005 - .010**	.983	.396	.050 - .075	.986	.337	.030 - .050	.991	.267	.060 - .080	.995	.657	.025 - .048
.969	.436	.050 - .075	**.976**	**.717**	**.005 - .010**	.983	.398	.050 - .070	.986	.408	.020 - .040	**.991**	**.303**	**.005 - .010**	**.995**	**.665**	**.005 - .012**
.969	.559	.020 - .040	.976	.872	.010 - .020	**.983**	**.434**	**.005 - .010**	.986	.585	.050 - .070	**.991**	**.316**	**.005 - .010**	.995	.666	.015 - .030
.969	.565	.020 - .030	.977	.276	.015 - .030	.983	.471	.008 - .015	.986	.631	.010 - .020	.991	.317	.090 - .125	.995	.694	.020 - .062
.969	**.582**	**.005 - .010**	.977	.315	.015 - .040	**.983**	**.502**	**.005 - .010**	.986	.635	.060 - .080	**.991**	**.405**	**.005 - .010**	.995	.700	.020 - .040
.969	.638	.025 - .042	**.977**	**.485**	**.005 - .010**	.983	.659	.010 - .020	.986	.700	.030 - .050	.991	.406	.090 - .125	**.995**	**.717**	**.005 - .012**
.969	.641	.060 - .080	.977	.550	.020 - .030	.983	.670	.020 - .040	.986	.710	.105 - .125	**.991**	**.412**	**.005 - .010**	.995	.720	.030 - .060
.969	.656	.060 - .080	.977	.560	.020 - .040	.983	.678	.060 - .080	**.986**	**.779**	**.005 - .010**	**.991**	**.515**	**.005 - .010**	.995	.740	.025 - .040
.969	.661	.060 - .080	.977	.626	.070 - .090	**.983**	**.719**	**.005 - .010**	.986	.859	.030 - .050	**.991**	**.605**	**.005 - .010**	**.995**	**.750**	**.005 - .010**
.969	**.750**	**.005 - .010**	.977	.720	.010 - .040	.983	.753	.020 - .030	**.987**	**.348**	**.005 - .010**	.991	.627	.105 - .135	**.995**	**.763**	**.005 - .010**
.969	.770	.010 - .048	.977	.778	.070 - .090	.984	.183	.050 - .075	**.987**	**.397**	**.005 - .010**	.991	.678	.030 - .050	**.995**	**.766**	**.005 - .010**
.969	.792	.025 - .048	.978	.180	.020 - .040	**.984**	**.238**	**.005 - .010**	.987	.516	.050 - .070	.991	.751	.030 - .040	.995	.873	.040 - .060
.969	.802	.015 - .030	.978	.437	.050 - .075	**.984**	**.239**	**.005 - .010**	.987	.748	.025 - .042	.991	.779	.040 - .060	.995	.938	.010 - .020
.970	.092	.025 - .048	.978	.503	.025 - .040	.984	.257	.105 - .125	.988	.255	.025 - .040	.991	.796	.020 - .030	.996	.120	.042 - .062
.970	.262	.100 - .125	**.978**	**.515**	**.005 - .120**	**.984**	**.284**	**.005 - .010**	.988	.354	.020 - .040	**.991**	**.877**	**.005 - .010**	**.996**	**.170**	**.005 - .010**
.970	.345	.020 - .040	.978	.659	.015 - .020	.984	.355	.080 - .104	.988	.499	.040 - .060	.991	.880	.015 - .060	**.996**	**.255**	**.005 - .010**
.970	.380	.025 - .040	.978	.690	.010 - .020	**.984**	**.394**	**.005 - .010**	.988	.505	.090 - .120	**.991**	**.887**	**.005 - .010**	.996	.283	.090 - .125
.970	.418	.070 - .080	.979	.171	.015 - .035	.984	.395	.100 - .125	.988	.506	.025 - .040	**.992**	**.260**	**.005 - .010**	**.996**	**.318**	**.005 - .010**
.970	**.440**	**.005 - .010**	.979	.285	.015 - .030	**.984**	**.435**	**.005 - .010**	.988	.597	.040 - .060	**.992**	**.263**	**.005 - .010**	**.996**	**.323**	**.005 - .010**
.970	.515	.080 - .100	**.979**	**.393**	**.005 - .010**	.984	.469	.080 - .100	**.988**	**.703**	**.005 - .010**	**.992**	**.270**	**.005 - .015**	.996	.396	.100 - .125
.970	.550	.010 - .020	**.979**	**.405**	**.005 - .010**	**.984**	**.473**	**.005 - .010**	.988	.736	.040 - .060	.992	.316	.110 - .130	.996	.441	.020 - .030
.970	.631	.156 - .187	.979	.563	.070 - .090	.984	.481	.040 - .060	**.988**	**.758**	**.005 - .015**	.992	.330	.110 - .130	.996	.463	.060 - .080
.970	**.670**	**.005 - .010**	**.979**	**.630**	**.005 - .010**	.984	.507	.070 - .090	.988	.759	.030 - .050	.992	.387	.020 - .040	.996	.511	.040 - .060
.970	**.723**	**.005 - .010**	**.979**	**.674**	**.005 - .010**	.984	.513	.105 - .125	**.988**	**.760**	**.005 - .010**	.992	.523	.025 - .040	.996	.578	.075 - .090
.970	.754	.040 - .060	.979	.678	.025 - .040	.984	.530	.042 - .062	.988	.877	.015 - .030	**.992**	**.536**	**.005 - .010**	.996	.630	.010 - .015
.970	**.769**	**.005 - .010**	**.979**	**.705**	**.005 - .010**	**.984**	**.531**	**.005 - .010**	**.989**	**.176**	**.005 - .010**	.992	.582	.030 - .050	.996	.666	.040 - .060
.970	.802	.030 - .048	.979	.710	.030 - .050	**.984**	**.556**	**.005 - .010**	.989	.201	.080 - .100	**.992**	**.669**	**.005 - .010**	.996	.692	.010 - .030
.970	.882	.010 - .020	.980	.246	.015 - .030	.984	.572	.040 - .060	.989	.259	.060 - .070	.992	.687	.105 - .135	.996	.740	.050 - .070
.971	.345	.105 - .135	.980	.302	.015 - .030	.984	.625	.040 - .060	.989	.282	.080 - .100	.992	.688	.050 - .070	**.996**	**.758**	**.005 - .010**
.971	.376	.060 - .080	**.980**	**.347**	**.005 - .010**	.984	.628	.035 - .060	.989	.400	.100 - .125	.992	.754	.040 - .060	.996	.785	.050 - .075
.971	.408	.050 - .075	.980	.395	.015 - .025	.984	.630	.015 - .025	.989	.506	.070 - .090	.992	.835	.010 - .015	**.996**	**.788**	**.005 - .010**
.971	.439	.020 - .040	.980	.407	.100 - .125	.984	.641	.080 - .105	.989	.515	.060 - .080	.993	.249	.040 - .050	.996	.798	.040 - .050
.971	.444	.020 - .030	**.980**	**.445**	**.005 - .010**	.984	.643	.060 - .080	.989	.560	.025 - .040	.993	.295	.062 - .120	.996	.808	.040 - .060
.971	.550	.030 - .050	.980	.458	.020 - .030	.984	.648	.015 - .030	**.989**	**.640**	**.005 - .010**	.993	.297	.062 - .120	.996	.812	.060 - .080
.971	**.605**	**.005 - .010**	**.980**	**.481**	**.005 - .010**	.984	.650	.100 - .125	.989	.736	.100 - .120	**.993**	**.316**	**.005 - .010**	.996	.813	.015 - .030
.971	.631	.080 - .104	.980	.500	.010 - .020	.984	.689	.020 - .030	**.989**	**.739**	**.005 - .010**	.993	.371	.070 - .090	**.996**	**.823**	**.005 - .060**
.971	.720	.104 - .125	**.980**	**.501**	**.005 - .010**	.984	.715	.050 - .075	.989	.771	.060 - .075	.993	.523	.040 - .060	.996	.859	.040 - .060
.971	**.761**	**.005 - .020**	**.980**	**.514**	**.005 - .010**	.984	.716	.025 - .042	.989	.789	.020 - .040	.993	.605	.020 - .040	.996	.864	.040 - .060
.971	.837	.040 - .060	.980	.521	.025 - .040	.984	.748	.010 - .020	.989	.830	.015 - .030	.993	.638	.040 - .060	**.996**	**.877**	**.005 - .030**
.971	.865	.030 - .050	**.980**	**.522**	**.005 - .010**	.984	.749	.040 - .060	**.989**	**.844**	**.005 - .020**	.993	.640	.062 - .090	.996	.880	.020 - .030
.972	.335	.040 - .060	.980	.600	.030 - .105	.984	.794	.070 - .090	**.989**	**.879**	**.005 - .010**	.993	.655	.070 - .090	.996	.881	.025 - .040
.972	.365	.010 - .020	.980	.640	.007 - .015	.984	.795	.025 - .042	.990	.125	.040 - .060	.993	.689	.010 - .040	.997	.152	.050 - .075
.972	.570	.100 - .130	**.980**	**.647**	**.005 - .010**	.984	.798	.070 - .090	.990	.126	.010 - .020	.994	.243	.025 - .042	.997	.171	.040 - .062
.972	.657	.015 - .105	.980	.664	.060 - .083	.984	.799	.040 - .060	.990	.355	.080 - .100	.994	.287	.090 - .110	**.997**	**.250**	**.005 - .010**
.972	.746	.050 - .070	.980	.719	.040 - .060	**.984**	**.817**	**.005 - .010**	.990	.437	.010 - .020	.994	.431	.010 - .020	**.997**	**.312**	**.005 - .010**
.972	.764	.050 - .075	.980	.757	.080 - .104	.984	.880	.015 - .030	.990	.438	.105 - .125	.994	.441	.090 - .110	.997	.315	.060 - .080
.973	.110	.050 - .072	.980	.841	.030 - .050	.985	.209	.060 - .080	.990	.442	.006 - .015	**.994**	**.484**	**.005 - .010**	**.997**	**.327**	**.005 - .010**
.973	**.567**	**.005 - .010**	**.980**	**.860**	**.005 - .010**	.985	.215	.040 - .060	.990	.443	.006 - .015	.994	.500	.090 - .100	**.997**	**.456**	**.005 - .010**
.973	**.595**	**.005 - .075**	.981	.396	.010 - .020	.985	.250	.040 - .050	.990	.454	.060 - .080	.994	.508	.090 - .105	.997	.466	.080 - .100
.974	.226	.050 - .075	.981	.467	.020 - .030	.985	.276	.060 - .080	.990	.456	.030 - .050	.994	.513	.130 - .150	.997	.503	.030 - .050
.974	.260	.050 - .070	.981	.504	.050 - .060	**.985**	**.316**	**.005 - .010**	.990	.469	.080 - .100	**.994**	**.540**	**.005 - .010**	.997	.508	.050 - .070
.974	.669	.015 - .025	**.981**	**.512**	**.005 - .010**	.985	.331	.070 - .090	.990	.510	.025 - .040	.994	.552	.040 - .050	**.997**	**.533**	**.005 - .010**
.974	.699	.025 - .040	.981	.525	.015 - .030	**.985**	**.354**	**.005 - .010**	**.990**	**.512**	**.005 - .010**	.994	.565	.040 - .060	.997	.537	.040 - .062
.974	.716	.120 - .135	**.981**	**.565**	**.005 - .010**	**.985**	**.395**	**.005 - .010**	.990	.516	.030 - .050	**.994**	**.605**	**.005 - .010**	.997	.549	.020 - .040
.974	.755	.050 - .070	.981	.577	.075 - .104	.985	.409	.120 - .140	.990	.526	.090 - .105	.994	.625	.050 - .075	.997	.563	.125 - .187

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

For non-metallic materials, contact BOKER'S — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
.997	**.622**	**.005 - .010**	.999	.629	.050 - .070	1.000	.273	.135 - .190	1.000	.504	.010 - .110	1.000	.753	.050 - .070	1.001	.756	.025 - .050
.997	.640	.090 - .105	**.999**	**.633**	**.005 - .010**	1.000	.278	.050 - .075	1.000	.505	.030 - .050	1.000	.754	.020 - .075	1.001	.818	.080 - .105
.997	.689	.050 - .070	.999	.657	.080 - .100	1.000	.280	.040 - .060	1.000	.506	.010 - .020	**1.000**	**.755**	**.005 - .125**	**1.001**	**.906**	**.005 - .010**
.997	**.718**	**.005 - .015**	.999	.674	.100 - .134	**1.000**	**.281**	**.005 - .125**	1.000	.507	.020 - .187	1.000	.756	.030 - .050	1.002	.136	.050 - .070
.997	.748	.030 - .050	.999	.675	.100 - .134	1.000	.282	.006 - .070	**1.000**	**.508**	**.005 - .015**	**1.000**	**.759**	**.005 - .040**	1.002	.140	.042 - .060
.997	.756	.016 - .025	**.999**	**.680**	**.005 - .010**	1.000	.283	.040 - .060	1.000	.508	.180 - .190	1.000	.760	.060 - .080	1.002	.172	.010 - .025
.997	**.758**	**.005 - .010**	**.999**	**.693**	**.005 - .010**	**1.000**	**.292**	**.005 - .010**	1.000	.510	.060 - .083	1.000	.761	.035 - .050	**1.002**	**.197**	**.005 - .010**
.997	.769	.025 - .040	.999	.700	.020 - .030	1.000	.293	.080 - .104	1.000	.511	.032 - .060	1.000	.764	.105 - .125	1.002	.277	.010 - .020
.998	.062	.030 - .050	.999	.715	.010 - .020	**1.000**	**.301**	**.005 - .010**	1.000	.513	.140 - .160	1.000	.765	.030 - .050	1.002	.312	.135 - .160
.998	.111	.010 - .020	.999	.754	.050 - .070	1.000	.310	.062 - .090	**1.000**	**.515**	**.005 - .125**	1.000	.766	.100 - .125	1.002	.319	.060 - .080
.998	.125	.040 - .060	.999	.755	.090 - .105	1.000	.311	.150 - .180	1.000	.515	.126 - .187	1.000	.767	.050 - .075	**1.002**	**.379**	**.005 - .010**
.998	.131	.015 - .025	**.999**	**.763**	**.005 - .010**	1.000	.315	.031 - .042	**1.000**	**.517**	**.005 - .010**	1.000	.768	.010 - .020	1.002	.384	.090 - .125
.998	.136	.015 - .030	.999	.787	.025 - .040	**1.000**	**.316**	**.005 - .020**	1.000	.518	.015 - .125	**1.000**	**.770**	**.005 - .060**	1.002	.442	.050 - .070
.998	**.138**	**.005 - .015**	**.999**	**.790**	**.005 - .010**	**1.000**	**.317**	**.005 - .012**	1.000	.520	.100 - .125	1.000	.771	.015 - .030	1.002	.454	.025 - .042
.998	.156	.050 - .075	.999	.822	.050 - .070	1.000	.318	.050 - .105	1.000	.531	.120 - .140	1.000	.776	.070 - .090	**1.002**	**.470**	**.005 - .075**
.998	**.190**	**.005 - .010**	.999	.832	.025 - .040	1.000	.320	.010 - .125	1.000	.534	.050 - .070	1.000	.785	.100 - .125	1.002	.504	.100 - .125
.998	.202	.050 - .075	**.999**	**.840**	**.005 - .010**	1.000	.323	.050 - .070	1.000	.535	.010 - .060	1.000	.787	.060 - .070	1.002	.531	.035 - .090
.998	.230	.008 - .016	**.999**	**.878**	**.005 - .010**	1.000	.326	.090 - .120	1.000	.549	.100 - .125	**1.000**	**.791**	**.005 - .020**	**1.002**	**.532**	**.005 - .010**
.998	**.252**	**.005 - .020**				1.000	.328	.010 - .060	1.000	.550	.030 - .110	1.000	.796	.010 - .015	1.002	.534	.025 - .040
.998	.270	.060 - .083				1.000	.330	.105 - .125	1.000	.556	.025 - .040	1.000	.797	.025 - .125	1.002	.564	.062 - .083
.998	**.339**	**.005 - .010**				**1.000**	**.332**	**.005 - .010**	1.000	.562	.050 - .075	1.000	.800	.012 - .025	1.002	.579	.015 - .030
.998	.347	.100 - .125				1.000	.338	.100 - .125	**1.000**	**.563**	**.005 - .020**	1.000	.801	.025 - .040	1.002	.581	.050 - .070
.998	.348	.075 - .090				1.000	.340	.032 - .048	1.000	.564	.030 - .050	**1.000**	**.805**	**.005 - .010**	1.002	.652	.015 - .030
.998	.378	.080 - .105				1.000	.343	.050 - .070	1.000	.567	.010 - .020	**1.000**	**.815**	**.005 - .010**	1.002	.658	.100 - .125
.998	.395	.010 - .030				1.000	.344	.010 - .020	**1.000**	**.568**	**.005 - .010**	1.000	.828	.015 - .025	1.002	.685	.060 - .083
.998	.435	.020 - .030	1.000	.028	.010 - .015	1.000	.354	.100 - .125	**1.000**	**.572**	**.005 - .080**	1.000	.837	.040 - .060	1.002	.700	.125 - .135
.998	.501	.040 - .060	1.000	.064	.010 - .020	1.000	.357	.010 - .020	1.000	.578	.100 - .125	1.000	.845	.030 - .050	1.002	.703	.050 - .070
.998	.503	.030 - .125	**1.000**	**.066**	**.005 - .010**	**1.000**	**.363**	**.005 - .010**	1.000	.579	.020 - .040	**1.000**	**.850**	**.005 - .010**	1.002	.718	.020 - .040
.998	.504	.030 - .060	1.000	.073	.020 - .035	1.000	.372	.010 - .020	1.000	.590	.020 - .125	1.000	.851	.070 - .080	1.002	.719	.062 - .083
.998	**.506**	**.005 - .125**	1.000	.077	.015 - .030	1.000	.375	.060 - .187	1.000	.594	.156 - .187	1.000	.854	.010 - .020	1.002	.767	.020 - .040
.998	.508	.090 - .110	**1.000**	**.086**	**.005 - .010**	**1.000**	**.376**	**.005 - .010**	1.000	.598	.060 - .070	**1.000**	**.855**	**.005 - .010**	1.002	.820	.020 - .040
.998	**.509**	**.005 - .010**	1.000	.093	.010 - .020	**1.000**	**.377**	**.005 - .010**	**1.000**	**.600**	**.005 - .010**	1.000	.875	.016 - .025	1.002	.842	.030 - .050
.998	.515	.080 - .100	1.000	.094	.030 - .060	**1.000**	**.378**	**.005 - .050**	1.000	.605	.010 - .020	**1.000**	**.876**	**.005 - .010**	1.002	.897	.025 - .040
.998	**.516**	**.005 - .010**	1.000	.100	.050 - .070	1.000	.379	.042 - .134	**1.000**	**.610**	**.005 - .120**	1.000	.879	.030 - .060	1.003	.211	.010 - .020
.998	.534	.030 - .050	1.000	.116	.010 - .062	**1.000**	**.381**	**.005 - .020**	1.000	.611	.030 - .060	1.000	.880	.010 - .020	**1.003**	**.377**	**.005 - .015**
.998	.562	.015 - .020	1.000	.117	.040 - .060	1.000	.384	.060 - .090	1.000	.623	.030 - .050	1.000	.892	.030 - .050	**1.003**	**.410**	**.005 - .020**
.998	.563	.075 - .100	1.000	.118	.040 - .060	1.000	.386	.050 - .075	**1.000**	**.624**	**.005 - .125**	**1.000**	**.900**	**.005 - .010**	1.003	.441	.030 - .050
.998	.573	.050 - .070	**1.000**	**.129**	**.005 - .010**	1.000	.387	.007 - .016	1.000	.624	.126 - .187	1.000	.911	.020 - .035	1.003	.445	.010 - .020
.998	**.577**	**.005 - .010**	1.000	.131	.015 - .030	**1.000**	**.388**	**.005 - .010**	1.000	.625	.015 - .030	**1.000**	**.936**	**.005 - .010**	1.003	.455	.062 - .080
.998	.578	.010 - .020	1.000	.142	.010 - .062	1.000	.389	.048 - .075	1.000	.626	.050 - .075	1.000	.957	.015 - .025	**1.003**	**.498**	**.005 - .015**
.998	.580	.157 - .187	1.000	.143	.030 - .050	1.000	.392	.075 - .125	1.000	.627	.105 - .125	**1.000**	**.958**	**.005 - .010**	**1.003**	**.508**	**.005 - .010**
.998	**.629**	**.005 - .010**	**1.000**	**.147**	**.005 - .010**	1.000	.395	.010 - .020	**1.000**	**.628**	**.005 - .030**	**1.001**	**.164**	**.005 - .010**	1.003	.628	.045 - .060
.998	.630	.010 - .020	1.000	.156	.020 - .040	1.000	.400	.010 - .020	**1.000**	**.629**	**.005 - .010**	1.001	.203	.025 - .040	**1.003**	**.641**	**.005 - .012**
.998	.637	.040 - .060	1.000	.157	.070 - .090	1.000	.403	.105 - .125	1.000	.630	.030 - .060	**1.001**	**.218**	**.005 - .010**	1.003	.723	.025 - .040
.998	.662	.050 - .070	1.000	.170	.030 - .050	1.000	.405	.042 - .100	1.000	.631	.134 - .156	1.001	.247	.090 - .105	1.003	.780	.010 - .020
.998	**.672**	**.005 - .012**	1.000	.172	.090 - .120	1.000	.406	.020 - .030	1.000	.632	.090 - .110	1.001	.250	.062 - .120	1.003	.807	.030 - .048
.998	.678	.032 - .042	**1.000**	**.178**	**.005 - .010**	1.000	.407	.156 - .187	1.000	.634	.025 - .060	**1.001**	**.251**	**.005 - .010**	**1.003**	**.810**	**.005 - .010**
.998	.694	.020 - .040	1.000	.180	.050 - .060	1.000	.409	.120 - .134	1.000	.636	.060 - .075	1.001	.253	.010 - .020	1.004	.148	.080 - .105
.998	.748	.035 - .060	1.000	.187	.050 - .125	**1.000**	**.410**	**.005 - .010**	1.000	.638	.100 - .125	1.001	.260	.080 - .100	**1.004**	**.185**	**.005 - .010**
.998	**.793**	**.005 - .010**	1.000	.192	.050 - .075	1.000	.414	.100 - .125	1.000	.640	.020 - .080	**1.001**	**.262**	**.005 - .010**	1.004	.320	.020 - .040
.998	**.855**	**.005 - .010**	1.000	.195	.010 - .110	1.000	.415	.025 - .040	**1.000**	**.641**	**.005 - .125**	1.001	.264	.090 - .120	**1.004**	**.423**	**.005 - .010**
.998	.877	.015 - .030	1.000	.196	.025 - .035	1.000	.418	.050 - .070	1.000	.641	.126 - .156	**1.001**	**.268**	**.005 - .010**	1.004	.458	.050 - .070
.998	**.913**	**.005 - .010**	1.000	.199	.008 - .080	1.000	.427	.110 - .120	1.000	.646	.040 - .080	1.001	.269	.050 - .070	**1.004**	**.531**	**.005 - .010**
.999	**.036**	**.005 - .010**	1.000	.200	.134 - .160	**1.000**	**.432**	**.005 - .010**	**1.000**	**.649**	**.005 - .010**	1.001	.285	.105 - .135	**1.004**	**.549**	**.005 - .010**
.999	.096	.010 - .020	1.000	.205	.050 - .075	1.000	.434	.104 - .125	1.000	.655	.030 - .050	1.001	.322	.080 - .100	1.004	.567	.100 - .125
.999	**.122**	**.005 - .010**	1.000	.209	.105 - .125	1.000	.437	.050 - .125	**1.000**	**.656**	**.005 - .010**	1.001	.344	.015 - .030	1.004	.628	.062 - .120
.999	.201	.050 - .070	1.000	.215	.050 - .075	1.000	.438	.020 - .040	1.000	.665	.050 - .070	**1.001**	**.378**	**.005 - .125**	1.004	.675	.100 - .125
.999	**.206**	**.005 - .010**	1.000	.217	.025 - .125	**1.000**	**.440**	**.005 - .010**	**1.000**	**.669**	**.005 - .032**	1.001	.380	.025 - .040	1.004	.705	.040 - .060
.999	.243	.030 - .050	1.000	.218	.015 - .048	1.000	.441	.100 - .120	1.000	.670	.105 - .125	**1.001**	**.385**	**.005 - .010**	1.004	.750	.090 - .105
.999	.252	.030 - .045	**1.000**	**.219**	**.005 - .125**	1.000	.443	.135 - .170	1.000	.671	.060 - .090	1.001	.389	.030 - .050	1.004	.760	.090 - .125
.999	**.253**	**.005 - .010**	**1.000**	**.221**	**.005 - .050**	**1.000**	**.444**	**.005 - .010**	1.000	.673	.080 - .100	**1.001**	**.409**	**.005 - .010**	1.004	.780	.010 - .020
.999	.267	.105 - .125	1.000	.225	.050 - .070	1.000	.445	.060 - .080	1.000	.674	.100 - .125	1.001	.416	.070 - .090	**1.004**	**.781**	**.005 - .010**
.999	**.284**	**.005 - .010**	**1.000**	**.228**	**.005 - .010**	1.000	.447	.010 - .020	**1.000**	**.675**	**.005 - .030**	1.001	.418	.050 - .070	1.004	.873	.050 - .070
.999	.344	.080 - .104	1.000	.237	.060 - .080	**1.000**	**.451**	**.005 - .010**	1.000	.676	.020 - .030	1.001	.439	.170 - .190	1.005	.210	.030 - .042
.999	.348	.080 - .104	1.000	.239	.015 - .030	1.000	.452	.010 - .020	1.000	.679	.050 - .070	**1.001**	**.494**	**.005 - .010**	1.005	.257	.100 - .125
.999	**.356**	**.005 - .010**	1.000	.250	.008 - .070	1.000	.457	.100 - .125	**1.000**	**.680**	**.005 - .125**	1.001	.500	.010 - .020	1.005	.262	.010 - .020
.999	.372	.030 - .060	1.000	.251	.105 - .125	**1.000**	**.459**	**.005 - .010**	1.000	.686	.030 - .060	**1.001**	**.503**	**.005 - .100**	1.005	.263	.100 - .125
.999	.375	.010 - .060	**1.000**	**.252**	**.005 - .080**	1.000	.465	.030 - .050	1.000	.688	.008 - .016	**1.001**	**.504**	**.005 - .030**	1.005	.480	.060 - .075
.999	**.376**	**.005 - .010**	1.000	.253	.030 - .120	1.000	.468	.100 - .125	1.000	.690	.025 - .048	1.001	.505	.015 - .025	1.005	.510	.025 - .040
.999	.382	.030 - .050	1.000	.255	.060 - .070	1.000	.471	.050 - .070	**1.000**	**.691**	**.005 - .010**	**1.001**	**.508**	**.005 - .105**	1.005	.536	.100 - .125
.999	.392	.030 - .050	1.000	.256	.020 - .040	1.000	.475	.020 - .040	**1.000**	**.700**	**.005 - .060**	1.001	.531	.170 - .190	1.005	.650	.080 - .100
.999	.401	.040 - .060	1.000	.258	.030 - .050	1.000	.476	.100 - .125	1.000	.709	.015 - .030	1.001	.564	.170 - .190	**1.005**	**.758**	**.005 - .010**
.999	.444	.030 - .050	**1.000**	**.263**	**.005 - .010**	**1.000**	**.480**	**.005 - .125**	**1.000**	**.716**	**.005 - .010**	1.001	.595	.050 - .070	1.005	.801	.010 - .020
.999	.453	.060 - .070	1.000	.264	.042 - .062	**1.000**	**.482**	**.005 - .010**	1.000	.720	.010 - .020	1.001	.611	.040 - .062	**1.005**	**.840**	**.005 - .010**
.999	**.505**	**.005 - .010**	1.000	.265	.010 - .020	1.000	.485	.040 - .135	1.000	.724	.040 - .060	**1.001**	**.626**	**.005 - .020**	**1.005**	**.900**	**.005 - .010**
.999	.518	.040 - .060	1.000	.266	.020 - .030	**1.000**	**.499**	**.005 - .010**	1.000	.733	.025 - .040	1.001	.628	.040 - .062	**1.005**	**.950**	**.005 - .010**
.999	.527	.090 - .105	1.000	.267	.050 - .075	**1.000**	**.500**	**.005 - .062**	**1.000**	**.742**	**.005 - .010**	1.001	.629	.050 - .070	1.006	.516	.080 - .105
.999	.563	.015 - .030	1.000	.268	.030 - .050	1.000	.501	.030 - .105	**1.000**	**.750**	**.005 - .125**	1.001	.688	.006 - .016	1.006	.584	.040 - .060
.999	.578	.010 - .020	**1.000**	**.270**	**.005 - .010**	**1.000**	**.502**	**.005 - .125**	1.000	.751	.100 - .125	1.001	.690	.050 - .070	1.006	.881	.015 - .030
.999	.626	.020 - .134	1.000	.272	.030 - .050	1.000	.502	.126 - .187	1.000	.752	.040 - .105	1.001	.711	.080 - .090	1.007	.203	.050 - .075

1.000

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Need Disks? All O.D. sizes available with no I.D. — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
1.007	.414	.015 - .025	1.020	.667	.010 - .020	1.025	.893	.020 - .040	1.034	.381	.075 - .090	1.048	.657	.010 - .020	1.055	.758	.010 - .020
1.007	.448	.015 - .025	**1.020**	**.700**	**.005 - .008**	1.025	.926	.020 - .040	1.034	.500	.070 - .090	**1.048**	**.688**	**.005 - .010**	1.055	.786	.015 - .030
1.007	.528	.080 - .105	1.020	.750	.040 - .060	**1.026**	**.239**	**.005 - .010**	**1.034**	**.654**	**.005 - .010**	**1.048**	**.882**	**.005 - .015**	**1.055**	**.791**	**.005 - .010**
1.007	.569	.135 - .160	1.020	.775	.050 - .070	1.026	.480	.030 - .050	1.034	.731	.015 - .030	1.048	.883	.015 - .030	**1.055**	**.856**	**.005 - .020**
1.007	.641	.015 - .030	1.020	.787	.030 - .048	1.026	.630	.060 - .080	**1.034**	**.827**	**.005 - .010**	1.049	.377	.010 - .020	1.055	.865	.050 - .060
1.007	.647	.100 - .125	1.020	.805	.060 - .075	1.026	.781	.040 - .060	**1.034**	**.830**	**.005 - .012**	1.049	.463	.060 - .090	1.055	.880	.040 - .060
1.007	.725	.062 - .075	1.020	.861	.025 - .048	**1.026**	**.917**	**.005 - .010**	1.035	.660	.070 - .090	1.049	.562	.010 - .020	1.055	.884	.035 - .050
1.007	.752	.036 - .050	1.020	.960	.015 - .030	**1.027**	**.203**	**.005 - .010**	1.035	.820	.020 - .030	1.049	.648	.040 - .060	1.055	.942	.020 - .035
1.007	**.764**	**.005 - .010**	**1.020**	**.962**	**.005 - .020**	1.027	.294	.070 - .090	1.035	.832	.030 - .050	1.049	.890	.030 - .050	1.055	.949	.010 - .020
1.008	.661	.060 - .080	1.021	.257	.050 - .075	**1.027**	**.382**	**.005 - .010**	1.035	.858	.040 - .060	**1.049**	**.950**	**.005 - .010**	1.055	.953	.010 - .020
1.008	.689	.050 - .060	1.021	.316	.040 - .060	1.027	.417	.075 - .090	1.035	.874	.060 - .080	1.050	.156	.025 - .042	**1.056**	**.205**	**.005 - .010**
1.008	.778	.015 - .030	**1.021**	**.575**	**.005 - .010**	1.027	.418	.070 - .090	1.035	.948	.010 - .020	1.050	.178	.025 - .040	1.056	.634	.050 - .075
1.008	.831	.030 - .040	1.021	.668	.015 - .020	**1.027**	**.439**	**.005 - .010**	1.035	.954	.020 - .030	1.050	.250	.015 - .030	**1.056**	**.659**	**.005 - .010**
1.008	.845	.050 - .070	**1.021**	**.726**	**.005 - .010**	1.027	.542	.070 - .090	1.036	.533	.050 - .083	**1.050**	**.314**	**.005 - .020**	1.056	.676	.040 - .060
1.009	.195	.025 - .042	1.021	.750	.025 - .040	1.027	.635	.020 - .070	**1.036**	**.678**	**.005 - .010**	1.050	.320	.170 - .190	1.056	.719	.032 - .060
1.009	.511	.030 - .050	1.021	.766	.015 - .030	1.027	.637	.010 - .030	1.036	.718	.090 - .105	1.050	.375	.062 - .120	**1.056**	**.726**	**.005 - .010**
1.010	.130	.060 - .070	1.021	.878	.020 - .030	1.027	.669	.075 - .100	1.036	.793	.075 - .090	**1.050**	**.376**	**.005 - .010**	**1.056**	**.841**	**.005 - .040**
1.010	**.388**	**.005 - .010**	1.021	.930	.015 - .030	1.027	.721	.040 - .060	1.037	.440	.015 - .030	1.050	.416	.020 - .030	1.056	.875	.010 - .020
1.010	**.450**	**.005 - .010**	**1.022**	**.219**	**.005 - .010**	1.027	.793	.060 - .083	1.037	.925	.030 - .048	1.050	.438	.015 - .030	1.056	.877	.015 - .030
1.010	**.506**	**.005 - .010**	**1.022**	**.318**	**.005 - .010**	1.027	.826	.020 - .040	1.038	.440	.025 - .042	**1.050**	**.500**	**.005 - .030**	**1.057**	**.350**	**.005 - .010**
1.010	.510	.015 - .030	**1.022**	**.394**	**.005 - .010**	1.027	.830	.060 - .080	1.038	.506	.050 - .075	**1.050**	**.503**	**.005 - .020**	**1.057**	**.838**	**.005 - .010**
1.010	.640	.050 - .060	1.022	.468	.030 - .050	1.027	.872	.050 - .060	1.038	.709	.030 - .050	**1.050**	**.504**	**.005 - .008**	**1.058**	**.251**	**.005 - .010**
1.010	.664	.025 - .040	1.022	.477	.010 - .020	1.028	.151	.090 - .105	1.038	.974	.010 - .020	**1.050**	**.564**	**.005 - .020**	1.058	.428	.040 - .050
1.010	.757	.015 - .025	**1.022**	**.552**	**.005 - .010**	1.028	.623	.060 - .080	1.038	.989	.015 - .025	1.050	.570	.015 - .030	1.058	.501	.010 - .020
1.011	.501	.015 - .030	1.022	.590	.015 - .030	1.028	.629	.032 - .048	1.039	.626	.030 - .060	**1.050**	**.626**	**.005 - .050**	1.058	.520	.040 - .060
1.012	.315	.030 - .040	1.022	.626	.030 - .050	1.028	.812	.020 - .040	1.039	.890	.010 - .020	**1.050**	**.629**	**.005 - .010**	1.058	.532	.060 - .075
1.012	.358	.010 - .020	1.022	.786	.100 - .125	1.028	.846	.050 - .070	**1.040**	**.138**	**.005 - .010**	**1.050**	**.635**	**.005 - .010**	1.058	.583	.090 - .110
1.012	.551	.030 - .040	1.022	.826	.030 - .050	**1.029**	**.318**	**.005 - .010**	**1.040**	**.378**	**.005 - .010**	1.050	.712	.032 - .060	**1.058**	**.601**	**.005 - .010**
1.012	.849	.015 - .030	1.022	.960	.030 - .042	1.029	.520	.120 - .135	1.040	.544	.090 - .120	1.050	.722	.032 - .042	**1.058**	**.626**	**.005 - .030**
1.012	.869	.020 - .040	1.023	.047	.020 - .030	1.029	.740	.030 - .050	1.040	.560	.030 - .050	**1.050**	**.753**	**.005 - .010**	**1.058**	**.628**	**.005 - .010**
1.012	.896	.010 - .020	**1.023**	**.127**	**.005 - .010**	1.029	.765	.050 - .070	1.040	.627	.020 - .040	1.050	.760	.030 - .050	1.058	.640	.050 - .070
1.013	**.755**	**.005 - .010**	1.023	.302	.030 - .040	1.030	.171	.050 - .070	1.040	.809	.012 - .025	1.050	.765	.010 - .020	**1.058**	**.676**	**.005 - .030**
1.013	.806	.040 - .060	**1.023**	**.395**	**.005 - .010**	1.030	.189	.075 - .090	1.040	.831	.025 - .035	1.050	.771	.110 - .120	1.058	.688	.105 - .125
1.013	.848	.042 - .060	**1.023**	**.398**	**.005 - .015**	1.030	.194	.030 - .050	1.040	.875	.025 - .040	1.050	.798	.025 - .048	1.058	.735	.050 - .083
1.014	.503	.060 - .080	1.023	.473	.020 - .030	1.030	.273	.060 - .075	1.040	.915	.010 - .020	**1.050**	**.804**	**.005 - .010**	1.058	.757	.030 - .050
1.014	.642	.020 - .040	**1.023**	**.474**	**.005 - .010**	1.030	.336	.156 - .187	1.040	.926	.020 - .030	1.050	.820	.030 - .050	1.058	.762	.075 - .100
1.014	.692	.040 - .060	1.023	.552	.060 - .080	1.030	.377	.020 - .030	1.041	.788	.015 - .030	**1.050**	**.826**	**.005 - .010**	1.058	.872	.050 - .070
1.014	**.848**	**.005 - .010**	**1.023**	**.553**	**.005 - .010**	1.030	.383	.015 - .030	**1.041**	**.909**	**.005 - .010**	**1.050**	**.828**	**.005 - .010**	1.058	.897	.060 - .080
1.014	**.860**	**.005 - .010**	1.023	.669	.060 - .080	1.030	.384	.010 - .015	**1.041**	**.919**	**.005 - .010**	**1.050**	**.876**	**.005 - .010**	1.059	.153	.015 - .030
1.014	.874	.015 - .030	1.023	.709	.010 - .020	1.030	.417	.030 - .050	1.042	.544	.090 - .120	1.050	.877	.050 - .070	1.059	.188	.040 - .060
1.014	.884	.025 - .040	1.023	.725	.050 - .070	1.030	.505	.050 - .070	1.042	.773	.015 - .030	1.050	.878	.010 - .090	1.059	.347	.060 - .070
1.015	.534	.050 - .075	**1.023**	**.730**	**.005 - .010**	1.030	.510	.062 - .080	1.043	.473	.105 - .135	**1.050**	**.896**	**.005 - .010**	1.059	.450	.090 - .120
1.015	.652	.060 - .080	**1.023**	**.839**	**.005 - .010**	1.030	.533	.110 - .130	1.043	.676	.070 - .090	1.050	.900	.030 - .050	1.059	.514	.015 - .030
1.015	.671	.010 - .020	1.023	.885	.010 - .020	1.030	.542	.015 - .030	1.044	.191	.032 - .060	1.050	.950	.030 - .040	1.059	.582	.030 - .050
1.015	**.755**	**.005 - .010**	1.023	.893	.015 - .030	**1.030**	**.585**	**.005 - .010**	1.044	.193	.007 - .015	**1.050**	**.970**	**.005 - .010**	1.059	.596	.050 - .070
1.015	.773	.020 - .030	**1.023**	**.909**	**.005 - .010**	**1.030**	**.649**	**.005 - .010**	1.044	.378	.020 - .040	**1.050**	**.984**	**.005 - .010**	**1.059**	**.634**	**.005 - .010**
1.015	**.790**	**.005 - .010**	1.024	.394	.010 - .020	1.030	.688	.050 - .060	1.044	.512	.020 - .030	1.051	.264	.090 - .110	1.059	.750	.050 - .070
1.015	.818	.100 - .125	**1.024**	**.395**	**.005 - .010**	1.030	.690	.090 - .125	1.044	.750	.100 - .125	1.051	.315	.008 - .015	1.059	.768	.020 - .040
1.015	.842	.050 - .070	**1.024**	**.398**	**.005 - .010**	1.030	.719	.100 - .125	1.044	.828	.025 - .042	1.051	.500	.010 - .020	1.059	.890	.040 - .060
1.016	.302	.100 - .125	1.024	.454	.040 - .060	1.030	.749	.040 - .060	1.044	.987	.010 - .020	1.051	.502	.015 - .030	1.059	.965	.015 - .025
1.016	.505	.050 - .070	**1.024**	**.473**	**.005 - .010**	1.030	.815	.020 - .030	1.045	.210	.030 - .042	1.051	.503	.015 - .025	1.060	.150	.060 - .080
1.016	**.750**	**.005 - .010**	**1.024**	**.476**	**.005 - .010**	1.030	.894	.050 - .075	1.045	.230	.008 - .016	**1.051**	**.504**	**.005 - .010**	1.060	.172	.010 - .020
1.016	**.920**	**.005 - .010**	1.024	.568	.050 - .070	**1.030**	**.952**	**.005 - .015**	**1.045**	**.252**	**.005 - .010**	1.051	.752	.110 - .130	1.060	.210	.010 - .020
1.016	**.929**	**.005 - .010**	**1.024**	**.629**	**.005 - .010**	1.030	.967	.020 - .030	1.045	.288	.030 - .042	1.051	.881	.060 - .080	1.060	.258	.025 - .035
1.017	.301	.050 - .075	1.024	.717	.070 - .090	1.031	.377	.015 - .030	**1.045**	**.300**	**.005 - .010**	**1.051**	**.964**	**.005 - .010**	1.060	.283	.156 - .187
1.017	**.627**	**.005 - .008**	1.024	.801	.030 - .050	**1.031**	**.385**	**.005 - .010**	1.045	.407	.030 - .050	**1.051**	**.988**	**.005 - .010**	1.060	.284	.040 - .062
1.017	**.754**	**.005 - .015**	1.024	.881	.010 - .020	1.031	.408	.105 - .135	**1.045**	**.465**	**.005 - .010**	1.052	.253	.010 - .020	**1.060**	**.318**	**.005 - .010**
1.017	**.825**	**.005 - .060**	**1.025**	**.315**	**.005 - .010**	1.031	.485	.020 - .040	1.045	.619	.010 - .020	**1.052**	**.595**	**.005 - .010**	1.060	.341	.010 - .020
1.017	**.865**	**.005 - .010**	**1.025**	**.318**	**.005 - .010**	**1.031**	**.520**	**.005 - .010**	1.045	.704	.030 - .050	**1.052**	**.715**	**.005 - .010**	1.060	.378	.105 - .135
1.017	.878	.048 - .062	1.025	.330	.020 - .040	1.031	.864	.080 - .100	**1.045**	**.750**	**.005 - .032**	1.052	.760	.105 - .125	1.060	.394	.100 - .125
1.018	.203	.008 - .015	1.025	.375	.030 - .040	1.031	.910	.010 - .020	1.045	.880	.025 - .040	1.052	.765	.060 - .070	1.060	.396	.025 - .048
1.018	.688	.050 - .070	1.025	.394	.010 - .020	1.031	.958	.010 - .020	1.045	.894	.050 - .060	1.052	.881	.050 - .075	**1.060**	**.429**	**.005 - .010**
1.018	.696	.050 - .070	**1.025**	**.395**	**.005 - .010**	1.032	.175	.100 - .125	**1.046**	**.138**	**.005 - .010**	1.053	.530	.075 - .090	1.060	.451	.105 - .125
1.018	.747	.048 - .062	1.025	.410	.036 - .060	1.032	.259	.062 - .090	1.046	.345	.070 - .090	1.053	.627	.070 - .090	1.060	.469	.105 - .125
1.018	.807	.010 - .020	1.025	.433	.050 - .070	1.032	.378	.010 - .020	1.046	.517	.035 - .050	1.053	.662	.025 - .050	**1.060**	**.479**	**.005 - .010**
1.018	.824	.020 - .040	1.025	.440	.090 - .110	1.032	.529	.100 - .125	**1.046**	**.908**	**.005 - .010**	1.053	.752	.110 - .130	1.060	.510	.020 - .035
1.018	**.826**	**.005 - .010**	**1.025**	**.475**	**.005 - .010**	1.032	.633	.080 - .100	1.046	.943	.020 - .035	**1.053**	**.893**	**.005 - .020**	1.060	.512	.156 - .188
1.018	.832	.020 - .040	**1.025**	**.477**	**.005 - .010**	1.032	.656	.100 - .125	**1.047**	**.287**	**.005 - .010**	**1.054**	**.503**	**.005 - .010**	1.060	.513	.105 - .135
1.019	.166	.015 - .030	**1.025**	**.505**	**.005 - .020**	1.032	.788	.020 - .030	**1.047**	**.480**	**.005 - .010**	**1.054**	**.649**	**.005 - .010**	1.060	.531	.010 - .020
1.019	.415	.020 - .030	**1.025**	**.550**	**.005 - .012**	1.032	.849	.070 - .090	1.047	.499	.006 - .015	1.054	.725	.015 - .030	1.060	.563	.015 - .030
1.019	.613	.015 - .030	1.025	.606	.048 - .062	1.032	.925	.015 - .030	**1.047**	**.522**	**.005 - .010**	**1.054**	**.749**	**.005 - .010**	1.060	.573	.060 - .080
1.019	.665	.030 - .050	1.025	.632	.010 - .020	1.032	.955	.020 - .040	1.047	.627	.070 - .090	1.054	.840	.008 - .012	1.060	.580	.062 - .120
1.019	**.757**	**.005 - .010**	1.025	.704	.032 - .042	1.033	.483	.080 - .100	1.047	.840	.010 - .020	1.054	.879	.015 - .025	1.060	.629	.015 - .050
1.019	.766	.010 - .030	1.025	.720	.035 - .050	**1.033**	**.757**	**.005 - .010**	**1.047**	**.916**	**.005 - .010**	1.055	.153	.050 - .070	1.060	.638	.090 - .105
1.019	.794	.010 - .020	**1.025**	**.749**	**.005 - .035**	1.033	.811	.050 - .075	**1.048**	**.163**	**.005 - .010**	1.055	.312	.020 - .040	**1.060**	**.658**	**.005 - .040**
1.020	.316	.050 - .075	1.025	.775	.010 - .020	1.033	.836	.015 - .030	1.048	.282	.090 - .105	1.055	.350	.030 - .050	1.060	.659	.035 - .060
1.020	.378	.015 - .030	1.025	.776	.020 - .040	1.033	.883	.015 - .030	1.048	.378	.100 - .125	1.055	.384	.020 - .035	1.060	.672	.060 - .083
1.020	.510	.135 - .160	1.025	.787	.030 - .050	1.033	.925	.032 - .050	1.048	.431	.042 - .062	**1.055**	**.461**	**.005 - .010**	1.060	.688	.010 - .020
1.020	.552	.134 - .156	1.025	.788	.010 - .020	**1.034**	**.130**	**.005 - .015**	1.048	.504	.006 - .012	1.055	.472	.010 - .025	**1.060**	**.702**	**.005 - .010**
1.020	**.641**	**.005 - .010**	1.025	.804	.040 - .050	1.034	.350	.020 - .040	1.048	.629	.008 - .015	1.055	.501	.020 - .040	1.060	.726	.060 - .080

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

For a size NOT listed, send specs or phone for quote — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To
1.060	.741	.025 - .040
1.060	**.752**	**.005 - .010**
1.060	.760	.020 - .030
1.060	.772	.060 - .080
1.060	.794	.080 - .105
1.060	.819	.050 - .070
1.060	.880	.048 - .072
1.060	.881	.025 - .040
1.060	.882	.010 - .020
1.060	.883	.010 - .020
1.060	.888	.010 - .020
1.060	.896	.010 - .020
1.060	.905	.040 - .060
1.061	.128	.010 - .020
1.061	**.316**	**.005 - .010**
1.061	.386	.080 - .100
1.061	**.442**	**.005 - .020**
1.061	.500	.050 - .070
1.061	.505	.010 - .025
1.061	.510	.070 - .090
1.061	**.531**	**.005 - .010**
1.061	.533	.035 - .050
1.061	**.562**	**.005 - .125**
1.061	**.574**	**.005 - .010**
1.061	.657	.170 - .190
1.061	.783	.025 - .040
1.061	.922	.025 - .040
1.061	.943	.050 - .062
1.061	1.004	.010 - .020
1.062	.061	.015 - .020
1.062	.073	.020 - .040
1.062	.120	.010 - .020
1.062	.128	.048 - .062
1.062	.137	.080 - .100
1.062	.188	.020 - .040
1.062	.200	.042 - .062
1.062	.211	.050 - .083
1.062	.218	.020 - .035
1.062	.252	.030 - .040
1.062	.259	.045 - .060
1.062	.262	.007 - .025
1.062	.318	.008 - .016
1.062	.328	.040 - .060
1.062	.378	.015 - .125
1.062	**.436**	**.005 - .010**
1.062	.440	.080 - .104
1.062	.454	.020 - .040
1.062	**.472**	**.005 - .010**
1.062	.480	.015 - .030
1.062	.484	.032 - .060
1.062	**.515**	**.005 - .010**
1.062	**.521**	**.005 - .010**
1.062	.531	.100 - .125
1.062	**.537**	**.005 - .105**
1.062	.564	.062 - .090
1.062	**.580**	**.005 - .010**
1.062	.625	.020 - .030
1.062	.626	.048 - .062
1.062	.635	.100 - .156
1.062	.638	.050 - .070
1.062	.642	.060 - .080
1.062	.656	.075 - .090
1.062	.657	.075 - .090
1.062	.687	.100 - .187
1.062	.718	.015 - .032
1.062	.721	.050 - .070
1.062	.727	.060 - .080
1.062	.750	.100 - .125
1.062	**.755**	**.005 - .015**
1.062	.764	.100 - .125
1.062	.770	.030 - .050
1.062	.802	.100 - .125
1.062	**.812**	**.005 - .012**
1.062	.817	.010 - .020
1.062	.833	.025 - .040
1.062	.839	.025 - .042
1.062	.860	.010 - .020
1.062	.876	.010 - .080
1.062	.877	.020 - .040
1.062	**.930**	**.005 - .010**

O.D.	I.D.	Choose Any Thickness* From To
1.062	.962	.010 - .030
1.062	.963	.010 - .020
1.062	.985	.020 - .030
1.062	**1.010**	**.005 - .010**
1.062	**1.025**	**.005 - .010**
1.063	.142	.090 - .105
1.063	**.190**	**.005 - .010**
1.063	.204	.075 - .090
1.063	**.315**	**.005 - .010**
1.063	**.317**	**.005 - .010**
1.063	.321	.090 - .120
1.063	.329	.080 - .100
1.063	.343	.100 - .125
1.063	**.394**	**.005 - .010**
1.063	**.437**	**.005 - .030**
1.063	**.442**	**.005 - .010**
1.063	.500	.090 - .105
1.063	**.503**	**.005 - .010**
1.063	.506	.062 - .083
1.063	.540	.135 - .156
1.063	**.545**	**.005 - .010**
1.063	.563	.015 - .030
1.063	.578	.060 - .075
1.063	.579	.060 - .080
1.063	.638	.050 - .070
1.063	.640	.080 - .100
1.063	.645	.025 - .040
1.063	.657	.040 - .062
1.063	**.674**	**.005 - .010**
1.063	.687	.040 - .060
1.063	**.749**	**.005 - .010**
1.063	.780	.050 - .070
1.063	.781	.060 - .080
1.063	.798	.030 - .050
1.063	**.883**	**.005 - .010**
1.063	**.889**	**.005 - .010**
1.064	.470	.010 - .020
1.064	**.512**	**.005 - .010**
1.064	**.563**	**.005 - .020**
1.064	**.594**	**.005 - .020**
1.064	.687	.048 - .062
1.064	.712	.030 - .050
1.064	.751	.010 - .020
1.064	**.762**	**.005 - .010**
1.064	**.790**	**.005 - .010**
1.064	.822	.040 - .062
1.064	.847	.060 - .070
1.064	.865	.010 - .020
1.064	.945	.030 - .040
1.064	.951	.015 - .030
1.065	.165	.025 - .040
1.065	.395	.062 - .083
1.065	**.434**	**.005 - .010**
1.065	**.444**	**.005 - .010**
1.065	.510	.015 - .036
1.065	.562	.010 - .020
1.065	.626	.156 - .187
1.065	.634	.075 - .090
1.065	.697	.030 - .040
1.065	**.767**	**.005 - .010**
1.065	.814	.042 - .060
1.065	.826	.040 - .060
1.065	.875	.010 - .025
1.065	.892	.030 - .050
1.065	.923	.032 - .042
1.065	**.967**	**.005 - .010**
1.066	.535	.050 - .075
1.066	.634	.075 - .100
1.066	**.664**	**.005 - .010**
1.066	.725	.020 - .030
1.066	.728	.105 - .135
1.066	.766	.030 - .060
1.066	.873	.030 - .060
1.066	.874	.030 - .050
1.066	**.967**	**.005 - .010**
1.067	.213	.030 - .050
1.067	.354	.060 - .080
1.067	**.440**	**.005 - .010**
1.067	.515	.080 - .100
1.067	.535	.050 - .075

O.D.	I.D.	Choose Any Thickness* From To
1.067	.664	.010 - .020
1.068	.205	.030 - .050
1.068	.254	.010 - .020
1.068	.341	.100 - .125
1.068	.636	.090 - .105
1.068	.750	.040 - .050
1.068	.813	.030 - .050
1.069	**.153**	**.005 - .010**
1.069	**.390**	**.005 - .010**
1.069	.600	.170 - .190
1.069	.936	.025 - .040
1.070	.255	.105 - .125
1.070	.266	.020 - .030
1.070	.755	.030 - .040
1.070	.794	.070 - .080
1.070	**.906**	**.005 - .010**
1.070	.961	.020 - .035
1.071	.259	.040 - .062
1.071	.266	.010 - .030
1.071	**.626**	**.005 - .010**
1.071	.884	.015 - .030
1.072	**.256**	**.005 - .010**
1.072	**.381**	**.005 - .010**
1.072	**.712**	**.005 - .010**
1.072	.750	.075 - .100
1.072	**1.001**	**.005 - .010**
1.073	.347	.060 - .080
1.073	**.474**	**.005 - .010**
1.073	.510	.015 - .030
1.073	.572	.070 - .090
1.073	.656	.040 - .060
1.073	**.672**	**.005 - .010**
1.073	.890	.050 - .070
1.074	.680	.135 - .156
1.074	.720	.020 - .040
1.074	.971	.015 - .025
1.075	**.350**	**.005 - .010**
1.075	.525	.100 - .120
1.075	.689	.075 - .100
1.075	.694	.050 - .060
1.075	**.804**	**.005 - .010**
1.075	**.810**	**.005 - .010**
1.075	**.814**	**.005 - .010**
1.076	.348	.050 - .075
1.076	.367	.075 - .090
1.076	**.398**	**.005 - .010**
1.076	.499	.015 - .030
1.076	.508	.083 - .104
1.076	.515	.015 - .025
1.076	.535	.060 - .080
1.076	.536	.060 - .080
1.076	.643	.075 - .090
1.076	.690	.080 - .104
1.076	.915	.015 - .025
1.077	.380	.060 - .080
1.077	.758	.050 - .075
1.077	.767	.025 - .040
1.077	**.830**	**.005 - .010**
1.077	.870	.050 - .070
1.077	.907	.020 - .050
1.078	.232	.025 - .040
1.078	.278	.010 - .020
1.078	.392	.060 - .083
1.078	**.456**	**.005 - .010**
1.078	.523	.040 - .060
1.078	.574	.020 - .040
1.078	.580	.040 - .060
1.078	.593	.050 - .075
1.078	**.616**	**.005 - .010**
1.078	.635	.020 - .040
1.078	**.644**	**.005 - .010**
1.078	.687	.030 - .040
1.078	.749	.020 - .040
1.078	.781	.031 - .042
1.078	.830	.030 - .050
1.078	.840	.010 - .020
1.079	**.114**	**.005 - .010**
1.079	.509	.030 - .050
1.079	.567	.025 - .040
1.079	.587	.025 - .040

O.D.	I.D.	Choose Any Thickness* From To
1.079	.760	.025 - .040
1.079	**.933**	**.005 - .010**
1.079	**.955**	**.005 - .010**
1.080	**.088**	**.005 - .010**
1.080	.328	.015 - .030
1.080	.571	.070 - .090
1.080	.623	.020 - .040
1.080	.738	.060 - .080
1.080	.760	.020 - .040
1.080	.770	.050 - .075
1.080	.773	.030 - .060
1.080	**.780**	**.005 - .010**
1.080	.856	.020 - .035
1.080	**.906**	**.005 - .010**
1.080	**.935**	**.005 - .010**
1.081	.793	.030 - .050
1.081	**.797**	**.005 - .010**
1.083	.253	.050 - .075
1.083	.475	.010 - .020
1.083	.670	.010 - .020
1.083	1.016	.020 - .030
1.084	.631	.080 - .100
1.084	.645	.025 - .040
1.084	.728	.040 - .050
1.084	.800	.015 - .030
1.084	**.848**	**.005 - .010**
1.084	**.871**	**.005 - .010**
1.084	**.926**	**.005 - .010**
1.084	.927	.010 - .020
1.085	.245	.030 - .050
1.085	.283	.050 - .075
1.085	**.476**	**.005 - .010**
1.085	.650	.015 - .030
1.085	**.722**	**.005 - .010**
1.085	.749	.050 - .070
1.085	**1.022**	**.005 - .010**
1.086	.643	.050 - .030
1.086	.915	.020 - .035
1.086	.948	.032 - .050
1.087	.281	.030 - .050
1.087	.562	.036 - .060
1.087	**.597**	**.005 - .010**
1.087	.740	.040 - .060
1.087	**.848**	**.005 - .010**
1.088	.194	.062 - .083
1.088	**.214**	**.005 - .010**
1.088	.306	.030 - .050
1.088	**.541**	**.005 - .010**
1.089	.460	.020 - .030
1.089	.843	.050 - .070
1.089	.875	.042 - .060
1.090	.120	.020 - .030
1.090	**.245**	**.005 - .010**
1.090	.314	.025 - .036
1.090	.329	.100 - .125
1.090	.355	.015 - .030
1.090	.433	.030 - .060
1.090	.500	.100 - .125
1.090	.502	.040 - .060
1.090	.505	.025 - .040
1.090	.534	.030 - .060
1.090	.595	.090 - .120
1.090	.932	.060 - .080
1.091	.625	.032 - .062
1.091	.991	.015 - .030
1.092	**.070**	**.005 - .010**
1.092	**.239**	**.005 - .020**
1.092	.433	.040 - .105
1.092	.615	.020 - .030
1.092	.695	.025 - .040
1.092	.750	.015 - .025
1.092	.753	.048 - .070
1.092	.791	.010 - .020
1.092	**.811**	**.005 - .010**
1.092	.812	.015 - .030
1.093	.239	.012 - .020
1.093	.405	.030 - .060
1.093	.421	.050 - .070
1.093	.500	.050 - .075
1.093	.641	.015 - .030

O.D.	I.D.	Choose Any Thickness* From To
1.093	.681	.010 - .030
1.093	.830	.030 - .050
1.093	.871	.025 - .040
1.093	.876	.025 - .050
1.093	.878	.050 - .075
1.093	.883	.035 - .050
1.093	**.957**	**.005 - .010**
1.094	**.313**	**.005 - .010**
1.094	.395	.040 - .060
1.094	.559	.020 - .030
1.094	.668	.080 - .100
1.094	.782	.025 - .040
1.094	.885	.030 - .040
1.094	**.900**	**.005 - .010**
1.094	.993	.020 - .030
1.095	.375	.025 - .080
1.095	.405	.025 - .048
1.095	.591	.100 - .125
1.095	.625	.010 - .020
1.095	.655	.042 - .062
1.095	.700	.060 - .090
1.095	.755	.040 - .050
1.095	.790	.060 - .080
1.095	.808	.015 - .030
1.095	.809	.025 - .040
1.095	.813	.105 - .135
1.095	.818	.050 - .075
1.095	**.906**	**.005 - .010**
1.096	.375	.030 - .060
1.096	.398	.050 - .083
1.096	.441	.060 - .075
1.096	.450	.060 - .070
1.096	.500	.070 - .090
1.096	.577	.015 - .030
1.096	**.675**	**.005 - .015**
1.096	.690	.030 - .050
1.096	**.754**	**.005 - .010**
1.096	.803	.010 - .020
1.096	**.872**	**.005 - .020**
1.096	.922	.025 - .040
1.096	.935	.050 - .070
1.096	.937	.032 - .060
1.097	.598	.170 - .190
1.097	.627	.070 - .090
1.097	.638	.030 - .050
1.097	**.782**	**.005 - .010**
1.097	.830	.025 - .040
1.097	**.873**	**.005 - .010**
1.097	**.883**	**.005 - .010**
1.097	.900	.030 - .050
1.097	.901	.040 - .060
1.097	.949	.050 - .060
1.097	1.003	.010 - .030
1.098	**.220**	**.005 - .010**
1.098	.375	.070 - .090
1.098	.377	.010 - .020
1.098	.396	.120 - .140
1.098	**.420**	**.005 - .010**
1.098	.504	.010 - .020
1.098	**.600**	**.005 - .010**
1.098	.660	.105 - .125
1.098	**.671**	**.005 - .010**
1.098	.752	.120 - .140
1.098	.754	.120 - .156
1.098	**.761**	**.005 - .010**
1.098	.846	.110 - .130
1.098	**.929**	**.005 - .010**
1.098	**.939**	**.005 - .010**
1.099	**.253**	**.005 - .010**
1.099	**.318**	**.005 - .010**
1.099	**.377**	**.005 - .010**
1.099	.378	.010 - .015
1.099	.436	.020 - .040
1.099	**.440**	**.005 - .010**
1.099	**.500**	**.005 - .010**
1.099	**.508**	**.005 - .010**
1.099	.558	.010 - .020
1.099	.633	.020 - .030
1.099	.650	.110 - .130
1.099	.788	.010 - .050

O.D.	I.D.	Choose Any Thickness* From To
1.099	.816	.015 - .025
1.099	.840	.015 - .025
1.099	.902	.010 - .030
1.100	**.128**	**.005 - .010**
1.100	.162	.030 - .042
1.100	**.253**	**.005 - .010**
1.100	.312	.010 - .020
1.100	**.316**	**.005 - .010**
1.100	.346	.050 - .070
1.100	.354	.070 - .090
1.100	.377	.010 - .020
1.100	.378	.015 - .030
1.100	**.380**	**.005 - .010**
1.100	.416	.015 - .030
1.100	.426	.157 - .187
1.100	**.439**	**.005 - .010**
1.100	**.440**	**.005 - .020**
1.100	**.452**	**.005 - .010**
1.100	.454	.050 - .125
1.100	**.478**	**.005 - .010**
1.100	.485	.010 - .020
1.100	**.500**	**.005 - .010**
1.100	**.502**	**.005 - .010**
1.100	**.503**	**.005 - .010**
1.100	**.504**	**.005 - .020**
1.100	**.505**	**.005 - .010**
1.100	**.506**	**.005 - .010**
1.100	.515	.100 - .125
1.100	**.560**	**.005 - .010**
1.100	.562	.040 - .060
1.100	.563	.015 - .035
1.100	**.566**	**.005 - .010**
1.100	.578	.080 - .090
1.100	.607	.075 - .100
1.100	**.626**	**.005 - .020**
1.100	.629	.010 - .020
1.100	**.630**	**.005 - .015**
1.100	.632	.010 - .075
1.100	**.635**	**.005 - .010**
1.100	.641	.135 - .156
1.100	.643	.050 - .070
1.100	.672	.015 - .035
1.100	.675	.070 - .090
1.100	**.693**	**.005 - .010**
1.100	.695	.030 - .040
1.100	.700	.040 - .060
1.100	**.716**	**.005 - .020**
1.100	.718	.105 - .135
1.100	**.751**	**.005 - .010**
1.100	.765	.030 - .050
1.100	.770	.010 - .020
1.100	.775	.032 - .042
1.100	.781	.040 - .060
1.100	.782	.020 - .040
1.100	**.794**	**.005 - .080**
1.100	.797	.015 - .035
1.100	.827	.125 - .135
1.100	.858	.010 - .020
1.100	.863	.030 - .042
1.100	**.875**	**.005 - .010**
1.100	.877	.025 - .040
1.100	.882	.030 - .040
1.100	.889	.015 - .030
1.100	.905	.040 - .060
1.100	.941	.015 - .030
1.100	.952	.010 - .020
1.100	**.961**	**.005 - .010**
1.100	.965	.030 - .050
1.100	**.987**	**.005 - .035**
1.100	.992	.030 - .050
1.100	.994	.030 - .050
1.100	**1.000**	**.005 - .010**
1.100	1.007	.010 - .020
1.100	1.010	.010 - .020
1.101	**.075**	**.005 - .010**
1.101	.255	.110 - .130
1.101	.275	.060 - .070
1.101	.316	.020 - .030
1.101	**.317**	**.005 - .010**
1.101	.356	.015 - .030

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

Call BOKER'S for precision stamping, assembly, and secondary operations.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
1.101	**.473**	**.005 - .010**	1.106	.317	.015 - .030	1.113	.943	.025 - .040	**1.120**	**.158**	**.005 - .012**	1.122	.510	.090 - .105	1.124	.860	.104 - .125
1.101	.502	.010 - .020	1.106	.656	.060 - .090	1.113	1.011	.020 - .030	1.120	.160	.030 - .042	1.122	.531	.125 - .156	1.124	.870	.020 - .030
1.101	.505	.015 - .025	1.106	.782	.020 - .040	**1.114**	**.186**	**.005 - .010**	1.120	.220	.104 - .134	1.122	.595	.015 - .030	**1.124**	**.879**	**.005 - .010**
1.101	.630	.020 - .040	1.106	.790	.040 - .060	**1.114**	**.209**	**.005 - .010**	1.120	.255	.100 - .125	1.122	.627	.020 - .040	1.124	.891	.030 - .060
1.101	.719	.025 - .040	1.107	.892	.040 - .060	1.114	.312	.090 - .125	1.120	.313	.062 - .075	1.122	.629	.050 - .070	**1.124**	**.905**	**.005 - .010**
1.101	**.788**	**.005 - .010**	1.107	.912	.030 - .050	1.114	.436	.150 - .180	1.120	.359	.090 - .110	**1.122**	**.750**	**.005 - .015**	1.124	.914	.060 - .080
1.102	**.070**	**.005 - .010**	1.107	.955	.020 - .030	1.114	.551	.170 - .180	1.120	.380	.025 - .040	1.122	.755	.050 - .070	**1.124**	**.916**	**.005 - .010**
1.102	**.237**	**.005 - .010**	1.107	.983	.010 - .020	1.114	.665	.010 - .020	1.120	.390	.020 - .125	1.122	.758	.010 - .020	1.124	.961	.040 - .060
1.102	**.239**	**.005 - .010**	1.108	.407	.050 - .070	**1.114**	**.749**	**.005 - .010**	**1.120**	**.391**	**.005 - .075**	1.122	.877	.050 - .070	**1.124**	**.967**	**.005 - .010**
1.102	.245	.050 - .060	**1.108**	**.525**	**.005 - .015**	**1.115**	**.204**	**.005 - .010**	1.120	.420	.040 - .060	1.122	.889	.020 - .035	**1.124**	**1.087**	**.005 - .010**
1.102	.251	.025 - .040	1.108	.636	.050 - .070	**1.115**	**.224**	**.005 - .010**	1.120	.439	.050 - .075	**1.122**	**.890**	**.005 - .010**	1.125	.080	.050 - .075
1.102	.276	.180 - .190	1.108	.714	.060 - .075	1.115	.256	.015 - .030	1.120	.450	.100 - .125	**1.122**	**.891**	**.005 - .010**	1.125	.131	.010 - .025
1.102	**.305**	**.005 - .010**	1.108	.778	.030 - .050	1.115	.500	.075 - .090	1.120	.472	.100 - .125	1.122	.893	.015 - .030	1.125	.155	.060 - .083
1.102	**.334**	**.005 - .010**	1.108	.786	.015 - .030	**1.115**	**.642**	**.005 - .010**	1.120	.496	.040 - .060	1.122	1.002	.015 - .025	1.125	.156	.025 - .040
1.102	.335	.080 - .090	1.108	.801	.030 - .040	1.115	.644	.015 - .030	1.120	.500	.060 - .080	1.122	1.024	.015 - .025	1.125	.162	.015 - .030
1.102	**.394**	**.005 - .020**	**1.108**	**.832**	**.005 - .010**	**1.115**	**.645**	**.005 - .010**	1.120	.507	.008 - .016	1.123	.208	.008 - .016	1.125	.169	.042 - .062
1.102	**.395**	**.005 - .025**	1.108	.844	.050 - .070	**1.115**	**.663**	**.005 - .010**	**1.120**	**.512**	**.005 - .015**	1.123	.314	.050 - .075	1.125	.172	.125 - .135
1.102	**.396**	**.005 - .010**	1.109	.318	.010 - .020	**1.115**	**.664**	**.005 - .010**	1.120	.522	.100 - .125	**1.123**	**.344**	**.005 - .010**	1.125	.177	.025 - .040
1.102	**.401**	**.005 - .010**	**1.109**	**.488**	**.005 - .010**	1.115	.700	.030 - .050	**1.120**	**.573**	**.005 - .050**	**1.123**	**.385**	**.005 - .010**	1.125	.189	.090 - .125
1.102	**.473**	**.005 - .010**	1.109	.504	.030 - .050	**1.115**	**.760**	**.005 - .010**	1.120	.578	.040 - .060	1.123	.399	.010 - .020	1.125	.202	.090 - .120
1.102	**.474**	**.005 - .010**	1.109	.506	.025 - .040	1.115	.780	.050 - .070	1.120	.591	.050 - .060	1.123	.405	.080 - .105	1.125	.203	.040 - .125
1.102	**.476**	**.005 - .020**	1.109	.556	.020 - .030	**1.115**	**.807**	**.005 - .010**	1.120	.601	.060 - .080	1.123	.409	.156 - .187	1.125	.206	.015 - .040
1.102	**.477**	**.005 - .010**	**1.109**	**.830**	**.005 - .010**	1.115	.818	.100 - .125	1.120	.603	.010 - .050	1.123	.417	.020 - .030	**1.125**	**.255**	**.005 - .060**
1.102	.511	.160 - .190	1.109	.835	.010 - .020	1.115	.875	.030 - .050	1.120	.620	.120 - .156	**1.123**	**.501**	**.005 - .010**	1.125	.260	.048 - .125
1.102	.541	.015 - .030	1.109	.917	.040 - .050	1.115	.876	.050 - .075	1.120	.625	.010 - .020	1.123	.503	.010 - .110	1.125	.267	.100 - .125
1.102	.564	.100 - .120	**1.110**	**.094**	**.005 - .010**	1.115	.930	.030 - .040	**1.120**	**.628**	**.005 - .010**	1.123	.516	.125 - .156	**1.125**	**.268**	**.005 - .010**
1.102	.590	.090 - .105	1.110	.097	.045 - .060	1.116	.163	.010 - .030	1.120	.640	.016 - .025	**1.123**	**.524**	**.005 - .010**	1.125	.283	.062 - .083
1.102	.598	.030 - .050	1.110	.228	.030 - .042	1.116	.381	.020 - .030	1.120	.644	.100 - .125	1.123	.528	.080 - .100	1.125	.289	.060 - .083
1.102	**.632**	**.005 - .020**	1.110	.238	.018 - .038	1.116	.547	.050 - .075	1.120	.646	.030 - .050	1.123	.534	.156 - .187	1.125	.296	.020 - .040
1.102	.666	.040 - .060	1.110	.282	.015 - .030	**1.116**	**.688**	**.005 - .010**	1.120	.668	.090 - .120	**1.123**	**.636**	**.005 - .010**	1.125	.298	.060 - .090
1.102	.667	.040 - .060	1.110	.326	.050 - .070	1.116	.757	.010 - .020	1.120	.669	.015 - .025	1.123	.691	.125 - .156	1.125	.313	.020 - .040
1.102	.670	.030 - .050	**1.110**	**.517**	**.005 - .010**	1.116	.782	.010 - .015	1.120	.688	.048 - .062	1.123	.696	.040 - .060	1.125	.314	.008 - .015
1.102	.689	.050 - .070	1.110	.607	.080 - .105	**1.116**	**.786**	**.005 - .010**	**1.120**	**.746**	**.005 - .015**	1.123	.703	.040 - .060	1.125	.317	.083 - .120
1.102	**.766**	**.005 - .010**	**1.110**	**.626**	**.005 - .010**	1.116	.809	.030 - .060	**1.120**	**.750**	**.005 - .010**	**1.123**	**.750**	**.005 - .010**	**1.125**	**.318**	**.005 - .010**
1.102	.771	.040 - .060	1.110	.684	.060 - .080	**1.116**	**.816**	**.005 - .016**	1.120	.753	.030 - .050	1.123	.765	.020 - .040	**1.125**	**.321**	**.005 - .020**
1.102	.787	.060 - .080	1.110	.700	.100 - .120	1.116	.862	.015 - .030	1.120	.760	.015 - .032	**1.123**	**.770**	**.005 - .010**	1.125	.327	.062 - .090
1.102	.827	.010 - .020	**1.110**	**.710**	**.005 - .010**	1.116	.868	.062 - .083	**1.120**	**.765**	**.005 - .012**	1.123	.784	.040 - .060	1.125	.338	.020 - .030
1.102	.849	.070 - .090	1.110	.725	.030 - .040	**1.116**	**.879**	**.005 - .010**	1.120	.779	.025 - .042	**1.123**	**.807**	**.005 - .010**	1.125	.344	.062 - .083
1.102	**.854**	**.005 - .010**	**1.110**	**.760**	**.005 - .008**	1.116	.883	.016 - .025	1.120	.780	.100 - .125	1.123	.815	.030 - .060	1.125	.362	.105 - .134
1.102	.866	.050 - .060	1.110	.780	.020 - .035	**1.116**	**1.002**	**.005 - .010**	1.120	.800	.040 - .050	**1.123**	**.853**	**.005 - .010**	1.125	.373	.042 - .062
1.102	**.948**	**.005 - .010**	1.110	.805	.015 - .030	1.117	.159	.105 - .125	1.120	.811	.030 - .050	1.123	.880	.030 - .050	1.125	.375	.125 - .156
1.103	**.316**	**.005 - .010**	1.110	.834	.080 - .105	**1.117**	**.340**	**.005 - .015**	1.120	.816	.060 - .080	1.123	.884	.090 - .105	1.125	.376	.125 - .156
1.103	**.395**	**.005 - .020**	**1.110**	**.835**	**.005 - .010**	1.117	.372	.050 - .075	1.120	.832	.015 - .030	1.123	.890	.080 - .090	**1.125**	**.378**	**.005 - .090**
1.103	.396	.080 - .100	**1.110**	**.868**	**.005 - .010**	1.117	.392	.050 - .070	1.120	.870	.040 - .060	1.123	.893	.020 - .030	1.125	.380	.050 - .075
1.103	.397	.010 - .020	1.110	.875	.050 - .075	1.117	.410	.156 - .187	1.120	.880	.020 - .030	**1.123**	**.908**	**.005 - .030**	**1.125**	**.383**	**.005 - .012**
1.103	**.398**	**.005 - .020**	1.110	.880	.042 - .062	1.117	.566	.025 - .040	1.120	.882	.060 - .083	1.123	.966	.015 - .025	**1.125**	**.390**	**.005 - .070**
1.103	**.473**	**.005 - .010**	1.110	.893	.083 - .105	1.117	.620	.100 - .125	1.120	.890	.060 - .090	1.123	.999	.040 - .060	1.125	.391	.100 - .125
1.103	.502	.010 - .020	**1.110**	**.940**	**.005 - .010**	1.117	.750	.100 - .125	1.120	.920	.010 - .020	**1.123**	**1.013**	**.005 - .040**	1.125	.406	.042 - .075
1.103	**.554**	**.005 - .010**	1.110	.965	.042 - .062	1.117	.756	.050 - .060	1.120	.945	.015 - .030	**1.123**	**1.072**	**.005 - .010**	1.125	.407	.020 - .030
1.103	.560	.015 - .030	1.110	1.006	.010 - .020	1.117	.758	.135 - .156	**1.120**	**.997**	**.005 - .010**	1.124	.188	.100 - .125	1.125	.408	.100 - .125
1.103	.632	.075 - .095	**1.110**	**1.011**	**.005 - .010**	1.117	.760	.020 - .040	**1.120**	**1.020**	**.005 - .010**	1.124	.199	.010 - .020	1.125	.410	.100 - .125
1.103	.692	.030 - .050	1.111	.391	.050 - .070	1.117	.813	.062 - .083	1.121	.160	.010 - .020	1.124	.251	.010 - .020	1.125	.421	.008 - .015
1.103	**.811**	**.005 - .010**	1.111	.556	.040 - .060	1.117	.889	.010 - .020	**1.121**	**.260**	**.005 - .010**	**1.124**	**.265**	**.005 - .010**	1.125	.425	.013 - .135
1.103	.820	.015 - .030	1.111	.567	.105 - .125	1.117	.929	.042 - .062	1.121	.275	.060 - .070	**1.124**	**.273**	**.005 - .010**	1.125	.438	.100 - .125
1.103	.827	.020 - .040	1.111	.711	.020 - .030	1.117	.930	.050 - .075	**1.121**	**.344**	**.005 - .010**	1.124	.317	.050 - .090	1.125	.439	.070 - .090
1.103	.845	.060 - .080	**1.111**	**.751**	**.005 - .010**	1.117	.954	.060 - .080	1.121	.386	.050 - .070	1.124	.319	.020 - .040	1.125	.441	.090 - .105
1.103	.857	.010 - .020	1.111	.775	.100 - .125	1.117	1.010	.030 - .050	1.121	.472	.030 - .040	**1.124**	**.330**	**.005 - .010**	1.125	.450	.025 - .062
1.103	.886	.010 - .020	1.112	.246	.060 - .090	1.118	.138	.090 - .110	1.121	.491	.080 - .100	1.124	.437	.060 - .080	1.125	.455	.090 - .125
1.103	.947	.015 - .030	1.112	.288	.070 - .090	1.118	.506	.060 - .075	1.121	.511	.050 - .070	1.124	.469	.015 - .030	1.125	.468	.105 - .125
1.104	.097	.060 - .090	1.112	.312	.060 - .090	1.118	.679	.025 - .040	1.121	.531	.105 - .125	**1.124**	**.501**	**.005 - .010**	1.125	.480	.040 - .060
1.104	.396	.060 - .070	1.112	.313	.080 - .100	1.118	.754	.010 - .020	1.121	.609	.134 - .156	**1.124**	**.502**	**.005 - .010**	1.125	.500	.032 - .042
1.104	**.496**	**.005 - .010**	1.112	.413	.070 - .090	**1.118**	**.768**	**.005 - .010**	1.121	.628	.040 - .060	1.124	.509	.100 - .125	**1.125**	**.503**	**.005 - .010**
1.104	.552	.110 - .130	1.112	.421	.025 - .040	**1.118**	**.802**	**.005 - .010**	1.121	.644	.100 - .125	**1.124**	**.519**	**.005 - .010**	1.125	.504	.015 - .025
1.104	.633	.110 - .130	1.112	.478	.050 - .075	1.118	.823	.110 - .130	1.121	.664	.105 - .125	1.124	.562	.105 - .135	**1.125**	**.512**	**.005 - .125**
1.104	.670	.080 - .105	1.112	.500	.060 - .090	**1.118**	**.940**	**.005 - .010**	**1.121**	**.699**	**.005 - .010**	1.124	.563	.010 - .020	1.125	.512	.126 - .187
1.104	.752	.050 - .075	1.112	.538	.070 - .090	1.118	1.000	.040 - .060	**1.121**	**.720**	**.005 - .010**	**1.124**	**.592**	**.005 - .010**	1.125	.515	.040 - .050
1.104	**.826**	**.005 - .010**	1.112	.663	.070 - .090	1.118	1.001	.050 - .060	1.121	.761	.020 - .040	1.124	.607	.100 - .120	1.125	.516	.020 - .040
1.104	.945	.010 - .020	1.112	.760	.060 - .090	1.119	.323	.050 - .075	1.121	.770	.050 - .070	**1.124**	**.627**	**.005 - .010**	1.125	.530	.006 - .012
1.105	**.126**	**.005 - .010**	1.112	.776	.020 - .040	**1.119**	**.403**	**.005 - .010**	1.121	.871	.020 - .030	1.124	.629	.080 - .100	1.125	.532	.156 - .187
1.105	.360	.100 - .134	1.112	.890	.030 - .050	1.119	.450	.030 - .050	**1.121**	**.878**	**.005 - .010**	1.124	.632	.060 - .080	1.125	.546	.060 - .080
1.105	.592	.030 - .050	1.112	.893	.090 - .120	1.119	.602	.030 - .050	**1.121**	**.880**	**.005 - .010**	1.124	.634	.135 - .156	**1.125**	**.563**	**.005 - .010**
1.105	.635	.010 - .020	1.112	1.017	.020 - .040	1.119	.628	.080 - .104	**1.121**	**.925**	**.005 - .010**	1.124	.639	.030 - .050	1.125	.564	.080 - .104
1.105	.703	.080 - .090	1.113	.330	.156 - .190	1.119	.658	.060 - .080	1.121	.998	.020 - .040	1.124	.663	.015 - .030	**1.125**	**.566**	**.005 - .010**
1.105	.749	.030 - .050	1.113	.500	.060 - .090	1.119	.678	.030 - .040	**1.122**	**.195**	**.005 - .010**	1.124	.687	.040 - .060	1.125	.570	.060 - .080
1.105	.756	.030 - .050	1.113	.757	.015 - .025	1.119	.880	.080 - .100	1.122	.329	.030 - .040	**1.124**	**.693**	**.005 - .010**	1.125	.571	.100 - .125
1.105	.881	.070 - .090	1.113	.760	.060 - .090	1.119	.885	.040 - .060	1.122	.383	.030 - .050	1.124	.704	.025 - .040	1.125	.573	.100 - .125
1.105	.886	.020 - .030	1.113	.879	.020 - .040	1.119	.918	.075 - .090	1.122	.441	.010 - .020	1.124	.753	.110 - .130	1.125	.590	.100 - .125
1.105	**.916**	**.005 - .010**	1.113	.888	.010 - .020	1.119	.921	.025 - .042	1.122	.442	.007 - .016	1.124	.755	.110 - .130	1.125	.594	.050 - .075
1.105	**.954**	**.005 - .010**	1.113	.910	.042 - .060	**1.119**	**1.041**	**.005 - .010**	1.122	.468	.015 - .030	1.124	.789	.015 - .030	1.125	.609	.040 - .060
1.105	.960	.105 - .120	1.113	.940	.010 - .020	1.120	.132	.015 - .025	1.122	.505	.030 - .125	1.124	.794	.020 - .030	**1.125**	**.625**	**.005 - .010**

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

New tools added continually. Call for sizes not listed — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
1.125	.626	.020 - .030	**1.127**	**.626**	**.005 - .080**	1.138	.781	.062 - .083	**1.149**	**.851**	**.005 - .010**	1.156	.765	.105 - .135	1.169	.691	.090 - .110
1.125	.628	.090 - .125	1.127	.643	.015 - .025	1.138	.872	.090 - .110	1.149	.943	.030 - .050	1.156	.794	.040 - .062	1.169	.698	.030 - .050
1.125	.630	.020 - .040	1.127	.695	.012 - .018	1.138	.912	.060 - .075	1.149	.999	.040 - .060	**1.156**	**.812**	**.005 - .012**	1.169	.878	.080 - .100
1.125	.632	.090 - .105	1.127	.773	.075 - .090	1.138	.979	.030 - .050	1.150	.125	.062 - .083	**1.156**	**.893**	**.005 - .020**	1.169	.880	.040 - .060
1.125	.638	.010 - .020	1.127	.885	.080 - .100	1.138	1.042	.030 - .050	1.150	.186	.062 - .083	1.156	.906	.025 - .040	**1.169**	**.883**	**.005 - .010**
1.125	.640	.156 - .187	1.127	.931	.050 - .070	**1.139**	**.320**	**.005 - .010**	1.150	.187	.030 - .050	1.156	.911	.020 - .040	**1.169**	**.995**	**.005 - .010**
1.125	.645	.100 - .125	1.127	.937	.050 - .070	1.139	.778	.015 - .030	1.150	.203	.062 - .083	**1.156**	**.966**	**.005 - .010**	1.169	1.119	.010 - .020
1.125	.654	.050 - .075	**1.127**	**.997**	**.005 - .010**	1.140	.134	.060 - .075	1.150	.250	.062 - .083	1.156	.968	.010 - .030	**1.170**	**.224**	**.005 - .010**
1.125	.656	.036 - .125	**1.127**	**1.018**	**.005 - .020**	1.140	.195	.060 - .075	**1.150**	**.252**	**.005 - .010**	1.157	.378	.050 - .070	1.170	.256	.020 - .030
1.125	.669	.010 - .020	1.128	.314	.075 - .090	1.140	.210	.060 - .075	1.150	.313	.062 - .083	1.157	.570	.020 - .040	1.170	.440	.090 - .105
1.125	.685	.008 - .016	1.128	.347	.156 - .187	1.140	.260	.060 - .075	1.150	.375	.020 - .083	1.157	.748	.015 - .030	**1.170**	**.524**	**.005 - .010**
1.125	.687	.090 - .105	1.128	.358	.156 - .187	1.140	.320	.060 - .075	1.150	.376	.010 - .020	1.157	.785	.020 - .030	1.170	.611	.020 - .040
1.125	.702	.050 - .075	1.128	.366	.048 - .062	1.140	.383	.060 - .075	1.150	.377	.015 - .030	1.158	.408	.010 - .030	1.170	.675	.032 - .050
1.125	.711	.070 - .080	**1.128**	**.747**	**.005 - .010**	1.140	.570	.010 - .125	**1.150**	**.381**	**.005 - .020**	**1.158**	**.476**	**.005 - .010**	**1.170**	**.710**	**.005 - .010**
1.125	.715	.025 - .040	1.128	.749	.025 - .040	1.140	.627	.020 - .040	1.150	.382	.020 - .030	1.158	.588	.020 - .030	1.170	.758	.050 - .070
1.125	.718	.075 - .100	**1.128**	**.751**	**.005 - .010**	1.140	.629	.020 - .040	1.150	.383	.105 - .125	1.158	.971	.050 - .060	1.170	.793	.030 - .050
1.125	.719	.040 - .060	1.128	.877	.010 - .020	1.140	.642	.030 - .060	**1.150**	**.450**	**.005 - .010**	1.158	1.052	.015 - .030	**1.170**	**.815**	**.005 - .010**
1.125	.741	.020 - .040	1.128	.889	.050 - .070	**1.140**	**.657**	**.005 - .020**	**1.150**	**.503**	**.005 - .020**	1.159	.298	.025 - .040	1.170	.860	.020 - .040
1.125	.745	.100 - .125	1.129	.500	.080 - .105	**1.140**	**.722**	**.005 - .010**	**1.150**	**.505**	**.005 - .010**	1.159	.393	.015 - .030	1.170	.870	.010 - .020
1.125	.749	.105 - .135	1.129	.503	.090 - .105	**1.140**	**.723**	**.005 - .010**	**1.150**	**.553**	**.005 - .010**	1.159	.687	.020 - .040	1.170	.880	.030 - .050
1.125	.750	.015 - .042	1.129	.506	.050 - .070	**1.140**	**.742**	**.005 - .010**	**1.150**	**.628**	**.005 - .010**	**1.159**	**.901**	**.005 - .010**	1.170	.919	.025 - .040
1.125	.751	.010 - .020	1.129	.620	.100 - .125	1.140	.753	.010 - .020	**1.150**	**.630**	**.005 - .062**	1.159	1.008	.015 - .025	**1.170**	**.920**	**.005 - .010**
1.125	.753	.015 - .030	1.129	.705	.105 - .135	**1.140**	**.780**	**.005 - .010**	1.150	.750	.040 - .090	1.160	.130	.025 - .035	1.170	.936	.010 - .025
1.125	**.754**	**.005 - .010**	1.129	.804	.060 - .080	**1.140**	**.809**	**.005 - .010**	**1.150**	**.763**	**.005 - .010**	1.160	.269	.035 - .050	1.170	.985	.040 - .062
1.125	**.755**	**.005 - .010**	**1.130**	**.163**	**.005 - .010**	1.140	.812	.031 - .042	1.150	.803	.040 - .060	1.160	.655	.100 - .125	1.170	1.000	.020 - .032
1.125	.760	.050 - .090	1.130	.171	.050 - .070	**1.140**	**.936**	**.005 - .010**	1.150	.814	.048 - .125	1.160	.710	.030 - .050	**1.170**	**1.002**	**.005 - .020**
1.125	.768	.048 - .062	1.130	.200	.060 - .070	**1.140**	**.950**	**.005 - .015**	1.150	.830	.032 - .042	1.160	.750	.042 - .062	1.171	.259	.010 - .015
1.125	.781	.050 - .070	1.130	.302	.020 - .040	**1.140**	**.961**	**.005 - .010**	1.150	.951	.025 - .040	1.160	.752	.030 - .048	1.171	.659	.025 - .040
1.125	.795	.010 - .050	**1.130**	**.376**	**.005 - .010**	1.140	.970	.025 - .050	**1.150**	**.986**	**.005 - .020**	1.160	.759	.030 - .050	1.171	.778	.040 - .060
1.125	.796	.050 - .062	1.130	.410	.060 - .080	1.140	.990	.015 - .030	1.150	.988	.010 - .020	1.160	.800	.050 - .062	1.171	.853	.050 - .070
1.125	.802	.134 - .156	1.130	.500	.040 - .060	**1.140**	**1.010**	**.005 - .010**	**1.150**	**.993**	**.005 - .012**	1.160	.829	.060 - .080	1.171	.965	.070 - .090
1.125	.812	.080 - .100	1.130	.506	.100 - .125	**1.140**	**1.020**	**.005 - .010**	**1.150**	**1.045**	**.005 - .010**	1.160	.889	.025 - .040	1.171	1.005	.060 - .080
1.125	**.815**	**.005 - .010**	1.130	.589	.030 - .050	**1.141**	**.394**	**.005 - .010**	1.150	1.050	.030 - .040	1.160	.942	.050 - .075	**1.171**	**1.050**	**.005 - .010**
1.125	**.823**	**.005 - .010**	1.130	.751	.080 - .105	**1.141**	**.395**	**.005 - .015**	1.151	.127	.020 - .040	1.160	.955	.030 - .060	**1.171**	**1.105**	**.005 - .010**
1.125	.840	.105 - .125	**1.130**	**.759**	**.005 - .010**	1.141	.642	.090 - .105	1.151	.157	.035 - .050	1.160	.989	.032 - .050	1.172	.190	.040 - .060
1.125	**.845**	**.005 - .050**	1.130	.791	.050 - .070	1.141	.717	.015 - .025	1.151	.249	.015 - .030	**1.161**	**.408**	**.005 - .030**	1.172	.473	.120 - .135
1.125	.848	.062 - .083	**1.130**	**.800**	**.005 - .010**	**1.141**	**.787**	**.005 - .010**	1.151	.633	.010 - .020	1.161	.753	.060 - .080	**1.172**	**.523**	**.005 - .010**
1.125	.872	.100 - .125	**1.130**	**.821**	**.005 - .010**	1.141	.818	.105 - .125	**1.151**	**.700**	**.005 - .010**	1.161	.770	.010 - .020	1.172	.600	.050 - .187
1.125	.875	.032 - .060	1.130	.855	.062 - .083	1.142	.132	.010 - .020	**1.151**	**.729**	**.005 - .010**	1.161	.794	.080 - .100	1.172	.628	.040 - .060
1.125	**.878**	**.005 - .010**	**1.130**	**.882**	**.005 - .010**	**1.142**	**.472**	**.005 - .010**	1.151	.755	.062 - .120	1.161	.922	.040 - .060	1.172	.632	.030 - .040
1.125	.880	.010 - .020	1.130	1.001	.030 - .050	1.142	.532	.080 - .100	1.151	.900	.010 - .020	1.162	.443	.070 - .090	1.172	.694	.050 - .075
1.125	.900	.040 - .060	**1.130**	**1.070**	**.005 - .010**	**1.142**	**.552**	**.005 - .010**	**1.151**	**1.046**	**.005 - .010**	1.162	.600	.075 - .100	1.172	.800	.010 - .020
1.125	.908	.070 - .090	1.131	.251	.050 - .070	1.142	.638	.030 - .040	1.152	.305	.020 - .030	1.162	.906	.060 - .080	1.172	.816	.050 - .075
1.125	.920	.050 - .075	1.131	.515	.040 - .060	**1.142**	**.751**	**.005 - .020**	**1.152**	**.380**	**.005 - .010**	1.162	.955	.040 - .060	**1.172**	**.819**	**.005 - .010**
1.125	**.935**	**.005 - .008**	**1.131**	**.664**	**.005 - .010**	1.142	.753	.090 - .110	1.152	.563	.040 - .060	1.163	.408	.010 - .020	1.172	.897	.030 - .050
1.125	.938	.015 - .030	1.131	.751	.015 - .025	**1.142**	**.790**	**.005 - .010**	1.152	.673	.120 - .135	1.163	.480	.040 - .060	1.172	.917	.080 - .090
1.125	.939	.050 - .070	1.131	.758	.020 - .040	1.142	.826	.080 - .104	1.152	1.048	.010 - .020	1.163	.800	.030 - .042	1.172	.958	.050 - .062
1.125	**.940**	**.005 - .010**	1.131	.855	.060 - .080	1.142	.945	.040 - .080	1.152	1.053	.010 - .020	1.163	.846	.040 - .060	1.172	1.000	.050 - .075
1.125	.950	.040 - .060	1.131	.956	.025 - .042	1.143	.187	.060 - .075	1.153	.062	.025 - .042	1.163	1.010	.010 - .020	1.173	.063	.015 - .025
1.125	.958	.020 - .040	1.131	1.034	.025 - .042	1.143	.206	.040 - .060	1.153	.626	.010 - .032	**1.164**	**.351**	**.005 - .010**	1.173	.412	.130 - .150
1.125	**.959**	**.005 - .010**	1.132	.170	.060 - .075	1.143	.250	.060 - .075	1.153	.731	.100 - .125	1.164	.787	.083 - .120	1.173	.413	.156 - .190
1.125	**.967**	**.005 - .010**	1.132	.955	.025 - .050	1.143	.313	.060 - .075	1.153	.843	.015 - .030	1.164	.801	.060 - .080	1.173	.600	.090 - .105
1.125	1.005	.010 - .025	1.133	.191	.030 - .050	1.143	.314	.062 - .080	1.154	.159	.030 - .060	1.164	.802	.040 - .060	**1.173**	**.710**	**.005 - .010**
1.126	.170	.050 - .075	1.133	.199	.050 - .060	1.143	.375	.060 - .075	1.154	.375	.100 - .125	1.164	.946	.031 - .048	**1.173**	**.722**	**.005 - .010**
1.126	.270	.025 - .040	1.133	.946	.030 - .050	1.143	.376	.020 - .035	**1.154**	**.387**	**.005 - .008**	1.165	.315	.070 - .090	1.173	.804	.030 - .050
1.126	.385	.050 - .070	**1.133**	**.971**	**.005 - .010**	**1.143**	**.504**	**.005 - .020**	1.154	.499	.050 - .075	1.165	.735	.010 - .020	1.173	.851	.025 - .040
1.126	.406	.100 - .130	1.134	.545	.015 - .030	1.143	.651	.140 - .160	1.154	.584	.030 - .060	1.165	.781	.070 - .090	1.173	.891	.020 - .030
1.126	**.452**	**.005 - .010**	1.134	.555	.010 - .020	**1.143**	**.739**	**.005 - .010**	**1.154**	**.710**	**.005 - .010**	**1.165**	**1.010**	**.005 - .015**	1.173	.940	.070 - .090
1.126	.546	.060 - .080	1.134	.791	.050 - .070	1.143	.812	.100 - .120	1.154	.787	.090 - .100	**1.165**	**1.065**	**.005 - .010**	1.173	.998	.020 - .030
1.126	.563	.015 - .030	1.134	.904	.040 - .060	1.143	.848	.015 - .040	1.154	.803	.030 - .050	**1.165**	**1.100**	**.005 - .010**	1.174	.207	.100 - .125
1.126	**.639**	**.005 - .010**	1.135	.201	.050 - .060	1.143	.952	.050 - .070	1.154	.856	.025 - .040	**1.165**	**1.122**	**.005 - .010**	1.174	.261	.125 - .156
1.126	.677	.015 - .025	1.135	.375	.010 - .020	**1.145**	**.210**	**.005 - .010**	1.154	.875	.010 - .020	1.166	.689	.010 - .020	1.174	.419	.090 - .105
1.126	.728	.030 - .050	1.135	.376	.015 - .030	1.145	.355	.135 - .156	**1.154**	**.877**	**.005 - .010**	1.166	.957	.025 - .035	1.174	.876	.030 - .050
1.126	.755	.040 - .060	**1.135**	**.483**	**.005 - .050**	**1.145**	**.856**	**.005 - .010**	**1.154**	**1.033**	**.005 - .010**	1.167	.990	.060 - .080	1.174	.891	.060 - .080
1.126	.781	.010 - .020	1.135	.507	.090 - .120	1.145	.896	.030 - .060	1.155	.250	.040 - .060	1.168	.194	.020 - .030	1.174	.921	.020 - .040
1.126	**.851**	**.005 - .125**	1.135	.770	.020 - .040	1.146	.289	.015 - .030	1.155	.266	.050 - .075	1.168	.229	.020 - .040	1.174	.963	.015 - .030
1.126	**.880**	**.005 - .010**	1.135	.775	.040 - .060	**1.146**	**1.000**	**.005 - .010**	1.155	.437	.050 - .075	**1.168**	**.458**	**.005 - .010**	1.175	.054	.020 - .040
1.126	.938	.015 - .025	1.135	.812	.100 - .125	**1.146**	**1.010**	**.005 - .020**	1.155	.501	.075 - .090	1.168	.600	.135 - .156	1.175	.063	.020 - .032
1.126	**.990**	**.005 - .010**	1.136	.946	.030 - .050	1.146	1.035	.010 - .020	1.155	.510	.030 - .040	1.168	.697	.025 - .040	1.175	.260	.090 - .125
1.127	.063	.020 - .035	1.136	.961	.060 - .075	1.147	.316	.050 - .070	1.155	.594	.080 - .105	1.168	.704	.135 - .156	1.175	.438	.015 - .030
1.127	.159	.025 - .042	1.137	.253	.125 - .135	1.147	.775	.070 - .090	1.155	.766	.020 - .030	**1.168**	**.750**	**.005 - .010**	1.175	.514	.020 - .035
1.127	.237	.025 - .042	**1.137**	**.693**	**.005 - .010**	1.148	.221	.070 - .090	1.155	.775	.030 - .050	**1.168**	**.843**	**.005 - .010**	1.175	.625	.010 - .020
1.127	.253	.075 - .090	1.137	.814	.040 - .060	1.148	.251	.105 - .135	1.155	.967	.025 - .042	**1.168**	**.922**	**.005 - .010**	1.175	.715	.010 - .020
1.127	.267	.048 - .062	1.137	.907	.030 - .050	1.148	.630	.020 - .030	**1.156**	**.125**	**.005 - .010**	**1.168**	**.985**	**.005 - .020**	**1.175**	**.716**	**.005 - .010**
1.127	.375	.020 - .030	1.137	.953	.030 - .050	**1.148**	**.809**	**.005 - .010**	1.156	.188	.100 - .125	**1.168**	**.996**	**.005 - .015**	**1.175**	**.726**	**.005 - .010**
1.127	.410	.100 - .125	1.138	.126	.025 - .040	1.148	.941	.020 - .030	1.156	.379	.040 - .060	**1.168**	**1.000**	**.005 - .010**	**1.175**	**.750**	**.005 - .010**
1.127	**.438**	**.005 - .010**	1.138	.568	.070 - .090	1.149	.187	.030 - .050	1.156	.532	.025 - .040	1.169	.126	.010 - .025	1.175	.814	.020 - .040
1.127	**.507**	**.005 - .010**	1.138	.570	.025 - .040	1.149	.313	.090 - .110	1.156	.562	.010 - .020	1.169	.390	.060 - .083	**1.175**	**.840**	**.005 - .010**
1.127	.521	.025 - .042	1.138	.692	.156 - .190	1.149	.383	.010 - .015	1.156	.565	.100 - .130	1.169	.410	.070 - .090	**1.175**	**.868**	**.005 - .010**
1.127	.531	.060 - .083	1.138	.738	.025 - .050	1.149	.632	.060 - .080	1.156	.582	.050 - .075	1.169	.419	.090 - .125	1.175	.905	.030 - .050

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

For non-metallic materials, contact BOKER'S — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
1.175	.925	.020 - .030	1.180	.485	.010 - .020	**1.182**	**.993**	**.005 - .010**	1.187	.688	.060 - .080	**1.190**	**1.125**	**.005 - .010**	1.200	.250	.080 - .100
1.175	.985	.080 - .100	1.180	.499	.015 - .025	1.183	.405	.010 - .020	1.187	.753	.050 - .060	1.191	.460	.020 - .040	**1.200**	**.314**	**.005 - .020**
1.175	.999	.015 - .020	**1.180**	**.512**	**.005 - .010**	1.183	.771	.060 - .080	1.187	.755	.020 - .040	1.191	.560	.170 - .190	1.200	.327	.010 - .020
1.175	**1.031**	**.005 - .010**	1.180	.521	.070 - .090	1.183	.807	.006 - .015	1.187	.757	.100 - .125	**1.191**	**.882**	**.005 - .010**	**1.200**	**.350**	**.005 - .010**
1.175	1.112	.010 - .020	1.180	.540	.015 - .025	1.183	.810	.105 - .125	1.187	.765	.025 - .083	1.191	.900	.070 - .090	**1.200**	**.376**	**.005 - .020**
1.176	.127	.025 - .040	1.180	.563	.010 - .020	1.183	.933	.070 - .090	1.187	.812	.062 - .083	1.191	.934	.050 - .075	1.200	.377	.100 - .125
1.176	.371	.040 - .060	1.180	.635	.040 - .060	1.183	1.000	.040 - .060	1.187	.823	.032 - .120	1.192	.739	.030 - .050	**1.200**	**.378**	**.005 - .125**
1.176	**.439**	**.005 - .010**	**1.180**	**.638**	**.005 - .010**	1.184	.127	.060 - .083	**1.187**	**.825**	**.005 - .010**	1.192	.778	.040 - .060	1.200	.383	.090 - .125
1.176	**.443**	**.005 - .020**	1.180	.671	.150 - .170	1.184	.325	.050 - .060	1.187	.874	.010 - .020	1.192	1.004	.015 - .025	1.200	.408	.050 - .070
1.176	.500	.070 - .090	1.180	.694	.080 - .104	1.184	.585	.010 - .020	1.187	.880	.010 - .020	1.192	1.014	.020 - .040	**1.200**	**.440**	**.005 - .020**
1.176	**.506**	**.005 - .010**	1.180	.714	.120 - .135	1.184	.635	.062 - .083	**1.187**	**.881**	**.005 - .010**	**1.193**	**.159**	**.005 - .010**	**1.200**	**.500**	**.005 - .020**
1.176	.589	.020 - .030	1.180	.747	.030 - .050	1.184	.730	.025 - .040	1.187	.882	.010 - .025	1.193	.282	.050 - .060	**1.200**	**.501**	**.005 - .020**
1.176	.625	.040 - .105	1.180	.773	.015 - .030	**1.184**	**.753**	**.005 - .010**	**1.187**	**.944**	**.005 - .010**	1.193	.445	.060 - .078	**1.200**	**.502**	**.005 - .020**
1.176	**.682**	**.005 - .010**	1.180	.787	.010 - .020	**1.184**	**.807**	**.005 - .010**	**1.187**	**.954**	**.005 - .010**	1.193	.640	.040 - .060	**1.200**	**.503**	**.005 - .020**
1.176	.756	.030 - .050	1.180	.788	.090 - .105	**1.184**	**.995**	**.005 - .010**	**1.187**	**1.017**	**.005 - .012**	1.193	1.003	.010 - .020	**1.200**	**.504**	**.005 - .030**
1.177	**.271**	**.005 - .015**	1.180	.789	.010 - .050	**1.184**	**1.073**	**.005 - .010**	1.187	1.025	.050 - .060	1.194	.760	.050 - .070	1.200	.520	.050 - .070
1.177	**.445**	**.005 - .030**	1.180	.793	.105 - .125	1.185	.089	.060 - .090	**1.187**	**1.029**	**.005 - .010**	1.194	.932	.030 - .050	**1.200**	**.562**	**.005 - .020**
1.177	.759	.050 - .070	1.180	.890	.010 - .020	1.185	.252	.040 - .060	**1.187**	**1.031**	**.005 - .010**	1.194	1.002	.050 - .070	1.200	.600	.105 - .125
1.177	**.782**	**.005 - .010**	**1.180**	**.895**	**.005 - .010**	1.185	.313	.100 - .125	1.188	.094	.020 - .030	**1.194**	**1.012**	**.005 - .010**	**1.200**	**.626**	**.005 - .020**
1.177	.790	.030 - .050	**1.180**	**.903**	**.005 - .010**	1.185	.315	.050 - .075	1.188	.128	.020 - .035	1.194	1.014	.060 - .080	1.200	.642	.015 - .030
1.177	.823	.093 - .125	1.180	.947	.010 - .020	1.185	.328	.100 - .125	1.188	.195	.040 - .062	**1.194**	**1.072**	**.005 - .010**	1.200	.650	.025 - .042
1.177	.865	.062 - .090	**1.180**	**.981**	**.005 - .010**	1.185	.365	.075 - .125	1.188	.240	.050 - .070	**1.194**	**1.073**	**.005 - .010**	1.200	.751	.030 - .050
1.177	.875	.025 - .040	**1.180**	**.995**	**.005 - .040**	1.185	.375	.100 - .125	1.188	.254	.050 - .070	**1.195**	**.312**	**.005 - .010**	1.200	.755	.010 - .020
1.177	.878	.105 - .135	1.180	1.015	.040 - .060	1.185	.435	.100 - .125	1.188	.310	.050 - .070	1.195	.379	.040 - .050	1.200	.760	.020 - .040
1.177	.883	.105 - .120	**1.180**	**1.029**	**.005 - .010**	1.185	.437	.060 - .080	**1.188**	**.312**	**.005 - .010**	1.195	.575	.120 - .135	1.200	.761	.120 - .135
1.177	**.893**	**.005 - .010**	**1.181**	**.239**	**.005 - .010**	**1.185**	**.568**	**.005 - .010**	1.188	.326	.062 - .083	1.195	.641	.040 - .060	1.200	.786	.080 - .090
1.177	.911	.050 - .070	**1.181**	**.252**	**.005 - .010**	1.185	.609	.030 - .040	1.188	.439	.060 - .080	1.195	.692	.008 - .020	**1.200**	**.796**	**.005 - .010**
1.177	.954	.060 - .080	1.181	.265	.030 - .050	1.185	.645	.010 - .040	1.188	.508	.020 - .040	1.195	.730	.030 - .050	1.200	.817	.080 - .105
1.177	.989	.070 - .090	**1.181**	**.326**	**.005 - .010**	**1.185**	**.700**	**.005 - .015**	1.188	.515	.040 - .060	1.195	.795	.050 - .070	**1.200**	**.829**	**.005 - .010**
1.177	.990	.025 - .040	**1.181**	**.379**	**.005 - .010**	1.185	.709	.100 - .125	1.188	.530	.048 - .075	1.195	.865	.015 - .030	1.200	.865	.135 - .156
1.177	**.992**	**.005 - .010**	1.181	.394	.015 - .030	**1.185**	**.753**	**.005 - .010**	**1.188**	**.563**	**.005 - .075**	**1.195**	**.872**	**.005 - .010**	**1.200**	**.935**	**.005 - .010**
1.177	**1.000**	**.005 - .010**	**1.181**	**.395**	**.005 - .060**	1.185	.755	.030 - .050	1.188	.621	.080 - .100	1.195	.912	.010 - .020	1.200	.952	.030 - .040
1.178	.380	.090 - .125	1.181	.414	.090 - .105	**1.185**	**.768**	**.005 - .010**	1.188	.623	.040 - .060	**1.195**	**.915**	**.005 - .010**	**1.200**	**.990**	**.005 - .020**
1.178	.395	.100 - .125	1.181	.472	.010 - .020	1.185	.783	.050 - .125	1.188	.626	.105 - .125	1.195	.964	.032 - .048	**1.200**	**1.000**	**.005 - .060**
1.178	.442	.060 - .080	**1.181**	**.473**	**.005 - .010**	1.185	.875	.050 - .083	1.188	.656	.025 - .040	**1.195**	**.980**	**.005 - .015**	1.200	1.013	.015 - .030
1.178	**.631**	**.005 - .020**	**1.181**	**.474**	**.005 - .010**	1.185	.880	.012 - .025	1.188	.688	.040 - .060	1.195	.983	.010 - .020	**1.200**	**1.048**	**.005 - .010**
1.178	**.636**	**.005 - .010**	**1.181**	**.477**	**.005 - .010**	**1.185**	**.908**	**.005 - .020**	1.188	.759	.156 - .187	1.195	1.026	.010 - .030	1.200	1.050	.025 - .040
1.178	.663	.090 - .110	1.181	.482	.030 - .060	1.185	.940	.030 - .062	**1.188**	**.763**	**.005 - .105**	1.195	1.116	.010 - .020	**1.200**	**1.073**	**.005 - .030**
1.178	**.709**	**.005 - .010**	1.181	.512	.105 - .125	**1.185**	**.973**	**.005 - .010**	1.188	.765	.070 - .090	1.195	1.120	.015 - .030	**1.201**	**.257**	**.005 - .010**
1.178	.753	.015 - .030	1.181	.518	.135 - .156	1.185	.990	.080 - .104	1.188	.799	.050 - .070	1.196	.264	.025 - .042	1.201	.314	.030 - .050
1.178	1.041	.020 - .040	1.181	.531	.010 - .020	1.185	1.024	.040 - .060	**1.188**	**.880**	**.005 - .125**	**1.196**	**.378**	**.005 - .010**	**1.201**	**.395**	**.005 - .030**
1.179	.170	.010 - .020	1.181	.552	.105 - .125	**1.185**	**1.048**	**.005 - .010**	1.188	.880	.126 - .160	1.196	.859	.040 - .060	1.201	.562	.020 - .030
1.179	.381	.170 - .190	1.181	.560	.100 - .125	1.185	1.067	.015 - .030	1.188	.920	.010 - .020	**1.196**	**1.013**	**.005 - .010**	1.201	.721	.050 - .070
1.179	.473	.010 - .020	1.181	.577	.070 - .090	1.186	.189	.105 - .125	1.188	.922	.040 - .060	1.196	1.020	.020 - .030	**1.201**	**.755**	**.005 - .010**
1.179	**.502**	**.005 - .010**	**1.181**	**.607**	**.005 - .015**	1.186	.378	.156 - .190	**1.188**	**.940**	**.005 - .010**	**1.197**	**.362**	**.005 - .010**	1.201	.760	.050 - .070
1.179	.569	.030 - .060	1.181	.627	.020 - .040	1.186	.437	.010 - .100	1.188	1.000	.062 - .089	**1.197**	**.376**	**.005 - .010**	1.201	.763	.050 - .075
1.179	.632	.010 - .020	1.181	.628	.025 - .083	1.186	.506	.060 - .090	**1.188**	**1.001**	**.005 - .010**	1.197	.500	.030 - .050	1.201	.774	.025 - .040
1.179	.641	.050 - .070	1.181	.640	.090 - .125	1.186	.559	.090 - .125	1.188	1.038	.025 - .040	**1.197**	**.570**	**.005 - .010**	1.201	.800	.015 - .030
1.179	.648	.015 - .030	1.181	.649	.160 - .190	1.186	.710	.020 - .040	1.189	.140	.015 - .030	**1.197**	**.637**	**.005 - .010**	1.201	1.003	.010 - .020
1.179	.687	.030 - .060	1.181	.669	.070 - .090	1.186	.740	.040 - .060	1.189	.309	.025 - .040	**1.197**	**.880**	**.005 - .010**	1.201	1.050	.050 - .062
1.179	.721	.060 - .080	1.181	.696	.010 - .020	**1.186**	**.781**	**.005 - .010**	1.189	.346	.030 - .050	1.197	1.120	.020 - .035	1.202	.439	.040 - .060
1.179	.829	.030 - .060	1.181	.787	.135 - .160	1.186	.783	.050 - .062	1.189	.380	.110 - .130	1.198	.398	.105 - .125	1.202	.793	.015 - .030
1.179	**.874**	**.005 - .010**	**1.181**	**.801**	**.005 - .010**	1.186	.826	.010 - .020	1.189	.627	.160 - .190	1.198	.441	.010 - .020	1.202	.937	.025 - .040
1.179	**.875**	**.005 - .010**	1.181	.802	.025 - .040	1.186	.852	.050 - .070	1.189	.751	.040 - .060	**1.198**	**.500**	**.005 - .010**	1.202	.996	.025 - .040
1.179	.911	.040 - .062	1.181	.829	.025 - .040	1.186	1.015	.025 - .040	**1.189**	**.798**	**.005 - .010**	**1.198**	**.522**	**.005 - .010**	1.202	1.065	.010 - .020
1.179	.914	.035 - .050	1.181	.877	.040 - .060	1.186	1.016	.030 - .050	**1.189**	**.828**	**.005 - .010**	1.198	.552	.025 - .040	1.203	.353	.060 - .080
1.179	.931	.040 - .060	1.181	.885	.040 - .050	1.186	1.063	.015 - .030	1.189	.999	.010 - .020	1.198	.632	.030 - .050	1.203	.439	.050 - .075
1.179	.936	.040 - .060	1.181	.891	.060 - .070	**1.187**	**.142**	**.005 - .030**	**1.189**	**1.032**	**.005 - .010**	1.198	.640	.070 - .090	1.203	.502	.100 - .125
1.179	.996	.040 - .060	1.181	.943	.030 - .080	1.187	.156	.050 - .062	1.190	.128	.030 - .050	1.198	.875	.025 - .042	**1.203**	**.627**	**.005 - .010**
1.179	1.015	.025 - .040	1.181	.945	.010 - .025	1.187	.212	.040 - .062	1.190	.250	.100 - .125	1.198	.890	.025 - .040	1.203	.793	.015 - .030
1.179	1.041	.020 - .040	**1.181**	**.950**	**.005 - .010**	1.187	.283	.080 - .104	1.190	.265	.062 - .090	1.198	1.053	.010 - .030	1.203	.822	.015 - .025
1.180	.140	.016 - .032	1.181	.965	.012 - .040	1.187	.313	.010 - .025	1.190	.317	.100 - .125	1.199	.187	.020 - .040	1.203	.961	.015 - .030
1.180	.156	.060 - .080	1.181	1.000	.010 - .020	1.187	.374	.042 - .062	1.190	.392	.090 - .110	1.199	.379	.020 - .040	1.203	1.004	.030 - .050
1.180	**.238**	**.005 - .010**	**1.181**	**1.020**	**.005 - .010**	**1.187**	**.378**	**.005 - .010**	1.190	.410	.010 - .020	**1.199**	**.503**	**.005 - .010**	**1.204**	**.757**	**.005 - .015**
1.180	.239	.105 - .125	**1.182**	**.317**	**.005 - .020**	1.187	.390	.134 - .187	1.190	.500	.032 - .050	**1.199**	**.510**	**.005 - .010**	**1.204**	**1.030**	**.005 - .010**
1.180	.251	.156 - .187	1.182	.395	.010 - .020	1.187	.404	.020 - .040	1.190	.531	.050 - .070	**1.199**	**.550**	**.005 - .010**	1.205	.508	.040 - .060
1.180	.315	.025 - .040	**1.182**	**.398**	**.005 - .010**	1.187	.477	.100 - .125	1.190	.543	.060 - .080	1.199	.562	.015 - .030	**1.205**	**.870**	**.005 - .090**
1.180	.317	.090 - .110	1.182	.429	.060 - .070	1.187	.512	.060 - .080	1.190	.564	.020 - .035	1.199	.735	.050 - .070	1.205	.922	.015 - .030
1.180	**.319**	**.005 - .010**	**1.182**	**.506**	**.005 - .020**	1.187	.516	.065 - .080	1.190	.626	.025 - .070	1.199	.737	.020 - .040	1.206	.920	.025 - .040
1.180	.331	.140 - .160	1.182	.550	.050 - .060	1.187	.519	.010 - .020	1.190	.656	.110 - .120	1.199	.830	.040 - .060	**1.206**	**1.072**	**.005 - .010**
1.180	.354	.010 - .020	1.182	.561	.030 - .050	1.187	.550	.025 - .040	1.190	.738	.050 - .070	1.199	.985	.020 - .030	1.207	.258	.050 - .070
1.180	.357	.150 - .170	1.182	.635	.100 - .125	1.187	.594	.080 - .100	1.190	.752	.042 - .060	1.199	1.012	.015 - .030	1.207	.381	.160 - .190
1.180	.383	.048 - .075	1.182	.714	.048 - .062	1.187	.625	.030 - .050	1.190	.753	.015 - .040	1.199	1.050	.040 - .060	**1.207**	**.707**	**.005 - .010**
1.180	**.398**	**.005 - .020**	1.182	.750	.090 - .120	1.187	.632	.006 - .020	1.190	.787	.080 - .104	**1.199**	**1.053**	**.005 - .010**	1.207	.974	.050 - .070
1.180	**.409**	**.005 - .010**	1.182	.752	.100 - .125	1.187	.636	.115 - .135	1.190	.817	.048 - .062	1.200	.086	.010 - .020	**1.208**	**.259**	**.005 - .010**
1.180	.438	.050 - .070	**1.182**	**.753**	**.005 - .010**	1.187	.640	.040 - .060	1.190	.830	.040 - .125	1.200	.138	.050 - .070	1.208	.390	.010 - .050
1.180	**.472**	**.005 - .010**	1.182	.801	.010 - .020	1.187	.656	.048 - .062	1.190	.881	.025 - .040	1.200	.168	.030 - .050	1.209	.893	.020 - .030
1.180	**.474**	**.005 - .010**	1.182	.867	.010 - .020	1.187	.674	.090 - .120	1.190	.890	.050 - .060	1.200	.186	.020 - .040	1.210	.312	.015 - .030
1.180	**.475**	**.005 - .010**	1.182	.879	.060 - .080	1.187	.686	.060 - .075	1.190	.918	.010 - .020	1.200	.213	.040 - .060	1.210	.383	.050 - .075
1.180	.476	.025 - .040	**1.182**	**.960**	**.005 - .010**	1.187	.687	.050 - .083	1.190	1.000	.030 - .040	**1.200**	**.220**	**.005 - .010**	1.210	.674	.050 - .062

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

Need Disks? All O.D. sizes available with no I.D. — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To
1.210	**.878**	**.005 - .020**
1.210	.958	.100 - .125
1.210	1.038	.050 - .075
1.211	.201	.010 - .020
1.211	.403	.075 - .090
1.211	.751	.050 - .075
1.211	**1.005**	**.005 - .010**
1.211	1.035	.010 - .020
1.212	.994	.030 - .050
1.212	1.015	.020 - .040
1.212	1.016	.020 - .040
1.212	1.042	.070 - .090
1.213	**.894**	**.005 - .020**
1.213	1.074	.015 - .025
1.214	.860	.030 - .050
1.214	.879	.015 - .025
1.215	.410	.010 - .020
1.215	**.474**	**.005 - .010**
1.215	.753	.030 - .050
1.215	.875	.062 - .090
1.216	.377	.060 - .083
1.216	1.029	.070 - .090
1.216	**1.073**	**.005 - .010**
1.217	**.701**	**.005 - .010**
1.217	**.757**	**.005 - .010**
1.217	**.902**	**.005 - .015**
1.217	**.995**	**.005 - .010**
1.217	.998	.010 - .020
1.217	**1.001**	**.005 - .025**
1.217	1.013	.020 - .040
1.218	.277	.090 - .125
1.218	.315	.035 - .050
1.218	.355	.040 - .060
1.218	.380	.020 - .060
1.218	.439	.030 - .050
1.218	**.474**	**.005 - .010**
1.218	.565	.042 - .062
1.218	**.627**	**.005 - .010**
1.218	.758	.025 - .035
1.218	.855	.060 - .075
1.218	.856	.060 - .075
1.218	.889	.050 - .062
1.218	1.038	.060 - .080
1.218	1.076	.025 - .040
1.219	.268	.060 - .080
1.219	**.270**	**.005 - .025**
1.219	.315	.035 - .050
1.219	**.473**	**.005 - .010**
1.219	.515	.050 - .075
1.219	.534	.050 - .075
1.219	**.552**	**.005 - .010**
1.219	.595	.025 - .042
1.219	.751	.010 - .020
1.219	**.801**	**.005 - .010**
1.219	.890	.020 - .040
1.219	.940	.040 - .060
1.219	1.000	.020 - .075
1.220	.125	.015 - .030
1.220	.194	.075 - .100
1.220	.283	.015 - .030
1.220	.375	.090 - .100
1.220	**.394**	**.005 - .020**
1.220	.455	.012 - .020
1.220	**.476**	**.005 - .010**
1.220	**.504**	**.005 - .125**
1.220	.507	.110 - .134
1.220	.602	.090 - .120
1.220	.640	.100 - .125
1.220	.672	.025 - .042
1.220	.680	.030 - .050
1.220	.699	.030 - .050
1.220	.799	.010 - .020
1.220	.831	.060 - .083
1.220	.844	.050 - .070
1.220	.875	.062 - .090
1.220	.960	.050 - .083
1.220	1.004	.010 - .020
1.220	**1.083**	**.005 - .010**
1.220	1.090	.042 - .062
1.220	1.116	.040 - .050

O.D.	I.D.	Choose Any Thickness* From To
1.221	.131	.015 - .030
1.221	.194	.020 - .040
1.221	.257	.040 - .060
1.221	.867	.020 - .040
1.221	.899	.025 - .040
1.221	**.916**	**.005 - .010**
1.221	.986	.020 - .040
1.221	1.094	.010 - .020
1.221	1.098	.035 - .050
1.222	.194	.020 - .040
1.222	.836	.030 - .050
1.222	**1.015**	**.005 - .010**
1.222	1.063	.040 - .060
1.222	**1.079**	**.005 - .010**
1.223	.252	.110 - .130
1.223	.385	.100 - .125
1.223	.628	.008 - .015
1.223	.755	.025 - .040
1.223	.793	.020 - .040
1.223	.907	.015 - .030
1.223	**.998**	**.005 - .030**
1.223	1.020	.030 - .060
1.223	**1.085**	**.005 - .010**
1.224	.754	.070 - .090
1.224	1.090	.040 - .060
1.225	.120	.015 - .030
1.225	.375	.015 - .030
1.225	.564	.010 - .020
1.225	**.640**	**.005 - .010**
1.225	.826	.040 - .060
1.225	.947	.010 - .020
1.226	.525	.015 - .030
1.226	.750	.135 - .156
1.227	**.381**	**.005 - .010**
1.227	**.777**	**.005 - .010**
1.227	**.812**	**.005 - .010**
1.227	.966	.010 - .020
1.228	.661	.080 - .100
1.228	.926	.010 - .020
1.228	**1.012**	**.005 - .010**
1.229	**.416**	**.005 - .010**
1.229	.591	.040 - .060
1.229	.753	.020 - .040
1.229	.757	.025 - .070
1.229	.785	.032 - .050
1.229	.861	.070 - .090
1.229	.917	.025 - .042
1.229	**.919**	**.005 - .010**
1.229	.920	.010 - .020
1.230	.145	.050 - .070
1.230	.176	.040 - .060
1.230	.201	.125 - .156
1.230	.378	.060 - .080
1.230	.381	.042 - .062
1.230	.501	.050 - .070
1.230	.612	.050 - .070
1.230	**.761**	**.005 - .010**
1.230	.766	.050 - .134
1.230	.890	.030 - .050
1.230	.911	.015 - .025
1.230	.921	.025 - .040
1.230	.925	.010 - .030
1.230	.981	.020 - .030
1.230	.985	.010 - .020
1.230	1.053	.020 - .040
1.230	**1.080**	**.005 - .010**
1.231	.915	.010 - .020
1.231	**1.048**	**.005 - .010**
1.232	.185	.015 - .030
1.232	**.500**	**.005 - .010**
1.232	.661	.040 - .060
1.232	.792	.120 - .130
1.233	1.027	.040 - .060
1.233	**1.028**	**.005 - .010**
1.233	**1.065**	**.005 - .010**
1.233	1.131	.020 - .030
1.234	.087	.015 - .030
1.234	.392	.134 - .156
1.234	.505	.070 - .090
1.234	.849	.020 - .040

O.D.	I.D.	Choose Any Thickness* From To
1.234	.906	.105 - .120
1.234	.950	.090 - .110
1.234	1.015	.008 - .016
1.234	1.025	.030 - .050
1.234	1.080	.020 - .030
1.235	.500	.010 - .020
1.235	**.626**	**.005 - .020**
1.235	.628	.040 - .060
1.235	.695	.090 - .100
1.235	**.732**	**.005 - .010**
1.235	.766	.010 - .020
1.235	**.802**	**.005 - .010**
1.235	**.882**	**.005 - .020**
1.235	.945	.010 - .020
1.235	.962	.010 - .020
1.235	**1.010**	**.005 - .020**
1.236	**.131**	**.005 - .010**
1.236	**.413**	**.005 - .010**
1.236	**.500**	**.005 - .010**
1.236	.501	.090 - .110
1.236	**.635**	**.005 - .010**
1.236	.644	.060 - .070
1.236	.812	.020 - .040
1.236	.967	.020 - .040
1.236	**1.122**	**.005 - .010**
1.237	.867	.030 - .050
1.237	.930	.050 - .070
1.238	.326	.040 - .060
1.238	.640	.070 - .090
1.238	.661	.020 - .030
1.238	.890	.070 - .090
1.239	**.718**	**.005 - .010**
1.239	.779	.020 - .030
1.239	.879	.062 - .083
1.239	.885	.020 - .030
1.239	.950	.010 - .020
1.239	.962	.020 - .060
1.239	1.043	.015 - .030
1.240	.065	.030 - .040
1.240	.127	.090 - .105
1.240	.172	.010 - .020
1.240	.323	.062 - .083
1.240	.325	.060 - .083
1.240	**.378**	**.005 - .010**
1.240	.380	.030 - .048
1.240	**.412**	**.005 - .010**
1.240	.451	.015 - .030
1.240	.484	.070 - .090
1.240	.560	.075 - .105
1.240	.635	.030 - .040
1.240	.661	.050 - .105
1.240	.697	.030 - .072
1.240	.710	.040 - .060
1.240	.720	.020 - .040
1.240	.749	.010 - .020
1.240	.812	.025 - .040
1.240	**.814**	**.005 - .010**
1.240	.875	.030 - .125
1.240	.937	.090 - .105
1.240	.938	.020 - .040
1.240	.960	.025 - .040
1.240	1.015	.025 - .070
1.240	1.036	.030 - .050
1.240	1.062	.010 - .020
1.240	**1.070**	**.005 - .010**
1.240	1.075	.030 - .050
1.240	1.120	.025 - .042
1.241	**.279**	**.005 - .030**
1.241	.500	.050 - .060
1.241	.641	.050 - .075
1.241	.750	.030 - .050
1.241	.761	.105 - .125
1.241	.782	.110 - .130
1.241	.788	.010 - .020
1.241	.937	.030 - .050
1.241	.945	.020 - .040
1.241	.994	.020 - .030
1.241	1.063	.020 - .035
1.241	1.110	.050 - .070
1.242	.436	.020 - .030

O.D.	I.D.	Choose Any Thickness* From To
1.242	.452	.020 - .030
1.242	.535	.090 - .100
1.242	.641	.062 - .090
1.242	.879	.042 - .062
1.242	.944	.040 - .060
1.243	.220	.035 - .060
1.243	.405	.030 - .050
1.243	.491	.125 - .156
1.243	**.613**	**.005 - .010**
1.243	**.614**	**.005 - .010**
1.243	**.699**	**.005 - .010**
1.243	.855	.070 - .090
1.243	.965	.090 - .105
1.243	1.025	.030 - .040
1.243	1.037	.015 - .030
1.243	1.100	.042 - .060
1.244	.150	.015 - .030
1.244	**.543**	**.005 - .010**
1.244	.768	.060 - .125
1.244	.770	.020 - .083
1.244	.782	.070 - .090
1.244	**.793**	**.005 - .010**
1.244	.801	.025 - .040
1.244	.878	.105 - .135
1.244	.967	.080 - .100
1.244	1.000	.025 - .040
1.244	1.018	.070 - .090
1.244	**1.178**	**.005 - .010**
1.245	**.205**	**.005 - .075**
1.245	.315	.156 - .187
1.245	**.340**	**.005 - .010**
1.245	.501	.100 - .125
1.245	**.527**	**.005 - .010**
1.245	.528	.050 - .070
1.245	.550	.015 - .035
1.245	**.560**	**.005 - .010**
1.245	.565	.050 - .083
1.245	.595	.080 - .100
1.245	.631	.015 - .025
1.245	.636	.050 - .070
1.245	.741	.015 - .025
1.245	.754	.050 - .075
1.245	.756	.010 - .020
1.245	.758	.040 - .060
1.245	.760	.060 - .080
1.245	.768	.015 - .025
1.245	**.773**	**.005 - .010**
1.245	.788	.025 - .040
1.245	.836	.030 - .050
1.245	**.852**	**.005 - .010**
1.245	.880	.015 - .030
1.245	.887	.050 - .070
1.245	.921	.030 - .050
1.245	**.945**	**.005 - .020**
1.245	.947	.080 - .104
1.245	.948	.070 - .090
1.245	.990	.100 - .125
1.245	1.010	.020 - .105
1.245	1.107	.010 - .020
1.245	**1.123**	**.005 - .010**
1.245	**1.126**	**.005 - .010**
1.245	**1.130**	**.005 - .010**
1.245	**1.143**	**.005 - .015**
1.246	.252	.080 - .104
1.246	.254	.015 - .030
1.246	.261	.075 - .090
1.246	.384	.050 - .083
1.246	**.566**	**.005 - .010**
1.246	.701	.110 - .130
1.246	.741	.015 - .030
1.246	.750	.010 - .015
1.246	.753	.050 - .070
1.246	.754	.060 - .090
1.246	.755	.020 - .040
1.246	.761	.070 - .090
1.246	.768	.015 - .030
1.246	.769	.040 - .060
1.246	.781	.020 - .040
1.246	.783	.020 - .040
1.246	.839	.060 - .080

O.D.	I.D.	Choose Any Thickness* From To
1.246	**.880**	**.005 - .010**
1.246	.909	.050 - .075
1.246	**.937**	**.005 - .010**
1.246	1.035	.075 - .090
1.246	1.046	.020 - .040
1.246	1.060	.020 - .040
1.247	.064	.015 - .030
1.247	.125	.040 - .060
1.247	.254	.060 - .080
1.247	.263	.050 - .075
1.247	.354	.100 - .125
1.247	**.378**	**.005 - .010**
1.247	**.392**	**.005 - .010**
1.247	.450	.020 - .030
1.247	.503	.030 - .050
1.247	.572	.030 - .048
1.247	.684	.110 - .120
1.247	**.699**	**.005 - .010**
1.247	.754	.050 - .070
1.247	**.816**	**.005 - .050**
1.247	.850	.070 - .090
1.247	.874	.015 - .030
1.247	.937	.016 - .025
1.247	.978	.050 - .070
1.247	.992	.062 - .083
1.247	1.011	.020 - .030
1.247	1.034	.035 - .050
1.248	.145	.050 - .075
1.248	.147	.030 - .040
1.248	.178	.100 - .125
1.248	.202	.050 - .070
1.248	**.255**	**.005 - .010**
1.248	**.262**	**.005 - .010**
1.248	.263	.050 - .075
1.248	.325	.030 - .050
1.248	.333	.050 - .070
1.248	.344	.042 - .060
1.248	.354	.100 - .125
1.248	**.375**	**.005 - .010**
1.248	.377	.020 - .040
1.248	.378	.042 - .062
1.248	**.453**	**.005 - .010**
1.248	.455	.090 - .120
1.248	**.471**	**.005 - .010**
1.248	.500	.135 - .187
1.248	**.505**	**.005 - .020**
1.248	.508	.105 - .125
1.248	**.510**	**.005 - .010**
1.248	**.517**	**.005 - .125**
1.248	**.532**	**.005 - .010**
1.248	**.535**	**.005 - .010**
1.248	.550	.050 - .070
1.248	.559	.156 - .187
1.248	.627	.010 - .020
1.248	.651	.090 - .105
1.248	**.656**	**.005 - .010**
1.248	.689	.050 - .070
1.248	**.695**	**.005 - .010**
1.248	**.723**	**.005 - .010**
1.248	.742	.100 - .125
1.248	.749	.050 - .070
1.248	**.750**	**.005 - .010**
1.248	.752	.008 - .015
1.248	.760	.025 - .040
1.248	.780	.080 - .104
1.248	**.810**	**.005 - .010**
1.248	.811	.040 - .100
1.248	.813	.040 - .062
1.248	**.877**	**.005 - .010**
1.248	**.878**	**.005 - .025**
1.248	.909	.010 - .015
1.248	**.932**	**.005 - .010**
1.248	.950	.030 - .050
1.248	.984	.010 - .020
1.248	1.000	.062 - .083
1.248	1.004	.062 - .083
1.248	**1.020**	**.005 - .010**
1.248	1.045	.015 - .030
1.248	**1.060**	**.005 - .015**
1.248	1.145	.040 - .060

O.D.	I.D.	Choose Any Thickness* From To
1.249	**.140**	**.005 - .050**
1.249	.188	.015 - .030
1.249	**.203**	**.005 - .105**
1.249	.250	.030 - .050
1.249	.318	.170 - .190
1.249	.319	.036 - .060
1.249	.320	.105 - .125
1.249	.327	.015 - .030
1.249	.328	.090 - .125
1.249	.380	.105 - .125
1.249	.391	.042 - .060
1.249	.401	.100 - .125
1.249	.427	.020 - .040
1.249	.444	.036 - .060
1.249	**.450**	**.005 - .010**
1.249	**.455**	**.005 - .010**
1.249	**.495**	**.005 - .010**
1.249	.510	.070 - .090
1.249	.516	.030 - .050
1.249	.532	.156 - .187
1.249	.578	.060 - .070
1.249	**.605**	**.005 - .010**
1.249	.623	.040 - .060
1.249	**.635**	**.005 - .010**
1.249	.650	.020 - .030
1.249	.651	.020 - .040
1.249	.660	.020 - .040
1.249	.663	.060 - .080
1.249	.689	.050 - .075
1.249	.690	.080 - .100
1.249	.721	.030 - .050
1.249	.723	.010 - .020
1.249	.756	.036 - .060
1.249	**.758**	**.005 - .010**
1.249	.797	.030 - .050
1.249	.800	.030 - .050
1.249	.812	.050 - .070
1.249	.850	.015 - .030
1.249	.905	.015 - .030
1.249	**.920**	**.005 - .010**
1.249	.925	.105 - .125
1.249	**.951**	**.005 - .010**
1.249	.961	.007 - .015
1.249	1.001	.030 - .050
1.249	1.027	.030 - .050
1.249	1.037	.025 - .040
1.249	1.100	.075 - .090
1.249	1.110	.010 - .020
1.249	**1.134**	**.005 - .010**
1.249	1.156	.015 - .030
1.250		
1.250	.082	.025 - .040
1.250	.125	.050 - .075
1.250	.127	.031 - .048
1.250	.140	.020 - .125
1.250	.148	.008 - .016
1.250	**.164**	**.005 - .010**
1.250	.165	.060 - .083
1.250	.170	.030 - .060
1.250	**.182**	**.005 - .010**
1.250	.187	.040 - .083
1.250	.192	.040 - .062
1.250	.193	.030 - .060
1.250	.195	.090 - .135
1.250	.203	.016 - .125
1.250	**.208**	**.005 - .010**
1.250	.213	.010 - .020
1.250	.217	.015 - .030
1.250	**.227**	**.005 - .015**
1.250	.250	.020 - .030
1.250	.252	.012 - .125
1.250	**.254**	**.005 - .012**
1.250	**.255**	**.005 - .010**
1.250	**.259**	**.005 - .010**
1.250	.260	.040 - .060
1.250	.262	.050 - .075

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

For a size NOT listed, send specs or phone for quote — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
1.250	.264	.010 - .020	1.250	.701	.015 - .105	1.251	.131	.050 - .070	1.252	.797	.010 - .020	1.258	.677	.030 - .050	**1.265**	**.504**	**.005 - .010**
1.250	.266	.120 - .134	1.250	.707	.020 - .040	1.251	.132	.070 - .090	1.252	.882	.008 - .016	**1.258**	**.686**	**.005 - .010**	1.265	.533	.100 - .125
1.250	**.273**	**.005 - .010**	1.250	.710	.050 - .070	**1.251**	**.187**	**.005 - .010**	1.252	.932	.100 - .125	1.258	.722	.030 - .050	1.265	.866	.080 - .100
1.250	.280	.062 - .083	**1.250**	**.711**	**.005 - .010**	1.251	.215	.010 - .020	1.252	.961	.007 - .040	1.258	.984	.010 - .015	1.265	.875	.040 - .060
1.250	.283	.060 - .083	**1.250**	**.715**	**.005 - .010**	1.251	.257	.070 - .090	1.252	.965	.020 - .030	1.258	1.004	.015 - .030	1.265	.930	.010 - .020
1.250	.286	.050 - .075	1.250	.723	.050 - .080	1.251	.312	.090 - .105	1.252	.998	.008 - .016	1.258	1.010	.010 - .020	1.265	.990	.100 - .125
1.250	.295	.025 - .042	1.250	.750	.012 - .125	1.251	.330	.156 - .190	1.252	1.002	.016 - .025	**1.258**	**1.116**	**.005 - .010**	1.265	1.000	.060 - .075
1.250	.311	.050 - .062	1.250	.753	.040 - .060	1.251	.332	.105 - .125	1.252	1.004	.025 - .040	1.258	1.129	.010 - .015	**1.265**	**1.206**	**.005 - .010**
1.250	**.312**	**.005 - .010**	1.250	.754	.032 - .042	1.251	.335	.020 - .040	1.252	1.015	.100 - .125	1.259	.232	.020 - .040	1.266	.668	.070 - .090
1.250	.314	.105 - .125	1.250	.755	.070 - .090	**1.251**	**.378**	**.005 - .010**	1.252	1.020	.032 - .060	**1.259**	**.239**	**.005 - .010**	1.266	.680	.050 - .070
1.250	**.320**	**.005 - .010**	1.250	.758	.070 - .125	1.251	.384	.170 - .190	1.252	1.030	.020 - .040	1.259	.316	.015 - .030	**1.266**	**.761**	**.005 - .010**
1.250	.327	.020 - .030	**1.250**	**.762**	**.005 - .070**	1.251	.401	.015 - .030	1.252	1.037	.050 - .070	1.259	.395	.010 - .020	1.266	.779	.050 - .075
1.250	.329	.070 - .090	**1.250**	**.763**	**.005 - .010**	1.251	.410	.015 - .031	**1.252**	**1.040**	**.005 - .010**	1.259	.425	.156 - .187	**1.266**	**.791**	**.005 - .010**
1.250	.343	.080 - .100	1.250	.764	.040 - .060	1.251	.417	.135 - .160	1.252	1.092	.010 - .020	1.259	.473	.015 - .030	1.266	1.047	.060 - .080
1.250	**.354**	**.005 - .010**	1.250	.765	.104 - .134	1.251	.440	.040 - .060	**1.252**	**1.107**	**.005 - .010**	**1.259**	**.475**	**.005 - .010**	1.267	.624	.016 - .032
1.250	.356	.015 - .030	1.250	.770	.040 - .060	1.251	.471	.045 - .060	**1.252**	**1.122**	**.005 - .010**	**1.259**	**.501**	**.005 - .010**	1.267	.798	.075 - .100
1.250	.359	.060 - .090	1.250	.771	.030 - .050	1.251	.480	.030 - .050	1.252	1.125	.010 - .030	**1.259**	**.502**	**.005 - .010**	1.267	1.049	.075 - .090
1.250	.365	.020 - .062	1.250	.781	.050 - .070	1.251	.482	.160 - .190	**1.252**	**1.127**	**.005 - .010**	**1.259**	**.566**	**.005 - .010**	1.267	1.120	.020 - .040
1.250	.375	.090 - .105	1.250	.783	.050 - .075	**1.251**	**.500**	**.005 - .010**	1.253	.390	.100 - .120	1.259	.633	.090 - .125	1.268	.711	.080 - .100
1.250	**.377**	**.005 - .010**	1.250	.784	.050 - .070	1.251	.531	.156 - .187	1.253	.410	.060 - .080	1.259	.640	.125 - .135	1.268	.918	.080 - .104
1.250	**.378**	**.005 - .030**	**1.250**	**.785**	**.005 - .060**	1.251	.532	.120 - .135	1.253	.573	.030 - .050	1.259	.679	.070 - .090	1.268	.980	.060 - .080
1.250	.379	.012 - .040	1.250	.789	.105 - .135	1.251	.551	.015 - .030	1.253	.633	.060 - .080	**1.259**	**.748**	**.005 - .010**	**1.268**	**1.155**	**.005 - .010**
1.250	.382	.100 - .134	1.250	.791	.010 - .020	1.251	.559	.105 - .125	1.253	.656	.015 - .030	1.259	.882	.010 - .020	1.269	.161	.020 - .035
1.250	.383	.030 - .050	1.250	.795	.007 - .015	1.251	.561	.060 - .120	1.253	.766	.156 - .187	1.259	.927	.040 - .050	1.269	.668	.060 - .080
1.250	**.390**	**.005 - .080**	1.250	.796	.110 - .125	1.251	.574	.010 - .020	1.253	.768	.030 - .050	**1.259**	**.991**	**.005 - .010**	1.269	.890	.070 - .080
1.250	.406	.100 - .187	1.250	.798	.015 - .030	1.251	.579	.100 - .125	1.253	.780	.156 - .187	1.259	1.020	.025 - .040	1.269	.980	.025 - .040
1.250	**.407**	**.005 - .050**	1.250	.803	.080 - .100	**1.251**	**.640**	**.005 - .010**	1.253	.782	.008 - .020	1.259	1.024	.015 - .020	**1.269**	**1.004**	**.005 - .010**
1.250	.413	.100 - .120	1.250	.808	.010 - .020	1.251	.658	.040 - .062	1.253	.886	.050 - .070	**1.259**	**1.114**	**.005 - .010**	1.270	.166	.050 - .075
1.250	.436	.100 - .125	1.250	.812	.010 - .104	1.251	.669	.050 - .070	1.253	.914	.020 - .030	1.259	1.181	.030 - .050	1.270	.460	.135 - .156
1.250	.437	.010 - .020	1.250	.828	.020 - .030	1.251	.692	.090 - .110	1.253	1.000	.025 - .040	**1.260**	**.237**	**.005 - .010**	1.270	.527	.156 - .187
1.250	.440	.040 - .125	1.250	.829	.090 - .120	1.251	.695	.025 - .040	1.253	1.025	.030 - .050	1.260	.301	.100 - .125	1.270	.651	.020 - .040
1.250	**.441**	**.005 - .012**	1.250	.839	.120 - .135	1.251	.725	.020 - .040	1.253	1.110	.010 - .020	**1.260**	**.319**	**.005 - .010**	1.270	.700	.040 - .060
1.250	.442	.040 - .060	**1.250**	**.843**	**.005 - .030**	1.251	.752	.020 - .030	**1.253**	**1.123**	**.005 - .010**	**1.260**	**.395**	**.005 - .010**	1.270	.764	.090 - .100
1.250	.443	.105 - .135	1.250	.844	.010 - .020	1.251	.755	.015 - .030	1.254	.516	.048 - .075	**1.260**	**.398**	**.005 - .020**	1.270	.793	.100 - .125
1.250	.445	.100 - .134	1.250	.845	.020 - .080	1.251	.759	.105 - .135	1.254	.542	.010 - .020	**1.260**	**.440**	**.005 - .010**	1.270	.976	.040 - .060
1.250	.455	.015 - .030	1.250	.855	.040 - .060	1.251	.814	.075 - .100	1.254	.630	.050 - .070	1.260	.449	.010 - .020	**1.271**	**.886**	**.005 - .010**
1.250	.480	.040 - .060	1.250	.874	.090 - .105	**1.251**	**.834**	**.005 - .010**	1.254	.748	.040 - .060	**1.260**	**.474**	**.005 - .010**	1.271	.940	.006 - .012
1.250	**.500**	**.005 - .062**	1.250	.875	.120 - .135	1.251	.874	.050 - .075	1.254	.765	.050 - .075	**1.260**	**.475**	**.005 - .010**	1.271	1.005	.025 - .040
1.250	.501	.070 - .090	1.250	.876	.030 - .050	**1.251**	**.876**	**.005 - .010**	1.254	.766	.134 - .156	**1.260**	**.477**	**.005 - .010**	1.271	1.080	.020 - .035
1.250	**.503**	**.005 - .020**	1.250	.878	.040 - .060	**1.251**	**.879**	**.005 - .010**	1.254	.840	.050 - .075	**1.260**	**.501**	**.005 - .030**	1.272	.525	.050 - .070
1.250	.504	.006 - .015	1.250	.879	.050 - .070	1.251	.907	.040 - .062	**1.254**	**.990**	**.005 - .010**	1.260	.503	.100 - .125	1.272	.643	.090 - .120
1.250	**.505**	**.005 - .020**	**1.250**	**.880**	**.005 - .030**	1.251	.928	.025 - .040	1.254	1.069	.020 - .040	**1.260**	**.505**	**.005 - .020**	1.272	.800	.040 - .060
1.250	**.507**	**.005 - .010**	1.250	.882	.090 - .125	1.251	.942	.090 - .105	1.254	1.083	.030 - .050	1.260	.512	.080 - .105	1.273	.780	.080 - .105
1.250	.508	.015 - .062	**1.250**	**.887**	**.005 - .010**	1.251	.984	.010 - .020	1.254	1.130	.015 - .030	1.260	.553	.010 - .020	1.273	.907	.030 - .050
1.250	.510	.090 - .120	1.250	.888	.012 - .025	**1.251**	**.999**	**.005 - .010**	1.255	.501	.060 - .080	**1.260**	**.630**	**.005 - .010**	1.273	.920	.020 - .030
1.250	.512	.135 - .156	1.250	.889	.060 - .090	**1.251**	**1.003**	**.005 - .010**	1.255	.656	.010 - .120	**1.260**	**.632**	**.005 - .010**	1.274	.711	.030 - .050
1.250	**.518**	**.005 - .010**	**1.250**	**.890**	**.005 - .090**	1.251	1.005	.090 - .105	1.255	.664	.090 - .105	1.260	.682	.060 - .080	1.274	.938	.015 - .025
1.250	.520	.020 - .060	1.250	.893	.015 - .030	**1.251**	**1.050**	**.005 - .010**	1.255	.714	.110 - .125	1.260	.683	.060 - .080	1.274	.969	.080 - .105
1.250	.531	.135 - .156	1.250	.895	.025 - .070	1.251	1.081	.070 - .090	1.255	.754	.070 - .080	1.260	.689	.020 - .030	**1.274**	**1.125**	**.005 - .010**
1.250	.534	.036 - .090	**1.250**	**.902**	**.005 - .010**	1.251	1.082	.020 - .040	1.255	.756	.020 - .040	1.260	.750	.062 - .120	1.275	.255	.015 - .030
1.250	**.540**	**.005 - .125**	1.250	.907	.040 - .060	1.251	1.099	.010 - .020	1.255	.843	.135 - .187	**1.260**	**.826**	**.005 - .010**	1.275	.297	.025 - .042
1.250	.562	.050 - .125	1.250	.937	.100 - .125	1.251	1.110	.020 - .030	**1.255**	**.845**	**.005 - .010**	1.260	.827	.040 - .060	1.275	.313	.060 - .090
1.250	**.563**	**.005 - .030**	1.250	.939	.100 - .125	1.252	.268	.030 - .050	1.255	.872	.030 - .050	1.260	.984	.025 - .040	1.275	.409	.050 - .070
1.250	.564	.104 - .134	1.250	.953	.015 - .083	1.252	.280	.105 - .135	1.255	.911	.105 - .125	1.260	1.002	.080 - .100	1.275	.410	.025 - .042
1.250	.571	.040 - .060	1.250	.962	.015 - .020	1.252	.316	.025 - .070	1.255	.960	.040 - .060	1.260	1.050	.015 - .025	1.275	.411	.025 - .040
1.250	.572	.040 - .050	1.250	.986	.090 - .105	1.252	.317	.135 - .156	1.255	1.031	.020 - .030	1.260	1.055	.010 - .015	1.275	.500	.075 - .090
1.250	.580	.135 - .156	1.250	.990	.030 - .040	1.252	.319	.050 - .070	1.255	1.079	.020 - .030	1.260	1.100	.040 - .060	1.275	.672	.025 - .042
1.250	.586	.015 - .030	1.250	.995	.060 - .080	1.252	.329	.048 - .062	1.256	.139	.050 - .083	1.260	1.130	.010 - .020	1.275	.797	.025 - .042
1.250	.595	.015 - .135	1.250	1.000	.093 - .125	1.252	.343	.156 - .190	1.256	.329	.075 - .100	1.261	.126	.010 - .012	1.275	.980	.020 - .040
1.250	.625	.020 - .125	1.250	1.007	.042 - .062	**1.252**	**.376**	**.005 - .020**	1.256	.507	.050 - .070	**1.261**	**.195**	**.005 - .010**	1.275	1.009	.090 - .110
1.250	.630	.050 - .100	1.250	1.010	.010 - .020	1.252	.396	.040 - .060	1.256	.519	.100 - .125	1.261	.217	.105 - .135	1.275	1.045	.025 - .042
1.250	**.636**	**.005 - .010**	**1.250**	**1.011**	**.005 - .010**	1.252	.407	.090 - .110	1.256	.613	.015 - .030	1.261	.316	.090 - .125	**1.275**	**1.060**	**.005 - .008**
1.250	**.637**	**.005 - .010**	1.250	1.012	.050 - .070	1.252	.408	.025 - .042	1.256	.941	.125 - .156	**1.261**	**.414**	**.005 - .010**	**1.275**	**1.092**	**.005 - .010**
1.250	.640	.030 - .080	1.250	1.015	.020 - .040	1.252	.426	.100 - .125	1.256	1.080	.062 - .080	1.261	.505	.070 - .090	1.276	.105	.025 - .040
1.250	.641	.100 - .125	1.250	1.017	.060 - .083	1.252	.437	.060 - .075	**1.257**	**.605**	**.005 - .010**	1.261	.509	.105 - .125	1.276	.821	.050 - .070
1.250	**.646**	**.005 - .015**	1.250	1.020	.100 - .120	1.252	.442	.125 - .156	1.257	.673	.020 - .030	**1.261**	**.632**	**.005 - .010**	1.277	.657	.083 - .105
1.250	.647	.090 - .125	**1.250**	**1.033**	**.005 - .010**	**1.252**	**.506**	**.005 - .010**	1.257	.787	.120 - .135	1.261	1.004	.070 - .090	1.277	.964	.020 - .030
1.250	**.650**	**.005 - .010**	1.250	1.035	.050 - .070	1.252	.585	.030 - .050	1.257	.933	.030 - .048	**1.261**	**1.016**	**.005 - .010**	1.277	1.059	.050 - .070
1.250	.656	.070 - .187	1.250	1.036	.080 - .105	**1.252**	**.625**	**.005 - .010**	1.257	.941	.125 - .156	1.261	1.063	.030 - .042	**1.278**	**.250**	**.005 - .015**
1.250	**.658**	**.005 - .010**	1.250	1.051	.010 - .020	1.252	.629	.020 - .030	**1.257**	**.956**	**.005 - .010**	1.262	.187	.020 - .035	1.278	.500	.100 - .125
1.250	.660	.020 - .040	1.250	1.058	.072 - .093	1.252	.630	.105 - .125	**1.257**	**1.014**	**.005 - .010**	1.262	.295	.020 - .040	1.278	.529	.100 - .125
1.250	.662	.105 - .125	1.250	1.061	.025 - .040	1.252	.633	.050 - .075	**1.257**	**1.100**	**.005 - .015**	**1.262**	**.535**	**.005 - .010**	**1.278**	**.571**	**.005 - .010**
1.250	.665	.030 - .040	1.250	1.115	.010 - .020	1.252	.640	.008 - .016	1.257	1.120	.010 - .020	1.262	.951	.030 - .050	1.278	.750	.015 - .030
1.250	**.669**	**.005 - .010**	1.250	1.123	.025 - .040	1.252	.725	.060 - .070	1.257	1.166	.025 - .040	1.263	.882	.105 - .135	1.278	.821	.030 - .050
1.250	.675	.015 - .030	1.250	1.140	.015 - .025	**1.252**	**.753**	**.005 - .010**	**1.258**	**.380**	**.005 - .010**	1.263	1.075	.090 - .105	**1.278**	**.924**	**.005 - .010**
1.250	.680	.105 - .125	1.250	1.145	.020 - .040	**1.252**	**.755**	**.005 - .010**	**1.258**	**.473**	**.005 - .010**	1.263	1.085	.010 - .020	**1.279**	**.438**	**.005 - .010**
1.250	.683	.010 - .020	1.250	1.167	.010 - .025	**1.252**	**.765**	**.005 - .010**	**1.258**	**.474**	**.005 - .010**	1.263	1.089	.025 - .035	1.279	.633	.050 - .060
1.250	.688	.090 - .125	**1.250**	**1.180**	**.005 - .015**	**1.252**	**.779**	**.005 - .015**	**1.258**	**.478**	**.005 - .010**	1.264	.548	.030 - .050	**1.280**	**.155**	**.005 - .015**
1.250	.689	.010 - .040	**1.250**	**1.181**	**.005 - .015**	1.252	.789	.050 - .075	1.258	.538	.010 - .020	1.265	.354	.120 - .134	1.280	.170	.100 - .125
1.250	**.690**	**.005 - .010**	**1.250**	**1.187**	**.005 - .010**	1.252	.790	.050 - .075	1.258	.632	.015 - .030	1.265	.376	.060 - .080	1.280	.221	.070 - .090

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

Call BOKER'S for precision stamping, assembly, and secondary operations.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
1.280	.318	.050 - .062	1.288	1.111	.020 - .035	1.300	.383	.020 - .030	1.306	1.007	.050 - .090	1.312	.314	.075 - .090	1.315	.923	.020 - .030
1.280	.438	.030 - .040	1.288	1.113	.075 - .090	**1.300**	**.394**	**.005 - .020**	1.306	1.070	.015 - .030	1.312	.320	.030 - .050	**1.315**	**1.177**	**.005 - .010**
1.280	.515	.040 - .070	1.288	1.128	.040 - .060	1.300	.397	.010 - .020	**1.306**	**1.167**	**.005 - .010**	1.312	.374	.020 - .040	**1.316**	**.655**	**.005 - .010**
1.280	.518	.020 - .040	1.288	1.150	.015 - .030	**1.300**	**.437**	**.005 - .010**	**1.306**	**1.184**	**.005 - .010**	1.312	.377	.020 - .030	1.316	.745	.080 - .100
1.280	.530	.015 - .025	1.289	1.113	.075 - .090	1.300	.438	.010 - .020	1.307	.502	.010 - .020	1.312	.392	.030 - .060	1.316	.881	.020 - .040
1.280	.628	.040 - .060	1.290	.128	.020 - .030	**1.300**	**.440**	**.005 - .020**	**1.307**	**.655**	**.005 - .010**	1.312	.505	.010 - .015	1.316	.885	.025 - .050
1.280	.668	.062 - .120	1.290	.231	.105 - .135	1.300	.511	.010 - .020	1.307	1.068	.075 - .090	1.312	.507	.042 - .062	1.316	.940	.010 - .015
1.280	.677	.030 - .050	**1.290**	**.264**	**.005 - .010**	1.300	.518	.010 - .020	1.308	.125	.040 - .062	**1.312**	**.553**	**.005 - .010**	1.316	.978	.042 - .060
1.280	.760	.040 - .060	1.290	.377	.020 - .030	1.300	.558	.010 - .020	1.308	.220	.050 - .070	**1.312**	**.563**	**.005 - .010**	1.317	.502	.030 - .050
1.280	.888	.070 - .090	1.290	.627	.020 - .030	1.300	.628	.020 - .035	**1.308**	**.251**	**.005 - .010**	1.312	.564	.020 - .040	**1.317**	**.744**	**.005 - .010**
1.280	**.893**	**.005 - .010**	1.290	.760	.030 - .060	**1.300**	**.629**	**.005 - .030**	**1.308**	**.619**	**.005 - .010**	1.312	.565	.090 - .110	1.317	1.051	.010 - .020
1.280	.915	.007 - .012	1.290	1.000	.050 - .070	1.300	.630	.050 - .075	1.308	.751	.050 - .075	**1.312**	**.566**	**.005 - .010**	1.317	1.115	.080 - .100
1.280	1.000	.060 - .090	1.290	1.146	.050 - .060	1.300	.635	.010 - .020	1.308	.762	.070 - .090	1.312	.594	.075 - .090	1.317	1.198	.020 - .035
1.280	1.017	.025 - .040	**1.290**	**1.204**	**.005 - .010**	1.300	.650	.080 - .105	**1.308**	**.902**	**.005 - .010**	1.312	.625	.100 - .125	1.317	1.250	.020 - .032
1.280	1.020	.070 - .090	1.291	.966	.020 - .040	1.300	.677	.030 - .050	1.309	.311	.105 - .125	1.312	.634	.040 - .062	**1.318**	**.180**	**.005 - .010**
1.280	1.031	.010 - .020	**1.291**	**1.180**	**.005 - .010**	**1.300**	**.681**	**.005 - .010**	**1.309**	**.377**	**.005 - .015**	1.312	.655	.015 - .030	1.318	.746	.050 - .075
1.280	1.041	.040 - .050	**1.292**	**1.000**	**.005 - .010**	1.300	.755	.010 - .030	1.309	.392	.030 - .048	1.312	.687	.025 - .035	1.318	1.005	.040 - .125
1.280	1.045	.040 - .060	1.292	1.121	.010 - .020	1.300	.812	.015 - .030	1.309	.607	.025 - .040	1.312	.689	.050 - .060	1.319	.387	.090 - .125
1.280	1.066	.010 - .060	1.292	1.132	.060 - .080	**1.300**	**.830**	**.005 - .010**	1.309	.635	.010 - .020	1.312	.703	.100 - .125	**1.319**	**.715**	**.005 - .010**
1.280	1.070	.050 - .070	**1.293**	**.378**	**.005 - .010**	1.300	.887	.010 - .020	1.309	.751	.050 - .070	1.312	.720	.050 - .070	**1.319**	**.716**	**.005 - .010**
1.280	1.074	.030 - .050	**1.293**	**1.200**	**.005 - .010**	1.300	.900	.060 - .080	**1.309**	**.791**	**.005 - .010**	1.312	.748	.050 - .062	1.319	.851	.040 - .060
1.280	1.139	.020 - .040	1.294	1.058	.100 - .120	**1.300**	**.905**	**.005 - .050**	1.309	.813	.020 - .035	1.312	.755	.105 - .125	1.319	1.070	.015 - .030
1.280	1.140	.020 - .040	1.294	1.135	.010 - .020	1.300	.960	.062 - .083	1.309	.816	.007 - .016	1.312	.765	.090 - .120	1.319	1.075	.050 - .070
1.281	.248	.060 - .090	1.295	.377	.010 - .020	1.300	.962	.010 - .020	1.309	.878	.060 - .083	1.312	.766	.050 - .075	1.319	1.104	.030 - .040
1.281	.264	.010 - .020	1.295	.511	.135 - .156	1.300	.963	.020 - .060	1.309	.883	.050 - .080	1.312	.781	.020 - .125	**1.319**	**1.130**	**.005 - .010**
1.281	**.408**	**.005 - .030**	1.295	.588	.040 - .060	1.300	.980	.100 - .125	1.309	1.000	.020 - .040	1.312	.782	.060 - .083	**1.320**	**.183**	**.005 - .010**
1.281	.442	.060 - .080	1.295	.881	.010 - .020	1.300	.984	.050 - .070	1.309	1.031	.100 - .120	1.312	.783	.040 - .070	**1.320**	**.210**	**.005 - .010**
1.281	.530	.015 - .030	1.295	.901	.060 - .080	**1.300**	**.988**	**.005 - .015**	1.309	1.128	.030 - .050	1.312	.812	.070 - .090	1.320	.318	.105 - .125
1.281	.538	.010 - .020	1.295	1.015	.050 - .075	1.300	.996	.050 - .070	1.310	.190	.050 - .070	**1.312**	**.843**	**.005 - .010**	1.320	.476	.010 - .020
1.281	.550	.156 - .187	**1.295**	**1.141**	**.005 - .010**	1.300	1.006	.010 - .020	1.310	.205	.040 - .060	1.312	.878	.060 - .080	1.320	.495	.062 - .135
1.281	.608	.020 - .030	**1.295**	**1.170**	**.005 - .010**	**1.300**	**1.012**	**.005 - .015**	1.310	.231	.080 - .100	1.312	.890	.090 - .125	**1.320**	**.715**	**.005 - .010**
1.281	.891	.080 - .100	1.295	1.228	.010 - .020	1.300	1.020	.035 - .050	**1.310**	**.379**	**.005 - .010**	1.312	.892	.020 - .040	**1.320**	**.753**	**.005 - .010**
1.281	.892	.040 - .060	1.297	.247	.050 - .083	1.300	1.060	.006 - .016	1.310	.385	.170 - .190	1.312	.906	.062 - .080	1.320	.758	.080 - .104
1.281	1.012	.015 - .030	**1.297**	**.736**	**.005 - .010**	1.300	1.062	.070 - .090	1.310	.407	.090 - .120	**1.312**	**.938**	**.005 - .010**	1.320	.761	.015 - .060
1.282	**.103**	**.005 - .010**	1.297	.825	.010 - .020	1.300	1.067	.050 - .060	1.310	.416	.110 - .130	1.312	.941	.030 - .040	**1.320**	**.765**	**.005 - .010**
1.282	.248	.060 - .075	1.297	.845	.050 - .070	1.300	1.087	.010 - .020	1.310	.505	.010 - .020	**1.312**	**.986**	**.005 - .010**	**1.320**	**.849**	**.005 - .010**
1.282	.310	.075 - .090	1.297	.852	.010 - .020	1.300	1.136	.030 - .040	1.310	.510	.012 - .020	1.312	1.000	.010 - .020	**1.320**	**.867**	**.005 - .010**
1.282	**.408**	**.005 - .010**	1.297	.860	.010 - .020	**1.300**	**1.182**	**.005 - .010**	1.310	.516	.040 - .060	1.312	1.001	.080 - .105	**1.320**	**.880**	**.005 - .010**
1.282	**.409**	**.005 - .010**	1.297	.945	.062 - .090	1.301	.377	.015 - .030	1.310	.529	.040 - .060	1.312	1.008	.050 - .125	1.320	.931	.020 - .035
1.282	.580	.010 - .020	1.297	1.058	.090 - .105	**1.301**	**.504**	**.005 - .020**	1.310	.619	.015 - .030	**1.312**	**1.027**	**.005 - .010**	1.320	1.000	.090 - .125
1.282	**.625**	**.005 - .010**	1.297	1.150	.020 - .040	**1.301**	**.698**	**.005 - .010**	1.310	.711	.015 - .030	1.312	1.031	.080 - .105	1.320	1.130	.040 - .050
1.282	.942	.010 - .020	1.297	1.169	.020 - .050	1.301	.756	.018 - .025	1.310	.751	.100 - .120	1.312	1.190	.015 - .025	1.321	.780	.050 - .070
1.282	**1.020**	**.005 - .010**	1.298	.220	.060 - .080	1.301	.820	.040 - .060	1.310	.753	.105 - .125	1.312	1.251	.105 - .125	**1.321**	**.804**	**.005 - .010**
1.282	1.043	.030 - .050	1.298	.275	.050 - .075	1.301	.901	.080 - .110	**1.310**	**.755**	**.005 - .010**	1.313	.268	.035 - .050	1.322	.758	.080 - .104
1.282	1.066	.040 - .060	1.298	.395	.010 - .020	1.301	.945	.080 - .105	1.310	.768	.040 - .060	1.313	.375	.100 - .125	1.322	1.175	.040 - .060
1.282	1.162	.010 - .020	1.298	.441	.010 - .020	1.301	.962	.105 - .125	**1.310**	**.770**	**.005 - .010**	**1.313**	**.456**	**.005 - .010**	**1.323**	**.212**	**.005 - .010**
1.282	1.164	.010 - .020	1.298	.479	.105 - .125	1.301	1.068	.030 - .050	1.310	.812	.030 - .042	**1.313**	**.563**	**.005 - .030**	1.323	.244	.020 - .040
1.283	**.104**	**.005 - .010**	1.298	.496	.030 - .050	1.302	.441	.100 - .125	1.310	.878	.015 - .030	1.313	.635	.090 - .100	**1.323**	**.351**	**.005 - .015**
1.283	.375	.020 - .035	1.298	.504	.090 - .110	1.302	.477	.050 - .070	**1.310**	**.944**	**.005 - .010**	1.313	.657	.050 - .075	1.323	.394	.015 - .030
1.283	.409	.010 - .020	**1.298**	**.630**	**.005 - .010**	1.302	.628	.100 - .125	**1.310**	**1.006**	**.005 - .010**	1.313	.660	.090 - .125	1.323	.551	.050 - .070
1.283	.650	.080 - .090	**1.298**	**.640**	**.005 - .010**	1.302	.774	.060 - .090	**1.310**	**1.049**	**.005 - .010**	1.313	.687	.105 - .125	1.323	.640	.060 - .075
1.283	.671	.015 - .025	1.298	.880	.070 - .090	1.302	.787	.100 - .125	**1.310**	**1.130**	**.005 - .015**	1.313	.751	.025 - .040	1.323	.666	.100 - .125
1.283	.890	.015 - .030	1.298	.906	.015 - .025	1.302	1.007	.012 - .020	1.310	1.250	.010 - .020	1.313	.759	.080 - .100	1.323	1.001	.015 - .030
1.283	.929	.030 - .040	1.299	.140	.020 - .040	**1.302**	**1.200**	**.005 - .010**	1.311	.189	.040 - .060	1.313	.874	.020 - .040	1.323	1.063	.050 - .070
1.283	1.126	.040 - .060	**1.299**	**.245**	**.005 - .010**	**1.303**	**.194**	**.005 - .010**	1.311	.202	.020 - .040	1.313	.951	.070 - .090	1.324	.320	.010 - .020
1.283	**1.167**	**.005 - .010**	1.299	.253	.030 - .040	**1.303**	**.504**	**.005 - .010**	1.311	.261	.020 - .040	1.313	1.015	.060 - .083	1.324	.529	.105 - .135
1.284	.192	.050 - .070	**1.299**	**.385**	**.005 - .010**	1.303	.734	.020 - .030	1.311	.335	.080 - .100	1.313	1.063	.040 - .060	**1.324**	**.687**	**.005 - .030**
1.284	.324	.080 - .104	**1.299**	**.395**	**.005 - .020**	1.303	.899	.040 - .060	1.311	.380	.030 - .050	1.313	1.118	.015 - .035	1.324	.808	.105 - .125
1.284	.787	.050 - .070	**1.299**	**.396**	**.005 - .010**	1.304	.250	.040 - .050	1.311	.389	.025 - .040	1.313	1.148	.020 - .030	1.324	1.001	.020 - .040
1.284	1.019	.010 - .020	1.299	.471	.030 - .050	1.304	.470	.075 - .125	1.311	.500	.025 - .040	1.313	1.164	.025 - .040	1.325	.125	.010 - .020
1.284	1.089	.015 - .030	**1.299**	**.473**	**.005 - .010**	1.304	.504	.090 - .120	**1.311**	**.573**	**.005 - .010**	1.314	.268	.030 - .060	1.325	.139	.040 - .060
1.284	**1.208**	**.005 - .010**	**1.299**	**.553**	**.005 - .015**	**1.304**	**1.189**	**.005 - .016**	1.311	.593	.075 - .090	1.314	.341	.060 - .080	1.325	.141	.010 - .020
1.285	.409	.120 - .135	1.299	.626	.010 - .020	**1.305**	**.080**	**.005 - .008**	**1.311**	**.635**	**.005 - .010**	1.314	.392	.040 - .060	1.325	.157	.010 - .020
1.285	**.724**	**.005 - .010**	1.299	.812	.025 - .040	1.305	.255	.040 - .050	1.311	.655	.090 - .110	1.314	.439	.050 - .075	**1.325**	**.171**	**.005 - .015**
1.285	**1.136**	**.005 - .010**	1.299	.922	.040 - .060	1.305	.514	.100 - .120	**1.311**	**.676**	**.005 - .010**	1.314	.441	.105 - .135	1.325	.172	.010 - .020
1.286	.251	.060 - .090	1.299	.958	.050 - .070	1.305	.705	.062 - .120	1.311	.688	.156 - .187	1.314	.522	.015 - .030	1.325	.204	.010 - .020
1.286	.509	.156 - .187	**1.299**	**.960**	**.005 - .010**	1.305	.734	.020 - .030	**1.311**	**.858**	**.005 - .010**	1.314	.593	.015 - .030	1.325	.218	.010 - .020
1.286	**.809**	**.005 - .010**	1.299	1.019	.025 - .042	1.305	.803	.040 - .060	1.311	.875	.020 - .040	1.314	.626	.100 - .125	1.325	.251	.010 - .020
1.286	.811	.090 - .105	1.299	1.030	.016 - .025	1.305	.825	.040 - .060	1.311	.884	.050 - .135	1.314	.673	.015 - .025	1.325	.270	.010 - .020
1.286	.918	.010 - .020	**1.299**	**1.068**	**.005 - .010**	1.305	.826	.100 - .125	1.311	.890	.030 - .050	1.314	.827	.010 - .020	1.325	.281	.040 - .060
1.287	.178	.050 - .083	1.300	.147	.080 - .104	1.305	.942	.020 - .040	1.311	.947	.020 - .040	1.314	.885	.070 - .100	1.325	.295	.080 - .104
1.287	.251	.060 - .090	1.300	.298	.020 - .030	1.305	1.006	.015 - .030	1.311	.995	.030 - .050	1.314	.969	.040 - .060	1.325	.301	.012 - .025
1.287	.254	.050 - .062	**1.300**	**.312**	**.005 - .010**	**1.305**	**1.011**	**.005 - .010**	**1.311**	**1.001**	**.005 - .010**	1.314	1.062	.006 - .016	1.325	.350	.010 - .020
1.287	.264	.010 - .020	1.300	.316	.105 - .125	1.305	1.016	.060 - .070	1.311	1.005	.030 - .048	1.314	1.090	.042 - .062	1.325	.381	.010 - .020
1.287	**1.142**	**.005 - .010**	**1.300**	**.318**	**.005 - .010**	1.305	1.140	.070 - .080	1.311	1.009	.030 - .040	**1.315**	**.177**	**.005 - .010**	1.325	.410	.010 - .015
1.288	.614	.050 - .070	1.300	.368	.025 - .040	1.305	1.201	.010 - .020	**1.311**	**1.057**	**.005 - .010**	1.315	.253	.080 - .104	1.325	.440	.010 - .134
1.288	.761	.030 - .050	**1.300**	**.377**	**.005 - .020**	1.305	1.205	.010 - .020	**1.311**	**1.190**	**.005 - .010**	1.315	.522	.010 - .020	1.325	.500	.010 - .015
1.288	.777	.100 - .120	**1.300**	**.378**	**.005 - .020**	1.306	.758	.040 - .060	1.312	.197	.025 - .040	**1.315**	**.560**	**.005 - .010**	1.325	.600	.010 - .015
1.288	**.969**	**.005 - .010**	**1.300**	**.380**	**.005 - .020**	1.306	.970	.015 - .025	1.312	.234	.050 - .075	1.315	.626	.100 - .125	1.325	.640	.010 - .015
1.288	1.023	.015 - .030	1.300	.382	.010 - .020	1.306	.996	.007 - .015	1.312	.251	.050 - .070	1.315	.703	.010 - .020	1.325	.669	.040 - .060

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

New tools added continually. Call for sizes not listed — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
1.325	.700	.010 - .015	1.338	.867	.020 - .030	1.348	.677	.030 - .050	1.356	1.000	.015 - .030	1.365	.376	.100 - .120	**1.370**	**.568**	**.005 - .010**
1.325	.750	.010 - .015	1.338	.937	.025 - .040	**1.348**	**.700**	**.005 - .010**	1.356	1.030	.015 - .030	1.365	.435	.050 - .083	**1.370**	**.628**	**.005 - .010**
1.325	.810	.010 - .020	1.338	.983	.010 - .020	1.348	.717	.075 - .090	1.357	.190	.020 - .040	1.365	.562	.030 - .050	1.370	.685	.075 - .125
1.325	.900	.050 - .075	1.338	1.121	.020 - .030	**1.348**	**.818**	**.005 - .015**	**1.357**	**.350**	**.005 - .010**	1.365	.584	.030 - .060	1.370	.696	.015 - .030
1.325	.920	.010 - .015	1.339	.220	.040 - .060	1.348	1.095	.010 - .025	1.357	.500	.100 - .125	1.365	.585	.025 - .042	1.370	.698	.050 - .075
1.325	1.055	.080 - .104	1.339	.272	.015 - .030	1.348	1.145	.010 - .025	1.357	.666	.080 - .100	1.365	.595	.030 - .050	1.370	.751	.080 - .100
1.325	1.118	.015 - .030	1.339	.274	.010 - .020	1.349	.471	.040 - .060	1.357	.845	.032 - .060	1.365	.808	.040 - .060	1.370	.793	.020 - .030
1.325	1.179	.080 - .100	**1.339**	**.316**	**.005 - .010**	**1.349**	**.501**	**.005 - .010**	1.357	.890	.020 - .040	1.365	.940	.030 - .050	**1.370**	**.794**	**.005 - .010**
1.326	.314	.025 - .040	**1.339**	**.474**	**.005 - .010**	**1.349**	**.503**	**.005 - .020**	**1.357**	**.968**	**.005 - .010**	**1.365**	**1.131**	**.005 - .010**	1.370	.886	.070 - .090
1.326	.570	.015 - .070	1.339	.640	.100 - .125	**1.349**	**.504**	**.005 - .010**	1.357	1.030	.015 - .040	1.365	1.150	.050 - .075	1.370	.890	.100 - .125
1.326	.751	.010 - .020	**1.339**	**.762**	**.005 - .010**	1.349	.593	.060 - .080	1.358	.125	.030 - .050	1.365	1.160	.020 - .030	**1.370**	**.900**	**.005 - .007**
1.326	**1.022**	**.005 - .010**	1.339	.828	.105 - .125	1.349	.749	.050 - .070	1.358	.209	.120 - .135	1.365	1.187	.025 - .040	1.370	.940	.080 - .100
1.327	.680	.030 - .050	**1.339**	**.983**	**.005 - .010**	1.349	.984	.050 - .070	1.358	.601	.040 - .060	**1.365**	**1.192**	**.005 - .020**	1.370	.948	.062 - .080
1.328	.126	.016 - .025	**1.339**	**1.181**	**.005 - .010**	1.349	1.057	.010 - .020	**1.358**	**.803**	**.005 - .010**	1.365	1.194	.020 - .040	**1.370**	**.950**	**.005 - .015**
1.328	.415	.156 - .187	**1.339**	**1.202**	**.005 - .010**	**1.349**	**1.294**	**.005 - .010**	1.358	1.026	.050 - .075	1.365	1.262	.020 - .030	1.370	.960	.032 - .050
1.328	1.020	.025 - .040	**1.339**	**1.205**	**.005 - .010**	**1.350**	**.089**	**.005 - .010**	1.358	1.037	.008 - .015	1.366	.070	.015 - .030	1.370	1.000	.042 - .062
1.329	.175	.050 - .083	1.339	1.213	.015 - .030	1.350	.090	.025 - .040	**1.358**	**1.130**	**.005 - .010**	1.366	.191	.105 - .125	**1.370**	**1.056**	**.005 - .015**
1.329	.791	.105 - .125	1.340	.250	.062 - .120	1.350	.240	.120 - .130	**1.359**	**.689**	**.005 - .010**	1.366	.542	.025 - .050	**1.370**	**1.065**	**.005 - .015**
1.329	.900	.050 - .075	**1.340**	**.260**	**.005 - .010**	1.350	.252	.015 - .125	1.359	.860	.130 - .150	1.366	.760	.020 - .030	**1.370**	**1.126**	**.005 - .010**
1.329	.990	.105 - .134	**1.340**	**.261**	**.005 - .010**	1.350	.312	.050 - .060	**1.359**	**.888**	**.005 - .010**	**1.366**	**.761**	**.005 - .010**	1.370	1.127	.040 - .060
1.329	1.001	.080 - .100	1.340	.284	.015 - .030	**1.350**	**.314**	**.005 - .020**	1.359	1.025	.100 - .125	**1.366**	**.763**	**.005 - .010**	**1.370**	**1.130**	**.005 - .020**
1.329	1.174	.060 - .070	1.340	.288	.040 - .060	1.350	.390	.105 - .125	1.359	1.028	.100 - .125	1.366	.883	.080 - .100	1.370	1.136	.020 - .030
1.329	**1.180**	**.005 - .010**	**1.340**	**.289**	**.005 - .010**	1.350	.441	.010 - .020	1.359	1.126	.060 - .080	**1.366**	**.892**	**.005 - .020**	1.370	1.163	.040 - .060
1.329	1.190	.030 - .050	1.340	.630	.020 - .040	**1.350**	**.457**	**.005 - .010**	1.360	.204	.050 - .075	1.366	.997	.025 - .040	1.370	1.188	.060 - .070
1.330	**.328**	**.005 - .010**	1.340	.632	.010 - .020	**1.350**	**.500**	**.005 - .020**	**1.360**	**.338**	**.005 - .010**	1.366	1.028	.070 - .090	**1.370**	**1.199**	**.005 - .010**
1.330	**.385**	**.005 - .010**	1.340	.677	.042 - .072	**1.350**	**.503**	**.005 - .025**	1.360	.344	.050 - .070	1.366	1.030	.050 - .075	1.370	1.255	.010 - .015
1.330	.391	.156 - .190	1.340	.751	.045 - .060	1.350	.504	.006 - .020	1.360	.629	.010 - .020	1.366	1.070	.030 - .105	**1.371**	**.148**	**.005 - .010**
1.330	.744	.030 - .060	1.340	.766	.042 - .062	1.350	.505	.006 - .015	1.360	.639	.015 - .030	1.366	1.133	.050 - .070	1.371	.234	.090 - .125
1.330	.851	.040 - .060	1.340	1.000	.105 - .125	**1.350**	**.508**	**.005 - .010**	1.360	.656	.100 - .125	1.366	1.140	.020 - .030	**1.371**	**.281**	**.005 - .010**
1.330	.910	.025 - .040	1.340	1.004	.042 - .060	**1.350**	**.562**	**.005 - .010**	1.360	.791	.090 - .105	**1.366**	**1.144**	**.005 - .010**	1.371	.525	.020 - .030
1.330	1.100	.030 - .050	**1.340**	**1.034**	**.005 - .010**	1.350	.564	.010 - .020	1.360	.878	.050 - .070	1.366	1.153	.010 - .020	1.371	.595	.010 - .020
1.331	.635	.070 - .090	1.340	1.104	.070 - .080	**1.350**	**.626**	**.005 - .020**	1.360	.928	.080 - .105	**1.366**	**1.221**	**.005 - .010**	1.371	.627	.050 - .075
1.331	.776	.050 - .070	1.340	1.118	.050 - .083	1.350	.634	.020 - .040	1.360	.986	.060 - .080	1.367	.758	.070 - .090	1.371	.641	.105 - .125
1.331	**.910**	**.005 - .010**	**1.340**	**1.143**	**.005 - .020**	1.350	.669	.090 - .110	**1.360**	**1.003**	**.005 - .010**	1.367	.760	.110 - .130	1.371	.651	.030 - .050
1.331	**1.123**	**.005 - .010**	**1.341**	**.479**	**.005 - .010**	**1.350**	**.675**	**.005 - .010**	1.360	1.026	.050 - .075	1.367	.763	.110 - .130	1.371	.698	.040 - .062
1.331	1.128	.010 - .020	1.341	.537	.105 - .135	1.350	.700	.030 - .060	1.360	1.060	.090 - .105	1.367	.884	.080 - .104	1.371	.759	.100 - .125
1.332	.770	.125 - .156	1.341	.871	.010 - .020	**1.350**	**.750**	**.005 - .030**	1.360	1.128	.015 - .035	1.367	.885	.040 - .060	**1.371**	**.760**	**.005 - .010**
1.333	.397	.040 - .060	1.341	.893	.040 - .060	**1.350**	**.751**	**.005 - .010**	1.360	1.146	.030 - .060	1.367	.911	.010 - .020	1.371	.820	.008 - .040
1.333	**.950**	**.005 - .010**	1.342	.380	.120 - .156	**1.350**	**.760**	**.005 - .040**	1.361	.219	.060 - .080	1.367	1.010	.040 - .060	**1.371**	**.886**	**.005 - .025**
1.334	.239	.015 - .030	1.342	.457	.100 - .125	1.350	.777	.025 - .040	1.361	.875	.075 - .125	1.367	1.030	.060 - .080	1.371	1.000	.120 - .135
1.334	**.325**	**.005 - .010**	1.342	.876	.125 - .156	1.350	.779	.040 - .060	1.361	.884	.075 - .100	1.367	1.067	.040 - .060	**1.371**	**1.073**	**.005 - .010**
1.334	.886	.105 - .125	1.342	.922	.040 - .060	1.350	.819	.050 - .070	1.361	.890	.050 - .075	1.367	1.112	.025 - .040	1.371	1.123	.020 - .040
1.334	.906	.060 - .075	**1.342**	**1.015**	**.005 - .010**	1.350	.860	.015 - .030	**1.361**	**1.032**	**.005 - .010**	1.367	1.153	.020 - .030	1.371	1.138	.070 - .090
1.335	.380	.020 - .035	1.343	.630	.025 - .040	**1.350**	**.863**	**.005 - .030**	**1.362**	**.230**	**.005 - .010**	**1.367**	**1.180**	**.005 - .015**	1.371	1.178	.070 - .090
1.335	.632	.035 - .060	1.343	.871	.050 - .075	1.350	.905	.050 - .070	1.362	.439	.015 - .030	**1.368**	**.498**	**.005 - .010**	1.371	1.200	.010 - .020
1.335	.650	.050 - .070	1.343	.907	.042 - .062	1.350	.910	.015 - .030	1.362	.641	.062 - .090	1.368	.510	.075 - .090	**1.371**	**1.212**	**.005 - .015**
1.335	.906	.020 - .030	1.343	1.100	.080 - .105	1.350	.977	.036 - .048	1.362	.656	.100 - .125	1.368	.596	.030 - .050	1.372	.141	.070 - .090
1.335	1.106	.062 - .080	1.343	1.126	.030 - .050	1.350	.978	.010 - .020	1.362	.750	.010 - .060	**1.368**	**.635**	**.005 - .010**	1.372	.191	.070 - .090
1.335	1.131	.050 - .075	1.343	1.150	.072 - .090	1.350	1.000	.050 - .070	1.362	.762	.100 - .125	1.368	.792	.040 - .060	1.372	.378	.030 - .050
1.335	**1.134**	**.005 - .010**	1.343	1.261	.020 - .040	1.350	1.054	.012 - .020	**1.362**	**1.002**	**.005 - .025**	1.368	.874	.050 - .070	1.372	.564	.080 - .125
1.336	**1.004**	**.005 - .010**	1.344	.258	.100 - .135	1.350	1.108	.050 - .070	**1.362**	**1.203**	**.005 - .010**	1.368	.918	.100 - .125	1.372	.637	.020 - .032
1.336	1.006	.030 - .050	1.344	.260	.060 - .090	**1.350**	**1.139**	**.005 - .010**	1.362	1.262	.015 - .030	1.368	.980	.050 - .070	1.372	.690	.010 - .030
1.336	1.038	.080 - .100	1.344	.376	.100 - .120	1.350	1.209	.010 - .020	1.363	.941	.060 - .080	1.368	1.044	.030 - .050	1.372	.730	.105 - .187
1.336	1.131	.040 - .062	1.344	.752	.100 - .125	1.351	.561	.010 - .030	1.363	1.004	.015 - .030	1.368	1.069	.070 - .090	1.372	.750	.020 - .032
1.337	**.319**	**.005 - .010**	1.344	.812	.040 - .062	1.351	.750	.020 - .030	1.363	1.190	.030 - .050	1.368	1.072	.030 - .080	1.372	.812	.020 - .032
1.337	**.396**	**.005 - .010**	1.344	1.000	.015 - .030	1.351	1.026	.060 - .080	1.363	1.249	.015 - .025	1.368	1.073	.080 - .090	1.372	.891	.070 - .090
1.337	.440	.042 - .062	1.344	1.002	.050 - .075	1.351	1.049	.010 - .020	1.364	.414	.070 - .090	1.368	1.112	.025 - .040	1.372	.908	.050 - .075
1.337	**.475**	**.005 - .010**	**1.344**	**1.050**	**.005 - .010**	1.351	1.091	.025 - .040	1.364	.505	.025 - .040	1.368	1.113	.050 - .075	1.372	.940	.030 - .050
1.337	.500	.100 - .125	1.344	1.068	.015 - .030	1.351	1.164	.015 - .030	1.364	.539	.070 - .090	1.368	1.174	.040 - .062	**1.372**	**.948**	**.005 - .010**
1.337	**.502**	**.005 - .020**	**1.345**	**.408**	**.005 - .010**	1.351	1.209	.010 - .020	**1.364**	**.664**	**.005 - .010**	1.369	.312	.025 - .040	1.372	.949	.090 - .125
1.337	.747	.025 - .040	1.345	.818	.050 - .070	1.351	1.212	.010 - .020	1.364	.665	.070 - .090	1.369	.329	.010 - .020	**1.372**	**.973**	**.005 - .015**
1.337	.748	.010 - .020	**1.345**	**.836**	**.005 - .010**	**1.351**	**1.214**	**.005 - .010**	1.364	.701	.040 - .060	1.369	.505	.065 - .080	1.372	.983	.025 - .040
1.337	.856	.010 - .020	1.345	.907	.060 - .090	**1.351**	**1.253**	**.005 - .010**	1.364	.780	.135 - .156	1.369	.670	.090 - .105	1.372	1.003	.040 - .060
1.337	**.884**	**.005 - .010**	1.345	.967	.100 - .125	1.352	.670	.180 - .190	1.364	.788	.070 - .090	1.369	.761	.010 - .020	1.372	1.011	.105 - .120
1.337	.945	.060 - .080	1.345	1.001	.010 - .020	1.352	.776	.050 - .075	1.364	.911	.070 - .090	1.369	.803	.040 - .060	1.372	1.065	.012 - .025
1.337	**.984**	**.005 - .040**	1.345	1.039	.025 - .040	1.353	.988	.075 - .090	1.364	.912	.080 - .100	**1.369**	**.832**	**.005 - .010**	1.372	1.135	.050 - .070
1.337	1.001	.070 - .090	1.345	1.040	.015 - .030	1.353	1.070	.050 - .070	1.364	1.002	.008 - .016	**1.369**	**.885**	**.005 - .015**	1.372	1.145	.050 - .105
1.337	**1.094**	**.005 - .010**	1.345	1.173	.015 - .030	1.354	.315	.020 - .040	1.364	1.011	.030 - .050	1.369	.893	.125 - .156	1.372	1.153	.030 - .050
1.338	**.255**	**.005 - .010**	1.345	1.174	.015 - .025	**1.354**	**.538**	**.005 - .010**	1.364	1.042	.080 - .100	1.369	1.001	.015 - .030	1.372	1.189	.030 - .050
1.338	**.259**	**.005 - .010**	1.346	.201	.060 - .080	1.355	.263	.090 - .120	**1.364**	**1.182**	**.005 - .010**	1.369	1.145	.090 - .105	**1.372**	**1.191**	**.005 - .010**
1.338	**.320**	**.005 - .010**	**1.346**	**.443**	**.005 - .025**	1.355	.501	.110 - .130	**1.364**	**1.184**	**.005 - .010**	1.369	1.188	.010 - .015	1.372	1.210	.010 - .020
1.338	**.394**	**.005 - .020**	**1.347**	**.441**	**.005 - .010**	1.355	.687	.015 - .025	1.364	1.191	.010 - .020	1.370	.144	.030 - .050	1.372	1.213	.020 - .035
1.338	.396	.010 - .020	**1.347**	**.500**	**.005 - .010**	1.355	.746	.015 - .030	1.364	1.193	.050 - .070	1.370	.192	.030 - .050	1.373	.218	.040 - .062
1.338	**.473**	**.005 - .010**	**1.347**	**.502**	**.005 - .010**	1.355	.795	.090 - .105	1.364	1.194	.030 - .060	1.370	.234	.100 - .125	1.373	.234	.105 - .125
1.338	.475	.010 - .020	1.347	1.075	.015 - .030	1.355	.899	.050 - .070	1.364	1.237	.010 - .025	1.370	.282	.080 - .100	1.373	.250	.016 - .032
1.338	**.477**	**.005 - .010**	1.347	1.140	.015 - .030	1.355	1.010	.060 - .105	**1.364**	**1.252**	**.005 - .010**	1.370	.300	.075 - .125	1.373	.255	.040 - .060
1.338	**.505**	**.005 - .020**	**1.348**	**.441**	**.005 - .010**	1.355	1.064	.015 - .030	**1.364**	**1.281**	**.005 - .010**	**1.370**	**.316**	**.005 - .010**	1.373	.380	.120 - .135
1.338	**.552**	**.005 - .015**	**1.348**	**.500**	**.005 - .015**	**1.355**	**1.073**	**.005 - .010**	**1.364**	**1.282**	**.005 - .012**	1.370	.333	.010 - .020	**1.373**	**.409**	**.005 - .010**
1.338	**.582**	**.005 - .010**	1.348	.504	.006 - .012	1.355	1.129	.050 - .060	1.365	.281	.090 - .110	1.370	.505	.100 - .125	1.373	.410	.100 - .125
1.338	.751	.100 - .134	1.348	.566	.080 - .100	1.356	.444	.025 - .042	1.365	.354	.060 - .080	1.370	.538	.008 - .016	1.373	.462	.020 - .040

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For non-metallic materials, contact BOKER'S — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
1.373	.463	.015 - .030	1.375	.252	.040 - .060	**1.375**	**1.124**	**.005 - .010**	1.378	.780	.025 - .050	**1.389**	**1.073**	**.005 - .010**	1.402	.505	.008 - .015
1.373	.500	.105 - .135	1.375	.255	.040 - .060	1.375	1.130	.015 - .080	1.378	.783	.040 - .060	1.390	.368	.060 - .083	1.402	.509	.105 - .135
1.373	.563	.070 - .090	1.375	.260	.015 - .030	**1.375**	**1.131**	**.005 - .010**	1.378	.787	.100 - .120	1.390	.430	.080 - .134	**1.402**	**.518**	**.005 - .008**
1.373	.568	.170 - .190	**1.375**	**.270**	**.005 - .010**	1.375	1.136	.050 - .070	1.378	.858	.032 - .050	1.390	.552	.010 - .020	**1.402**	**.760**	**.005 - .015**
1.373	.570	.006 - .015	1.375	.281	.100 - .125	1.375	1.146	.025 - .040	1.378	.861	.080 - .100	**1.390**	**.780**	**.005 - .010**	1.402	1.224	.050 - .070
1.373	.575	.050 - .075	1.375	.310	.062 - .080	**1.375**	**1.154**	**.005 - .010**	1.378	.865	.100 - .125	**1.390**	**1.094**	**.005 - .008**	1.403	.250	.042 - .075
1.373	.625	.020 - .190	1.375	.312	.050 - .083	**1.375**	**1.159**	**.005 - .010**	1.378	.876	.090 - .125	1.390	1.147	.015 - .030	1.403	.430	.100 - .125
1.373	.627	.010 - .020	1.375	.316	.050 - .100	**1.375**	**1.188**	**.005 - .010**	1.378	.878	.060 - .120	1.390	1.187	.015 - .030	1.403	.672	.110 - .130
1.373	.639	.040 - .050	1.375	.318	.100 - .125	1.375	1.189	.030 - .050	1.378	.984	.010 - .020	1.391	.888	.010 - .035	1.403	1.022	.010 - .020
1.373	.641	.125 - .156	1.375	.321	.060 - .080	**1.375**	**1.195**	**.005 - .025**	**1.378**	**1.060**	**.005 - .010**	1.391	.983	.040 - .060	1.404	.508	.090 - .120
1.373	.737	.010 - .020	1.375	.328	.025 - .070	1.375	1.200	.020 - .032	1.378	1.061	.012 - .020	1.393	.611	.060 - .080	1.404	1.196	.020 - .040
1.373	**.749**	**.005 - .010**	1.375	.343	.100 - .125	1.375	1.201	.025 - .040	1.378	1.075	.030 - .050	1.393	.719	.080 - .104	1.405	.610	.010 - .020
1.373	**.750**	**.005 - .010**	1.375	.355	.070 - .100	1.375	1.251	.010 - .020	1.378	1.186	.060 - .080	**1.393**	**1.281**	**.005 - .010**	**1.405**	**.630**	**.005 - .010**
1.373	.765	.010 - .020	1.375	.373	.100 - .125	**1.375**	**1.253**	**.005 - .030**	**1.378**	**1.201**	**.005 - .010**	**1.394**	**.654**	**.005 - .010**	1.405	1.008	.015 - .030
1.373	**.785**	**.005 - .010**	1.375	.375	.062 - .120	**1.375**	**1.265**	**.005 - .010**	1.379	.203	.020 - .040	1.394	.724	.070 - .090	**1.405**	**1.265**	**.005 - .010**
1.373	.890	.030 - .050	1.375	.382	.050 - .075	**1.376**	**.258**	**.005 - .010**	1.379	.453	.010 - .040	1.395	.132	.025 - .035	1.406	.139	.030 - .048
1.373	**.906**	**.005 - .020**	1.375	.395	.062 - .080	1.376	.267	.134 - .187	1.379	.510	.070 - .080	1.395	.420	.105 - .125	**1.406**	**.390**	**.005 - .010**
1.373	.912	.040 - .090	1.375	.420	.048 - .062	**1.376**	**.383**	**.005 - .015**	**1.379**	**.564**	**.005 - .010**	1.395	.550	.050 - .083	1.406	1.010	.060 - .070
1.373	**.996**	**.005 - .010**	1.375	.422	.060 - .070	1.376	.406	.050 - .075	1.379	.599	.015 - .030	1.395	1.157	.040 - .060	1.406	1.091	.025 - .040
1.373	1.000	.008 - .060	1.375	.439	.170 - .190	1.376	.503	.090 - .125	**1.379**	**.812**	**.005 - .010**	1.396	.563	.060 - .080	1.406	1.249	.020 - .030
1.373	1.095	.042 - .062	1.375	.440	.075 - .090	**1.376**	**.513**	**.005 - .010**	**1.379**	**.835**	**.005 - .010**	1.396	.611	.105 - .125	1.407	.290	.025 - .040
1.373	1.126	.020 - .040	1.375	.444	.050 - .070	1.376	.530	.156 - .187	1.379	1.069	.090 - .120	1.396	1.190	.015 - .025	**1.407**	**.390**	**.005 - .030**
1.373	1.207	.025 - .040	1.375	.452	.156 - .187	1.376	.534	.010 - .020	1.379	1.075	.015 - .025	1.396	1.220	.010 - .020	**1.407**	**.624**	**.005 - .010**
1.373	1.209	.030 - .060	1.375	.500	.100 - .125	**1.376**	**.620**	**.005 - .010**	1.379	1.089	.030 - .050	1.397	.381	.115 - .130	1.407	.634	.060 - .090
1.373	1.218	.040 - .060	**1.375**	**.502**	**.005 - .060**	1.376	.650	.100 - .125	1.380	.254	.040 - .060	1.397	.419	.060 - .125	**1.407**	**.705**	**.005 - .010**
1.373	1.236	.010 - .020	1.375	.505	.030 - .050	**1.376**	**.657**	**.005 - .010**	1.380	.282	.062 - .190	**1.397**	**.545**	**.005 - .010**	1.407	1.112	.015 - .030
1.373	**1.255**	**.005 - .020**	1.375	.515	.060 - .080	1.376	.760	.060 - .140	**1.380**	**.300**	**.005 - .008**	1.397	.705	.060 - .090	**1.407**	**1.125**	**.005 - .010**
1.374	**.155**	**.005 - .010**	1.375	.526	.070 - .090	1.376	.761	.090 - .105	1.380	.346	.120 - .134	1.397	.710	.050 - .075	1.407	1.188	.020 - .030
1.374	.190	.060 - .080	**1.375**	**.530**	**.005 - .075**	1.376	.765	.090 - .105	**1.380**	**.398**	**.005 - .010**	**1.397**	**.815**	**.005 - .020**	**1.407**	**1.195**	**.005 - .010**
1.374	.245	.050 - .070	**1.375**	**.556**	**.005 - .060**	1.376	.780	.110 - .130	1.380	.405	.100 - .125	1.397	.981	.015 - .030	1.408	.902	.032 - .050
1.374	.251	.160 - .180	**1.375**	**.560**	**.005 - .010**	1.376	.815	.060 - .080	1.380	.596	.100 - .125	**1.397**	**1.068**	**.005 - .030**	**1.408**	**1.004**	**.005 - .010**
1.374	.253	.083 - .104	1.375	.563	.120 - .135	**1.376**	**.847**	**.005 - .010**	1.380	.694	.120 - .135	**1.398**	**.505**	**.005 - .015**	1.408	1.256	.040 - .060
1.374	.318	.050 - .060	1.375	.564	.010 - .020	1.376	.903	.025 - .040	1.380	.752	.020 - .030	**1.398**	**.717**	**.005 - .010**	1.408	1.285	.030 - .050
1.374	.341	.090 - .110	1.375	.571	.060 - .070	1.376	.906	.030 - .060	1.380	.880	.020 - .040	1.398	.872	.025 - .040	**1.408**	**1.332**	**.005 - .010**
1.374	.378	.050 - .070	1.375	.590	.105 - .125	1.376	.984	.030 - .050	**1.380**	**.901**	**.005 - .010**	1.398	.906	.030 - .050	**1.409**	**.502**	**.005 - .010**
1.374	.389	.060 - .070	1.375	.619	.020 - .040	1.376	1.003	.010 - .020	1.380	.902	.080 - .100	1.398	1.160	.010 - .020	**1.409**	**.503**	**.005 - .010**
1.374	.518	.134 - .187	**1.375**	**.630**	**.005 - .007**	1.376	1.016	.050 - .070	**1.380**	**1.004**	**.005 - .010**	1.398	1.161	.030 - .050	1.409	.766	.015 - .070
1.374	.562	.015 - .025	**1.375**	**.634**	**.005 - .010**	**1.376**	**1.022**	**.005 - .010**	1.380	1.009	.105 - .125	**1.399**	**.377**	**.005 - .020**	**1.409**	**1.187**	**.005 - .010**
1.374	**.563**	**.005 - .010**	1.375	.641	.157 - .187	1.376	1.135	.080 - .105	1.380	1.021	.050 - .075	**1.399**	**.524**	**.005 - .060**	1.409	1.189	.050 - .060
1.374	**.568**	**.005 - .010**	**1.375**	**.644**	**.005 - .010**	1.376	1.157	.010 - .020	**1.380**	**1.105**	**.005 - .010**	1.399	.654	.010 - .020	**1.409**	**1.333**	**.005 - .010**
1.374	.575	.090 - .110	1.375	.656	.040 - .062	1.376	1.225	.025 - .040	**1.380**	**1.180**	**.005 - .010**	1.399	.719	.010 - .060	1.410	.265	.060 - .080
1.374	.577	.020 - .042	1.375	.700	.120 - .135	**1.376**	**1.247**	**.005 - .010**	1.380	1.186	.080 - .100	1.399	.890	.025 - .040	1.410	.500	.015 - .030
1.374	.641	.050 - .070	1.375	.709	.050 - .070	1.377	.269	.040 - .060	**1.380**	**1.253**	**.005 - .010**	1.399	.906	.050 - .070	1.410	.660	.015 - .030
1.374	.700	.156 - .187	1.375	.719	.010 - .020	1.377	.318	.100 - .125	1.381	.561	.080 - .100	1.399	1.160	.030 - .050	1.410	.690	.105 - .135
1.374	**.701**	**.005 - .010**	1.375	.750	.020 - .050	1.377	.336	.075 - .090	1.381	.689	.050 - .070	**1.399**	**1.203**	**.005 - .010**	1.410	.855	.030 - .050
1.374	**.710**	**.005 - .010**	1.375	.751	.050 - .060	1.377	.346	.100 - .125	1.381	1.200	.025 - .040	1.400	.140	.020 - .040	1.410	.897	.060 - .090
1.374	**.717**	**.005 - .010**	1.375	.753	.100 - .125	1.377	.376	.105 - .125	1.382	.542	.010 - .030	1.400	.269	.050 - .070	1.410	1.030	.020 - .040
1.374	.750	.100 - .125	1.375	.754	.060 - .080	1.377	.377	.080 - .105	1.382	.543	.040 - .070	1.400	.379	.080 - .100	1.410	1.110	.030 - .050
1.374	.756	.020 - .030	1.375	.757	.090 - .110	**1.377**	**.383**	**.005 - .010**	1.382	.633	.020 - .030	1.400	.380	.105 - .125	1.410	1.143	.010 - .020
1.374	.762	.070 - .090	1.375	.758	.048 - .062	1.377	.384	.030 - .050	**1.382**	**1.093**	**.005 - .010**	1.400	.500	.040 - .060	1.410	1.147	.080 - .100
1.374	.770	.040 - .060	1.375	.763	.156 - .187	**1.377**	**.505**	**.005 - .020**	1.382	1.137	.060 - .080	**1.400**	**.503**	**.005 - .015**	**1.410**	**1.187**	**.005 - .010**
1.374	.800	.010 - .020	**1.375**	**.770**	**.005 - .010**	1.377	.515	.050 - .075	**1.382**	**1.138**	**.005 - .010**	1.400	.505	.080 - .100	**1.410**	**1.189**	**.005 - .008**
1.374	.807	.090 - .100	1.375	.782	.156 - .187	1.377	.517	.060 - .080	1.382	1.192	.020 - .040	1.400	.549	.020 - .040	**1.410**	**1.202**	**.005 - .010**
1.374	.825	.040 - .060	1.375	.803	.090 - .100	1.377	.531	.100 - .125	1.383	.629	.090 - .125	1.400	.564	.010 - .020	**1.411**	**.836**	**.005 - .010**
1.374	.829	.010 - .020	**1.375**	**.812**	**.005 - .120**	1.377	.754	.060 - .080	1.383	1.000	.030 - .050	1.400	.627	.015 - .030	1.411	1.265	.010 - .025
1.374	.880	.025 - .040	**1.375**	**.824**	**.005 - .020**	1.377	.756	.050 - .075	1.384	.314	.090 - .110	1.400	.696	.020 - .032	1.412	.201	.040 - .060
1.374	.881	.110 - .135	1.375	.827	.105 - .135	1.377	.790	.020 - .040	1.384	.543	.020 - .030	1.400	.754	.015 - .030	1.412	.836	.105 - .120
1.374	.884	.025 - .040	1.375	.829	.048 - .075	**1.377**	**.860**	**.005 - .010**	**1.384**	**.758**	**.005 - .010**	**1.400**	**.755**	**.005 - .010**	1.412	1.070	.040 - .060
1.374	.901	.030 - .050	1.375	.860	.006 - .100	1.377	.895	.032 - .048	1.384	1.171	.012 - .025	1.400	.756	.050 - .070	1.412	1.193	.030 - .050
1.374	.905	.010 - .020	1.375	.875	.100 - .125	1.377	.983	.060 - .080	**1.384**	**1.318**	**.005 - .010**	**1.400**	**.822**	**.005 - .010**	**1.412**	**1.246**	**.005 - .010**
1.374	.912	.010 - .025	1.375	.876	.032 - .048	**1.377**	**.985**	**.005 - .010**	1.385	.567	.080 - .105	**1.400**	**.879**	**.005 - .010**	1.413	.634	.100 - .125
1.374	.942	.050 - .070	**1.375**	**.877**	**.005 - .020**	1.377	.997	.030 - .050	1.385	.578	.031 - .042	**1.400**	**.885**	**.005 - .020**	**1.413**	**.995**	**.005 - .010**
1.374	.999	.025 - .040	1.375	.878	.090 - .120	1.377	1.001	.025 - .090	**1.385**	**.796**	**.005 - .010**	1.400	.887	.010 - .020	**1.413**	**1.118**	**.005 - .010**
1.374	1.011	.090 - .120	1.375	.883	.010 - .020	1.377	1.018	.030 - .050	1.385	.920	.015 - .020	1.400	1.000	.010 - .105	1.414	.434	.170 - .190
1.374	**1.049**	**.005 - .010**	1.375	.936	.020 - .032	1.377	1.029	.040 - .060	1.385	1.010	.030 - .060	1.400	1.017	.090 - .105	1.414	.563	.160 - .190
1.374	1.059	.030 - .050	1.375	.940	.060 - .090	**1.377**	**1.100**	**.005 - .010**	1.385	1.015	.075 - .090	1.400	1.050	.070 - .080	1.414	.595	.090 - .110
1.374	1.078	.010 - .020	**1.375**	**.953**	**.005 - .010**	**1.377**	**1.241**	**.005 - .010**	**1.385**	**1.220**	**.005 - .010**	1.400	1.076	.025 - .042	**1.414**	**.794**	**.005 - .010**
1.374	1.125	.050 - .075	1.375	.962	.035 - .060	1.378	.206	.050 - .075	**1.385**	**1.269**	**.005 - .010**	**1.400**	**1.158**	**.005 - .010**	**1.415**	**.319**	**.005 - .010**
1.374	1.128	.010 - .020	1.375	.977	.062 - .083	**1.378**	**.208**	**.005 - .010**	**1.385**	**1.339**	**.005 - .010**	1.400	1.200	.080 - .090	**1.415**	**.320**	**.005 - .020**
1.374	**1.145**	**.005 - .010**	**1.375**	**.995**	**.005 - .010**	1.378	.240	.105 - .125	1.386	.474	.080 - .105	1.400	1.258	.020 - .030	1.415	.382	.040 - .062
1.374	1.209	.040 - .060	1.375	1.000	.025 - .125	1.378	.313	.020 - .032	1.386	.655	.170 - .190	1.400	1.260	.030 - .042	**1.415**	**.396**	**.005 - .020**
1.374	1.265	.030 - .050	1.375	1.005	.120 - .156	1.378	.315	.010 - .020	1.386	1.084	.060 - .080	**1.401**	**.195**	**.005 - .010**	**1.415**	**.398**	**.005 - .010**
1.375	.100	.025 - .045	1.375	1.006	.100 - .125	**1.378**	**.316**	**.005 - .010**	**1.386**	**1.124**	**.005 - .010**	1.401	.986	.045 - .060	**1.415**	**.477**	**.005 - .010**
1.375	.125	.070 - .090	1.375	1.008	.060 - .080	**1.378**	**.324**	**.005 - .010**	1.386	1.187	.030 - .045	1.401	1.102	.010 - .020	1.415	.521	.020 - .030
1.375	.129	.015 - .030	**1.375**	**1.015**	**.005 - .010**	1.378	.402	.156 - .187	1.387	1.212	.020 - .040	1.401	1.169	.010 - .020	1.415	.567	.010 - .025
1.375	**.131**	**.005 - .010**	1.375	1.022	.016 - .032	**1.378**	**.492**	**.005 - .010**	1.388	.785	.015 - .030	1.401	1.186	.015 - .025	1.415	.896	.060 - .070
1.375	.144	.040 - .060	1.375	1.045	.025 - .040	1.378	.500	.010 - .020	1.388	.825	.020 - .040	**1.401**	**1.258**	**.005 - .030**	**1.415**	**1.000**	**.005 - .010**
1.375	.207	.040 - .062	1.375	1.065	.035 - .050	1.378	.657	.060 - .080	1.388	1.016	.090 - .110	**1.401**	**1.295**	**.005 - .010**	1.415	1.044	.015 - .030
1.375	.210	.100 - .125	1.375	1.078	.040 - .060	1.378	.660	.105 - .135	1.389	.474	.080 - .105	1.402	.295	.030 - .050	1.415	1.100	.010 - .020
1.375	.250	.080 - .104	**1.375**	**1.110**	**.005 - .010**	1.378	.736	.100 - .125	1.389	1.052	.030 - .050	**1.402**	**.504**	**.005 - .010**	1.415	1.122	.030 - .042

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O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
1.415	**1.126**	**.005 - .010**	**1.423**	**.882**	**.005 - .030**	**1.435**	**.500**	**.005 - .010**	1.438	1.039	.030 - .050	1.449	.522	.105 - .125	1.461	1.172	.050 - .070
1.416	.169	.030 - .050	1.423	1.000	.031 - .042	1.435	.563	.010 - .020	1.438	1.065	.036 - .050	1.449	.629	.010 - .020	1.461	1.362	.020 - .030
1.416	.324	.135 - .156	**1.423**	**1.288**	**.005 - .010**	**1.435**	**.665**	**.005 - .010**	1.438	1.100	.050 - .070	1.449	.966	.040 - .060	1.462	.502	.080 - .100
1.416	**.473**	**.005 - .010**	1.423	1.289	.010 - .030	1.435	.750	.020 - .030	**1.438**	**1.150**	**.005 - .010**	1.449	.990	.010 - .020	1.462	.563	.048 - .062
1.416	.474	.020 - .030	1.424	.440	.060 - .070	**1.435**	**.875**	**.005 - .010**	1.438	1.171	.025 - .040	1.449	1.028	.045 - .060	1.462	1.070	.080 - .100
1.416	**.502**	**.005 - .030**	**1.424**	**.505**	**.005 - .010**	1.435	1.082	.070 - .090	1.438	1.188	.020 - .040	1.449	1.057	.040 - .060	1.462	1.247	.008 - .075
1.416	**.505**	**.005 - .020**	1.425	.316	.015 - .030	1.435	1.107	.020 - .040	1.438	1.190	.015 - .030	**1.449**	**1.198**	**.005 - .010**	1.463	.480	.090 - .110
1.416	**.567**	**.005 - .010**	**1.425**	**.377**	**.005 - .020**	1.435	1.192	.040 - .060	1.439	.115	.020 - .040	1.449	1.322	.010 - .020	1.463	.813	.090 - .110
1.416	.590	.160 - .190	1.425	.438	.010 - .020	1.435	1.315	.010 - .020	**1.439**	**.466**	**.005 - .010**	1.450	.157	.020 - .035	1.463	1.211	.015 - .025
1.416	**.629**	**.005 - .010**	1.425	.440	.070 - .090	1.436	.125	.008 - .016	1.439	.515	.125 - .135	1.450	.201	.025 - .040	1.463	1.224	.015 - .030
1.416	.635	.050 - .070	**1.425**	**.502**	**.005 - .020**	1.436	.195	.025 - .050	1.439	.636	.015 - .030	1.450	.208	.050 - .075	**1.464**	**.590**	**.005 - .010**
1.416	.709	.040 - .060	**1.425**	**.504**	**.005 - .020**	1.436	.377	.010 - .040	1.439	.757	.040 - .060	1.450	.262	.020 - .030	1.464	.741	.042 - .062
1.416	1.030	.100 - .120	1.425	.505	.010 - .020	1.436	.383	.010 - .040	1.439	.811	.040 - .060	1.450	.282	.040 - .060	1.464	1.189	.015 - .025
1.416	**1.111**	**.005 - .030**	**1.425**	**.515**	**.005 - .010**	1.436	.504	.050 - .075	**1.439**	**.812**	**.005 - .020**	**1.450**	**.380**	**.005 - .020**	1.465	.377	.030 - .060
1.416	1.141	.040 - .060	**1.425**	**.889**	**.005 - .010**	**1.436**	**.555**	**.005 - .010**	1.439	1.125	.070 - .085	**1.450**	**.441**	**.005 - .010**	1.465	.378	.010 - .050
1.416	1.226	.025 - .040	**1.425**	**1.155**	**.005 - .010**	1.436	.563	.015 - .030	1.439	1.265	.015 - .030	**1.450**	**.450**	**.005 - .010**	1.465	.812	.105 - .134
1.416	1.338	.010 - .020	1.425	1.161	.040 - .050	**1.436**	**.643**	**.005 - .010**	1.440	.235	.020 - .035	1.450	.531	.080 - .100	1.465	1.095	.050 - .075
1.417	.125	.010 - .020	1.425	1.188	.010 - .020	1.436	.886	.008 - .012	1.440	.250	.060 - .070	1.450	.626	.010 - .020	1.465	1.190	.025 - .040
1.417	.413	.060 - .080	1.425	1.251	.060 - .075	**1.436**	**.940**	**.005 - .010**	**1.440**	**.332**	**.005 - .010**	**1.450**	**.630**	**.005 - .010**	1.465	1.262	.060 - .080
1.417	.474	.010 - .020	**1.426**	**1.055**	**.005 - .010**	1.436	1.001	.050 - .075	1.440	.375	.090 - .120	1.450	.650	.050 - .062	1.465	1.306	.035 - .050
1.417	.511	.105 - .125	**1.426**	**1.100**	**.005 - .010**	1.436	1.134	.030 - .050	**1.440**	**.392**	**.005 - .010**	1.450	.760	.030 - .060	1.465	1.325	.015 - .030
1.417	.519	.080 - .104	**1.426**	**1.110**	**.005 - .010**	1.436	1.154	.015 - .025	**1.440**	**.395**	**.005 - .010**	1.450	.830	.020 - .040	1.466	.379	.030 - .050
1.417	.548	.050 - .070	1.426	1.188	.025 - .040	1.436	1.195	.032 - .050	1.440	.438	.040 - .060	1.450	.952	.040 - .060	**1.466**	**1.064**	**.005 - .010**
1.417	.580	.075 - .090	**1.426**	**1.261**	**.005 - .020**	**1.436**	**1.198**	**.005 - .010**	**1.440**	**.504**	**.005 - .020**	1.450	1.019	.105 - .135	1.466	1.072	.030 - .050
1.417	**.632**	**.005 - .010**	**1.426**	**1.291**	**.005 - .015**	1.436	1.250	.040 - .060	**1.440**	**.610**	**.005 - .010**	1.450	1.031	.083 - .120	1.466	1.155	.020 - .040
1.417	.825	.050 - .070	1.427	.250	.050 - .075	1.436	1.265	.020 - .030	**1.440**	**.762**	**.005 - .010**	1.450	1.085	.050 - .075	1.466	1.268	.030 - .050
1.417	.912	.135 - .187	1.427	1.141	.060 - .070	**1.436**	**1.320**	**.005 - .010**	1.440	.891	.015 - .025	**1.450**	**1.100**	**.005 - .010**	1.467	.841	.015 - .030
1.417	.983	.060 - .080	1.427	1.218	.020 - .040	1.437	.186	.010 - .020	1.440	1.015	.020 - .040	**1.450**	**1.140**	**.005 - .010**	1.467	.939	.075 - .090
1.417	.997	.050 - .070	1.427	1.253	.075 - .093	1.437	.206	.025 - .125	1.440	1.070	.020 - .030	1.450	1.225	.030 - .040	1.467	1.038	.030 - .050
1.417	1.006	.030 - .040	1.427	1.257	.025 - .040	1.437	.297	.070 - .090	**1.440**	**1.083**	**.005 - .010**	1.450	1.265	.010 - .020	1.467	1.126	.075 - .100
1.417	1.031	.050 - .060	1.428	1.014	.060 - .080	**1.437**	**.376**	**.005 - .025**	1.440	1.120	.050 - .075	1.450	1.379	.010 - .020	1.468	.310	.010 - .020
1.417	1.070	.020 - .040	1.428	1.066	.015 - .032	1.437	.378	.015 - .035	**1.440**	**1.137**	**.005 - .010**	**1.451**	**.503**	**.005 - .010**	1.468	.384	.080 - .105
1.417	1.182	.050 - .070	**1.428**	**1.249**	**.005 - .010**	**1.437**	**.383**	**.005 - .060**	1.441	.720	.050 - .083	1.451	1.016	.050 - .070	1.468	.391	.050 - .070
1.418	.204	.040 - .060	**1.429**	**.418**	**.005 - .010**	1.437	.397	.020 - .040	1.441	1.140	.050 - .075	**1.451**	**1.140**	**.005 - .015**	1.468	.440	.010 - .020
1.418	.322	.010 - .020	1.429	.783	.010 - .020	**1.437**	**.410**	**.005 - .010**	1.441	1.142	.050 - .075	1.451	1.196	.010 - .020	1.468	.640	.050 - .075
1.418	.375	.070 - .090	1.429	1.100	.020 - .030	1.437	.420	.080 - .104	**1.441**	**1.258**	**.005 - .010**	1.451	1.271	.036 - .060	**1.468**	**.820**	**.005 - .010**
1.418	**.473**	**.005 - .010**	1.429	1.126	.020 - .040	1.437	.493	.156 - .187	1.442	.411	.062 - .080	1.452	.266	.020 - .040	**1.468**	**.988**	**.005 - .010**
1.418	.474	.010 - .020	1.429	1.194	.040 - .060	1.437	.500	.032 - .048	**1.442**	**.541**	**.005 - .010**	1.452	.441	.010 - .020	1.468	1.235	.010 - .020
1.418	**.477**	**.005 - .010**	1.430	.192	.030 - .050	1.437	.504	.062 - .080	1.442	.881	.080 - .105	**1.453**	**.104**	**.005 - .010**	1.468	1.310	.020 - .032
1.418	.478	.100 - .120	1.430	.376	.015 - .030	**1.437**	**.552**	**.005 - .015**	1.442	1.002	.006 - .012	1.453	.760	.030 - .050	1.469	.665	.100 - .120
1.418	.807	.080 - .104	**1.430**	**.519**	**.005 - .010**	1.437	.639	.015 - .025	1.442	1.130	.030 - .040	1.454	.568	.080 - .100	1.469	.750	.080 - .090
1.418	.945	.030 - .050	1.430	.640	.100 - .125	1.437	.680	.100 - .125	1.443	.626	.015 - .030	1.454	.756	.020 - .030	**1.469**	**.808**	**.005 - .010**
1.418	.983	.120 - .135	**1.430**	**.698**	**.005 - .010**	1.437	.761	.105 - .125	1.443	.880	.070 - .090	1.454	1.014	.015 - .030	**1.470**	**.171**	**.005 - .010**
1.418	1.181	.100 - .125	1.430	.716	.010 - .020	1.437	.764	.020 - .030	1.443	.948	.040 - .060	**1.454**	**1.102**	**.005 - .010**	1.470	.203	.010 - .020
1.418	1.188	.070 - .090	1.430	.749	.010 - .020	1.437	.765	.050 - .075	1.443	1.179	.040 - .050	1.454	1.282	.050 - .070	1.470	.610	.100 - .125
1.419	.407	.156 - .187	1.430	.755	.015 - .030	1.437	.766	.015 - .025	**1.444**	**.136**	**.005 - .010**	1.455	.475	.125 - .135	**1.470**	**.752**	**.005 - .010**
1.419	.435	.160 - .180	1.430	.827	.010 - .020	1.437	.792	.100 - .125	1.444	1.006	.030 - .050	1.455	.637	.040 - .050	1.470	.782	.100 - .125
1.419	.677	.080 - .100	1.430	1.063	.060 - .070	1.437	.795	.020 - .040	**1.444**	**1.055**	**.005 - .010**	1.455	.638	.085 - .100	1.470	.820	.010 - .020
1.419	**.797**	**.005 - .010**	**1.430**	**1.065**	**.005 - .010**	1.437	.850	.075 - .090	1.445	.132	.040 - .062	**1.455**	**.754**	**.005 - .010**	1.470	.833	.100 - .156
1.419	**.800**	**.005 - .010**	1.430	1.128	.050 - .075	1.437	.873	.156 - .190	1.445	.312	.010 - .020	1.455	1.000	.015 - .030	1.470	1.062	.048 - .075
1.419	**1.003**	**.005 - .010**	1.430	1.129	.050 - .070	1.437	.879	.070 - .090	1.445	.322	.060 - .090	1.455	1.065	.040 - .060	1.470	1.094	.015 - .030
1.419	1.070	.090 - .125	1.430	1.148	.075 - .090	1.437	.886	.050 - .075	1.445	.350	.032 - .060	1.455	1.101	.040 - .050	1.470	1.111	.040 - .050
1.420	.285	.110 - .135	**1.430**	**1.186**	**.005 - .010**	1.437	.895	.040 - .060	1.445	.690	.090 - .120	1.456	.315	.020 - .030	1.470	1.150	.025 - .042
1.420	.380	.030 - .050	**1.431**	**.716**	**.005 - .010**	1.437	.950	.050 - .070	1.445	.934	.050 - .060	1.456	.826	.105 - .135	1.470	1.226	.040 - .060
1.420	.507	.012 - .020	1.431	1.129	.010 - .020	1.437	1.000	.030 - .040	1.445	1.044	.045 - .060	1.456	1.066	.030 - .050	**1.470**	**1.375**	**.005 - .010**
1.420	.611	.075 - .090	1.431	1.253	.060 - .080	1.437	1.001	.156 - .187	**1.446**	**.179**	**.005 - .010**	1.456	1.082	.015 - .030	1.471	.688	.062 - .080
1.420	**.679**	**.005 - .010**	1.432	.936	.090 - .105	1.437	1.008	.075 - .104	1.446	.240	.090 - .120	**1.457**	**.505**	**.005 - .020**	1.471	.758	.090 - .120
1.420	.690	.050 - .070	1.432	.995	.100 - .125	1.437	1.031	.050 - .070	1.446	.253	.105 - .135	1.457	.675	.050 - .070	1.471	.759	.100 - .125
1.420	.752	.080 - .100	1.432	1.045	.030 - .050	1.437	1.093	.035 - .048	1.446	.254	.100 - .125	**1.457**	**1.022**	**.005 - .010**	1.471	.810	.050 - .070
1.420	.853	.050 - .060	1.432	1.094	.050 - .060	1.437	1.103	.080 - .100	1.446	.315	.100 - .125	1.457	1.200	.015 - .025	1.471	.821	.057 - .088
1.420	**1.004**	**.005 - .010**	1.432	1.139	.040 - .060	**1.437**	**1.123**	**.005 - .030**	1.446	.318	.105 - .125	1.457	1.295	.020 - .030	1.471	.877	.100 - .125
1.420	1.005	.010 - .020	1.432	1.160	.050 - .062	1.437	1.132	.030 - .050	**1.446**	**1.062**	**.005 - .015**	1.458	.670	.100 - .120	1.471	.938	.105 - .125
1.420	**1.100**	**.005 - .010**	**1.433**	**.316**	**.005 - .010**	**1.437**	**1.172**	**.005 - .010**	1.447	.406	.100 - .125	1.458	.873	.030 - .050	**1.471**	**1.331**	**.005 - .040**
1.420	1.137	.050 - .070	1.433	.510	.008 - .030	1.437	1.185	.015 - .070	**1.447**	**.596**	**.005 - .010**	**1.458**	**.984**	**.005 - .010**	1.472	.438	.015 - .030
1.420	1.199	.080 - .100	**1.433**	**.563**	**.005 - .010**	1.437	1.201	.060 - .080	1.447	.837	.100 - .125	1.458	1.124	.042 - .062	**1.472**	**.501**	**.005 - .010**
1.420	1.270	.010 - .020	1.433	.760	.040 - .060	**1.437**	**1.250**	**.005 - .010**	1.447	1.064	.080 - .100	1.459	.239	.015 - .030	1.472	.762	.010 - .020
1.420	1.271	.032 - .050	1.433	1.050	.040 - .060	1.437	1.281	.025 - .040	1.447	1.136	.105 - .125	**1.459**	**.630**	**.005 - .010**	1.472	.765	.080 - .100
1.420	1.280	.030 - .050	1.433	1.095	.020 - .030	1.438	.258	.105 - .125	1.447	1.203	.032 - .060	1.459	.841	.040 - .050	1.472	.829	.010 - .020
1.421	.495	.080 - .100	1.433	1.350	.010 - .020	1.438	.281	.120 - .135	1.448	.125	.030 - .050	1.459	.951	.030 - .050	1.472	1.001	.070 - .090
1.421	.518	.090 - .120	**1.434**	**.361**	**.005 - .010**	1.438	.345	.040 - .060	1.448	.390	.040 - .050	1.459	1.189	.015 - .030	1.472	1.230	.090 - .125
1.421	1.186	.100 - .120	1.434	.751	.100 - .125	1.438	.377	.010 - .030	1.448	.441	.010 - .020	1.460	.180	.035 - .050	1.473	.130	.042 - .062
1.421	1.190	.010 - .020	1.434	.873	.120 - .135	**1.438**	**.562**	**.005 - .010**	1.448	.575	.050 - .070	1.460	.500	.025 - .040	1.473	.609	.010 - .030
1.422	**.408**	**.005 - .020**	1.434	.936	.090 - .120	1.438	.669	.020 - .030	**1.448**	**.630**	**.005 - .010**	1.460	.569	.050 - .070	1.474	.318	.010 - .020
1.422	.697	.065 - .080	1.434	1.125	.015 - .030	1.438	.682	.060 - .080	1.448	1.031	.075 - .090	1.460	.667	.050 - .070	1.474	1.010	.040 - .060
1.422	.880	.060 - .090	1.434	1.315	.010 - .020	1.438	.751	.100 - .125	1.448	1.052	.030 - .050	1.460	.761	.010 - .020	**1.474**	**1.180**	**.005 - .010**
1.422	.945	.090 - .105	1.435	.207	.100 - .125	**1.438**	**.765**	**.005 - .010**	1.448	1.053	.040 - .060	1.460	.950	.040 - .060	**1.474**	**1.357**	**.005 - .010**
1.422	1.058	.042 - .060	**1.435**	**.270**	**.005 - .010**	1.438	.811	.125 - .156	**1.448**	**1.057**	**.005 - .010**	1.460	1.189	.035 - .050	1.474	1.358	.015 - .025
1.423	.157	.080 - .104	1.435	.316	.015 - .030	1.438	.881	.080 - .100	1.448	1.126	.090 - .105	1.460	1.394	.020 - .025	1.475	.500	.110 - .130
1.423	.864	.020 - .040	**1.435**	**.377**	**.005 - .010**	1.438	.938	.040 - .060	1.448	1.190	.080 - .100	1.461	.180	.070 - .080	1.475	.504	.006 - .015
1.423	.880	.010 - .020	1.435	.379	.020 - .040	**1.438**	**.998**	**.005 - .010**	1.448	1.193	.050 - .070	1.461	.875	.030 - .050	1.475	.526	.080 - .100

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

For a size NOT listed, send specs or phone for quote — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To
1.475	**.620**	**.005 - .010**
1.475	**.626**	**.005 - .020**
1.475	**.751**	**.005 - .010**
1.475	.828	.062 - .090
1.475	1.169	.040 - .060
1.475	1.360	.010 - .020
1.476	**.255**	**.005 - .010**
1.476	**.500**	**.005 - .030**
1.476	1.359	.010 - .020
1.477	.617	.010 - .020
1.477	1.201	.010 - .040
1.478	1.099	.080 - .100
1.478	1.310	.025 - .042
1.479	.600	.020 - .030
1.479	1.133	.015 - .030
1.479	**1.361**	**.005 - .020**
1.480	.221	.062 - .080
1.480	.511	.105 - .125
1.480	.632	.100 - .125
1.480	.640	.156 - .188
1.480	**.677**	**.005 - .010**
1.480	.702	.015 - .060
1.480	.707	.090 - .105
1.480	.784	.075 - .090
1.480	.824	.105 - .135
1.480	.984	.070 - .090
1.480	1.049	.120 - .156
1.480	1.120	.010 - .020
1.480	1.154	.030 - .060
1.480	**1.232**	**.005 - .010**
1.480	1.269	.080 - .105
1.481	.269	.042 - .062
1.481	.622	.010 - .020
1.481	**.936**	**.005 - .010**
1.481	1.108	.025 - .042
1.482	.250	.015 - .030
1.482	.632	.135 - .156
1.482	.774	.120 - .135
1.482	.882	.020 - .040
1.482	.884	.020 - .040
1.482	1.222	.050 - .070
1.483	.755	.105 - .125
1.484	.132	.015 - .030
1.484	.252	.156 - .187
1.484	.882	.040 - .060
1.484	.889	.050 - .070
1.484	**1.070**	**.005 - .010**
1.484	1.130	.020 - .030
1.484	1.250	.105 - .125
1.484	1.382	.020 - .030
1.485	.472	.080 - .104
1.485	.520	.060 - .080
1.485	.550	.100 - .125
1.485	**.646**	**.005 - .010**
1.485	.650	.100 - .125
1.485	.660	.105 - .120
1.485	.674	.050 - .070
1.485	**.794**	**.005 - .010**
1.485	**.846**	**.005 - .020**
1.485	.901	.134 - .156
1.485	.919	.030 - .040
1.485	.970	.032 - .042
1.485	1.108	.050 - .070
1.485	1.223	.015 - .030
1.485	**1.250**	**.005 - .012**
1.485	1.357	.015 - .025
1.486	.650	.100 - .125
1.486	**.803**	**.005 - .010**
1.486	.830	.040 - .062
1.486	**.893**	**.005 - .010**
1.486	**.906**	**.005 - .010**
1.486	1.090	.050 - .075
1.486	1.229	.070 - .090
1.486	**1.330**	**.005 - .015**
1.486	1.380	.015 - .030
1.487	.949	.080 - .104
1.487	**1.128**	**.005 - .010**
1.487	1.233	.015 - .030
1.487	1.368	.020 - .030
1.488	.390	.020 - .030

O.D.	I.D.	Choose Any Thickness* From To
1.488	.550	.100 - .125
1.488	.804	.050 - .070
1.488	**.880**	**.005 - .010**
1.488	**1.043**	**.005 - .010**
1.488	1.217	.010 - .020
1.488	1.313	.030 - .042
1.488	1.330	.030 - .042
1.488	**1.350**	**.005 - .010**
1.489	.383	.070 - .090
1.489	1.004	.050 - .070
1.489	1.165	.015 - .030
1.489	1.260	.050 - .075
1.490	.170	.025 - .042
1.490	.171	.030 - .050
1.490	.243	.080 - .100
1.490	.325	.156 - .187
1.490	.511	.105 - .125
1.490	.688	.080 - .100
1.490	.760	.020 - .030
1.490	.764	.030 - .050
1.490	.820	.040 - .060
1.490	.875	.100 - .125
1.490	**1.004**	**.005 - .010**
1.490	1.063	.080 - .100
1.490	**1.125**	**.005 - .010**
1.490	1.130	.010 - .025
1.490	1.140	.025 - .050
1.490	**1.190**	**.005 - .010**
1.490	1.193	.010 - .020
1.490	1.242	.090 - .125
1.490	1.272	.060 - .080
1.490	**1.295**	**.005 - .010**
1.490	**1.360**	**.005 - .025**
1.490	1.361	.040 - .060
1.491	**.063**	**.005 - .010**
1.491	.875	.100 - .125
1.491	.994	.105 - .120
1.491	**1.001**	**.005 - .010**
1.491	1.063	.080 - .100
1.491	1.210	.010 - .020
1.491	**1.312**	**.005 - .010**
1.492	**.394**	**.005 - .010**
1.492	.803	.016 - .025
1.492	.886	.020 - .032
1.492	1.011	.020 - .040
1.492	1.062	.100 - .125
1.492	**1.118**	**.005 - .010**
1.492	1.130	.015 - .030
1.493	.433	.105 - .125
1.493	.748	.015 - .030
1.493	.758	.032 - .060
1.493	.776	.020 - .030
1.493	**.810**	**.005 - .010**
1.493	1.008	.050 - .070
1.493	1.062	.030 - .050
1.493	1.136	.010 - .025
1.493	1.191	.030 - .050
1.493	**1.229**	**.005 - .010**
1.493	**1.242**	**.005 - .010**
1.493	1.259	.010 - .020
1.493	1.273	.060 - .070
1.493	**1.299**	**.005 - .010**
1.493	**1.314**	**.005 - .010**
1.494	.271	.015 - .030
1.494	**.330**	**.005 - .020**
1.494	**.474**	**.005 - .010**
1.494	**.477**	**.005 - .010**
1.494	**.637**	**.005 - .010**
1.494	.650	.007 - .020
1.494	.760	.060 - .080
1.494	.857	.080 - .104
1.494	.937	.030 - .050
1.494	1.024	.030 - .050
1.494	1.057	.080 - .104
1.494	1.060	.064 - .078
1.494	1.075	.050 - .060
1.494	1.092	.040 - .060
1.494	1.175	.015 - .025
1.494	1.201	.035 - .050
1.494	**1.265**	**.005 - .010**

O.D.	I.D.	Choose Any Thickness* From To
1.494	1.270	.010 - .015
1.494	**1.305**	**.005 - .010**
1.494	1.338	.010 - .020
1.494	1.342	.008 - .015
1.494	1.414	.015 - .025
1.494	1.425	.025 - .040
1.495	**.263**	**.005 - .010**
1.495	.294	.020 - .032
1.495	.295	.100 - .125
1.495	.354	.105 - .135
1.495	.375	.030 - .050
1.495	.459	.156 - .187
1.495	.500	.105 - .125
1.495	.510	.070 - .090
1.495	.545	.010 - .020
1.495	.629	.040 - .050
1.495	1.010	.015 - .030
1.495	1.028	.060 - .080
1.495	**1.058**	**.005 - .010**
1.495	**1.086**	**.005 - .010**
1.495	**1.120**	**.005 - .010**
1.495	1.182	.060 - .080
1.495	1.185	.020 - .030
1.495	1.201	.010 - .025
1.495	1.255	.010 - .020
1.495	1.257	.060 - .080
1.495	**1.260**	**.005 - .010**
1.495	**1.275**	**.005 - .010**
1.495	**1.339**	**.005 - .010**
1.495	**1.354**	**.005 - .010**
1.495	1.400	.020 - .040
1.496	.250	.030 - .050
1.496	.256	.005 - .010
1.496	.296	.010 - .020
1.496	.438	.040 - .060
1.496	**.473**	**.005 - .020**
1.496	**.474**	**.005 - .010**
1.496	.512	.170 - .190
1.496	.620	.015 - .050
1.496	.625	.050 - .080
1.496	**.630**	**.005 - .075**
1.496	.720	.010 - .020
1.496	**.762**	**.005 - .010**
1.496	.767	.010 - .020
1.496	.783	.100 - .125
1.496	**.900**	**.005 - .010**
1.496	**.946**	**.005 - .010**
1.496	.994	.010 - .020
1.496	1.003	.040 - .060
1.496	**1.007**	**.005 - .010**
1.496	1.014	.060 - .080
1.496	1.017	.050 - .075
1.496	**1.060**	**.005 - .010**
1.496	**1.066**	**.005 - .010**
1.496	1.114	.010 - .020
1.496	**1.162**	**.005 - .010**
1.496	**1.189**	**.005 - .010**
1.496	1.221	.040 - .060
1.496	1.245	.020 - .040
1.496	1.253	.050 - .070
1.496	1.255	.040 - .060
1.496	**1.260**	**.005 - .075**
1.496	**1.270**	**.005 - .010**
1.496	1.311	.010 - .020
1.497	.145	.020 - .040
1.497	.195	.025 - .042
1.497	.375	.050 - .083
1.497	.377	.105 - .125
1.497	.379	.042 - .062
1.497	.386	.062 - .080
1.497	.421	.156 - .187
1.497	**.477**	**.005 - .010**
1.497	.515	.100 - .125
1.497	.559	.100 - .125
1.497	.612	.020 - .030
1.497	.620	.010 - .060
1.497	.632	.010 - .020
1.497	.655	.075 - .100
1.497	.723	.060 - .083
1.497	.753	.025 - .040

O.D.	I.D.	Choose Any Thickness* From To
1.497	.755	.025 - .042
1.497	.757	.010 - .030
1.497	**.763**	**.005 - .015**
1.497	.772	.030 - .048
1.497	**.810**	**.005 - .010**
1.497	**.891**	**.005 - .010**
1.497	.906	.100 - .120
1.497	1.060	.100 - .125
1.497	1.119	.040 - .060
1.497	1.126	.135 - .156
1.497	**1.137**	**.005 - .010**
1.497	1.150	.090 - .110
1.497	1.154	.025 - .040
1.497	1.242	.030 - .050
1.497	**1.252**	**.005 - .012**
1.497	1.267	.040 - .062
1.497	**1.283**	**.005 - .010**
1.497	1.352	.010 - .020
1.498	.128	.015 - .030
1.498	.142	.040 - .060
1.498	.176	.010 - .015
1.498	.252	.100 - .125
1.498	.253	.042 - .062
1.498	.266	.100 - .125
1.498	.313	.040 - .060
1.498	**.360**	**.005 - .010**
1.498	**.379**	**.005 - .010**
1.498	.380	.120 - .135
1.498	.390	.105 - .130
1.498	.400	.170 - .190
1.498	.406	.050 - .125
1.498	**.412**	**.005 - .010**
1.498	**.500**	**.005 - .015**
1.498	**.502**	**.005 - .010**
1.498	.521	.015 - .025
1.498	**.607**	**.005 - .010**
1.498	.625	.040 - .060
1.498	.687	.030 - .125
1.498	.688	.105 - .125
1.498	.690	.100 - .125
1.498	.754	.020 - .030
1.498	.757	.040 - .060
1.498	**.771**	**.005 - .048**
1.498	**.819**	**.005 - .010**
1.498	**.825**	**.005 - .010**
1.498	.844	.100 - .125
1.498	**.867**	**.005 - .010**
1.498	.902	.025 - .040
1.498	.979	.050 - .070
1.498	.997	.030 - .050
1.498	1.000	.060 - .080
1.498	1.014	.100 - .125
1.498	**1.015**	**.005 - .015**
1.498	**1.021**	**.005 - .010**
1.498	1.032	.020 - .040
1.498	**1.033**	**.005 - .010**
1.498	1.040	.105 - .135
1.498	**1.065**	**.005 - .012**
1.498	1.066	.030 - .050
1.498	1.071	.015 - .030
1.498	1.072	.110 - .130
1.498	1.098	.030 - .060
1.498	1.125	.090 - .120
1.498	1.130	.100 - .120
1.498	1.169	.025 - .040
1.498	1.178	.010 - .020
1.498	1.268	.040 - .060
1.498	1.305	.030 - .050
1.498	1.321	.030 - .048
1.498	**1.378**	**.005 - .010**
1.498	1.396	.015 - .025
1.499	.098	.050 - .075
1.499	.127	.080 - .090
1.499	**.167**	**.005 - .010**
1.499	.187	.020 - .040
1.499	.197	.125 - .156
1.499	**.213**	**.005 - .010**
1.499	.268	.070 - .090
1.499	.281	.100 - .125
1.499	.303	.040 - .060

O.D.	I.D.	Choose Any Thickness* From To
1.499	.314	.010 - .020
1.499	.374	.030 - .050
1.499	.385	.135 - .156
1.499	.391	.156 - .190
1.499	**.399**	**.005 - .010**
1.499	**.420**	**.005 - .010**
1.499	**.474**	**.005 - .010**
1.499	.485	.050 - .075
1.499	**.503**	**.005 - .020**
1.499	**.504**	**.005 - .020**
1.499	**.533**	**.005 - .010**
1.499	**.561**	**.005 - .010**
1.499	.562	.015 - .025
1.499	.563	.010 - .020
1.499	.574	.050 - .060
1.499	.599	.030 - .050
1.499	**.626**	**.005 - .010**
1.499	**.643**	**.005 - .010**
1.499	.676	.030 - .060
1.499	.710	.030 - .050
1.499	.750	.070 - .090
1.499	.759	.060 - .080
1.499	.760	.060 - .080
1.499	.763	.040 - .060
1.499	**.765**	**.005 - .125**
1.499	.768	.010 - .020
1.499	.813	.090 - .105
1.499	.835	.030 - .050
1.499	**.876**	**.005 - .010**
1.499	.880	.040 - .060
1.499	.881	.040 - .060
1.499	.967	.105 - .125
1.499	**.995**	**.005 - .010**
1.499	**1.003**	**.005 - .012**
1.499	1.011	.110 - .130
1.499	1.046	.050 - .075
1.499	1.047	.040 - .060
1.499	1.052	.050 - .070
1.499	1.059	.070 - .090
1.499	1.098	.030 - .050
1.499	1.117	.040 - .060
1.499	1.123	.080 - .100
1.499	1.135	.040 - .060
1.499	**1.142**	**.005 - .012**
1.499	1.150	.040 - .060
1.499	**1.202**	**.005 - .015**
1.499	1.250	.050 - .075
1.499	1.256	.030 - .040
1.500		
1.500	.084	.020 - .035
1.500	.126	.040 - .060
1.500	.130	.020 - .032
1.500	.135	.090 - .104
1.500	.150	.040 - .062
1.500	.156	.030 - .125
1.500	.157	.030 - .050
1.500	.161	.100 - .125
1.500	.163	.010 - .040
1.500	.185	.050 - .083
1.500	**.188**	**.005 - .010**
1.500	.194	.025 - .042
1.500	.195	.048 - .075
1.500	.200	.010 - .030
1.500	.209	.105 - .125
1.500	.219	.050 - .070
1.500	.245	.032 - .060
1.500	.250	.010 - .020
1.500	.259	.060 - .083
1.500	.265	.100 - .125
1.500	.266	.015 - .025
1.500	**.267**	**.005 - .010**
1.500	.269	.030 - .048
1.500	.275	.080 - .090
1.500	.280	.040 - .060

O.D.	I.D.	Choose Any Thickness* From To
1.500	.281	.156 - .187
1.500	.282	.008 - .015
1.500	**.283**	**.005 - .010**
1.500	**.303**	**.005 - .010**
1.500	.311	.104 - .134
1.500	.312	.160 - .190
1.500	.313	.062 - .080
1.500	.315	.008 - .110
1.500	.325	.048 - .075
1.500	**.327**	**.005 - .010**
1.500	.330	.120 - .135
1.500	**.340**	**.005 - .010**
1.500	.345	.050 - .070
1.500	.346	.105 - .135
1.500	**.349**	**.005 - .010**
1.500	**.364**	**.005 - .010**
1.500	.372	.040 - .060
1.500	.375	.060 - .187
1.500	.376	.015 - .025
1.500	**.377**	**.005 - .010**
1.500	.379	.030 - .050
1.500	.384	.010 - .025
1.500	**.385**	**.005 - .010**
1.500	.391	.050 - .070
1.500	.392	.010 - .020
1.500	.395	.050 - .083
1.500	.397	.030 - .050
1.500	**.398**	**.005 - .015**
1.500	**.406**	**.005 - .125**
1.500	.406	.126 - .187
1.500	.411	.020 - .030
1.500	.413	.075 - .090
1.500	.437	.040 - .125
1.500	**.440**	**.005 - .080**
1.500	.441	.010 - .020
1.500	**.442**	**.005 - .010**
1.500	.443	.020 - .032
1.500	.450	.100 - .125
1.500	**.451**	**.005 - .010**
1.500	.453	.170 - .190
1.500	.454	.100 - .125
1.500	.479	.156 - .187
1.500	.497	.105 - .125
1.500	.498	.070 - .090
1.500	**.500**	**.005 - .060**
1.500	**.505**	**.005 - .050**
1.500	**.506**	**.005 - .125**
1.500	.512	.060 - .156
1.500	.513	.100 - .125
1.500	.515	.100 - .125
1.500	.519	.080 - .104
1.500	.521	.105 - .125
1.500	.530	.015 - .125
1.500	.536	.006 - .134
1.500	.537	.030 - .048
1.500	.550	.090 - .125
1.500	**.560**	**.005 - .015**
1.500	.562	.050 - .190
1.500	.563	.015 - .030
1.500	.564	.100 - .120
1.500	.571	.025 - .040
1.500	.577	.010 - .015
1.500	.579	.110 - .130
1.500	.605	.050 - .070
1.500	.625	.030 - .050
1.500	.626	.010 - .125
1.500	**.634**	**.005 - .010**
1.500	.636	.060 - .180
1.500	.638	.020 - .040
1.500	.640	.110 - .130
1.500	**.655**	**.005 - .020**
1.500	.656	.075 - .130
1.500	.660	.040 - .060
1.500	**.665**	**.005 - .010**
1.500	.687	.030 - .050
1.500	.688	.050 - .070
1.500	.690	.120 - .135
1.500	**.694**	**.005 - .010**
1.500	.700	.070 - .090
1.500	.701	.050 - .070

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

Call BOKER'S for precision stamping, assembly, and secondary operations.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
1.500	**.703**	**.005 - .010**	1.500	1.129	.060 - .083	1.502	.752	.105 - .125	1.520	.838	.060 - .080	1.534	1.046	.015 - .030	1.550	.368	.020 - .035
1.500	**.713**	**.005 - .010**	1.500	1.136	.105 - .125	1.502	.877	.080 - .100	1.520	.850	.080 - .090	1.534	1.097	.020 - .040	**1.550**	**.438**	**.005 - .030**
1.500	**.715**	**.005 - .020**	1.500	1.156	.015 - .030	**1.502**	**.885**	**.005 - .010**	1.520	.890	.050 - .070	1.534	1.397	.020 - .035	**1.550**	**.440**	**.005 - .010**
1.500	.725	.070 - .090	1.500	1.157	.025 - .042	1.502	.891	.025 - .040	1.520	.891	.040 - .060	1.535	.322	.050 - .075	1.550	.500	.050 - .070
1.500	.749	.010 - .025	1.500	1.171	.070 - .090	1.502	.960	.060 - .080	**1.520**	**1.015**	**.005 - .010**	1.535	.330	.156 - .187	**1.550**	**.502**	**.005 - .010**
1.500	.753	.010 - .125	1.500	1.175	.030 - .050	1.502	1.015	.020 - .030	1.520	1.264	.020 - .050	1.535	.635	.025 - .040	1.550	.505	.010 - .020
1.500	.754	.040 - .060	1.500	1.178	.020 - .040	1.502	1.067	.100 - .125	**1.520**	**1.420**	**.005 - .010**	1.535	.788	.050 - .070	**1.550**	**.626**	**.005 - .010**
1.500	.758	.105 - .125	1.500	1.180	.060 - .080	1.502	1.110	.025 - .040	1.521	.326	.030 - .050	1.535	.867	.105 - .125	1.550	.626	.010 - .020
1.500	.761	.100 - .125	1.500	1.186	.105 - .135	1.502	1.119	.120 - .135	1.521	.390	.040 - .060	1.535	.904	.100 - .125	1.550	.635	.015 - .035
1.500	.765	.020 - .080	1.500	1.187	.015 - .125	**1.502**	**1.125**	**.005 - .010**	1.521	.889	.050 - .070	1.535	1.064	.080 - .104	**1.550**	**.704**	**.005 - .010**
1.500	.768	.020 - .030	**1.500**	**1.190**	**.005 - .010**	1.502	1.150	.090 - .125	1.521	1.024	.040 - .060	**1.535**	**1.138**	**.005 - .020**	1.550	.750	.020 - .040
1.500	.781	.015 - .110	1.500	1.191	.105 - .125	**1.502**	**1.380**	**.005 - .010**	1.523	.346	.050 - .070	1.535	1.140	.030 - .040	1.550	.752	.105 - .125
1.500	.782	.050 - .075	1.500	1.195	.050 - .070	**1.503**	**.509**	**.005 - .010**	**1.523**	**.503**	**.005 - .010**	**1.535**	**1.290**	**.005 - .010**	**1.550**	**1.221**	**.005 - .010**
1.500	.783	.156 - .187	**1.500**	**1.199**	**.005 - .040**	1.503	.701	.050 - .070	**1.523**	**.507**	**.005 - .020**	1.535	1.300	.060 - .080	1.550	1.235	.050 - .075
1.500	.785	.030 - .040	1.500	1.200	.090 - .105	1.503	.845	.025 - .040	1.523	.584	.050 - .070	1.535	1.344	.012 - .025	**1.550**	**1.250**	**.005 - .010**
1.500	**.786**	**.005 - .010**	1.500	1.202	.031 - .048	**1.503**	**1.008**	**.005 - .010**	1.524	.329	.110 - .130	1.535	1.378	.020 - .035	1.550	1.255	.015 - .025
1.500	.788	.105 - .135	1.500	1.204	.035 - .048	1.503	1.016	.015 - .030	1.524	.432	.100 - .125	1.536	.188	.090 - .120	**1.550**	**1.415**	**.005 - .010**
1.500	**.792**	**.005 - .040**	1.500	1.212	.015 - .030	1.503	1.020	.050 - .075	1.524	.435	.040 - .060	1.536	.501	.010 - .020	1.550	1.416	.015 - .020
1.500	**.804**	**.005 - .012**	**1.500**	**1.215**	**.005 - .010**	1.504	.687	.010 - .020	1.524	.560	.040 - .060	1.536	.576	.015 - .030	**1.550**	**1.439**	**.005 - .010**
1.500	.806	.080 - .104	1.500	1.225	.020 - .030	1.504	.764	.020 - .040	1.524	1.274	.042 - .060	1.536	.651	.015 - .030	1.551	.289	.050 - .070
1.500	.810	.025 - .040	**1.500**	**1.249**	**.005 - .010**	1.504	.784	.042 - .062	1.525	.250	.050 - .070	1.536	.694	.015 - .020	1.551	.438	.010 - .020
1.500	.812	.050 - .100	1.500	1.251	.025 - .040	**1.504**	**.789**	**.005 - .010**	**1.525**	**.265**	**.005 - .010**	**1.536**	**.710**	**.005 - .010**	1.551	.440	.010 - .020
1.500	.813	.050 - .100	1.500	1.252	.105 - .125	1.504	.811	.100 - .125	**1.525**	**.268**	**.005 - .010**	1.536	.712	.030 - .050	1.551	1.026	.060 - .080
1.500	**.817**	**.005 - .125**	1.500	1.264	.020 - .030	1.504	1.036	.120 - .135	**1.525**	**.501**	**.005 - .010**	**1.536**	**.811**	**.005 - .010**	1.551	1.140	.010 - .020
1.500	.817	.126 - .135	**1.500**	**1.265**	**.005 - .010**	1.504	1.230	.062 - .090	1.525	.617	.050 - .060	1.536	1.009	.050 - .070	1.551	1.189	.105 - .125
1.500	.820	.020 - .040	1.500	1.266	.010 - .020	1.504	1.287	.040 - .060	**1.525**	**.657**	**.005 - .010**	1.536	1.024	.135 - .156	1.551	1.278	.060 - .080
1.500	.830	.015 - .135	1.500	1.274	.010 - .020	1.504	1.378	.010 - .020	1.525	.685	.040 - .060	1.537	.407	.075 - .125	**1.552**	**1.460**	**.005 - .010**
1.500	.841	.040 - .050	1.500	1.275	.008 - .018	1.505	.408	.015 - .030	1.525	.800	.010 - .020	1.537	.501	.010 - .020	1.553	.854	.075 - .105
1.500	.853	.080 - .104	1.500	1.277	.090 - .125	1.505	.440	.156 - .187	**1.525**	**1.231**	**.005 - .010**	1.537	1.288	.042 - .062	1.553	.859	.080 - .100
1.500	.871	.010 - .020	1.500	1.282	.008 - .016	1.505	.510	.105 - .125	1.525	1.310	.025 - .040	**1.537**	**1.296**	**.005 - .010**	1.553	1.158	.125 - .156
1.500	.873	.170 - .190	1.500	1.298	.010 - .025	1.505	.845	.025 - .035	1.525	1.316	.070 - .090	1.539	.562	.010 - .020	1.554	.765	.080 - .104
1.500	.874	.020 - .040	1.500	1.300	.050 - .075	1.505	1.003	.015 - .030	1.525	1.335	.040 - .060	1.539	1.206	.015 - .030	1.554	.883	.010 - .015
1.500	.876	.100 - .125	1.500	1.301	.050 - .070	1.505	1.109	.040 - .060	1.526	1.280	.040 - .060	1.539	1.220	.015 - .030	1.554	1.000	.060 - .080
1.500	.877	.100 - .125	1.500	1.316	.010 - .020	1.505	1.310	.015 - .025	1.526	1.310	.025 - .042	1.539	1.359	.030 - .050	1.554	1.193	.060 - .080
1.500	.880	.010 - .020	1.500	1.332	.025 - .040	1.506	1.249	.050 - .075	**1.526**	**1.345**	**.005 - .010**	1.540	.512	.105 - .125	**1.554**	**1.460**	**.005 - .010**
1.500	.882	.110 - .134	1.500	1.358	.050 - .070	**1.507**	**1.324**	**.005 - .010**	1.527	1.418	.020 - .030	**1.540**	**.563**	**.005 - .010**	1.555	.166	.080 - .104
1.500	.883	.040 - .125	1.500	1.376	.015 - .060	1.508	.315	.105 - .125	1.528	.187	.025 - .040	1.540	.910	.015 - .030	1.555	.650	.007 - .012
1.500	.886	.156 - .187	1.500	1.389	.030 - .050	1.508	.910	.080 - .105	1.528	.195	.050 - .100	1.540	1.102	.025 - .040	1.555	1.060	.032 - .060
1.500	.892	.105 - .120	1.501	.125	.075 - .090	1.509	.301	.090 - .120	1.528	.250	.010 - .030	1.540	1.200	.020 - .030	1.555	1.100	.090 - .120
1.500	.893	.062 - .090	1.501	.188	.020 - .040	1.509	.781	.090 - .105	**1.528**	**.728**	**.005 - .010**	1.540	1.290	.050 - .070	1.555	1.112	.080 - .105
1.500	.900	.040 - .060	**1.501**	**.190**	**.005 - .010**	1.510	.510	.060 - .080	1.528	1.009	.050 - .070	1.541	.318	.020 - .030	1.555	1.133	.090 - .105
1.500	.908	.026 - .048	1.501	.200	.100 - .125	1.510	.900	.030 - .050	1.528	1.276	.010 - .020	1.541	1.008	.025 - .070	1.555	1.196	.015 - .030
1.500	.910	.140 - .160	1.501	.280	.060 - .090	**1.510**	**1.236**	**.005 - .010**	1.528	1.285	.020 - .040	1.541	1.250	.050 - .070	1.555	1.250	.060 - .080
1.500	.934	.040 - .060	1.501	.336	.105 - .125	**1.510**	**1.258**	**.005 - .010**	**1.529**	**.466**	**.005 - .010**	1.542	.833	.020 - .030	1.556	.164	.050 - .062
1.500	.935	.030 - .040	1.501	.372	.050 - .070	1.510	1.312	.060 - .070	1.529	.791	.030 - .050	**1.542**	**.998**	**.005 - .010**	1.556	.511	.080 - .105
1.500	.937	.050 - .075	**1.501**	**.382**	**.005 - .012**	1.511	.213	.090 - .100	1.529	.984	.080 - .105	**1.542**	**1.193**	**.005 - .010**	1.556	1.192	.050 - .070
1.500	.938	.093 - .109	1.501	.385	.090 - .125	1.511	.630	.080 - .105	1.529	1.052	.080 - .100	1.543	.431	.075 - .105	1.556	1.260	.015 - .030
1.500	.942	.105 - .134	**1.501**	**.437**	**.005 - .010**	1.511	.792	.090 - .105	1.529	1.117	.100 - .110	1.543	1.200	.020 - .030	1.556	1.262	.020 - .040
1.500	.970	.080 - .100	1.501	.508	.030 - .050	1.511	.823	.170 - .190	1.529	1.259	.020 - .040	1.543	1.255	.050 - .075	1.556	1.405	.010 - .020
1.500	**.975**	**.005 - .010**	**1.501**	**.514**	**.005 - .010**	**1.511**	**1.015**	**.005 - .010**	1.529	1.360	.020 - .040	1.543	1.257	.025 - .040	1.556	1.437	.032 - .050
1.500	.993	.025 - .040	1.501	.626	.010 - .020	1.511	1.112	.050 - .075	1.529	1.416	.020 - .030	1.543	1.261	.030 - .050	**1.557**	**.396**	**.005 - .015**
1.500	.996	.050 - .070	**1.501**	**.715**	**.005 - .010**	1.511	1.113	.040 - .060	**1.529**	**1.453**	**.005 - .010**	1.544	1.169	.030 - .050	1.557	.407	.060 - .080
1.500	**1.001**	**.005 - .015**	1.501	.755	.010 - .020	**1.511**	**1.351**	**.005 - .010**	1.530	.251	.015 - .030	1.544	1.182	.025 - .040	1.557	.770	.110 - .130
1.500	1.002	.040 - .090	1.501	.773	.100 - .125	1.514	.940	.125 - .135	1.530	.282	.060 - .080	**1.544**	**1.191**	**.005 - .010**	1.557	1.002	.075 - .090
1.500	**1.003**	**.005 - .125**	1.501	.817	.100 - .125	1.514	1.126	.062 - .080	1.530	.312	.030 - .050	1.544	1.481	.010 - .020	1.557	1.038	.040 - .060
1.500	1.003	.126 - .156	1.501	.820	.040 - .060	1.515	.583	.120 - .134	**1.530**	**.536**	**.005 - .010**	1.545	.264	.030 - .050	1.557	1.314	.105 - .125
1.500	1.004	.015 - .050	1.501	.840	.010 - .020	1.515	.765	.050 - .070	**1.530**	**.548**	**.005 - .010**	1.545	.437	.020 - .040	1.557	1.355	.025 - .040
1.500	1.005	.010 - .070	1.501	.876	.040 - .060	1.515	.892	.045 - .060	1.530	.832	.020 - .030	**1.545**	**1.060**	**.005 - .010**	**1.557**	**1.358**	**.005 - .010**
1.500	1.009	.040 - .140	1.501	.909	.050 - .070	1.515	1.360	.040 - .060	1.530	1.031	.075 - .090	1.545	1.156	.020 - .030	1.558	.256	.075 - .100
1.500	**1.010**	**.005 - .020**	1.501	1.008	.080 - .100	1.515	1.375	.020 - .040	1.530	1.202	.010 - .030	**1.545**	**1.191**	**.005 - .010**	1.558	.375	.075 - .090
1.500	1.011	.010 - .020	**1.501**	**1.009**	**.005 - .010**	1.515	1.378	.010 - .020	1.530	1.280	.050 - .060	1.545	1.391	.050 - .070	1.558	.378	.060 - .080
1.500	1.015	.040 - .190	**1.501**	**1.010**	**.005 - .010**	1.516	.293	.050 - .075	**1.531**	**.333**	**.005 - .010**	1.545	1.457	.025 - .035	1.558	.410	.090 - .105
1.500	1.018	.100 - .125	1.501	1.121	.020 - .030	1.516	.915	.050 - .070	1.531	.390	.100 - .125	1.546	1.182	.025 - .040	1.558	.749	.020 - .040
1.500	**1.019**	**.005 - .012**	1.501	1.132	.025 - .050	**1.516**	**1.194**	**.005 - .010**	1.531	.516	.060 - .080	1.546	1.184	.025 - .040	1.558	.770	.105 - .125
1.500	**1.020**	**.005 - .125**	1.501	1.133	.060 - .080	**1.516**	**1.199**	**.005 - .010**	**1.531**	**.625**	**.005 - .010**	1.547	1.007	.040 - .064	1.558	1.004	.025 - .040
1.500	1.022	.020 - .040	1.501	1.188	.050 - .070	1.518	.770	.050 - .070	1.531	.689	.060 - .080	1.548	.441	.010 - .020	**1.558**	**1.433**	**.005 - .010**
1.500	1.025	.105 - .125	1.501	1.251	.020 - .030	1.518	1.195	.050 - .070	1.531	.776	.025 - .040	1.548	.951	.090 - .110	**1.559**	**.776**	**.005 - .010**
1.500	1.032	.048 - .134	**1.501**	**1.290**	**.005 - .010**	**1.518**	**1.405**	**.005 - .010**	1.531	.808	.030 - .050	1.548	1.005	.010 - .020	1.559	.875	.110 - .130
1.500	1.036	.008 - .105	1.502	.185	.105 - .135	**1.519**	**.623**	**.005 - .010**	1.531	1.000	.020 - .032	1.548	1.038	.031 - .048	**1.559**	**1.071**	**.005 - .010**
1.500	**1.041**	**.005 - .010**	1.502	.220	.060 - .080	1.519	.689	.060 - .080	1.531	1.015	.025 - .042	1.548	1.100	.040 - .050	1.559	1.288	.010 - .020
1.500	**1.043**	**.005 - .010**	1.502	.345	.080 - .104	1.520	.195	.035 - .050	1.531	1.223	.010 - .020	1.548	1.270	.015 - .030	1.559	1.315	.006 - .040
1.500	1.050	.156 - .187	1.502	.349	.030 - .048	1.520	.328	.015 - .020	1.532	.098	.030 - .050	1.549	.361	.050 - .070	**1.559**	**1.439**	**.005 - .020**
1.500	1.062	.050 - .075	1.502	.375	.060 - .125	1.520	.753	.060 - .080	**1.532**	**.765**	**.005 - .010**	1.549	.503	.015 - .030	1.560	.242	.015 - .030
1.500	1.063	.020 - .040	**1.502**	**.411**	**.005 - .010**	1.520	.760	.100 - .110	1.532	1.047	.015 - .025	**1.549**	**.505**	**.005 - .020**	1.560	.381	.125 - .156
1.500	1.065	.010 - .060	1.502	.441	.030 - .050	1.520	.801	.030 - .050	1.532	1.306	.070 - .090	1.549	.754	.040 - .062	1.560	.391	.080 - .105
1.500	**1.092**	**.005 - .030**	1.502	.444	.120 - .135	1.520	.804	.050 - .070	1.533	1.003	.040 - .060	1.549	1.003	.050 - .070	1.560	.392	.080 - .105
1.500	**1.093**	**.005 - .062**	1.502	.562	.134 - .187	1.520	.808	.040 - .070	1.533	1.379	.050 - .060	1.549	1.005	.040 - .060	1.560	.455	.100 - .125
1.500	**1.115**	**.005 - .010**	**1.502**	**.563**	**.005 - .010**	1.520	.811	.080 - .100	1.534	.325	.080 - .104	**1.549**	**1.007**	**.005 - .010**	1.560	.508	.100 - .125
1.500	1.122	.032 - .048	1.502	.648	.100 - .120	1.520	.816	.060 - .080	**1.534**	**.505**	**.005 - .020**	1.549	1.226	.030 - .050	1.560	.563	.015 - .030
1.500	**1.127**	**.005 - .010**	1.502	.656	.156 - .188	1.520	.821	.040 - .060	1.534	1.026	.105 - .125	1.550	.245	.042 - .075	**1.560**	**.619**	**.005 - .010**

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

New tools added continually. Call for sizes not listed — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
1.560	**.772**	**.005 - .010**	**1.562**	**1.376**	**.005 - .010**	1.570	1.259	.030 - .040	1.577	.771	.030 - .060	1.598	1.000	.080 - .125	1.607	1.332	.010 - .020
1.560	.839	.050 - .070	**1.563**	**.439**	**.005 - .010**	1.571	.379	.080 - .100	1.577	.994	.015 - .030	**1.598**	**1.058**	**.005 - .010**	1.608	.811	.030 - .050
1.560	.845	.025 - .048	**1.563**	**.638**	**.005 - .010**	1.571	.870	.100 - .120	1.577	1.072	.090 - .110	1.598	1.269	.050 - .070	1.608	1.130	.100 - .125
1.560	1.063	.135 - .156	1.563	.690	.032 - .060	1.571	1.018	.100 - .125	1.577	1.341	.070 - .090	**1.599**	**.378**	**.005 - .020**	1.608	1.444	.015 - .030
1.560	**1.100**	**.005 - .010**	**1.563**	**.762**	**.005 - .010**	**1.571**	**1.038**	**.005 - .015**	1.578	.771	.025 - .040	1.599	.489	.090 - .110	1.609	.411	.040 - .060
1.560	**1.140**	**.005 - .010**	1.563	.878	.025 - .040	1.571	1.146	.070 - .090	1.578	1.063	.030 - .050	**1.599**	**.503**	**.005 - .010**	1.609	.594	.040 - .060
1.560	1.207	.010 - .020	1.563	.892	.075 - .100	**1.572**	**.476**	**.005 - .010**	1.578	1.292	.020 - .030	1.599	.504	.010 - .020	1.609	.633	.090 - .120
1.560	1.261	.070 - .080	1.563	.999	.105 - .125	1.572	.569	.050 - .060	1.578	1.298	.010 - .015	**1.599**	**.505**	**.005 - .010**	1.609	.810	.025 - .040
1.560	1.315	.015 - .025	1.563	1.005	.110 - .130	1.572	.625	.050 - .070	**1.579**	**.570**	**.005 - .010**	1.599	.626	.015 - .025	1.609	.845	.012 - .020
1.560	**1.319**	**.005 - .010**	**1.563**	**1.062**	**.005 - .010**	**1.572**	**.754**	**.005 - .010**	1.579	1.232	.010 - .020	**1.599**	**.630**	**.005 - .010**	1.609	1.015	.016 - .025
1.560	1.320	.015 - .025	1.563	1.131	.050 - .070	1.572	.761	.020 - .040	1.579	1.378	.030 - .040	1.599	.689	.060 - .080	1.609	1.260	.050 - .075
1.560	1.331	.050 - .070	1.563	1.347	.040 - .062	1.572	1.254	.030 - .050	1.580	.785	.050 - .060	1.599	1.243	.015 - .035	1.609	1.275	.100 - .125
1.560	**1.353**	**.005 - .010**	1.563	1.402	.020 - .040	1.572	1.255	.025 - .040	1.580	.795	.020 - .040	1.599	1.437	.010 - .020	1.609	1.400	.020 - .032
1.560	1.376	.025 - .040	1.564	.375	.048 - .075	1.572	1.258	.007 - .016	1.580	.850	.050 - .060	1.600	.170	.050 - .062	1.609	1.468	.048 - .062
1.561	.161	.020 - .030	1.564	.501	.025 - .040	**1.572**	**1.452**	**.005 - .010**	1.580	1.081	.010 - .020	1.600	.281	.050 - .075	1.610	1.110	.015 - .030
1.561	.251	.040 - .060	1.564	.511	.020 - .040	1.573	.504	.090 - .135	**1.580**	**1.310**	**.005 - .010**	1.600	.310	.030 - .050	1.610	1.148	.090 - .105
1.561	.259	.083 - .125	1.564	.700	.020 - .030	1.573	.641	.060 - .083	**1.580**	**1.472**	**.005 - .010**	**1.600**	**.377**	**.005 - .015**	1.610	1.200	.020 - .030
1.561	.629	.075 - .105	1.564	.767	.010 - .020	1.573	.648	.010 - .020	**1.581**	**.119**	**.005 - .010**	**1.600**	**.378**	**.005 - .015**	**1.610**	**1.259**	**.005 - .010**
1.561	.766	.100 - .125	1.564	1.135	.050 - .075	1.573	.731	.040 - .062	1.582	.405	.040 - .060	1.600	.415	.075 - .100	1.610	1.275	.100 - .125
1.561	.768	.025 - .040	**1.564**	**1.189**	**.005 - .010**	1.573	.812	.015 - .030	1.582	.450	.010 - .020	1.600	.441	.100 - .125	1.610	1.358	.050 - .070
1.561	**.883**	**.005 - .010**	**1.564**	**1.309**	**.005 - .010**	**1.573**	**1.013**	**.005 - .010**	1.582	.530	.040 - .060	1.600	.478	.090 - .120	1.610	1.404	.070 - .090
1.561	.952	.030 - .050	1.564	1.393	.015 - .030	1.573	1.102	.060 - .080	1.582	.634	.010 - .020	**1.600**	**.502**	**.005 - .010**	1.610	1.422	.020 - .035
1.561	1.039	.030 - .050	**1.564**	**1.434**	**.005 - .010**	1.573	1.221	.030 - .050	1.582	1.250	.083 - .105	1.600	.503	.006 - .012	**1.611**	**1.135**	**.005 - .010**
1.561	1.040	.010 - .015	1.565	.122	.020 - .040	1.573	1.224	.135 - .156	**1.582**	**1.301**	**.005 - .010**	**1.600**	**.504**	**.005 - .020**	1.611	1.410	.010 - .020
1.561	1.158	.040 - .060	1.565	.562	.030 - .048	**1.573**	**1.264**	**.005 - .010**	1.583	1.089	.020 - .040	**1.600**	**.505**	**.005 - .010**	**1.612**	**1.135**	**.005 - .020**
1.561	1.231	.040 - .060	1.565	1.192	.050 - .075	**1.573**	**1.374**	**.005 - .010**	**1.584**	**.834**	**.005 - .010**	1.600	.510	.010 - .020	1.612	1.280	.015 - .035
1.561	1.261	.040 - .060	1.565	1.228	.030 - .050	1.574	.344	.105 - .125	1.584	1.009	.040 - .060	1.600	.625	.020 - .040	1.612	1.316	.030 - .050
1.561	**1.390**	**.005 - .010**	1.565	1.270	.030 - .042	**1.574**	**.410**	**.005 - .010**	1.585	.140	.042 - .060	**1.600**	**.627**	**.005 - .020**	**1.612**	**1.499**	**.005 - .010**
1.561	**1.433**	**.005 - .012**	1.565	1.369	.050 - .075	1.574	.434	.150 - .170	1.585	.375	.070 - .090	1.600	.630	.010 - .020	**1.612**	**1.510**	**.005 - .010**
1.561	**1.439**	**.005 - .010**	1.566	.257	.070 - .090	**1.574**	**.474**	**.005 - .010**	1.585	1.000	.032 - .050	1.600	.634	.105 - .125	1.613	.315	.025 - .040
1.562	.201	.020 - .030	1.566	.502	.105 - .125	1.574	.475	.010 - .020	1.585	1.007	.010 - .030	1.600	.715	.105 - .120	1.613	.778	.020 - .040
1.562	.317	.008 - .016	**1.566**	**.980**	**.005 - .010**	1.574	.502	.010 - .020	**1.585**	**1.120**	**.005 - .015**	**1.600**	**.751**	**.005 - .010**	1.613	1.124	.090 - .100
1.562	.351	.075 - .105	1.566	1.330	.050 - .070	1.574	.631	.010 - .020	1.585	1.209	.025 - .040	1.600	.754	.010 - .020	1.613	1.312	.015 - .030
1.562	.378	.048 - .075	1.566	1.347	.035 - .050	1.574	.984	.035 - .045	1.585	1.256	.025 - .040	1.600	.765	.050 - .060	1.614	.145	.070 - .090
1.562	.406	.105 - .125	1.566	1.416	.040 - .060	1.574	1.071	.090 - .100	1.585	1.260	.015 - .030	**1.600**	**.800**	**.005 - .010**	**1.614**	**.329**	**.005 - .010**
1.562	.408	.015 - .030	1.567	.729	.030 - .048	1.574	1.103	.015 - .030	1.585	1.359	.050 - .062	1.600	.874	.040 - .060	1.614	.694	.020 - .030
1.562	.447	.040 - .060	1.567	.935	.050 - .075	1.574	1.130	.012 - .020	1.586	.141	.060 - .090	1.600	.878	.025 - .040	1.614	.884	.040 - .060
1.562	.562	.032 - .050	1.567	.978	.007 - .015	**1.574**	**1.188**	**.005 - .010**	1.586	1.265	.020 - .030	1.600	.885	.030 - .040	1.614	1.189	.025 - .040
1.562	.563	.156 - .187	1.567	.992	.010 - .020	1.574	1.221	.010 - .020	**1.586**	**1.290**	**.005 - .010**	1.600	.925	.080 - .100	**1.614**	**1.251**	**.005 - .010**
1.562	**.564**	**.005 - .020**	1.567	1.004	.105 - .125	**1.574**	**1.320**	**.005 - .010**	1.587	.469	.010 - .020	**1.600**	**1.000**	**.005 - .010**	1.614	1.280	.020 - .040
1.562	.656	.156 - .187	1.567	1.232	.030 - .050	1.574	1.337	.020 - .030	1.588	.700	.050 - .070	1.600	1.070	.025 - .125	1.614	1.281	.010 - .020
1.562	.746	.075 - .105	1.567	1.248	.062 - .090	1.574	1.373	.062 - .090	**1.588**	**1.006**	**.005 - .010**	1.600	1.101	.020 - .030	1.614	1.381	.010 - .020
1.562	.750	.010 - .100	**1.567**	**1.260**	**.005 - .010**	**1.574**	**1.416**	**.005 - .010**	1.588	1.118	.105 - .120	1.600	1.125	.015 - .025	1.615	.316	.010 - .020
1.562	**.762**	**.005 - .010**	1.567	1.311	.015 - .030	1.575	.355	.100 - .125	1.588	1.248	.020 - .035	1.600	1.128	.010 - .020	1.615	.500	.050 - .070
1.562	.765	.090 - .120	1.567	1.346	.015 - .030	1.575	.393	.120 - .135	1.589	.505	.025 - .040	1.600	1.175	.090 - .125	1.615	.629	.090 - .100
1.562	.781	.083 - .105	1.567	1.380	.040 - .062	**1.575**	**.473**	**.005 - .010**	1.590	.490	.090 - .125	1.600	1.205	.010 - .020	1.615	.877	.050 - .075
1.562	.782	.080 - .104	1.568	.060	.040 - .050	**1.575**	**.477**	**.005 - .010**	1.590	.594	.100 - .125	1.600	1.220	.050 - .070	1.615	1.000	.050 - .075
1.562	.812	.062 - .080	**1.568**	**.675**	**.005 - .010**	1.575	.502	.020 - .030	1.590	1.299	.020 - .035	1.600	1.260	.030 - .050	1.615	1.407	.020 - .040
1.562	.864	.120 - .140	1.568	.692	.060 - .080	**1.575**	**.503**	**.005 - .010**	1.590	1.345	.010 - .060	1.600	1.271	.110 - .130	1.615	1.417	.040 - .060
1.562	.874	.020 - .040	1.568	1.031	.110 - .130	1.575	.504	.100 - .125	1.590	1.362	.060 - .080	1.600	1.300	.050 - .060	**1.615**	**1.450**	**.005 - .010**
1.562	.875	.015 - .030	1.568	1.110	.050 - .070	1.575	.564	.010 - .020	1.592	.407	.048 - .062	1.600	1.310	.050 - .060	1.615	1.456	.010 - .020
1.562	.904	.040 - .050	**1.568**	**1.347**	**.005 - .010**	1.575	.591	.050 - .060	1.592	1.171	.040 - .060	**1.600**	**1.357**	**.005 - .015**	1.616	.752	.075 - .100
1.562	.906	.040 - .050	**1.568**	**1.420**	**.005 - .010**	**1.575**	**.630**	**.005 - .010**	1.592	1.222	.010 - .020	1.600	1.375	.010 - .020	**1.616**	**1.382**	**.005 - .010**
1.562	.925	.030 - .060	1.569	.361	.040 - .060	1.575	.643	.070 - .090	1.593	.515	.010 - .020	1.600	1.435	.010 - .020	1.616	1.390	.100 - .120
1.562	.932	.050 - .075	1.569	.504	.070 - .090	1.575	.709	.015 - .030	1.593	.900	.060 - .080	**1.600**	**1.439**	**.005 - .010**	**1.617**	**.417**	**.005 - .010**
1.562	.937	.100 - .125	**1.569**	**.589**	**.005 - .030**	1.575	.789	.025 - .040	1.593	1.034	.010 - .020	**1.601**	**.631**	**.005 - .010**	1.617	.498	.080 - .120
1.562	.938	.015 - .025	1.569	.756	.105 - .125	**1.575**	**.794**	**.005 - .010**	1.593	1.171	.100 - .125	**1.601**	**1.436**	**.005 - .010**	1.617	.500	.010 - .020
1.562	.939	.030 - .050	1.569	.807	.090 - .105	1.575	.827	.040 - .060	1.593	1.172	.050 - .075	**1.601**	**1.460**	**.005 - .010**	1.617	.626	.048 - .062
1.562	.945	.070 - .090	1.569	.884	.105 - .125	**1.575**	**.879**	**.005 - .010**	1.593	1.194	.062 - .080	1.602	.630	.100 - .125	1.617	.751	.020 - .040
1.562	.996	.062 - .090	1.569	1.030	.025 - .040	1.575	.953	.090 - .100	1.593	1.239	.010 - .020	1.602	.973	.100 - .125	1.617	.805	.040 - .060
1.562	.997	.020 - .030	1.569	1.140	.070 - .090	1.575	.985	.010 - .156	1.593	1.322	.060 - .080	**1.602**	**1.432**	**.005 - .010**	1.617	1.060	.050 - .070
1.562	1.001	.120 - .134	1.569	1.187	.040 - .060	1.575	1.025	.030 - .050	1.594	.657	.030 - .060	**1.602**	**1.492**	**.005 - .010**	1.617	1.258	.025 - .042
1.562	1.002	.120 - .134	1.569	1.285	.010 - .020	1.575	1.063	.040 - .060	1.594	.814	.015 - .025	1.603	.341	.100 - .125	1.617	1.390	.030 - .050
1.562	1.008	.040 - .060	1.569	1.320	.015 - .030	**1.575**	**1.110**	**.005 - .010**	1.594	1.278	.080 - .100	1.603	.800	.075 - .090	1.618	.256	.100 - .125
1.562	1.032	.083 - .105	1.569	1.331	.040 - .060	1.575	1.178	.156 - .187	1.594	1.303	.010 - .020	1.603	1.012	.025 - .040	1.618	.651	.040 - .060
1.562	1.063	.015 - .025	1.570	.168	.008 - .012	1.575	1.200	.040 - .050	**1.594**	**1.416**	**.005 - .015**	1.603	1.500	.020 - .030	1.618	.690	.015 - .030
1.562	1.128	.030 - .048	1.570	.256	.080 - .100	**1.575**	**1.220**	**.005 - .015**	1.594	1.451	.030 - .050	1.604	.674	.115 - .130	1.618	.899	.030 - .050
1.562	1.155	.015 - .032	1.570	.346	.010 - .020	1.575	1.240	.030 - .050	1.594	1.504	.015 - .030	**1.604**	**1.007**	**.005 - .010**	1.618	.963	.110 - .130
1.562	**1.187**	**.005 - .010**	1.570	.526	.080 - .100	**1.575**	**1.338**	**.005 - .010**	1.595	.551	.105 - .125	1.605	.378	.030 - .050	1.618	1.010	.105 - .125
1.562	1.188	.020 - .040	**1.570**	**.720**	**.005 - .010**	1.575	1.389	.070 - .090	1.596	.880	.010 - .020	**1.605**	**.390**	**.005 - .010**	1.618	1.035	.060 - .090
1.562	1.203	.025 - .048	1.570	.813	.030 - .050	**1.575**	**1.474**	**.005 - .010**	1.597	.200	.050 - .070	1.605	1.009	.105 - .125	**1.618**	**1.134**	**.005 - .010**
1.562	**1.313**	**.005 - .010**	**1.570**	**.870**	**.005 - .010**	1.576	.414	.160 - .190	1.597	.755	.010 - .020	1.605	1.134	.010 - .030	1.618	1.180	.060 - .080
1.562	1.320	.060 - .080	1.570	.906	.100 - .125	1.576	.477	.010 - .020	1.597	.881	.090 - .125	1.605	1.348	.030 - .050	1.618	1.382	.020 - .030
1.562	1.323	.105 - .125	1.570	1.003	.035 - .060	**1.576**	**.630**	**.005 - .010**	1.598	.199	.080 - .090	1.606	.465	.105 - .125	1.619	.838	.040 - .060
1.562	1.346	.030 - .050	1.570	1.031	.080 - .105	1.576	.670	.015 - .030	1.598	.320	.080 - .090	1.606	.516	.105 - .125	1.619	.937	.060 - .070
1.562	1.347	.040 - .060	1.570	1.032	.100 - .125	1.576	.826	.125 - .156	**1.598**	**.505**	**.005 - .010**	1.606	1.000	.105 - .125	1.619	1.470	.010 - .020
1.562	1.348	.062 - .075	1.570	1.190	.032 - .042	1.576	1.092	.050 - .070	1.598	.516	.050 - .070	1.607	.562	.125 - .156	1.620	.297	.080 - .105
1.562	**1.354**	**.005 - .010**	1.570	1.191	.125 - .156	1.576	1.245	.025 - .040	1.598	.625	.030 - .050	1.607	.630	.092 - .125	**1.620**	**.408**	**.005 - .010**
1.562	1.374	.025 - .040	1.570	1.220	.050 - .070	**1.576**	**1.474**	**.005 - .010**	1.598	.630	.010 - .020	1.607	1.022	.030 - .060	**1.620**	**.418**	**.005 - .010**
1.562	1.375	.020 - .040	**1.570**	**1.250**	**.005 - .010**	1.577	.632	.040 - .060	**1.598**	**.720**	**.005 - .010**	1.607	1.271	.025 - .040	**1.620**	**.530**	**.005 - .010**

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

For non-metallic materials, contact BOKER'S — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To
1.620	.585	.090 - .120
1.620	.592	.012 - .020
1.620	**.644**	**.005 - .010**
1.620	**.647**	**.005 - .010**
1.620	**.713**	**.005 - .010**
1.620	.759	.040 - .060
1.620	**.884**	**.005 - .010**
1.620	**.909**	**.005 - .010**
1.620	.920	.010 - .020
1.620	.940	.100 - .125
1.620	.963	.120 - .134
1.620	1.120	.110 - .135
1.620	1.140	.070 - .095
1.620	1.144	.050 - .070
1.620	1.190	.060 - .090
1.620	1.261	.015 - .030
1.620	**1.311**	**.005 - .010**
1.620	**1.383**	**.005 - .010**
1.620	1.470	.020 - .030
1.621	.319	.025 - .036
1.621	.758	.050 - .075
1.621	**1.265**	**.005 - .010**
1.621	1.275	.020 - .040
1.621	1.317	.025 - .042
1.621	1.480	.025 - .035
1.622	.341	.075 - .090
1.622	.407	.036 - .048
1.622	.645	.100 - .125
1.622	.767	.120 - .156
1.622	.894	.090 - .120
1.622	.992	.025 - .040
1.622	1.161	.040 - .050
1.622	1.188	.050 - .100
1.622	1.250	.020 - .040
1.622	1.261	.050 - .070
1.622	1.312	.060 - .070
1.622	1.357	.015 - .030
1.622	1.364	.020 - .040
1.623	.255	.080 - .104
1.623	.511	.090 - .105
1.623	.597	.080 - .104
1.623	.625	.010 - .020
1.623	**.775**	**.005 - .010**
1.623	.782	.062 - .080
1.623	**.891**	**.005 - .010**
1.623	1.000	.080 - .100
1.623	1.032	.050 - .070
1.623	1.063	.050 - .080
1.623	1.064	.050 - .075
1.623	1.188	.060 - .090
1.623	1.208	.025 - .040
1.623	1.257	.110 - .125
1.623	**1.375**	**.005 - .015**
1.623	**1.410**	**.005 - .015**
1.623	1.456	.025 - .040
1.623	1.481	.025 - .040
1.624	.311	.105 - .125
1.624	.440	.040 - .060
1.624	.621	.050 - .070
1.624	.691	.050 - .075
1.624	.695	.015 - .030
1.624	.875	.040 - .060
1.624	.906	.100 - .125
1.624	.917	.030 - .050
1.624	1.005	.040 - .060
1.624	1.015	.050 - .100
1.624	1.021	.060 - .090
1.624	1.032	.020 - .040
1.624	1.083	.100 - .120
1.624	1.100	.050 - .070
1.624	1.129	.062 - .080
1.624	1.135	.015 - .030
1.624	**1.141**	**.005 - .010**
1.624	1.182	.020 - .040
1.624	1.187	.100 - .125
1.624	1.205	.050 - .070
1.624	1.218	.020 - .035
1.624	**1.260**	**.005 - .010**
1.624	1.268	.050 - .070
1.624	**1.329**	**.005 - .020**

O.D.	I.D.	Choose Any Thickness* From To
1.624	1.357	.010 - .025
1.624	**1.376**	**.005 - .010**
1.624	**1.378**	**.005 - .010**
1.624	1.406	.090 - .110
1.624	1.442	.010 - .020
1.625	.125	.020 - .040
1.625	.137	.040 - .060
1.625	.172	.040 - .060
1.625	.199	.050 - .075
1.625	**.266**	**.005 - .010**
1.625	**.330**	**.005 - .010**
1.625	.344	.060 - .080
1.625	**.362**	**.005 - .010**
1.625	.375	.032 - .105
1.625	.395	.105 - .125
1.625	.406	.050 - .070
1.625	.412	.062 - .090
1.625	.430	.100 - .125
1.625	.465	.015 - .030
1.625	.475	.105 - .135
1.625	**.498**	**.005 - .010**
1.625	.500	.025 - .080
1.625	**.504**	**.005 - .010**
1.625	**.508**	**.005 - .042**
1.625	**.514**	**.005 - .010**
1.625	.531	.100 - .125
1.625	.535	.010 - .030
1.625	.540	.010 - .060
1.625	.542	.090 - .120
1.625	.563	.025 - .042
1.625	.564	.050 - .075
1.625	.565	.010 - .125
1.625	.566	.100 - .125
1.625	.571	.015 - .030
1.625	.614	.015 - .030
1.625	.625	.156 - .190
1.625	.633	.060 - .090
1.625	.634	.100 - .125
1.625	**.640**	**.005 - .010**
1.625	.656	.010 - .020
1.625	.657	.035 - .050
1.625	.688	.100 - .120
1.625	.754	.050 - .075
1.625	.755	.090 - .105
1.625	.760	.100 - .125
1.625	.765	.090 - .120
1.625	.770	.050 - .075
1.625	**.772**	**.005 - .010**
1.625	.781	.100 - .135
1.625	.791	.030 - .050
1.625	.797	.080 - .100
1.625	.816	.090 - .120
1.625	.865	.100 - .125
1.625	.875	.090 - .125
1.625	.882	.060 - .070
1.625	**.932**	**.005 - .012**
1.625	**.999**	**.005 - .032**
1.625	1.000	.040 - .060
1.625	1.004	.040 - .060
1.625	1.009	.040 - .060
1.625	**1.010**	**.005 - .010**
1.625	1.016	.020 - .036
1.625	1.032	.100 - .125
1.625	1.062	.120 - .134
1.625	**1.125**	**.005 - .125**
1.625	1.125	.126 - .135
1.625	**1.127**	**.005 - .010**
1.625	1.130	.090 - .125
1.625	1.134	.032 - .042
1.625	1.220	.050 - .075
1.625	1.250	.015 - .030
1.625	1.255	.100 - .125
1.625	1.256	.030 - .050
1.625	1.281	.040 - .060
1.625	**1.287**	**.005 - .010**
1.625	1.296	.075 - .083
1.625	1.303	.025 - .042
1.625	**1.305**	**.005 - .010**
1.625	1.328	.060 - .080
1.625	1.339	.050 - .075

O.D.	I.D.	Choose Any Thickness* From To
1.625	1.375	.020 - .070
1.625	1.382	.090 - .105
1.625	1.396	.080 - .100
1.625	**1.398**	**.005 - .025**
1.625	1.406	.070 - .090
1.625	1.437	.060 - .080
1.626	.251	.050 - .070
1.626	.504	.010 - .020
1.626	.509	.105 - .135
1.626	.516	.050 - .060
1.626	**.562**	**.005 - .010**
1.626	.757	.010 - .015
1.626	.780	.010 - .020
1.626	1.007	.025 - .040
1.626	1.125	.040 - .060
1.626	**1.187**	**.005 - .040**
1.626	1.321	.050 - .075
1.626	1.377	.025 - .040
1.626	**1.402**	**.005 - .010**
1.627	.173	.010 - .020
1.627	.314	.015 - .030
1.627	.380	.040 - .060
1.627	.385	.090 - .125
1.627	.555	.156 - .187
1.627	.627	.062 - .080
1.627	.693	.105 - .135
1.627	.816	.025 - .042
1.627	.876	.015 - .030
1.627	1.006	.105 - .125
1.627	1.125	.080 - .104
1.627	**1.130**	**.005 - .010**
1.627	1.181	.080 - .100
1.627	**1.250**	**.005 - .010**
1.627	1.302	.010 - .020
1.627	1.320	.025 - .040
1.627	1.378	.050 - .070
1.628	.129	.050 - .070
1.628	.323	.080 - .105
1.628	.420	.156 - .187
1.628	.508	.090 - .120
1.628	.810	.040 - .060
1.628	**1.137**	**.005 - .010**
1.628	1.358	.030 - .050
1.628	**1.386**	**.005 - .010**
1.628	1.387	.010 - .040
1.629	.240	.015 - .030
1.629	.284	.015 - .030
1.629	.530	.100 - .125
1.629	.592	.020 - .030
1.629	1.125	.015 - .025
1.629	**1.319**	**.005 - .010**
1.629	1.331	.025 - .040
1.629	1.388	.020 - .030
1.630	.231	.050 - .070
1.630	.243	.110 - .135
1.630	.320	.100 - .125
1.630	.422	.140 - .160
1.630	**.828**	**.005 - .010**
1.630	.890	.025 - .042
1.630	1.007	.083 - .120
1.630	1.061	.042 - .062
1.630	1.153	.025 - .040
1.630	1.200	.125 - .156
1.630	**1.274**	**.005 - .010**
1.630	1.283	.020 - .040
1.630	1.330	.040 - .060
1.630	1.489	.030 - .040
1.630	1.490	.040 - .060
1.630	1.503	.015 - .030
1.631	1.010	.010 - .020
1.631	**1.378**	**.005 - .010**
1.631	1.438	.020 - .035
1.632	.513	.040 - .060
1.632	**.565**	**.005 - .010**
1.632	1.202	.030 - .050
1.633	.501	.015 - .030
1.634	1.202	.030 - .050
1.635	.787	.020 - .030
1.635	.998	.050 - .075
1.635	1.326	.020 - .040

O.D.	I.D.	Choose Any Thickness* From To
1.635	1.432	.050 - .070
1.636	.411	.105 - .120
1.636	1.250	.040 - .060
1.636	1.377	.062 - .090
1.637	1.314	.050 - .062
1.638	.554	.010 - .020
1.638	1.020	.030 - .050
1.638	**1.262**	**.005 - .050**
1.638	1.375	.105 - .125
1.639	**.677**	**.005 - .010**
1.639	.737	.060 - .080
1.639	.990	.010 - .020
1.639	1.310	.080 - .100
1.639	**1.376**	**.005 - .010**
1.640	**.645**	**.005 - .010**
1.640	**.750**	**.005 - .010**
1.640	1.082	.156 - .187
1.640	1.373	.010 - .035
1.640	**1.440**	**.005 - .010**
1.640	1.442	.050 - .070
1.641	1.044	.036 - .060
1.642	.682	.105 - .135
1.642	**1.039**	**.005 - .010**
1.642	1.330	.050 - .080
1.643	.678	.080 - .104
1.643	.755	.050 - .080
1.644	.911	.025 - .040
1.644	.914	.030 - .050
1.644	.990	.040 - .060
1.644	1.039	.015 - .030
1.644	1.310	.070 - .090
1.644	1.328	.075 - .090
1.644	1.388	.090 - .110
1.644	1.405	.040 - .060
1.644	1.458	.020 - .040
1.644	1.528	.030 - .050
1.645	.625	.015 - .050
1.645	.956	.105 - .125
1.645	1.250	.140 - .160
1.645	1.328	.060 - .080
1.646	1.236	.030 - .050
1.646	1.411	.015 - .030
1.646	1.427	.015 - .030
1.646	1.435	.070 - .090
1.646	1.460	.015 - .025
1.646	**1.525**	**.005 - .010**
1.647	.619	.010 - .020
1.647	.621	.025 - .040
1.647	1.053	.010 - .020
1.647	1.310	.050 - .070
1.647	**1.426**	**.005 - .010**
1.648	.408	.062 - .080
1.648	.543	.040 - .060
1.648	1.008	.010 - .020
1.648	1.194	.090 - .105
1.648	1.270	.020 - .030
1.648	**1.403**	**.005 - .010**
1.648	1.515	.040 - .050
1.649	**.055**	**.005 - .010**
1.649	**.505**	**.005 - .010**
1.649	.562	.010 - .020
1.649	.621	.030 - .050
1.649	**1.296**	**.005 - .010**
1.649	1.366	.060 - .080
1.649	1.449	.050 - .070
1.649	1.499	.050 - .070
1.649	1.501	.010 - .020
1.650	.051	.015 - .030
1.650	.132	.010 - .020
1.650	.377	.030 - .050
1.650	.411	.015 - .025
1.650	.424	.100 - .125
1.650	.440	.010 - .020
1.650	**.441**	**.005 - .010**
1.650	**.500**	**.005 - .010**
1.650	**.503**	**.005 - .060**
1.650	**.563**	**.005 - .020**
1.650	.620	.015 - .125
1.650	**.625**	**.005 - .020**
1.650	.626	.020 - .030

O.D.	I.D.	Choose Any Thickness* From To
1.650	.634	.020 - .040
1.650	.686	.062 - .080
1.650	.689	.156 - .187
1.650	.750	.156 - .190
1.650	1.010	.090 - .105
1.650	1.094	.040 - .060
1.650	1.181	.025 - .060
1.650	**1.250**	**.005 - .030**
1.650	1.252	.105 - .156
1.650	1.253	.020 - .030
1.650	**1.262**	**.005 - .010**
1.650	1.321	.100 - .125
1.650	**1.328**	**.005 - .010**
1.650	1.399	.050 - .070
1.650	1.413	.015 - .025
1.651	.276	.030 - .040
1.651	**.690**	**.005 - .010**
1.651	.818	.040 - .060
1.651	**1.251**	**.005 - .010**
1.651	1.300	.015 - .025
1.651	1.413	.020 - .030
1.652	**.562**	**.005 - .020**
1.652	.786	.070 - .090
1.653	**.473**	**.005 - .010**
1.653	.474	.020 - .030
1.653	**.475**	**.005 - .010**
1.653	.492	.090 - .125
1.653	**.502**	**.005 - .010**
1.653	**.631**	**.005 - .010**
1.653	.633	.020 - .040
1.653	1.273	.050 - .060
1.653	1.274	.050 - .070
1.653	1.326	.070 - .090
1.653	1.378	.090 - .105
1.653	1.416	.070 - .090
1.653	1.481	.040 - .060
1.653	1.486	.030 - .050
1.654	.128	.010 - .020
1.654	.475	.010 - .020
1.654	.632	.010 - .020
1.654	.639	.090 - .105
1.654	**.691**	**.005 - .010**
1.654	**.820**	**.005 - .010**
1.654	**.834**	**.005 - .050**
1.654	1.050	.080 - .100
1.654	1.265	.050 - .070
1.654	1.272	.010 - .020
1.654	1.419	.020 - .040
1.654	**1.420**	**.005 - .010**
1.655	.203	.050 - .075
1.655	**.473**	**.005 - .010**
1.655	**.629**	**.005 - .010**
1.655	.633	.020 - .040
1.655	.651	.080 - .105
1.655	.771	.020 - .030
1.655	.905	.050 - .070
1.655	1.063	.030 - .050
1.655	1.125	.020 - .030
1.655	**1.179**	**.005 - .020**
1.655	**1.412**	**.005 - .010**
1.655	1.440	.030 - .050
1.655	**1.541**	**.005 - .010**
1.656	1.101	.120 - .156
1.656	1.223	.090 - .105
1.656	1.344	.050 - .070
1.656	1.390	.030 - .050
1.656	1.437	.040 - .060
1.656	**1.581**	**.005 - .010**
1.657	**.345**	**.005 - .010**
1.657	**.352**	**.005 - .010**
1.657	**1.126**	**.005 - .010**
1.657	1.135	.090 - .110
1.657	1.182	.100 - .120
1.657	1.212	.025 - .040
1.658	1.182	.010 - .015
1.658	**1.229**	**.005 - .010**
1.659	.754	.025 - .040
1.659	1.518	.050 - .062
1.660	.375	.050 - .070
1.660	.634	.010 - .020

O.D.	I.D.	Choose Any Thickness* From To
1.660	.873	.070 - .090
1.660	.964	.010 - .020
1.660	**1.188**	**.005 - .010**
1.660	1.250	.015 - .030
1.660	1.375	.090 - .120
1.660	1.389	.090 - .105
1.660	1.390	.110 - .130
1.661	1.141	.080 - .100
1.661	1.194	.025 - .042
1.661	1.359	.105 - .125
1.661	**1.381**	**.005 - .010**
1.662	1.375	.040 - .060
1.662	1.410	.040 - .125
1.663	**.340**	**.005 - .010**
1.663	1.298	.060 - .090
1.664	1.471	.015 - .030
1.665	1.256	.050 - .070
1.665	1.437	.070 - .090
1.665	1.471	.010 - .016
1.665	**1.581**	**.005 - .010**
1.666	**.895**	**.005 - .008**
1.667	**1.400**	**.005 - .010**
1.668	1.010	.042 - .060
1.668	**1.144**	**.005 - .010**
1.668	**1.264**	**.005 - .010**
1.670	**.635**	**.005 - .010**
1.670	1.009	.100 - .135
1.670	1.060	.020 - .040
1.670	1.131	.070 - .080
1.670	1.255	.025 - .042
1.670	**1.314**	**.005 - .010**
1.670	1.380	.030 - .050
1.670	**1.417**	**.005 - .010**
1.670	1.420	.020 - .040
1.671	**.922**	**.005 - .010**
1.671	1.152	.030 - .050
1.671	1.200	.075 - .105
1.672	.874	.105 - .125
1.672	**1.198**	**.005 - .010**
1.672	**1.515**	**.005 - .010**
1.673	**.714**	**.005 - .010**
1.674	1.150	.040 - .060
1.675	**.250**	**.005 - .010**
1.675	.771	.060 - .075
1.675	.800	.042 - .075
1.675	**.855**	**.005 - .010**
1.675	1.285	.060 - .080
1.677	1.141	.030 - .050
1.677	**1.198**	**.005 - .010**
1.677	1.499	.020 - .030
1.678	.717	.020 - .030
1.678	.756	.105 - .125
1.678	.769	.025 - .040
1.678	1.342	.080 - .100
1.679	.897	.156 - .188
1.679	.951	.040 - .060
1.679	**1.050**	**.005 - .010**
1.679	1.182	.040 - .060
1.679	1.365	.015 - .030
1.679	**1.375**	**.005 - .010**
1.679	1.389	.040 - .060
1.680	.250	.010 - .035
1.680	.500	.010 - .105
1.680	.712	.040 - .060
1.680	.768	.040 - .060
1.680	.797	.042 - .062
1.680	.813	.040 - .060
1.680	.856	.040 - .060
1.680	.895	.040 - .060
1.680	.927	.040 - .060
1.680	.965	.040 - .060
1.680	1.102	.030 - .050
1.680	1.195	.090 - .120
1.680	1.249	.040 - .060
1.680	1.372	.010 - .025
1.680	**1.430**	**.005 - .010**
1.680	1.450	.032 - .060
1.681	**.196**	**.005 - .010**
1.681	.894	.050 - .070
1.681	1.034	.105 - .125

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

Need Disks? All O.D. sizes available with no I.D. — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To
1.681	1.193	.020 - .040
1.681	1.300	.040 - .060
1.681	**1.372**	**.005 - .020**
1.681	**1.400**	**.005 - .010**
1.682	1.016	.060 - .080
1.683	.819	.010 - .020
1.683	.918	.010 - .020
1.683	1.006	.050 - .075
1.683	1.298	.090 - .105
1.684	**1.188**	**.005 - .010**
1.684	1.389	.025 - .040
1.684	**1.442**	**.005 - .010**
1.684	1.525	.015 - .030
1.684	1.562	.040 - .050
1.685	.340	.025 - .042
1.685	.425	.050 - .083
1.685	.495	.032 - .060
1.685	.782	.020 - .040
1.685	1.065	.032 - .060
1.685	1.070	.040 - .050
1.685	1.190	.010 - .020
1.685	1.269	.062 - .080
1.685	1.300	.050 - .060
1.685	1.360	.020 - .030
1.685	1.567	.032 - .050
1.685	1.568	.040 - .060
1.686	.317	.020 - .040
1.686	.345	.050 - .070
1.686	**.350**	**.005 - .010**
1.686	**1.070**	**.005 - .012**
1.686	1.190	.015 - .030
1.686	1.270	.015 - .030
1.686	1.383	.016 - .025
1.686	**1.560**	**.005 - .010**
1.687	.255	.080 - .104
1.687	.375	.030 - .050
1.687	.406	.105 - .135
1.687	.484	.060 - .080
1.687	**.562**	**.005 - .020**
1.687	.634	.030 - .050
1.687	.756	.030 - .050
1.687	**.893**	**.005 - .010**
1.687	1.226	.030 - .050
1.687	1.312	.030 - .040
1.687	1.520	.060 - .070
1.688	.635	.015 - .030
1.688	.686	.100 - .125
1.688	1.090	.070 - .090
1.688	1.097	.030 - .050
1.688	1.262	.050 - .075
1.688	1.432	.030 - .050
1.688	1.507	.040 - .060
1.689	.517	.075 - .105
1.689	.940	.090 - .125
1.689	1.230	.100 - .125
1.689	1.376	.020 - .030
1.690	.125	.020 - .040
1.690	.410	.105 - .125
1.690	.711	.050 - .070
1.690	.890	.080 - .104
1.690	1.163	.040 - .050
1.690	1.187	.020 - .040
1.690	1.303	.030 - .050
1.690	1.378	.030 - .060
1.690	**1.559**	**.005 - .010**
1.691	.772	.010 - .020
1.691	**1.083**	**.005 - .010**
1.691	1.300	.050 - .060
1.691	**1.477**	**.005 - .010**
1.691	**1.563**	**.005 - .010**
1.692	.885	.080 - .100
1.693	.803	.040 - .060
1.693	1.122	.010 - .020
1.694	**.723**	**.005 - .010**
1.694	**.984**	**.005 - .010**
1.694	1.260	.090 - .110
1.694	1.499	.025 - .040
1.694	**1.500**	**.005 - .015**
1.695	.203	.040 - .060
1.695	.314	.040 - .060

O.D.	I.D.	Choose Any Thickness* From To
1.695	**.998**	**.005 - .010**
1.695	1.010	.100 - .125
1.696	1.002	.060 - .083
1.696	1.200	.020 - .040
1.696	**1.397**	**.005 - .010**
1.696	1.452	.080 - .105
1.697	.453	.100 - .125
1.697	.861	.090 - .125
1.697	1.308	.105 - .125
1.697	**1.328**	**.005 - .010**
1.697	1.338	.010 - .020
1.698	.131	.015 - .030
1.698	.453	.100 - .125
1.698	.502	.015 - .030
1.698	.626	.010 - .020
1.698	.715	.090 - .105
1.698	.753	.060 - .090
1.698	.760	.080 - .100
1.698	**1.449**	**.005 - .010**
1.699	.625	.015 - .030
1.699	.754	.010 - .020
1.699	.949	.050 - .060
1.699	**1.404**	**.005 - .010**
1.699	1.503	.015 - .030
1.700	.125	.100 - .125
1.700	.204	.100 - .125
1.700	.206	.100 - .120
1.700	.364	.100 - .125
1.700	**.502**	**.005 - .010**
1.700	.505	.010 - .020
1.700	.579	.090 - .100
1.700	.860	.090 - .105
1.700	.938	.135 - .156
1.700	.990	.030 - .040
1.700	1.000	.060 - .083
1.700	1.190	.020 - .080
1.700	1.192	.100 - .125
1.700	1.223	.050 - .075
1.700	**1.250**	**.005 - .012**
1.700	**1.340**	**.005 - .010**
1.700	1.385	.040 - .060
1.700	**1.389**	**.005 - .010**
1.700	**1.451**	**.005 - .010**
1.700	1.504	.030 - .050
1.700	1.515	.012 - .020
1.700	1.542	.010 - .020
1.701	1.266	.015 - .030
1.701	1.385	.030 - .050
1.701	1.450	.040 - .060
1.702	.208	.040 - .060
1.702	.820	.080 - .100
1.702	.825	.156 - .190
1.702	1.000	.010 - .020
1.702	1.120	.050 - .070
1.703	**.114**	**.005 - .015**
1.703	1.320	.050 - .075
1.703	**1.386**	**.005 - .010**
1.704	**.114**	**.005 - .010**
1.704	.169	.010 - .025
1.705	**1.250**	**.005 - .012**
1.705	1.418	.015 - .030
1.706	.439	.040 - .060
1.706	.776	.070 - .090
1.707	**.780**	**.005 - .010**
1.707	1.002	.105 - .135
1.708	.381	.060 - .080
1.708	**1.247**	**.005 - .020**
1.708	1.311	.030 - .050
1.708	1.312	.050 - .075
1.709	**.391**	**.005 - .015**
1.709	.761	.156 - .187
1.710	.760	.100 - .125
1.710	1.093	.015 - .035
1.710	**1.345**	**.005 - .010**
1.711	1.143	.156 - .187
1.711	1.300	.050 - .070
1.712	.905	.025 - .040
1.712	**1.617**	**.005 - .010**
1.714	1.408	.050 - .062
1.714	1.409	.050 - .070

O.D.	I.D.	Choose Any Thickness* From To
1.714	1.513	.025 - .042
1.714	1.541	.040 - .060
1.715	.185	.060 - .080
1.715	.188	.020 - .030
1.715	.950	.050 - .080
1.715	1.033	.060 - .080
1.715	1.513	.015 - .030
1.715	**1.551**	**.005 - .010**
1.716	.405	.090 - .120
1.716	.720	.050 - .075
1.716	.953	.050 - .070
1.716	1.312	.020 - .040
1.717	.410	.075 - .090
1.717	.758	.040 - .060
1.717	1.186	.015 - .030
1.717	1.619	.015 - .030
1.718	.360	.050 - .070
1.718	.630	.015 - .030
1.718	.656	.100 - .125
1.718	.705	.135 - .156
1.718	1.130	.060 - .083
1.718	1.187	.100 - .125
1.718	**1.402**	**.005 - .010**
1.719	.481	.090 - .110
1.719	1.063	.030 - .050
1.719	1.133	.100 - .125
1.719	1.275	.070 - .090
1.719	1.378	.050 - .070
1.719	1.400	.020 - .030
1.719	**1.555**	**.005 - .010**
1.719	1.592	.030 - .050
1.720	.217	.040 - .070
1.720	.250	.042 - .062
1.720	.257	.070 - .080
1.720	.265	.052 - .083
1.720	**.503**	**.005 - .010**
1.720	.655	.025 - .040
1.720	**.718**	**.005 - .010**
1.720	.760	.105 - .125
1.720	1.000	.060 - .083
1.720	1.225	.008 - .015
1.720	1.400	.015 - .030
1.720	1.464	.010 - .020
1.721	1.306	.050 - .075
1.721	**1.408**	**.005 - .010**
1.721	1.514	.020 - .030
1.722	**.417**	**.005 - .010**
1.722	.752	.045 - .060
1.722	1.515	.060 - .080
1.723	.265	.050 - .083
1.723	.354	.060 - .080
1.723	.686	.110 - .130
1.723	1.415	.020 - .040
1.723	1.513	.070 - .090
1.724	.375	.040 - .060
1.724	1.195	.060 - .080
1.725	1.350	.040 - .062
1.725	**1.410**	**.005 - .010**
1.726	1.134	.050 - .070
1.726	1.385	.030 - .050
1.727	1.623	.020 - .035
1.728	.878	.100 - .125
1.729	.870	.020 - .040
1.730	**.632**	**.005 - .010**
1.730	**.748**	**.005 - .010**
1.730	1.000	.080 - .105
1.730	1.300	.060 - .070
1.730	1.330	.010 - .050
1.730	1.390	.040 - .060
1.730	1.478	.010 - .020
1.730	1.541	.015 - .030
1.731	**.476**	**.005 - .010**
1.731	.748	.015 - .030
1.731	.828	.090 - .105
1.731	.854	.070 - .090
1.731	.881	.040 - .060
1.731	**1.135**	**.005 - .010**
1.731	1.195	.025 - .040
1.731	1.255	.040 - .050
1.731	1.497	.030 - .050

O.D.	I.D.	Choose Any Thickness* From To
1.731	1.585	.010 - .020
1.732	.186	.010 - .020
1.732	**.473**	**.005 - .010**
1.732	**.545**	**.005 - .010**
1.732	**.630**	**.005 - .010**
1.732	.695	.007 - .012
1.732	**.748**	**.005 - .010**
1.732	.748	.015 - .030
1.732	.750	.070 - .080
1.732	1.257	.040 - .060
1.732	1.338	.040 - .060
1.732	1.387	.025 - .040
1.732	1.420	.020 - .040
1.732	1.429	.010 - .020
1.732	1.630	.010 - .020
1.733	.634	.010 - .020
1.733	1.257	.030 - .050
1.733	1.357	.040 - .050
1.733	1.506	.050 - .075
1.733	1.575	.010 - .020
1.734	.253	.105 - .125
1.734	**.924**	**.005 - .010**
1.734	1.382	.070 - .090
1.734	**1.399**	**.005 - .010**
1.734	**1.451**	**.005 - .010**
1.734	1.536	.015 - .030
1.735	.113	.030 - .050
1.735	.378	.030 - .050
1.735	.896	.080 - .105
1.735	1.259	.125 - .156
1.735	1.265	.015 - .030
1.735	**1.399**	**.005 - .010**
1.735	1.438	.075 - .090
1.735	1.513	.093 - .105
1.735	**1.565**	**.005 - .010**
1.736	**.475**	**.005 - .010**
1.736	1.149	.030 - .060
1.736	1.253	.060 - .080
1.737	.350	.015 - .030
1.737	**.401**	**.005 - .010**
1.737	1.501	.040 - .060
1.737	**1.502**	**.005 - .010**
1.738	.771	.015 - .025
1.738	.882	.090 - .105
1.738	.991	.010 - .020
1.738	**1.249**	**.005 - .010**
1.738	**1.257**	**.005 - .020**
1.738	1.260	.070 - .090
1.738	**1.548**	**.005 - .015**
1.739	1.114	.030 - .050
1.739	1.302	.020 - .040
1.739	1.446	.040 - .060
1.740	.362	.050 - .070
1.740	.501	.025 - .040
1.740	.503	.070 - .090
1.740	.765	.032 - .060
1.740	.878	.100 - .125
1.740	1.008	.050 - .060
1.740	1.058	.060 - .080
1.740	1.199	.025 - .040
1.740	1.236	.105 - .125
1.740	**1.244**	**.005 - .010**
1.740	1.260	.010 - .060
1.740	1.261	.006 - .012
1.740	1.313	.062 - .093
1.740	**1.530**	**.005 - .010**
1.741	1.010	.025 - .040
1.741	1.239	.030 - .050
1.742	.198	.050 - .075
1.742	1.020	.020 - .060
1.742	1.459	.010 - .020
1.742	1.512	.060 - .070
1.742	1.555	.050 - .070
1.743	.315	.010 - .032
1.743	.505	.015 - .020
1.743	**.511**	**.005 - .010**
1.743	.532	.100 - .125
1.743	1.220	.020 - .030
1.743	1.225	.015 - .030
1.743	1.339	.090 - .105

O.D.	I.D.	Choose Any Thickness* From To
1.743	1.503	.020 - .030
1.743	1.536	.040 - .060
1.744	1.254	.020 - .040
1.744	1.398	.020 - .040
1.744	1.447	.030 - .050
1.744	1.503	.020 - .040
1.744	1.505	.030 - .105
1.744	**1.567**	**.005 - .010**
1.745	.125	.032 - .060
1.745	.162	.015 - .030
1.745	**.195**	**.005 - .012**
1.745	.315	.060 - .080
1.745	.503	.100 - .125
1.745	.505	.105 - .125
1.745	.640	.020 - .030
1.745	**.647**	**.005 - .010**
1.745	.695	.100 - .125
1.745	.885	.050 - .070
1.745	1.073	.010 - .020
1.745	1.101	.015 - .030
1.745	1.109	.010 - .020
1.745	**1.165**	**.005 - .010**
1.745	1.196	.020 - .040
1.745	1.370	.025 - .040
1.745	**1.375**	**.005 - .010**
1.745	1.448	.020 - .030
1.745	**1.511**	**.005 - .010**
1.745	1.560	.010 - .020
1.745	1.561	.015 - .025
1.746	.373	.060 - .080
1.746	**.443**	**.005 - .010**
1.746	.497	.025 - .040
1.746	**.595**	**.005 - .010**
1.746	.781	.100 - .125
1.746	.906	.100 - .125
1.746	1.001	.040 - .062
1.746	1.046	.075 - .090
1.746	**1.066**	**.005 - .010**
1.746	1.133	.040 - .060
1.746	**1.141**	**.005 - .010**
1.746	1.169	.060 - .080
1.746	1.190	.090 - .125
1.746	1.254	.100 - .125
1.746	**1.320**	**.005 - .010**
1.746	1.448	.050 - .075
1.746	1.535	.060 - .080
1.747	.282	.025 - .040
1.747	**.286**	**.005 - .010**
1.747	.314	.100 - .125
1.747	.333	.090 - .110
1.747	.502	.032 - .048
1.747	**.515**	**.005 - .010**
1.747	.531	.015 - .030
1.747	.543	.100 - .125
1.747	.565	.050 - .075
1.747	.620	.050 - .075
1.747	.626	.032 - .060
1.747	.701	.125 - .134
1.747	.815	.010 - .020
1.747	.885	.100 - .125
1.747	.892	.075 - .105
1.747	.906	.120 - .140
1.747	.908	.010 - .020
1.747	.918	.070 - .090
1.747	1.006	.110 - .130
1.747	1.030	.020 - .040
1.747	**1.253**	**.005 - .010**
1.747	**1.255**	**.005 - .025**
1.747	1.309	.050 - .075
1.747	1.315	.060 - .070
1.747	**1.340**	**.005 - .010**
1.747	1.376	.020 - .030
1.747	1.394	.042 - .062
1.747	**1.395**	**.005 - .010**
1.747	**1.449**	**.005 - .010**
1.747	1.451	.015 - .025
1.747	1.499	.015 - .030
1.748	.116	.015 - .030
1.748	.256	.010 - .020
1.748	.266	.042 - .060

O.D.	I.D.	Choose Any Thickness* From To
1.748	.267	.030 - .042
1.748	**.278**	**.005 - .010**
1.748	.281	.048 - .062
1.748	.315	.062 - .083
1.748	.395	.010 - .025
1.748	.495	.020 - .030
1.748	.562	.100 - .125
1.748	.627	.060 - .080
1.748	**.752**	**.005 - .030**
1.748	**.756**	**.005 - .050**
1.748	.759	.020 - .030
1.748	.765	.050 - .070
1.748	.767	.100 - .125
1.748	.770	.010 - .020
1.748	.781	.050 - .075
1.748	.785	.100 - .125
1.748	.875	.020 - .040
1.748	**.878**	**.005 - .010**
1.748	.906	.050 - .070
1.748	1.019	.060 - .083
1.748	**1.029**	**.005 - .010**
1.748	1.060	.010 - .020
1.748	**1.072**	**.005 - .010**
1.748	1.136	.075 - .090
1.748	1.161	.040 - .060
1.748	1.264	.015 - .030
1.748	1.293	.070 - .090
1.748	**1.299**	**.005 - .010**
1.748	1.316	.070 - .090
1.748	1.320	.040 - .060
1.748	1.374	.100 - .125
1.748	1.380	.020 - .040
1.748	1.499	.015 - .030
1.748	1.511	.062 - .083
1.748	**1.650**	**.005 - .010**
1.749	.100	.025 - .040
1.749	.141	.060 - .080
1.749	.211	.105 - .125
1.749	.270	.075 - .090
1.749	.281	.050 - .075
1.749	**.335**	**.005 - .010**
1.749	**.375**	**.005 - .010**
1.749	**.381**	**.005 - .010**
1.749	.389	.156 - .187
1.749	.502	.015 - .025
1.749	**.534**	**.005 - .010**
1.749	.546	.156 - .187
1.749	.701	.050 - .070
1.749	.781	.040 - .060
1.749	**.783**	**.005 - .010**
1.749	.794	.070 - .090
1.749	**.894**	**.005 - .010**
1.749	**.920**	**.005 - .015**
1.749	.937	.020 - .040
1.749	1.000	.025 - .040
1.749	1.001	.050 - .070
1.749	1.005	.125 - .135
1.749	1.015	.015 - .030
1.749	1.020	.105 - .135
1.749	1.031	.105 - .135
1.749	1.038	.010 - .020
1.749	1.074	.090 - .105
1.749	1.080	.050 - .060
1.749	1.124	.100 - .125
1.749	1.125	.010 - .020
1.749	1.140	.030 - .050
1.749	1.155	.080 - .100
1.749	1.187	.016 - .025
1.749	1.250	.125 - .135
1.749	1.251	.030 - .040
1.749	1.255	.040 - .060
1.749	**1.256**	**.005 - .010**
1.749	1.293	.156 - .180
1.749	**1.494**	**.005 - .010**
1.749	**1.499**	**.005 - .010**
1.749	1.510	.010 - .020
1.749	1.568	.025 - .040

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

For a size NOT listed, send specs or phone for quote — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To
1.750		
1.750	**.127**	**.005 - .010**
1.750	.150	.040 - .060
1.750	.155	.040 - .080
1.750	.194	.075 - .100
1.750	.195	.030 - .050
1.750	.201	.080 - .100
1.750	.220	.050 - .070
1.750	.238	.060 - .090
1.750	.250	.050 - .075
1.750	.251	.050 - .075
1.750	.252	.025 - .125
1.750	.256	.080 - .104
1.750	.262	.025 - .042
1.750	.270	.120 - .135
1.750	.272	.010 - .020
1.750	.342	.050 - .080
1.750	.343	.100 - .125
1.750	.365	.105 - .125
1.750	.375	.100 - .125
1.750	.392	.100 - .125
1.750	.395	.100 - .125
1.750	.396	.090 - .120
1.750	**.398**	**.005 - .010**
1.750	.401	.090 - .105
1.750	.406	.070 - .090
1.750	.407	.156 - .187
1.750	.410	.100 - .125
1.750	.436	.150 - .187
1.750	.437	.060 - .120
1.750	.438	.015 - .030
1.750	**.440**	**.005 - .020**
1.750	.471	.170 - .190
1.750	.504	.010 - .060
1.750	**.505**	**.005 - .060**
1.750	.508	.040 - .060
1.750	.510	.048 - .134
1.750	.515	.120 - .135
1.750	**.516**	**.005 - .010**
1.750	.531	.015 - .125
1.750	.532	.100 - .125
1.750	.534	.105 - .125
1.750	.535	.105 - .135
1.750	.543	.040 - .060
1.750	**.562**	**.005 - .125**
1.750	.562	.126 - .187
1.750	.564	.010 - .020
1.750	.590	.090 - .110
1.750	.623	.020 - .075
1.750	.624	.100 - .125
1.750	.625	.010 - .160
1.750	.626	.010 - .020
1.750	**.627**	**.005 - .010**
1.750	**.628**	**.005 - .032**
1.750	**.629**	**.005 - .090**
1.750	.630	.010 - .020
1.750	.635	.120 - .135
1.750	.637	.025 - .040
1.750	.641	.156 - .190
1.750	.655	.100 - .125
1.750	.656	.010 - .060
1.750	.657	.040 - .060
1.750	.660	.090 - .105
1.750	.686	.050 - .075
1.750	**.687**	**.005 - .010**
1.750	.688	.100 - .125
1.750	**.692**	**.005 - .010**
1.750	.703	.010 - .020
1.750	.733	.015 - .025
1.750	.749	.050 - .070
1.750	.750	.100 - .156
1.750	.751	.090 - .110
1.750	.754	.015 - .030
1.750	.755	.060 - .090
1.750	**.758**	**.005 - .010**
1.750	.780	.156 - .187

O.D.	I.D.	Choose Any Thickness* From To
1.750	.812	.042 - .156
1.750	**.815**	**.005 - .030**
1.750	.820	.100 - .125
1.750	**.830**	**.005 - .010**
1.750	.832	.050 - .070
1.750	.876	.030 - .105
1.750	.878	.006 - .016
1.750	.906	.100 - .125
1.750	.907	.110 - .130
1.750	.920	.030 - .104
1.750	.937	.100 - .125
1.750	.943	.060 - .080
1.750	.950	.105 - .160
1.750	.954	.010 - .020
1.750	1.000	.010 - .020
1.750	1.003	.050 - .070
1.750	1.005	.015 - .187
1.750	1.009	.050 - .070
1.750	1.010	.050 - .070
1.750	1.015	.156 - .188
1.750	1.016	.050 - .070
1.750	**1.019**	**.005 - .020**
1.750	**1.020**	**.005 - .125**
1.750	1.025	.010 - .020
1.750	1.031	.135 - .156
1.750	1.033	.062 - .083
1.750	1.043	.050 - .070
1.750	**1.049**	**.005 - .010**
1.750	1.060	.030 - .060
1.750	1.062	.050 - .075
1.750	**1.120**	**.005 - .010**
1.750	1.122	.110 - .130
1.750	1.124	.100 - .125
1.750	1.126	.010 - .083
1.750	1.130	.105 - .125
1.750	**1.135**	**.005 - .010**
1.750	1.139	.015 - .060
1.750	1.150	.090 - .120
1.750	1.170	.030 - .048
1.750	1.187	.030 - .080
1.750	1.189	.100 - .125
1.750	**1.190**	**.005 - .010**
1.750	1.226	.020 - .040
1.750	1.250	.010 - .030
1.750	1.252	.010 - .020
1.750	**1.253**	**.005 - .010**
1.750	1.254	.020 - .082
1.750	1.255	.010 - .020
1.750	1.256	.090 - .105
1.750	1.259	.080 - .105
1.750	**1.260**	**.005 - .042**
1.750	1.300	.040 - .060
1.750	1.316	.010 - .020
1.750	**1.318**	**.005 - .008**
1.750	**1.319**	**.005 - .010**
1.750	1.324	.035 - .050
1.750	1.329	.030 - .050
1.750	1.351	.060 - .080
1.750	1.353	.040 - .060
1.750	**1.375**	**.005 - .020**
1.750	**1.383**	**.005 - .010**
1.750	1.384	.015 - .025
1.750	1.385	.100 - .125
1.750	**1.386**	**.005 - .010**
1.750	1.389	.060 - .080
1.750	1.394	.090 - .120
1.750	1.398	.032 - .050
1.750	**1.400**	**.005 - .050**
1.750	**1.410**	**.005 - .010**
1.750	1.410	.010 - .020
1.750	1.411	.008 - .015
1.750	1.420	.070 - .090
1.750	**1.435**	**.005 - .040**
1.750	1.436	.120 - .134
1.750	1.443	.090 - .105
1.750	1.471	.050 - .075
1.750	1.500	.025 - .040
1.750	**1.502**	**.005 - .010**
1.750	1.527	.020 - .040
1.750	1.531	.030 - .080

O.D.	I.D.	Choose Any Thickness* From To
1.750	1.532	.025 - .045
1.750	1.550	.010 - .015
1.750	**1.565**	**.005 - .010**
1.750	**1.566**	**.005 - .010**
1.750	1.567	.010 - .020
1.750	1.580	.040 - .060
1.751	**.325**	**.005 - .010**
1.751	.451	.105 - .125
1.751	**.511**	**.005 - .010**
1.751	.560	.010 - .060
1.751	.626	.025 - .040
1.751	.628	.100 - .125
1.751	.629	.030 - .050
1.751	.720	.156 - .187
1.751	.890	.105 - .135
1.751	1.002	.105 - .125
1.751	**1.011**	**.005 - .010**
1.751	1.033	.050 - .075
1.751	1.132	.050 - .075
1.751	1.198	.070 - .090
1.751	1.260	.050 - .070
1.751	1.265	.050 - .070
1.751	1.290	.025 - .040
1.751	1.405	.050 - .075
1.751	1.434	.020 - .040
1.751	**1.515**	**.005 - .010**
1.751	1.569	.020 - .035
1.751	1.583	.025 - .040
1.752	.262	.100 - .120
1.752	.375	.030 - .050
1.752	.381	.040 - .060
1.752	.485	.156 - .190
1.752	**.531**	**.005 - .010**
1.752	.563	.110 - .130
1.752	.640	.010 - .020
1.752	.800	.025 - .040
1.752	.910	.015 - .030
1.752	1.000	.030 - .060
1.752	1.062	.100 - .125
1.752	1.064	.110 - .130
1.752	1.450	.080 - .100
1.752	1.453	.083 - .120
1.752	1.500	.080 - .090
1.752	1.507	.050 - .070
1.752	1.513	.042 - .062
1.752	1.528	.070 - .090
1.753	.343	.080 - .104
1.753	.387	.040 - .080
1.753	.751	.080 - .100
1.753	.752	.105 - .125
1.753	**1.067**	**.005 - .010**
1.753	**1.268**	**.005 - .010**
1.753	1.313	.080 - .100
1.753	**1.385**	**.005 - .008**
1.753	1.564	.050 - .070
1.754	.894	.100 - .125
1.754	1.254	.062 - .083
1.754	1.375	.105 - .125
1.754	1.387	.020 - .030
1.755	.257	.040 - .060
1.755	.281	.080 - .100
1.755	.322	.050 - .070
1.755	.906	.040 - .062
1.755	1.285	.060 - .080
1.755	1.536	.050 - .070
1.756	.484	.105 - .135
1.757	.252	.080 - .104
1.757	.629	.100 - .125
1.757	**1.437**	**.005 - .010**
1.758	**.562**	**.005 - .010**
1.758	1.476	.050 - .070
1.760	.631	.010 - .020
1.760	.767	.007 - .016
1.760	1.140	.007 - .016
1.760	1.270	.020 - .040
1.760	**1.286**	**.005 - .010**
1.761	.408	.015 - .030
1.762	.408	.015 - .030
1.762	.950	.140 - .160
1.762	1.388	.060 - .080

O.D.	I.D.	Choose Any Thickness* From To
1.763	.505	.030 - .040
1.763	1.126	.135 - .160
1.764	.453	.010 - .040
1.764	.504	.090 - .125
1.764	.514	.105 - .134
1.764	.950	.110 - .130
1.764	1.268	.060 - .090
1.764	1.475	.080 - .104
1.765	.297	.042 - .060
1.765	.308	.042 - .062
1.765	.504	.100 - .125
1.765	.630	.008 - .016
1.765	.993	.100 - .125
1.765	1.005	.010 - .020
1.765	1.024	.036 - .060
1.765	1.044	.090 - .105
1.765	1.350	.030 - .050
1.765	1.361	.050 - .070
1.765	1.382	.062 - .083
1.766	1.382	.060 - .080
1.768	**.793**	**.005 - .010**
1.768	**1.232**	**.005 - .010**
1.768	1.380	.030 - .050
1.768	**1.382**	**.005 - .010**
1.769	.406	.080 - .104
1.769	.641	.090 - .120
1.769	.838	.040 - .060
1.769	1.299	.050 - .070
1.769	1.301	.040 - .060
1.769	1.391	.025 - .040
1.770	.789	.040 - .060
1.770	.810	.030 - .040
1.770	.827	.030 - .048
1.770	1.065	.050 - .070
1.770	1.181	.010 - .020
1.770	1.250	.040 - .060
1.770	**1.265**	**.005 - .010**
1.770	1.542	.010 - .020
1.770	1.565	.050 - .070
1.770	1.629	.015 - .025
1.771	.257	.050 - .070
1.771	.433	.105 - .125
1.771	.812	.020 - .030
1.771	1.332	.090 - .105
1.771	1.378	.010 - .020
1.771	**1.397**	**.005 - .010**
1.772	.501	.015 - .025
1.772	1.313	.050 - .060
1.772	**1.360**	**.005 - .010**
1.772	**1.361**	**.005 - .010**
1.772	1.470	.015 - .025
1.773	.202	.050 - .070
1.773	.471	.130 - .150
1.773	**.501**	**.005 - .020**
1.773	1.023	.050 - .070
1.773	1.149	.050 - .070
1.773	1.386	.070 - .090
1.774	.127	.015 - .030
1.774	**1.362**	**.005 - .010**
1.774	1.484	.020 - .030
1.775	1.275	.100 - .130
1.775	1.511	.025 - .040
1.775	1.517	.030 - .040
1.775	1.520	.025 - .040
1.776	**.685**	**.005 - .010**
1.776	.752	.100 - .134
1.776	1.235	.060 - .080
1.776	1.262	.060 - .080
1.776	1.452	.030 - .050
1.776	1.576	.015 - .025
1.777	.998	.010 - .020
1.777	1.110	.015 - .030
1.778	.199	.020 - .040
1.779	.999	.050 - .070
1.779	**1.057**	**.005 - .010**
1.780	.250	.020 - .032
1.780	.509	.020 - .040
1.780	**.720**	**.005 - .010**
1.780	.754	.030 - .048
1.780	.953	.120 - .135

O.D.	I.D.	Choose Any Thickness* From To
1.780	1.250	.015 - .030
1.780	1.601	.070 - .090
1.780	1.612	.030 - .050
1.780	1.691	.020 - .030
1.781	.936	.080 - .105
1.781	1.157	.020 - .040
1.781	1.517	.015 - .030
1.782	**.396**	**.005 - .010**
1.782	**.645**	**.005 - .010**
1.783	.880	.010 - .030
1.784	1.136	.020 - .040
1.784	1.330	.010 - .020
1.784	1.616	.060 - .080
1.785	.881	.050 - .070
1.785	1.084	.032 - .048
1.785	1.264	.105 - .125
1.788	.698	.050 - .075
1.788	1.124	.010 - .015
1.788	1.425	.075 - .100
1.788	1.586	.090 - .105
1.788	1.587	.050 - .065
1.788	1.605	.020 - .040
1.789	.761	.080 - .125
1.790	.620	.015 - .125
1.790	.820	.015 - .125
1.790	**1.063**	**.005 - .010**
1.790	1.530	.010 - .020
1.790	**1.679**	**.005 - .010**
1.791	1.276	.010 - .020
1.791	1.280	.040 - .060
1.791	1.605	.030 - .050
1.792	1.605	.010 - .020
1.793	**.638**	**.005 - .010**
1.793	.999	.010 - .020
1.793	1.499	.020 - .030
1.794	.387	.010 - .020
1.794	1.588	.010 - .020
1.795	.276	.100 - .125
1.795	.510	.105 - .125
1.795	**1.001**	**.005 - .010**
1.795	1.625	.025 - .040
1.796	1.688	.015 - .030
1.797	1.687	.020 - .030
1.798	.096	.030 - .050
1.798	**.629**	**.005 - .010**
1.798	.931	.050 - .075
1.798	**1.076**	**.005 - .010**
1.798	1.122	.105 - .125
1.798	1.255	.100 - .125
1.799	.096	.030 - .050
1.799	.180	.030 - .050
1.799	**.377**	**.005 - .010**
1.799	.753	.042 - .060
1.799	.795	.036 - .050
1.799	.945	.100 - .125
1.799	1.020	.040 - .060
1.799	1.029	.120 - .135
1.799	1.380	.050 - .075
1.799	1.397	.015 - .030
1.800	.147	.080 - .104
1.800	.154	.050 - .060
1.800	**.195**	**.005 - .010**
1.800	.196	.090 - .105
1.800	.473	.025 - .040
1.800	**.475**	**.005 - .020**
1.800	.490	.090 - .110
1.800	**.504**	**.005 - .010**
1.800	**.505**	**.005 - .020**
1.800	.510	.010 - .021
1.800	**.754**	**.005 - .010**
1.800	.814	.010 - .020
1.800	.880	.010 - .020
1.800	.892	.062 - .083
1.800	**.906**	**.005 - .010**
1.800	.968	.050 - .060
1.800	.992	.060 - .080
1.800	1.010	.120 - .134
1.800	1.172	.080 - .100
1.800	1.173	.083 - .120
1.800	1.268	.020 - .030

O.D.	I.D.	Choose Any Thickness* From To
1.800	**1.380**	**.005 - .010**
1.800	**1.385**	**.005 - .010**
1.800	1.430	.040 - .060
1.800	1.451	.015 - .030
1.800	**1.500**	**.005 - .020**
1.800	**1.548**	**.005 - .010**
1.800	**1.562**	**.005 - .010**
1.800	1.569	.025 - .040
1.801	.505	.010 - .020
1.801	**.751**	**.005 - .010**
1.801	1.501	.050 - .070
1.801	1.610	.020 - .030
1.801	1.611	.010 - .020
1.802	.425	.040 - .060
1.802	**1.257**	**.005 - .010**
1.803	.906	.020 - .032
1.803	1.362	.040 - .060
1.804	1.270	.010 - .020
1.804	**1.366**	**.005 - .010**
1.805	**.338**	**.005 - .010**
1.805	.375	.090 - .105
1.805	.550	.025 - .040
1.805	1.117	.020 - .040
1.805	1.375	.030 - .060
1.805	**1.398**	**.005 - .010**
1.805	1.565	.010 - .020
1.805	1.584	.015 - .030
1.805	1.591	.070 - .090
1.805	**1.718**	**.005 - .010**
1.806	.206	.040 - .050
1.806	**.350**	**.005 - .010**
1.806	1.344	.015 - .030
1.806	1.655	.030 - .050
1.806	1.690	.030 - .050
1.807	.166	.035 - .050
1.807	.461	.050 - .075
1.807	**1.223**	**.005 - .010**
1.807	1.438	.040 - .060
1.807	1.518	.030 - .060
1.808	.690	.030 - .050
1.808	1.534	.010 - .020
1.809	.096	.040 - .060
1.809	.463	.025 - .040
1.809	1.063	.093 - .113
1.809	1.121	.105 - .120
1.809	**1.437**	**.005 - .008**
1.810	.100	.020 - .050
1.810	.167	.093 - .125
1.810	.180	.015 - .030
1.810	.756	.156 - .190
1.810	**.824**	**.005 - .010**
1.810	.875	.040 - .060
1.810	1.059	.090 - .120
1.810	1.066	.040 - .060
1.810	1.130	.100 - .125
1.810	1.518	.040 - .062
1.810	**1.583**	**.005 - .060**
1.811	**.275**	**.005 - .010**
1.811	.313	.050 - .060
1.811	.501	.030 - .050
1.811	1.013	.100 - .125
1.811	1.144	.020 - .030
1.811	1.314	.100 - .125
1.811	**1.379**	**.005 - .010**
1.811	1.521	.025 - .040
1.811	1.540	.090 - .120
1.812	.213	.010 - .125
1.812	.328	.156 - .187
1.812	.456	.060 - .080
1.812	.751	.156 - .187
1.812	.792	.035 - .048
1.812	1.062	.075 - .100
1.812	1.124	.050 - .075
1.812	1.130	.090 - .125
1.812	1.156	.080 - .104
1.812	1.188	.050 - .080
1.812	1.300	.030 - .050
1.812	1.312	.010 - .015
1.812	1.381	.050 - .075
1.812	1.402	.015 - .030

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

Call BOKER'S for precision stamping, assembly, and secondary operations.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
1.812	1.410	.030 - .050	**1.837**	**1.345**	**.005 - .015**	**1.850**	**1.107**	**.005 - .010**	1.870	1.392	.010 - .015	1.875	.320	.105 - .125	1.877	1.505	.070 - .090
1.812	1.436	.040 - .060	1.838	.126	.030 - .050	**1.850**	**1.122**	**.005 - .020**	**1.870**	**1.418**	**.005 - .010**	1.875	.375	.040 - .060	1.877	1.525	.015 - .030
1.812	1.444	.040 - .060	**1.838**	**.419**	**.005 - .010**	1.850	1.199	.040 - .050	1.870	1.419	.010 - .020	1.875	.408	.060 - .080	1.877	1.527	.050 - .070
1.812	1.445	.020 - .040	1.838	1.371	.040 - .060	**1.850**	**1.310**	**.005 - .007**	1.870	1.504	.025 - .040	1.875	.409	.090 - .120	1.877	1.563	.025 - .040
1.812	1.480	.050 - .075	1.838	1.571	.030 - .050	1.850	1.391	.010 - .020	1.870	1.513	.060 - .090	**1.875**	**.437**	**.005 - .010**	1.877	1.637	.030 - .040
1.812	1.498	.010 - .020	1.839	1.251	.025 - .030	1.850	1.438	.100 - .120	1.870	1.713	.050 - .060	1.875	.450	.105 - .125	**1.878**	**.621**	**.005 - .020**
1.812	**1.510**	**.005 - .010**	**1.839**	**1.382**	**.005 - .010**	1.850	1.570	.020 - .050	**1.871**	**1.009**	**.005 - .010**	1.875	.510	.090 - .125	1.878	.655	.090 - .120
1.812	1.522	.020 - .040	1.840	.249	.060 - .075	1.850	1.651	.120 - .135	1.871	1.260	.156 - .187	1.875	.620	.062 - .075	**1.878**	**.690**	**.005 - .010**
1.812	1.523	.030 - .050	1.840	.509	.050 - .070	1.850	1.685	.015 - .025	1.871	1.377	.050 - .070	1.875	.626	.015 - .030	1.878	.754	.125 - .156
1.812	1.524	.015 - .030	1.840	.679	.050 - .070	1.851	1.505	.025 - .040	1.871	1.417	.060 - .080	1.875	.629	.040 - .060	1.878	.812	.105 - .125
1.812	1.563	.015 - .030	1.840	.700	.030 - .040	**1.851**	**1.590**	**.005 - .012**	1.871	1.770	.015 - .030	1.875	.632	.104 - .135	**1.878**	**1.053**	**.005 - .010**
1.813	.251	.083 - .104	**1.840**	**1.005**	**.005 - .010**	**1.851**	**1.630**	**.005 - .025**	1.872	.626	.050 - .075	1.875	.718	.062 - .075	1.878	1.500	.060 - .080
1.813	.751	.025 - .040	1.840	1.008	.090 - .105	1.852	.290	.020 - .030	1.872	.632	.156 - .187	**1.875**	**.757**	**.005 - .010**	1.878	1.505	.010 - .020
1.813	.754	.030 - .040	1.840	1.336	.050 - .075	1.852	.560	.070 - .090	**1.872**	**.756**	**.005 - .010**	1.875	.781	.075 - .090	1.878	1.650	.030 - .040
1.813	.906	.025 - .040	1.840	1.343	.010 - .020	1.852	1.165	.035 - .045	**1.872**	**.891**	**.005 - .010**	1.875	.875	.015 - .030	**1.879**	**.523**	**.005 - .010**
1.813	**.938**	**.005 - .010**	1.840	1.424	.050 - .075	1.852	1.590	.008 - .015	1.872	.909	.010 - .025	1.875	.876	.010 - .020	1.879	1.029	.120 - .135
1.813	1.140	.156 - .187	1.840	1.425	.065 - .080	1.854	1.658	.020 - .030	1.872	1.260	.075 - .135	1.875	.890	.110 - .130	**1.879**	**1.130**	**.005 - .010**
1.813	1.266	.090 - .105	1.840	1.479	.040 - .060	1.855	1.500	.125 - .135	1.872	1.318	.040 - .060	1.875	.891	.040 - .060	**1.879**	**1.140**	**.005 - .010**
1.813	1.323	.010 - .020	1.840	1.519	.040 - .060	1.856	1.263	.105 - .125	**1.872**	**1.509**	**.005 - .010**	1.875	.906	.105 - .125	1.879	1.255	.070 - .090
1.813	1.394	.040 - .060	1.841	.377	.110 - .130	1.857	.586	.020 - .030	**1.872**	**1.513**	**.005 - .010**	1.875	.936	.105 - .135	1.879	1.431	.060 - .070
1.813	1.585	.010 - .020	1.841	.402	.040 - .060	1.857	.710	.090 - .125	1.873	.177	.050 - .070	1.875	1.031	.025 - .040	1.879	1.463	.015 - .030
1.814	1.000	.100 - .125	1.841	1.189	.015 - .040	**1.857**	**1.435**	**.005 - .012**	**1.873**	**.252**	**.005 - .015**	1.875	1.061	.050 - .070	1.879	1.501	.015 - .030
1.814	1.300	.025 - .050	**1.841**	**1.404**	**.005 - .010**	1.858	1.340	.020 - .030	1.873	.386	.090 - .125	1.875	1.072	.070 - .090	1.879	1.563	.025 - .040
1.815	**.323**	**.005 - .016**	**1.841**	**1.407**	**.005 - .010**	1.858	1.360	.025 - .040	**1.873**	**.478**	**.005 - .010**	1.875	1.093	.025 - .040	1.879	1.605	.025 - .040
1.815	.410	.070 - .110	**1.841**	**1.569**	**.005 - .010**	1.859	.389	.050 - .075	1.873	.625	.100 - .125	1.875	1.113	.080 - .104	1.879	1.687	.010 - .020
1.815	.523	.010 - .020	1.842	.378	.100 - .125	**1.859**	**.818**	**.005 - .010**	1.873	.750	.100 - .125	1.875	1.135	.050 - .070	1.880	.585	.156 - .187
1.815	.772	.100 - .125	1.842	.640	.025 - .040	**1.859**	**1.435**	**.005 - .010**	1.873	.844	.105 - .135	1.875	1.140	.010 - .042	**1.880**	**.960**	**.005 - .010**
1.815	.775	.125 - .135	**1.842**	**.828**	**.005 - .010**	1.859	1.642	.060 - .080	1.873	.882	.015 - .030	1.875	1.142	.007 - .016	1.880	1.000	.050 - .070
1.815	1.024	.020 - .040	1.842	1.098	.080 - .100	1.860	.201	.050 - .075	1.873	1.140	.100 - .125	**1.875**	**1.152**	**.005 - .010**	1.880	1.131	.025 - .040
1.815	1.192	.080 - .100	1.842	1.251	.090 - .125	1.860	.620	.105 - .125	1.873	1.260	.065 - .080	1.875	1.156	.032 - .125	1.880	1.193	.015 - .030
1.815	1.523	.015 - .030	1.842	1.531	.040 - .060	1.860	.631	.010 - .020	1.873	1.349	.030 - .050	1.875	1.171	.100 - .125	1.880	1.392	.070 - .080
1.816	.751	.010 - .020	1.842	1.643	.025 - .040	1.860	1.268	.025 - .050	1.873	1.381	.090 - .125	1.875	1.188	.015 - .070	**1.880**	**1.465**	**.005 - .010**
1.816	1.338	.020 - .030	1.843	.316	.015 - .030	1.860	1.345	.030 - .040	1.873	1.386	.100 - .134	1.875	1.244	.040 - .062	**1.880**	**1.759**	**.005 - .010**
1.818	.631	.020 - .030	1.843	.816	.025 - .035	1.860	1.445	.050 - .075	1.873	1.437	.100 - .125	1.875	1.250	.020 - .040	1.880	1.774	.010 - .020
1.818	1.065	.015 - .030	**1.843**	**.880**	**.005 - .010**	**1.861**	**1.446**	**.005 - .010**	1.873	1.444	.062 - .075	**1.875**	**1.254**	**.005 - .010**	1.880	1.814	.015 - .030
1.818	1.404	.025 - .040	1.843	1.188	.020 - .050	1.862	1.510	.012 - .025	**1.873**	**1.508**	**.005 - .020**	1.875	1.258	.030 - .050	1.881	.786	.010 - .025
1.818	1.406	.020 - .030	**1.843**	**1.381**	**.005 - .010**	**1.863**	**.650**	**.005 - .010**	**1.873**	**1.533**	**.005 - .010**	1.875	1.260	.060 - .090	1.881	1.204	.015 - .030
1.818	1.498	.040 - .060	1.843	1.455	.038 - .060	1.863	1.361	.110 - .130	**1.873**	**1.639**	**.005 - .010**	1.875	1.310	.040 - .062	1.881	1.281	.040 - .060
1.818	1.502	.020 - .030	1.843	1.456	.030 - .050	1.863	1.375	.090 - .110	**1.873**	**1.671**	**.005 - .015**	1.875	1.355	.070 - .090	**1.881**	**1.424**	**.005 - .010**
1.818	**1.572**	**.005 - .010**	1.843	1.706	.020 - .040	1.863	1.501	.105 - .125	1.873	1.734	.010 - .020	1.875	1.370	.060 - .083	1.882	.887	.060 - .100
1.819	.450	.010 - .020	1.844	.260	.105 - .125	**1.863**	**1.577**	**.005 - .010**	1.874	.219	.100 - .134	1.875	1.375	.006 - .030	1.883	1.035	.060 - .080
1.819	**1.580**	**.005 - .008**	**1.844**	**.816**	**.005 - .010**	1.865	.354	.070 - .090	**1.874**	**.252**	**.005 - .010**	**1.875**	**1.379**	**.005 - .075**	1.883	1.585	.040 - .060
1.820	.630	.010 - .020	1.844	1.098	.050 - .075	1.865	.770	.050 - .070	1.874	.266	.070 - .090	1.875	1.384	.042 - .062	1.884	1.010	.015 - .040
1.820	**1.013**	**.005 - .010**	1.844	1.100	.030 - .050	1.865	.888	.050 - .062	1.874	.281	.020 - .050	1.875	1.386	.030 - .050	1.884	1.494	.050 - .075
1.820	1.450	.020 - .090	**1.844**	**1.263**	**.005 - .010**	1.865	1.023	.100 - .125	1.874	.282	.015 - .060	1.875	1.453	.040 - .060	1.884	1.577	.040 - .050
1.820	**1.515**	**.005 - .010**	**1.844**	**1.624**	**.005 - .010**	1.865	1.123	.100 - .125	1.874	.375	.100 - .125	1.875	1.502	.105 - .125	1.884	1.585	.030 - .060
1.821	1.006	.050 - .075	1.845	.140	.040 - .060	1.865	1.134	.075 - .100	1.874	.376	.070 - .125	**1.875**	**1.503**	**.005 - .032**	1.885	.327	.025 - .035
1.822	1.586	.030 - .050	1.845	.391	.050 - .070	1.865	1.390	.040 - .060	**1.874**	**.381**	**.005 - .010**	1.875	1.505	.040 - .083	1.885	.376	.060 - .080
1.823	.434	.050 - .070	1.845	.661	.105 - .125	1.865	1.502	.025 - .040	1.874	.398	.030 - .040	1.875	1.512	.105 - .125	1.885	.956	.062 - .090
1.823	1.066	.020 - .040	1.845	1.201	.020 - .030	1.867	.315	.100 - .125	1.874	.409	.100 - .120	1.875	1.550	.020 - .050	1.885	.985	.080 - .105
1.823	1.135	.010 - .100	1.845	1.250	.040 - .060	1.867	.334	.040 - .060	1.874	.440	.170 - .190	1.875	1.568	.060 - .090	1.885	1.060	.042 - .062
1.823	1.205	.020 - .030	1.845	1.312	.048 - .075	1.867	1.387	.040 - .060	1.874	.625	.015 - .030	1.875	1.585	.010 - .020	1.885	1.136	.060 - .080
1.823	1.250	.035 - .050	1.845	1.384	.015 - .030	1.867	1.438	.100 - .125	1.874	.628	.040 - .060	1.875	1.640	.050 - .070	1.885	1.157	.062 - .090
1.824	1.083	.060 - .080	1.845	1.568	.025 - .035	1.868	.897	.040 - .060	1.874	.631	.105 - .125	1.875	1.681	.050 - .070	1.885	1.380	.062 - .090
1.825	**1.140**	**.005 - .010**	**1.845**	**1.569**	**.005 - .010**	1.868	1.063	.040 - .060	**1.874**	**.713**	**.005 - .012**	**1.875**	**1.688**	**.005 - .015**	1.886	.985	.100 - .125
1.827	1.320	.062 - .090	**1.845**	**1.623**	**.005 - .010**	1.869	.380	.040 - .060	1.874	.749	.070 - .090	1.875	1.707	.025 - .040	**1.886**	**1.188**	**.005 - .010**
1.827	1.481	.015 - .025	1.846	.792	.080 - .120	1.869	.405	.020 - .040	1.874	.822	.050 - .062	1.876	.512	.105 - .125	1.886	1.382	.060 - .080
1.828	1.420	.050 - .060	1.846	1.312	.020 - .030	1.869	.501	.110 - .135	1.874	.875	.110 - .130	1.876	.533	.105 - .125	**1.886**	**1.397**	**.005 - .010**
1.829	**1.520**	**.005 - .010**	1.846	1.401	.050 - .070	**1.869**	**1.136**	**.005 - .010**	**1.874**	**.879**	**.005 - .020**	1.876	.659	.080 - .100	**1.886**	**1.398**	**.005 - .010**
1.830	.975	.010 - .020	1.846	1.441	.125 - .156	1.869	1.277	.050 - .105	**1.874**	**.883**	**.005 - .010**	1.876	.669	.100 - .125	1.886	1.446	.050 - .075
1.830	1.059	.105 - .125	**1.847**	**.375**	**.005 - .010**	1.869	1.283	.090 - .105	1.874	.907	.080 - .105	1.876	.754	.062 - .083	1.887	.670	.040 - .060
1.830	1.083	.080 - .100	1.847	1.442	.120 - .135	1.869	1.438	.050 - .062	1.874	.951	.050 - .070	1.876	.765	.125 - .156	1.887	1.186	.010 - .020
1.830	1.530	.050 - .070	**1.848**	**.258**	**.005 - .010**	1.869	1.567	.025 - .040	1.874	1.045	.025 - .040	1.876	1.007	.015 - .032	1.887	1.300	.040 - .060
1.830	1.627	.042 - .060	1.848	.332	.050 - .070	1.870	.080	.020 - .040	1.874	1.180	.030 - .050	1.876	1.129	.015 - .030	**1.888**	**.755**	**.005 - .010**
1.831	1.200	.020 - .030	1.848	.485	.020 - .040	1.870	.315	.105 - .125	1.874	1.202	.015 - .025	1.876	1.156	.105 - .135	1.888	.788	.050 - .070
1.832	.156	.030 - .048	1.849	.375	.090 - .105	1.870	.500	.100 - .125	1.874	1.257	.070 - .090	1.876	1.257	.105 - .135	1.889	.760	.015 - .030
1.832	.764	.015 - .030	1.849	1.081	.060 - .070	1.870	.505	.100 - .125	1.874	1.282	.010 - .070	**1.876**	**1.260**	**.005 - .040**	1.890	.380	.105 - .135
1.833	1.382	.050 - .070	1.849	1.333	.083 - .100	**1.870**	**.642**	**.005 - .010**	**1.874**	**1.331**	**.005 - .010**	1.876	1.380	.010 - .020	**1.890**	**.512**	**.005 - .010**
1.833	1.589	.015 - .030	1.849	1.731	.010 - .020	1.870	.661	.105 - .125	1.874	1.443	.050 - .070	1.876	1.381	.015 - .040	1.890	.648	.105 - .125
1.834	.764	.020 - .032	1.850	.252	.030 - .050	1.870	.696	.060 - .080	1.874	1.450	.150 - .170	1.876	1.382	.020 - .040	1.890	1.023	.010 - .025
1.834	**1.382**	**.005 - .010**	1.850	.366	.050 - .070	1.870	.698	.050 - .075	1.874	1.479	.020 - .030	1.876	1.438	.100 - .125	1.890	1.220	.040 - .090
1.834	**1.384**	**.005 - .010**	**1.850**	**.440**	**.005 - .020**	1.870	.795	.040 - .060	1.874	1.515	.010 - .020	1.876	1.508	.020 - .060	1.890	1.256	.040 - .060
1.834	1.574	.015 - .030	1.850	.502	.010 - .020	1.870	.880	.042 - .062	1.874	1.595	.030 - .045	1.876	1.592	.090 - .105	1.890	1.378	.030 - .050
1.835	.255	.020 - .030	1.850	.505	.010 - .020	**1.870**	**.901**	**.005 - .010**	1.874	1.625	.015 - .030	1.876	1.645	.020 - .040	**1.890**	**1.384**	**.005 - .010**
1.835	**.430**	**.005 - .010**	**1.850**	**.510**	**.005 - .010**	1.870	.909	.015 - .030	1.874	1.627	.025 - .040	1.876	1.752	.020 - .030	1.890	1.389	.010 - .020
1.835	1.382	.030 - .060	1.850	.561	.170 - .190	**1.870**	**.911**	**.005 - .010**	1.874	1.752	.010 - .020	1.876	1.764	.010 - .020	1.890	1.496	.020 - .040
1.835	**1.501**	**.005 - .010**	1.850	.625	.030 - .040	1.870	1.004	.020 - .030	1.875	.159	.010 - .020	1.877	.320	.100 - .125	1.890	1.510	.010 - .020
1.835	1.620	.010 - .020	1.850	.626	.010 - .020	1.870	1.032	.105 - .125	1.875	.204	.100 - .125	1.877	.525	.015 - .030	**1.890**	**1.562**	**.005 - .010**
1.836	**1.646**	**.005 - .010**	1.850	.967	.100 - .120	1.870	1.196	.010 - .020	1.875	.250	.050 - .105	1.877	1.008	.015 - .030	1.890	1.614	.040 - .060
1.837	**1.343**	**.005 - .010**	1.850	1.071	.060 - .080	1.870	1.273	.010 - .020	1.875	.317	.015 - .030	**1.877**	**1.376**	**.005 - .010**	1.891	1.000	.008 - .015

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

New tools added continually. Call for sizes not listed — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
1.891	1.719	.010 - .020	1.906	1.557	.015 - .030	1.925	1.554	.050 - .075	1.939	1.664	.020 - .030	1.962	1.735	.008 - .020	1.975	1.821	.020 - .030
1.892	**.989**	**.005 - .010**	1.906	1.590	.015 - .025	1.925	1.715	.062 - .083	1.940	.687	.090 - .105	**1.963**	**.281**	**.005 - .010**	1.975	1.879	.010 - .020
1.892	1.367	.100 - .125	1.907	.365	.060 - .080	1.926	1.554	.020 - .040	1.940	.880	.065 - .080	**1.963**	**.481**	**.005 - .010**	1.976	.759	.030 - .050
1.892	**1.719**	**.005 - .010**	1.907	1.157	.120 - .134	1.926	1.684	.032 - .060	1.940	1.155	.080 - .100	1.963	1.565	.025 - .040	1.976	1.289	.040 - .060
1.893	.508	.104 - .125	1.907	1.485	.070 - .090	1.926	1.691	.030 - .042	**1.940**	**1.260**	**.005 - .010**	1.964	.281	.015 - .030	1.976	1.673	.030 - .050
1.893	.535	.100 - .125	1.908	.877	.010 - .020	1.928	.533	.008 - .020	1.940	1.261	.030 - .070	1.964	1.576	.015 - .025	**1.977**	**1.775**	**.005 - .010**
1.894	.868	.020 - .030	1.909	.802	.080 - .100	1.928	1.265	.025 - .040	1.940	1.402	.015 - .030	**1.964**	**1.579**	**.005 - .040**	1.977	1.798	.010 - .020
1.894	**1.180**	**.005 - .010**	1.909	1.250	.020 - .040	**1.928**	**1.585**	**.005 - .010**	1.940	1.410	.040 - .060	1.964	1.756	.020 - .030	1.978	1.550	.015 - .030
1.894	1.535	.050 - .070	**1.909**	**1.275**	**.005 - .010**	1.928	1.664	.070 - .090	**1.940**	**1.769**	**.005 - .010**	1.964	1.790	.012 - .020	1.978	1.694	.020 - .030
1.895	.378	.100 - .125	**1.909**	**1.348**	**.005 - .010**	1.929	1.550	.015 - .025	1.941	1.627	.065 - .080	**1.965**	**.281**	**.005 - .010**	1.979	.395	.160 - .190
1.895	**1.159**	**.005 - .010**	1.910	1.159	.040 - .060	1.930	.375	.032 - .048	1.941	1.629	.075 - .090	1.965	.815	.060 - .080	**1.979**	**1.660**	**.005 - .010**
1.895	1.582	.015 - .030	1.910	1.437	.100 - .125	1.930	.451	.015 - .025	1.942	.314	.105 - .125	1.965	1.427	.030 - .050	1.979	1.775	.020 - .030
1.896	.508	.105 - .135	1.910	1.438	.105 - .125	1.930	1.181	.050 - .070	1.942	1.157	.080 - .100	1.965	1.491	.015 - .030	1.980	.267	.125 - .135
1.896	**.752**	**.005 - .010**	1.910	1.610	.010 - .020	1.930	1.478	.010 - .020	1.942	1.746	.015 - .030	1.965	1.498	.048 - .062	1.980	1.060	.010 - .020
1.896	**.761**	**.005 - .010**	**1.911**	**1.631**	**.005 - .010**	1.930	1.532	.010 - .020	**1.942**	**1.787**	**.005 - .010**	**1.965**	**1.503**	**.005 - .010**	1.980	1.478	.050 - .070
1.897	**.309**	**.005 - .010**	1.912	1.758	.030 - .050	1.930	1.600	.025 - .042	1.943	.764	.105 - .125	**1.965**	**1.513**	**.005 - .010**	1.980	1.500	.050 - .070
1.897	**1.414**	**.005 - .010**	1.912	1.801	.020 - .030	**1.930**	**1.650**	**.005 - .010**	1.944	.800	.156 - .187	1.965	1.586	.020 - .030	**1.980**	**1.507**	**.005 - .010**
1.898	**.305**	**.005 - .010**	**1.913**	**1.096**	**.005 - .010**	**1.930**	**1.824**	**.005 - .030**	1.944	1.628	.025 - .040	1.965	1.860	.007 - .030	**1.980**	**1.546**	**.005 - .010**
1.898	.511	.120 - .135	**1.913**	**1.755**	**.005 - .010**	1.930	1.880	.010 - .020	1.945	.426	.050 - .070	**1.966**	**1.006**	**.005 - .010**	1.980	1.601	.010 - .020
1.898	.629	.010 - .020	**1.913**	**1.779**	**.005 - .010**	1.931	.181	.015 - .025	1.945	1.477	.010 - .020	**1.966**	**1.206**	**.005 - .010**	**1.980**	**1.778**	**.005 - .010**
1.898	.636	.120 - .135	1.915	.255	.020 - .030	1.931	.566	.156 - .190	**1.945**	**1.792**	**.005 - .020**	1.967	.394	.080 - .100	1.981	.831	.156 - .187
1.898	**.754**	**.005 - .010**	1.915	1.259	.100 - .125	**1.931**	**1.595**	**.005 - .020**	**1.946**	**1.780**	**.005 - .010**	1.967	.502	.010 - .020	1.981	1.519	.040 - .060
1.898	.910	.050 - .075	1.915	1.346	.040 - .060	1.932	1.126	.130 - .150	**1.947**	**1.661**	**.005 - .010**	1.967	1.113	.025 - .040	**1.981**	**1.736**	**.005 - .010**
1.899	**.194**	**.005 - .010**	1.915	1.586	.007 - .015	1.932	1.626	.040 - .060	1.948	1.083	.070 - .090	**1.967**	**1.519**	**.005 - .010**	1.982	1.609	.083 - .104
1.899	.340	.156 - .190	1.916	.966	.050 - .070	1.932	1.695	.025 - .040	**1.948**	**1.578**	**.005 - .010**	1.967	1.596	.030 - .050	1.983	.515	.030 - .050
1.899	.380	.030 - .050	1.917	1.258	.125 - .156	**1.932**	**1.779**	**.005 - .010**	1.948	1.749	.010 - .020	1.967	1.687	.010 - .020	**1.983**	**.914**	**.005 - .010**
1.899	.437	.156 - .190	1.918	1.385	.015 - .025	1.933	.750	.130 - .150	**1.948**	**1.820**	**.005 - .020**	1.968	.283	.050 - .070	1.983	1.628	.020 - .040
1.899	.629	.015 - .030	1.918	1.410	.062 - .083	1.933	1.504	.015 - .030	1.949	.459	.020 - .030	1.968	.386	.110 - .135	**1.984**	**.229**	**.005 - .010**
1.899	**.630**	**.005 - .010**	1.918	1.519	.050 - .070	1.933	1.556	.050 - .060	**1.949**	**.820**	**.005 - .010**	**1.968**	**.505**	**.005 - .010**	**1.984**	**.395**	**.005 - .125**
1.899	1.015	.040 - .060	**1.918**	**1.632**	**.005 - .010**	1.933	1.565	.030 - .050	1.949	1.062	.030 - .050	1.968	.630	.105 - .125	1.984	.395	.126 - .190
1.900	.253	.050 - .060	1.919	1.390	.060 - .080	1.934	1.002	.030 - .050	1.949	1.119	.080 - .100	1.968	.827	.105 - .125	**1.984**	**1.544**	**.005 - .015**
1.900	.378	.030 - .075	1.919	1.501	.010 - .020	1.934	1.562	.050 - .062	**1.949**	**1.526**	**.005 - .010**	1.968	.866	.170 - .190	1.985	1.206	.070 - .090
1.900	**.502**	**.005 - .010**	1.919	1.595	.060 - .080	1.935	.473	.060 - .085	1.949	1.620	.030 - .040	**1.968**	**.984**	**.005 - .010**	1.985	1.398	.010 - .030
1.900	**.626**	**.005 - .020**	1.919	1.754	.015 - .030	1.935	.500	.060 - .083	1.949	1.664	.035 - .050	**1.968**	**.995**	**.005 - .010**	1.985	1.590	.010 - .020
1.900	**.630**	**.005 - .010**	1.920	.859	.080 - .104	1.935	.651	.020 - .040	1.950	.190	.015 - .040	1.968	1.008	.030 - .050	1.985	1.695	.040 - .060
1.900	**.855**	**.005 - .010**	1.920	1.000	.070 - .090	1.935	1.032	.156 - .187	**1.950**	**.320**	**.005 - .010**	1.968	1.026	.090 - .100	1.985	1.860	.010 - .020
1.900	.870	.060 - .080	1.920	1.263	.062 - .083	**1.935**	**1.190**	**.005 - .010**	**1.950**	**.490**	**.005 - .010**	**1.968**	**1.028**	**.005 - .010**	**1.986**	**.540**	**.005 - .010**
1.900	.881	.090 - .125	1.920	1.410	.060 - .090	1.935	1.309	.105 - .125	1.950	.505	.125 - .156	**1.968**	**1.150**	**.005 - .010**	1.987	.671	.100 - .120
1.900	1.002	.075 - .105	1.920	1.411	.090 - .105	1.935	1.500	.090 - .100	**1.950**	**.810**	**.005 - .010**	**1.968**	**1.183**	**.005 - .010**	1.987	.888	.050 - .070
1.900	1.006	.040 - .060	1.920	1.471	.080 - .100	1.935	1.555	.060 - .083	**1.950**	**1.408**	**.005 - .010**	1.968	1.253	.030 - .050	1.987	1.313	.030 - .040
1.900	1.095	.040 - .060	1.920	1.635	.030 - .040	1.935	1.656	.010 - .020	**1.950**	**1.600**	**.005 - .050**	**1.968**	**1.394**	**.005 - .010**	1.988	.880	.050 - .070
1.900	1.256	.080 - .104	1.920	1.826	.010 - .020	1.935	1.661	.032 - .048	1.950	1.820	.025 - .035	1.968	1.401	.060 - .070	**1.988**	**.899**	**.005 - .010**
1.900	1.320	.040 - .060	1.921	.438	.090 - .110	1.935	1.687	.090 - .105	1.951	.504	.110 - .130	1.968	1.501	.015 - .030	**1.988**	**1.497**	**.005 - .010**
1.900	1.321	.040 - .060	1.921	.566	.015 - .030	1.936	.688	.025 - .040	1.951	1.000	.105 - .135	1.968	1.578	.015 - .125	1.988	1.575	.050 - .075
1.900	1.375	.050 - .075	1.921	1.500	.010 - .020	1.936	.780	.060 - .080	1.951	1.201	.030 - .050	1.968	1.625	.015 - .030	1.988	1.586	.020 - .042
1.900	1.453	.020 - .040	1.921	1.671	.062 - .083	**1.936**	**.818**	**.005 - .060**	**1.951**	**1.781**	**.005 - .010**	1.968	1.692	.040 - .060	1.989	.750	.020 - .030
1.900	1.500	.006 - .060	1.922	.317	.015 - .030	1.936	1.186	.050 - .075	1.952	.812	.040 - .060	**1.968**	**1.731**	**.005 - .010**	1.989	.786	.105 - .135
1.900	1.501	.090 - .105	1.922	.565	.150 - .170	1.936	1.564	.060 - .080	1.952	1.055	.020 - .040	**1.969**	**.502**	**.005 - .010**	1.989	.875	.100 - .125
1.900	1.530	.010 - .020	1.922	.972	.080 - .104	1.936	1.579	.015 - .042	1.952	1.592	.030 - .050	1.969	.881	.015 - .030	1.989	1.753	.030 - .050
1.900	1.600	.030 - .050	1.922	1.079	.080 - .104	1.936	1.586	.090 - .100	1.953	1.375	.040 - .060	1.969	1.339	.050 - .060	**1.990**	**.245**	**.005 - .010**
1.900	1.628	.030 - .050	1.922	1.176	.080 - .104	1.936	1.656	.050 - .070	**1.953**	**1.421**	**.005 - .010**	1.969	1.380	.070 - .090	1.990	.281	.125 - .135
1.900	1.650	.025 - .060	1.922	1.341	.080 - .104	**1.936**	**1.719**	**.005 - .010**	1.954	.377	.050 - .075	1.969	1.440	.010 - .020	**1.990**	**.317**	**.005 - .010**
1.900	1.651	.080 - .100	1.922	1.410	.080 - .104	**1.936**	**1.740**	**.005 - .010**	1.954	.421	.050 - .070	1.969	1.468	.010 - .020	1.990	.318	.007 - .012
1.900	**1.660**	**.005 - .010**	1.923	.390	.015 - .030	1.937	.651	.105 - .125	1.954	1.108	.125 - .156	1.969	1.469	.030 - .070	**1.990**	**.526**	**.005 - .010**
1.901	.626	.025 - .040	1.923	.881	.105 - .135	1.937	1.015	.075 - .090	**1.954**	**1.627**	**.005 - .010**	1.969	1.470	.105 - .125	1.990	.651	.105 - .135
1.901	.726	.105 - .125	1.923	1.181	.025 - .040	1.937	1.021	.156 - .187	1.955	.421	.050 - .070	1.969	1.628	.015 - .030	1.990	.688	.050 - .070
1.901	.760	.120 - .140	1.923	1.262	.080 - .104	**1.937**	**1.079**	**.005 - .010**	1.955	1.004	.140 - .160	1.969	1.657	.050 - .070	**1.990**	**.754**	**.005 - .010**
1.901	.781	.105 - .125	1.923	1.533	.050 - .070	1.937	1.157	.020 - .040	1.955	1.513	.020 - .042	1.969	1.692	.030 - .050	**1.990**	**.893**	**.005 - .010**
1.901	1.501	.010 - .020	1.923	1.714	.010 - .020	1.937	1.260	.040 - .062	1.955	1.519	.080 - .104	1.970	.413	.105 - .125	1.990	1.376	.040 - .060
1.902	**.631**	**.005 - .010**	1.924	.315	.015 - .030	**1.937**	**1.283**	**.005 - .010**	**1.955**	**1.780**	**.005 - .010**	1.970	.556	.030 - .050	1.990	1.379	.093 - .125
1.902	1.101	.040 - .062	1.924	.691	.050 - .070	1.937	1.284	.015 - .030	1.956	.995	.050 - .090	1.970	.594	.010 - .020	1.990	1.519	.060 - .080
1.902	1.139	.090 - .125	1.924	.860	.062 - .083	1.937	1.399	.030 - .050	**1.956**	**1.520**	**.005 - .010**	1.970	.938	.090 - .110	1.990	1.779	.015 - .030
1.902	1.256	.083 - .104	1.924	.973	.062 - .083	1.937	1.436	.030 - .050	1.956	1.564	.010 - .015	**1.970**	**1.427**	**.005 - .010**	1.991	.317	.105 - .130
1.902	**1.570**	**.005 - .010**	1.924	1.068	.025 - .040	1.937	1.498	.025 - .040	1.957	1.415	.030 - .050	1.970	1.428	.020 - .040	1.991	.653	.090 - .120
1.903	.485	.025 - .040	1.924	1.080	.062 - .083	**1.937**	**1.527**	**.005 - .010**	1.958	.390	.135 - .156	1.970	1.500	.050 - .070	1.991	.687	.030 - .050
1.903	.719	.010 - .125	1.924	1.177	.062 - .083	1.937	1.528	.050 - .075	**1.959**	**1.861**	**.005 - .010**	**1.970**	**1.630**	**.005 - .010**	1.991	.998	.015 - .050
1.903	1.031	.050 - .070	1.924	1.180	.062 - .083	1.937	1.657	.010 - .020	1.960	.754	.120 - .134	1.970	1.692	.010 - .020	1.991	1.325	.020 - .040
1.903	1.404	.015 - .025	1.924	1.261	.050 - .070	1.937	1.665	.050 - .070	1.960	.870	.150 - .170	1.971	1.268	.093 - .125	**1.992**	**.419**	**.005 - .010**
1.904	1.510	.025 - .040	1.924	1.263	.062 - .083	1.937	1.733	.040 - .060	1.960	1.011	.105 - .120	**1.971**	**1.541**	**.005 - .030**	1.992	.560	.010 - .020
1.904	1.565	.010 - .020	1.924	1.341	.062 - .083	**1.937**	**1.809**	**.005 - .010**	1.960	1.065	.070 - .090	1.972	.379	.015 - .030	1.992	.999	.020 - .030
1.905	**1.160**	**.005 - .010**	1.924	1.410	.062 - .083	1.938	.319	.015 - .030	1.960	1.500	.020 - .040	1.972	.505	.015 - .030	1.992	1.313	.040 - .060
1.905	**1.510**	**.005 - .010**	1.925	.328	.030 - .040	**1.938**	**1.395**	**.005 - .010**	1.960	1.584	.010 - .020	1.972	.875	.105 - .125	1.993	.406	.030 - .040
1.905	1.590	.010 - .030	1.925	.564	.010 - .020	1.938	1.468	.030 - .050	1.960	1.619	.020 - .040	1.972	1.130	.015 - .030	1.993	.410	.010 - .015
1.905	1.627	.025 - .040	1.925	.573	.015 - .030	1.938	1.502	.025 - .040	**1.960**	**1.642**	**.005 - .010**	1.972	1.250	.093 - .125	1.993	.474	.030 - .050
1.905	1.640	.080 - .100	1.925	.690	.050 - .070	**1.938**	**1.758**	**.005 - .010**	**1.960**	**1.674**	**.005 - .010**	1.972	1.579	.030 - .040	1.993	.499	.090 - .110
1.906	.194	.070 - .090	1.925	.754	.060 - .080	**1.938**	**1.809**	**.005 - .010**	**1.960**	**1.862**	**.005 - .010**	1.974	.408	.015 - .030	**1.993**	**.520**	**.005 - .010**
1.906	.316	.060 - .080	**1.925**	**1.253**	**.005 - .010**	1.939	.126	.030 - .050	1.961	1.188	.010 - .020	**1.974**	**1.170**	**.005 - .010**	**1.993**	**1.017**	**.005 - .010**
1.906	.381	.090 - .120	1.925	1.317	.020 - .040	1.939	1.062	.060 - .070	1.961	1.300	.020 - .030	**1.974**	**1.284**	**.005 - .010**	1.993	1.501	.010 - .020
1.906	.409	.050 - .070	1.925	1.391	.025 - .040	1.939	1.380	.110 - .130	1.961	1.312	.050 - .083	**1.974**	**1.503**	**.005 - .010**	**1.993**	**1.664**	**.005 - .010**
1.906	1.314	.080 - .105	1.925	1.510	.010 - .020	1.939	1.578	.030 - .050	1.961	1.584	.090 - .125	1.975	.755	.025 - .040	**1.993**	**1.933**	**.005 - .010**

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

For non-metallic materials, contact BOKER'S — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
1.994	**.412**	**.005 - .010**	1.998	1.750	.050 - .070	2.000	.594	.170 - .190	2.000	1.402	.105 - .125	**2.007**	**.826**	**.005 - .010**	2.044	1.025	.050 - .070
1.994	.885	.110 - .135	**1.998**	**1.789**	**.005 - .010**	2.000	.619	.015 - .030	**2.000**	**1.450**	**.005 - .010**	2.007	1.533	.040 - .060	2.044	1.826	.010 - .020
1.994	1.382	.040 - .060	**1.999**	**.193**	**.005 - .010**	2.000	.620	.040 - .060	**2.000**	**1.499**	**.005 - .010**	2.008	.765	.105 - .125	2.045	.344	.040 - .060
1.994	1.475	.010 - .020	**1.999**	**.238**	**.005 - .015**	2.000	.625	.100 - .125	**2.000**	**1.500**	**.005 - .125**	**2.008**	**1.319**	**.005 - .010**	**2.045**	**.722**	**.005 - .030**
1.994	1.476	.010 - .020	1.999	.280	.120 - .135	2.000	.626	.015 - .030	2.000	1.502	.010 - .020	**2.008**	**1.392**	**.005 - .012**	**2.045**	**.724**	**.005 - .050**
1.994	1.629	.010 - .020	**1.999**	**.310**	**.005 - .010**	2.000	.627	.040 - .060	2.000	1.511	.090 - .125	2.008	1.676	.070 - .090	2.045	1.344	.040 - .060
1.994	1.662	.010 - .020	1.999	.313	.050 - .070	2.000	.628	.020 - .040	2.000	1.513	.015 - .030	2.009	.239	.040 - .060	**2.045**	**1.703**	**.005 - .010**
1.994	**1.789**	**.005 - .010**	1.999	.388	.105 - .135	2.000	.632	.010 - .020	**2.000**	**1.515**	**.005 - .060**	2.009	1.783	.070 - .090	2.045	1.730	.010 - .020
1.994	1.885	.020 - .040	1.999	.406	.160 - .190	**2.000**	**.636**	**.005 - .010**	**2.000**	**1.536**	**.005 - .010**	2.009	1.804	.030 - .050	**2.045**	**1.881**	**.005 - .010**
1.994	**1.933**	**.005 - .010**	1.999	.407	.100 - .125	2.000	.644	.090 - .105	**2.000**	**1.589**	**.005 - .010**	2.010	.567	.105 - .125	2.046	1.536	.060 - .080
1.995	**.395**	**.005 - .010**	1.999	.452	.100 - .125	2.000	.657	.100 - .125	2.000	1.625	.050 - .060	**2.010**	**1.084**	**.005 - .010**	2.046	1.611	.070 - .090
1.995	**.404**	**.005 - .010**	1.999	.484	.070 - .090	2.000	.670	.090 - .125	2.000	1.626	.105 - .125	2.010	1.470	.050 - .070	2.046	1.730	.020 - .030
1.995	.405	.040 - .060	1.999	.515	.156 - .187	2.000	.685	.080 - .105	**2.000**	**1.635**	**.005 - .015**	2.010	1.699	.050 - .070	2.047	.551	.060 - .080
1.995	.453	.060 - .080	1.999	.562	.100 - .125	2.000	.692	.090 - .120	**2.000**	**1.649**	**.005 - .020**	2.013	1.003	.015 - .030	2.047	.747	.015 - .030
1.995	**.634**	**.005 - .010**	1.999	.667	.030 - .040	2.000	.700	.020 - .030	**2.000**	**1.654**	**.005 - .105**	2.013	1.502	.020 - .040	2.047	.807	.070 - .090
1.995	.750	.105 - .125	1.999	.687	.156 - .187	2.000	.750	.105 - .125	2.000	1.670	.025 - .040	**2.013**	**1.658**	**.005 - .010**	2.047	.828	.025 - .040
1.995	.886	.090 - .120	1.999	.691	.120 - .140	2.000	.752	.010 - .020	**2.000**	**1.695**	**.005 - .010**	2.015	1.383	.030 - .040	2.047	.965	.025 - .040
1.995	1.000	.030 - .050	1.999	.749	.025 - .040	**2.000**	**.753**	**.005 - .010**	2.000	1.749	.010 - .060	**2.016**	**1.687**	**.005 - .010**	2.047	.985	.070 - .080
1.995	1.128	.120 - .135	1.999	.750	.156 - .187	**2.000**	**.758**	**.005 - .010**	2.000	1.755	.080 - .100	2.018	1.510	.030 - .050	2.047	1.102	.060 - .080
1.995	1.500	.048 - .062	1.999	.753	.020 - .030	2.000	.761	.090 - .110	2.000	1.780	.015 - .040	2.019	.502	.030 - .050	**2.047**	**1.274**	**.005 - .010**
1.995	1.636	.015 - .030	1.999	.797	.020 - .040	**2.000**	**.779**	**.005 - .010**	**2.000**	**1.810**	**.005 - .020**	2.019	.508	.050 - .070	2.047	1.417	.060 - .080
1.995	1.663	.020 - .040	1.999	.813	.135 - .156	2.000	.780	.015 - .030	2.000	1.843	.010 - .025	2.019	1.623	.015 - .030	2.047	1.692	.060 - .080
1.995	1.758	.015 - .030	1.999	.937	.075 - .090	**2.000**	**.781**	**.005 - .060**	2.000	2.064	.015 - .030	2.020	.280	.100 - .125	2.047	1.773	.015 - .030
1.995	1.818	.015 - .030	1.999	.977	.015 - .030	**2.000**	**.786**	**.005 - .010**	2.001	.198	.010 - .020	2.020	1.551	.080 - .100	2.047	1.811	.025 - .040
1.996	**.381**	**.005 - .010**	1.999	1.000	.030 - .040	2.000	.797	.020 - .040	2.001	.250	.100 - .125	2.020	1.682	.015 - .030	**2.048**	**.296**	**.005 - .010**
1.996	.391	.105 - .125	**1.999**	**1.015**	**.005 - .010**	2.000	.812	.080 - .105	2.001	.315	.105 - .120	**2.021**	**.604**	**.005 - .010**	**2.048**	**.626**	**.005 - .010**
1.996	**.647**	**.005 - .010**	1.999	1.033	.160 - .190	2.000	.875	.010 - .020	2.001	.345	.125 - .135	**2.021**	**1.014**	**.005 - .010**	2.048	1.260	.070 - .090
1.996	**.768**	**.005 - .010**	**1.999**	**1.034**	**.005 - .010**	2.000	.876	.105 - .125	2.001	.375	.105 - .125	2.022	1.184	.010 - .020	2.048	1.378	.030 - .050
1.996	**.821**	**.005 - .010**	**1.999**	**1.143**	**.005 - .010**	2.000	.880	.010 - .020	2.001	.381	.020 - .030	2.024	.810	.030 - .050	**2.048**	**1.387**	**.005 - .010**
1.996	**1.045**	**.005 - .010**	1.999	1.289	.025 - .040	2.000	.906	.015 - .060	**2.001**	**.447**	**.005 - .010**	2.025	1.531	.050 - .070	2.048	1.393	.070 - .090
1.996	1.120	.135 - .156	**1.999**	**1.308**	**.005 - .020**	2.000	.977	.025 - .040	2.001	.499	.170 - .190	2.025	1.600	.010 - .020	2.048	1.748	.020 - .040
1.996	**1.404**	**.005 - .010**	1.999	1.504	.025 - .042	2.000	.979	.020 - .040	2.001	.501	.015 - .030	2.027	1.575	.015 - .030	**2.049**	**1.209**	**.005 - .010**
1.996	1.504	.010 - .020	**1.999**	**1.560**	**.005 - .010**	2.000	1.000	.055 - .070	2.001	.592	.120 - .135	**2.029**	**1.222**	**.005 - .010**	**2.049**	**1.854**	**.005 - .010**
1.996	**1.666**	**.005 - .010**	1.999	1.685	.020 - .030	**2.000**	**1.005**	**.005 - .010**	**2.001**	**.750**	**.005 - .010**	2.029	1.626	.050 - .070	2.050	.140	.060 - .080
1.996	1.751	.050 - .070	1.999	1.692	.030 - .040	2.000	1.006	.083 - .105	**2.001**	**.755**	**.005 - .010**	**2.029**	**1.755**	**.005 - .010**	**2.050**	**.253**	**.005 - .010**
1.996	1.850	.010 - .020	**2.000**			2.000	1.014	.035 - .060	**2.001**	**.813**	**.005 - .010**	2.030	.936	.050 - .070	2.050	.406	.105 - .125
1.997	.407	.050 - .070				2.000	1.015	.050 - .075	2.001	.814	.060 - .080	2.030	1.060	.050 - .070	**2.050**	**.506**	**.005 - .010**
1.997	.500	.105 - .125				2.000	1.020	.015 - .030	2.001	.942	.105 - .135	2.030	1.184	.050 - .070	2.050	.626	.010 - .020
1.997	**.561**	**.005 - .010**				2.000	1.030	.010 - .125	2.001	1.020	.015 - .030	2.030	1.310	.050 - .070	2.050	.627	.010 - .020
1.997	.623	.156 - .190				2.000	1.031	.050 - .070	2.001	1.105	.080 - .104	2.030	1.434	.050 - .070	**2.050**	**.629**	**.005 - .010**
1.997	**.700**	**.005 - .010**	**2.000**	**.160**	**.005 - .015**	2.000	1.060	.015 - .030	2.001	1.155	.105 - .125	**2.030**	**1.500**	**.005 - .010**	**2.050**	**.630**	**.005 - .020**
1.997	.720	.020 - .035	2.000	.165	.050 - .070	2.000	1.062	.100 - .125	2.001	1.282	.105 - .125	2.030	1.715	.016 - .030	2.050	.731	.010 - .020
1.997	.766	.010 - .020	**2.000**	**.180**	**.005 - .010**	2.000	1.064	.100 - .125	2.001	1.312	.050 - .070	**2.031**	**.936**	**.005 - .010**	2.050	1.425	.030 - .050
1.997	**.913**	**.005 - .010**	2.000	.194	.036 - .050	2.000	1.075	.015 - .030	2.001	1.397	.015 - .025	**2.031**	**1.755**	**.005 - .030**	2.050	1.660	.075 - .090
1.997	1.021	.030 - .050	2.000	.205	.060 - .125	**2.000**	**1.090**	**.005 - .010**	**2.001**	**1.505**	**.005 - .010**	**2.032**	**.489**	**.005 - .010**	2.050	1.708	.040 - .060
1.997	1.061	.050 - .075	2.000	.210	.105 - .135	2.000	1.108	.040 - .060	2.001	1.583	.025 - .040	**2.032**	**.880**	**.005 - .010**	2.052	.626	.025 - .040
1.997	**1.071**	**.005 - .010**	2.000	.250	.025 - .125	2.000	1.125	.015 - .062	2.001	1.602	.030 - .050	2.033	.877	.025 - .040	2.054	1.274	.010 - .020
1.997	**1.254**	**.005 - .010**	**2.000**	**.253**	**.005 - .010**	2.000	1.131	.030 - .062	**2.002**	**.101**	**.005 - .010**	2.033	1.525	.010 - .030	2.054	1.384	.025 - .040
1.997	**1.414**	**.005 - .010**	2.000	.255	.030 - .060	2.000	1.158	.025 - .042	2.002	.380	.090 - .134	2.033	1.562	.020 - .030	2.054	1.632	.015 - .030
1.997	1.503	.080 - .105	2.000	.261	.060 - .080	2.000	1.165	.020 - .040	2.002	.437	.050 - .075	2.033	1.745	.010 - .020	**2.055**	**1.570**	**.005 - .010**
1.997	**1.584**	**.005 - .010**	2.000	.266	.040 - .060	**2.000**	**1.166**	**.005 - .010**	2.002	.533	.156 - .187	2.033	1.845	.040 - .060	2.056	.528	.048 - .062
1.997	**1.849**	**.005 - .010**	2.000	.270	.080 - .100	2.000	1.190	.080 - .187	2.002	.665	.105 - .120	2.034	1.574	.020 - .040	2.057	.390	.040 - .060
1.998	**.328**	**.005 - .010**	2.000	.282	.060 - .080	**2.000**	**1.199**	**.005 - .010**	2.002	1.276	.050 - .070	2.035	.423	.030 - .050	2.058	.482	.048 - .062
1.998	**.426**	**.005 - .010**	2.000	.291	.050 - .075	2.000	1.201	.080 - .100	2.002	1.381	.020 - .030	2.035	.788	.105 - .125	2.058	.519	.156 - .190
1.998	.441	.120 - .135	**2.000**	**.298**	**.005 - .010**	2.000	1.208	.050 - .075	2.002	1.390	.010 - .020	2.035	1.002	.090 - .110	2.058	.630	.105 - .135
1.998	.500	.020 - .050	2.000	.299	.020 - .040	**2.000**	**1.217**	**.005 - .010**	2.002	1.501	.050 - .075	2.035	1.690	.040 - .060	2.058	1.010	.010 - .020
1.998	.531	.120 - .135	**2.000**	**.316**	**.005 - .010**	2.000	1.220	.035 - .060	2.002	1.530	.025 - .035	2.035	1.750	.050 - .075	2.058	1.196	.050 - .070
1.998	.562	.040 - .060	2.000	.328	.070 - .090	2.000	1.248	.156 - .187	2.002	1.560	.105 - .135	2.035	1.834	.025 - .042	2.058	1.515	.020 - .040
1.998	**.662**	**.005 - .010**	2.000	.344	.060 - .075	2.000	1.250	.008 - .040	2.002	1.630	.050 - .070	2.035	1.933	.020 - .030	2.058	1.671	.050 - .060
1.998	.690	.050 - .075	2.000	.376	.050 - .060	2.000	1.253	.010 - .156	2.002	1.733	.080 - .105	2.036	1.557	.040 - .062	2.059	.402	.030 - .060
1.998	.755	.135 - .156	2.000	.380	.160 - .190	2.000	1.256	.050 - .070	**2.002**	**1.758**	**.005 - .010**	**2.037**	**1.588**	**.005 - .010**	2.059	1.671	.030 - .060
1.998	.881	.015 - .030	2.000	.398	.010 - .020	2.000	1.262	.083 - .104	2.002	1.812	.070 - .090	2.037	1.676	.050 - .070	2.059	1.750	.050 - .075
1.998	.882	.020 - .030	2.000	.399	.020 - .040	2.000	1.263	.050 - .075	**2.002**	**1.828**	**.005 - .010**	2.038	.989	.080 - .100	**2.059**	**1.759**	**.005 - .010**
1.998	1.021	.070 - .090	2.000	.405	.100 - .135	2.000	1.264	.090 - .120	2.003	.161	.025 - .040	2.038	1.875	.015 - .030	2.060	.221	.050 - .075
1.998	**1.029**	**.005 - .010**	2.000	.415	.090 - .105	2.000	1.280	.040 - .090	2.003	.752	.075 - .090	2.039	.281	.030 - .050	**2.060**	**.254**	**.005 - .125**
1.998	**1.077**	**.005 - .010**	2.000	.437	.050 - .070	2.000	1.281	.040 - .060	**2.003**	**.843**	**.005 - .010**	2.039	1.527	.105 - .135	2.060	.254	.126 - .130
1.998	1.093	.025 - .040	2.000	.438	.156 - .190	**2.000**	**1.282**	**.005 - .010**	2.003	1.077	.050 - .070	2.040	.990	.015 - .030	**2.060**	**.312**	**.005 - .010**
1.998	1.124	.030 - .070	2.000	.451	.090 - .125	2.000	1.285	.025 - .040	2.003	1.126	.070 - .090	**2.040**	**1.383**	**.005 - .010**	**2.060**	**.390**	**.005 - .010**
1.998	**1.126**	**.005 - .010**	2.000	.484	.170 - .190	2.000	1.290	.157 - .187	**2.003**	**1.481**	**.005 - .015**	**2.040**	**1.410**	**.005 - .007**	**2.060**	**.443**	**.005 - .010**
1.998	1.136	.110 - .135	2.000	.503	.105 - .125	**2.000**	**1.291**	**.005 - .010**	2.003	1.557	.020 - .040	2.040	1.620	.070 - .105	2.060	.530	.050 - .075
1.998	1.248	.125 - .156	2.000	.504	.010 - .060	**2.000**	**1.311**	**.005 - .010**	2.003	1.694	.020 - .030	**2.040**	**1.625**	**.005 - .010**	2.060	.800	.025 - .036
1.998	1.409	.025 - .040	**2.000**	**.505**	**.005 - .010**	2.000	1.321	.080 - .100	2.003	1.781	.010 - .020	2.041	1.500	.040 - .060	2.060	.890	.080 - .104
1.998	1.417	.030 - .050	2.000	.506	.020 - .030	2.000	1.330	.080 - .104	2.004	.756	.040 - .060	2.041	1.773	.020 - .030	2.060	1.141	.040 - .060
1.998	1.501	.050 - .060	2.000	.507	.100 - .125	**2.000**	**1.332**	**.005 - .010**	2.004	.843	.100 - .125	2.042	.331	.040 - .060	2.060	1.438	.030 - .050
1.998	1.506	.020 - .030	2.000	.509	.156 - .187	2.000	1.350	.010 - .020	2.004	1.131	.010 - .020	2.042	1.312	.050 - .070	2.060	1.450	.025 - .042
1.998	1.508	.010 - .020	2.000	.516	.090 - .120	2.000	1.375	.050 - .090	2.005	.204	.080 - .104	2.042	1.630	.040 - .060	**2.060**	**1.511**	**.005 - .010**
1.998	1.635	.010 - .020	**2.000**	**.522**	**.005 - .010**	2.000	1.376	.015 - .030	2.005	1.260	.025 - .040	2.042	1.795	.050 - .075	2.060	1.520	.040 - .060
1.998	1.664	.030 - .050	2.000	.530	.060 - .080	2.000	1.380	.135 - .156	2.005	1.515	.010 - .020	2.042	1.940	.020 - .030	2.060	1.629	.015 - .030
1.998	1.734	.050 - .070	**2.000**	**.570**	**.005 - .010**	2.000	1.386	.030 - .060	2.006	1.280	.105 - .135	2.043	1.825	.015 - .030	2.060	1.672	.020 - .040
1.998	1.748	.080 - .100	2.000	.591	.025 - .040	2.000	1.389	.015 - .080	**2.006**	**1.775**	**.005 - .010**	2.043	1.940	.010 - .020	**2.060**	**1.805**	**.005 - .010**

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
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Need Disks? All O.D. sizes available with no I.D. — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
2.061	1.291	.060 - .080	2.106	1.808	.015 - .030	2.125	1.123	.060 - .080	**2.142**	**1.941**	**.005 - .010**	2.165	1.660	.080 - .100	**2.201**	**.755**	**.005 - .010**
2.061	1.734	.020 - .035	2.106	1.814	.050 - .075	2.125	1.251	.050 - .075	**2.142**	**2.003**	**.005 - .010**	2.165	1.701	.030 - .050	2.201	1.520	.040 - .060
2.062	**.372**	**.005 - .010**	2.107	.314	.105 - .125	2.125	1.260	.075 - .090	**2.143**	**1.621**	**.005 - .010**	2.165	1.790	.040 - .050	2.201	2.010	.010 - .020
2.062	.515	.100 - .125	2.108	1.801	.075 - .090	2.125	1.308	.025 - .050	2.143	1.730	.020 - .040	**2.165**	**1.800**	**.005 - .010**	**2.201**	**2.039**	**.005 - .010**
2.062	**.625**	**.005 - .032**	2.109	1.726	.025 - .040	2.125	1.339	.080 - .105	2.143	1.791	.010 - .020	**2.165**	**1.968**	**.005 - .010**	2.202	.752	.015 - .030
2.062	.630	.050 - .070	2.109	1.829	.080 - .100	2.125	1.376	.015 - .030	**2.144**	**1.890**	**.005 - .010**	2.166	1.216	.050 - .070	**2.202**	**1.887**	**.005 - .010**
2.062	.766	.040 - .060	2.111	1.436	.010 - .020	2.125	1.408	.030 - .050	**2.145**	**.845**	**.005 - .010**	2.166	1.594	.060 - .090	2.203	.255	.100 - .125
2.062	1.371	.070 - .090	2.112	1.260	.080 - .105	2.125	1.439	.015 - .030	**2.145**	**1.730**	**.005 - .010**	2.167	1.408	.070 - .090	2.203	1.026	.010 - .020
2.062	1.381	.015 - .030	2.112	1.509	.020 - .040	2.125	1.500	.015 - .104	**2.145**	**1.967**	**.005 - .010**	**2.167**	**1.718**	**.005 - .010**	2.203	1.582	.050 - .075
2.063	.392	.050 - .070	2.112	1.831	.050 - .070	2.125	1.504	.040 - .060	2.146	1.645	.070 - .090	2.167	1.772	.070 - .090	2.203	1.884	.030 - .050
2.063	.751	.030 - .050	2.113	.256	.006 - .016	**2.125**	**1.507**	**.005 - .060**	2.146	1.654	.075 - .090	2.169	.720	.020 - .030	2.205	1.122	.050 - .070
2.063	**1.062**	**.005 - .010**	2.113	.876	.015 - .030	2.125	1.526	.040 - .060	**2.146**	**1.743**	**.005 - .020**	2.170	1.520	.015 - .030	2.205	1.127	.040 - .060
2.063	**1.312**	**.005 - .010**	2.113	1.497	.070 - .090	2.125	1.562	.050 - .070	2.147	1.671	.030 - .050	**2.170**	**1.556**	**.005 - .010**	2.205	1.912	.070 - .090
2.063	**1.628**	**.005 - .010**	2.113	1.535	.010 - .020	**2.125**	**1.580**	**.005 - .010**	2.148	.626	.015 - .030	2.171	1.900	.010 - .020	**2.206**	**1.791**	**.005 - .010**
2.065	1.722	.015 - .030	2.113	1.735	.040 - .060	2.125	1.625	.015 - .030	2.148	.690	.105 - .135	**2.171**	**1.969**	**.005 - .010**	2.206	1.980	.050 - .100
2.065	1.857	.075 - .090	2.113	1.890	.020 - .040	2.125	1.641	.010 - .040	2.148	.878	.105 - .135	2.172	1.760	.020 - .030	2.208	1.928	.060 - .070
2.066	1.718	.030 - .050	**2.113**	**1.916**	**.005 - .010**	2.125	1.642	.040 - .060	2.148	1.003	.010 - .020	**2.173**	**1.393**	**.005 - .010**	2.210	1.015	.050 - .060
2.070	1.180	.080 - .104	2.114	1.190	.025 - .040	2.125	1.671	.010 - .020	2.148	1.764	.030 - .040	**2.173**	**1.709**	**.005 - .010**	2.210	1.215	.090 - .125
2.070	1.530	.020 - .030	2.114	1.900	.015 - .030	2.125	1.750	.010 - .020	2.148	1.778	.050 - .070	2.175	1.710	.020 - .040	2.210	1.625	.040 - .125
2.070	1.780	.090 - .105	2.115	.986	.080 - .100	2.125	1.751	.090 - .105	2.148	1.988	.060 - .075	2.176	.942	.050 - .070	2.211	.127	.040 - .060
2.071	1.749	.010 - .020	2.115	1.762	.020 - .030	2.125	1.757	.025 - .050	2.150	.505	.010 - .020	2.176	2.068	.010 - .020	2.211	1.933	.010 - .020
2.072	1.277	.015 - .030	2.116	1.330	.030 - .050	2.125	1.781	.025 - .040	2.150	.631	.010 - .020	2.177	1.545	.010 - .020	2.215	.880	.050 - .075
2.075	1.969	.030 - .050	**2.117**	**1.152**	**.005 - .010**	2.125	1.852	.015 - .030	2.150	.813	.100 - .125	2.177	2.051	.040 - .060	**2.215**	**.913**	**.005 - .040**
2.076	1.629	.050 - .070	**2.117**	**1.764**	**.005 - .010**	2.125	1.876	.050 - .070	2.150	1.250	.100 - .125	2.178	.362	.050 - .070	**2.215**	**.916**	**.005 - .010**
2.077	1.155	.080 - .104	2.118	1.382	.070 - .090	**2.125**	**1.891**	**.005 - .010**	2.150	1.379	.020 - .040	**2.179**	**1.208**	**.005 - .010**	2.215	.933	.040 - .060
2.077	1.380	.080 - .104	2.118	1.508	.105 - .125	**2.125**	**1.978**	**.005 - .020**	2.150	1.778	.015 - .050	2.179	1.500	.030 - .050	2.215	1.153	.060 - .090
2.077	1.639	.030 - .050	**2.118**	**1.537**	**.005 - .010**	2.126	.439	.010 - .030	**2.151**	**.629**	**.005 - .010**	2.180	1.133	.070 - .090	2.215	1.434	.075 - .100
2.077	1.719	.030 - .050	2.118	1.610	.070 - .080	2.126	.755	.050 - .105	2.151	.687	.100 - .125	**2.180**	**1.200**	**.005 - .075**	**2.215**	**1.510**	**.005 - .010**
2.078	**1.237**	**.005 - .010**	2.118	1.641	.060 - .080	2.126	1.950	.040 - .060	2.151	.874	.100 - .125	2.180	1.662	.080 - .100	2.215	1.976	.010 - .020
2.078	1.691	.050 - .060	2.118	1.887	.025 - .040	**2.127**	**.385**	**.005 - .010**	2.151	1.379	.025 - .040	2.181	.499	.015 - .030	2.215	1.977	.010 - .020
2.079	1.750	.060 - .080	2.119	1.061	.075 - .090	2.127	.406	.100 - .120	**2.152**	**.630**	**.005 - .010**	2.181	1.507	.025 - .040	2.216	.914	.050 - .060
2.080	.834	.070 - .090	**2.119**	**1.503**	**.005 - .010**	2.127	.754	.040 - .060	2.153	.724	.100 - .134	2.182	1.511	.050 - .070	2.216	1.575	.025 - .040
2.080	**1.600**	**.005 - .040**	**2.119**	**1.512**	**.005 - .010**	2.127	.999	.010 - .020	2.153	.875	.100 - .125	2.182	2.067	.010 - .020	2.218	.127	.042 - .060
2.080	1.695	.090 - .105	2.119	1.587	.050 - .070	2.127	1.021	.080 - .105	2.153	1.725	.050 - .070	2.182	2.092	.025 - .035	2.218	.328	.010 - .020
2.080	1.719	.030 - .040	2.120	.628	.050 - .075	**2.127**	**1.260**	**.005 - .010**	2.153	2.013	.040 - .060	2.183	1.384	.100 - .125	2.219	1.686	.010 - .020
2.081	.820	.042 - .060	2.120	.810	.015 - .030	**2.127**	**1.625**	**.005 - .010**	2.154	.132	.016 - .030	2.184	1.788	.030 - .040	**2.220**	**.190**	**.005 - .010**
2.081	1.060	.010 - .020	2.120	.875	.040 - .062	2.127	1.673	.040 - .060	2.154	1.780	.040 - .060	2.187	.251	.050 - .070	**2.220**	**.886**	**.005 - .010**
2.082	**1.883**	**.005 - .010**	2.120	.927	.156 - .187	2.128	1.122	.050 - .075	2.154	1.957	.010 - .020	**2.187**	**.565**	**.005 - .010**	2.220	1.290	.150 - .164
2.082	1.942	.020 - .030	2.120	1.014	.015 - .030	2.128	1.374	.060 - .080	**2.155**	**1.325**	**.005 - .010**	2.187	.822	.060 - .080	2.220	1.906	.050 - .070
2.083	**1.440**	**.005 - .010**	2.120	1.187	.015 - .025	2.128	1.505	.050 - .070	2.155	1.957	.015 - .030	2.188	.320	.050 - .070	2.221	1.312	.100 - .125
2.085	1.429	.040 - .060	2.120	1.305	.030 - .050	**2.128**	**1.626**	**.005 - .010**	2.156	.345	.030 - .060	2.188	.446	.050 - .070	2.222	.826	.030 - .050
2.085	1.801	.025 - .040	2.120	1.506	.050 - .070	**2.128**	**1.668**	**.005 - .010**	2.156	.877	.110 - .130	2.188	.781	.100 - .134	2.225	.812	.020 - .040
2.086	.787	.020 - .035	2.120	1.615	.050 - .075	2.129	.251	.050 - .070	2.156	1.312	.050 - .070	2.188	1.126	.050 - .075	2.225	1.804	.050 - .070
2.086	**1.674**	**.005 - .010**	2.120	1.698	.010 - .020	2.129	.533	.105 - .135	2.156	2.006	.015 - .030	2.189	1.690	.025 - .040	2.226	1.616	.080 - .100
2.089	1.508	.050 - .070	2.120	1.785	.050 - .075	2.129	.735	.020 - .040	2.157	.344	.050 - .075	2.190	1.125	.025 - .040	2.227	1.451	.050 - .070
2.090	.815	.070 - .090	2.120	1.811	.080 - .105	2.129	1.282	.050 - .070	**2.157**	**.350**	**.005 - .010**	2.190	1.455	.020 - .040	2.227	1.800	.020 - .070
2.090	.941	.110 - .135	2.120	1.819	.025 - .040	2.129	1.500	.010 - .020	2.157	.629	.120 - .135	2.190	1.517	.015 - .030	2.227	1.855	.105 - .135
2.093	.223	.100 - .125	2.121	1.903	.010 - .020	2.129	1.524	.100 - .125	**2.157**	**1.253**	**.005 - .010**	**2.190**	**1.627**	**.005 - .010**	2.228	1.685	.105 - .125
2.093	1.001	.060 - .080	2.122	1.507	.020 - .030	2.130	.293	.050 - .070	2.157	1.344	.050 - .075	2.190	1.711	.015 - .030	2.228	1.857	.060 - .090
2.093	**1.656**	**.005 - .010**	2.122	1.631	.020 - .030	2.130	.532	.134 - .156	2.157	1.427	.040 - .050	2.191	1.254	.015 - .030	2.230	1.800	.030 - .120
2.095	.473	.080 - .100	**2.122**	**1.877**	**.005 - .010**	2.130	.549	.040 - .060	2.157	1.670	.015 - .030	2.191	1.892	.060 - .080	2.230	1.937	.072 - .090
2.095	.688	.105 - .135	2.122	1.878	.020 - .040	2.130	.860	.100 - .125	2.157	2.006	.010 - .020	2.191	2.005	.015 - .030	**2.230**	**1.939**	**.005 - .010**
2.095	.875	.105 - .135	2.123	.890	.090 - .105	2.130	1.030	.015 - .030	2.158	1.060	.075 - .090	2.192	1.636	.040 - .062	2.231	1.763	.050 - .060
2.095	**1.890**	**.005 - .010**	2.123	.906	.090 - .125	**2.130**	**1.057**	**.005 - .010**	2.158	1.063	.080 - .120	2.192	1.754	.030 - .040	2.232	1.761	.050 - .070
2.095	**1.901**	**.005 - .010**	2.123	1.008	.050 - .070	2.130	1.625	.040 - .060	**2.158**	**1.469**	**.005 - .010**	2.193	.972	.025 - .042	2.232	1.764	.010 - .030
2.095	**1.946**	**.005 - .010**	2.123	1.645	.105 - .125	**2.130**	**1.762**	**.005 - .010**	2.158	1.564	.080 - .120	2.193	1.934	.030 - .040	2.233	1.845	.010 - .020
2.096	.202	.015 - .020	2.123	1.659	.105 - .125	2.130	1.869	.025 - .040	2.158	1.727	.030 - .050	2.193	2.006	.010 - .020	2.234	1.250	.015 - .025
2.096	1.186	.015 - .030	**2.123**	**1.811**	**.005 - .010**	2.130	1.871	.010 - .020	2.159	.386	.010 - .020	2.196	1.698	.010 - .020	**2.235**	**1.034**	**.005 - .010**
2.097	1.013	.110 - .125	2.124	.312	.080 - .100	2.131	1.658	.015 - .030	2.159	1.690	.025 - .040	**2.196**	**1.702**	**.005 - .010**	2.235	1.499	.050 - .070
2.098	.253	.025 - .040	2.124	1.127	.015 - .030	2.131	1.878	.080 - .105	2.160	1.127	.020 - .030	**2.196**	**1.982**	**.005 - .010**	**2.235**	**1.640**	**.005 - .010**
2.098	.760	.015 - .030	2.124	1.250	.010 - .020	2.131	2.031	.030 - .050	2.160	1.400	.040 - .125	2.197	1.650	.040 - .060	2.235	1.950	.040 - .060
2.098	1.013	.010 - .020	2.124	1.580	.040 - .060	2.132	.250	.090 - .110	2.162	.668	.020 - .030	2.198	1.047	.040 - .060	**2.236**	**1.442**	**.005 - .010**
2.098	1.635	.010 - .020	2.124	1.815	.070 - .090	2.132	1.190	.060 - .080	2.162	.756	.025 - .040	2.198	1.126	.040 - .060	2.236	1.562	.070 - .090
2.099	1.200	.010 - .020	2.125	.346	.050 - .075	2.134	1.410	.015 - .030	2.162	.857	.020 - .030	**2.198**	**2.047**	**.005 - .010**	2.238	1.427	.025 - .040
2.099	**1.638**	**.005 - .010**	2.125	.380	.100 - .125	2.134	1.729	.060 - .080	2.162	1.512	.080 - .105	**2.199**	**.250**	**.005 - .010**	2.239	.875	.100 - .125
2.100	.753	.025 - .040	2.125	.500	.080 - .100	**2.134**	**1.752**	**.005 - .012**	2.162	1.724	.134 - .160	2.199	.629	.015 - .030	2.239	1.020	.156 - .188
2.100	.794	.010 - .020	**2.125**	**.507**	**.005 - .010**	2.134	1.898	.020 - .040	2.162	1.760	.032 - .050	2.199	.706	.050 - .070	2.239	1.260	.050 - .060
2.100	1.391	.020 - .030	2.125	.562	.100 - .125	2.135	1.120	.100 - .120	2.163	.252	.030 - .050	**2.199**	**.840**	**.005 - .010**	2.239	1.773	.050 - .070
2.100	1.406	.050 - .070	2.125	.565	.010 - .020	2.136	1.578	.060 - .080	**2.163**	**.678**	**.005 - .010**	2.200	.360	.050 - .070	2.240	.782	.156 - .188
2.100	**1.640**	**.005 - .015**	2.125	.626	.015 - .030	**2.137**	**1.969**	**.005 - .010**	2.163	1.929	.060 - .080	2.200	.628	.010 - .020	2.240	1.115	.020 - .030
2.100	1.656	.105 - .125	2.125	.655	.075 - .100	**2.138**	**1.897**	**.005 - .010**	**2.163**	**2.028**	**.005 - .010**	2.200	.880	.060 - .070	2.240	1.200	.016 - .032
2.100	**1.825**	**.005 - .010**	2.125	.695	.090 - .105	2.138	1.968	.025 - .040	2.164	1.801	.025 - .040	**2.200**	**1.010**	**.005 - .060**	2.240	1.384	.080 - .105
2.100	1.830	.010 - .020	**2.125**	**.705**	**.005 - .010**	2.139	1.417	.080 - .104	2.164	1.898	.070 - .090	2.200	1.378	.105 - .125	2.240	1.440	.105 - .135
2.100	1.900	.050 - .075	2.125	.761	.060 - .090	**2.139**	**1.454**	**.005 - .010**	2.164	1.908	.050 - .070	2.200	1.519	.030 - .050	2.240	1.631	.015 - .030
2.100	**1.933**	**.005 - .010**	2.125	.813	.110 - .135	**2.139**	**1.818**	**.005 - .010**	**2.165**	**.254**	**.005 - .010**	2.200	1.599	.048 - .075	2.240	1.762	.040 - .060
2.101	.564	.010 - .020	**2.125**	**.895**	**.005 - .010**	2.139	1.821	.025 - .040	2.165	.323	.030 - .050	2.200	1.700	.048 - .075	**2.240**	**2.010**	**.005 - .040**
2.101	1.731	.025 - .040	2.125	.907	.020 - .030	2.139	1.896	.030 - .040	2.165	.670	.105 - .135	2.200	1.800	.105 - .120	**2.240**	**2.025**	**.005 - .010**
2.102	.792	.030 - .040	2.125	1.015	.105 - .125	2.140	1.730	.025 - .040	**2.165**	**1.380**	**.005 - .010**	2.200	1.884	.030 - .050	2.241	.880	.030 - .050
2.103	1.781	.010 - .020	2.125	1.075	.010 - .020	2.140	2.012	.040 - .060	2.165	1.506	.050 - .070	2.200	1.920	.020 - .030	2.241	1.578	.100 - .125
2.104	1.680	.040 - .060	2.125	1.100	.030 - .050	2.142	1.545	.030 - .050	**2.165**	**1.645**	**.005 - .010**	**2.201**	**.505**	**.005 - .020**	2.241	1.700	.015 - .030

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For a size NOT listed, send specs or phone for quote — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
2.242	**1.565**	**.005 - .010**	2.250	.325	.075 - .104	**2.251**	**.266**	**.005 - .010**	2.282	1.575	.125 - .135	**2.320**	**1.681**	**.005 - .010**	2.362	1.575	.020 - .040
2.242	1.726	.080 - .105	2.250	.370	.050 - .070	2.251	.378	.025 - .040	2.282	1.771	.050 - .070	2.321	1.580	.010 - .020	**2.362**	**1.875**	**.005 - .010**
2.242	1.761	.050 - .070	2.250	.378	.050 - .075	2.251	.540	.134 - .156	2.283	.334	.060 - .080	**2.321**	**2.053**	**.005 - .010**	2.362	2.007	.088 - .100
2.242	1.844	.080 - .105	2.250	.394	.030 - .050	2.251	.579	.090 - .105	2.284	2.043	.040 - .060	2.322	.192	.015 - .030	**2.363**	**1.010**	**.005 - .015**
2.243	.762	.030 - .050	2.250	.400	.100 - .125	**2.251**	**.812**	**.005 - .010**	2.284	2.070	.030 - .040	2.322	1.770	.030 - .040	2.363	1.122	.100 - .120
2.243	1.009	.060 - .080	2.250	.439	.100 - .125	2.251	.905	.030 - .050	2.285	.768	.075 - .090	2.322	2.000	.015 - .030	2.363	1.526	.120 - .135
2.243	1.551	.010 - .020	2.250	.478	.030 - .050	2.251	1.083	.120 - .140	**2.285**	**2.070**	**.005 - .010**	2.323	.311	.015 - .030	2.363	1.870	.060 - .080
2.244	1.857	.015 - .030	2.250	.500	.105 - .120	2.251	1.377	.040 - .060	2.287	.770	.080 - .104	2.323	1.948	.070 - .090	2.363	1.889	.010 - .020
2.245	**.330**	**.005 - .010**	2.250	.507	.030 - .050	2.251	1.501	.030 - .050	2.290	1.125	.105 - .134	2.323	2.165	.050 - .070	2.363	2.206	.010 - .020
2.245	**.633**	**.005 - .010**	**2.250**	**.517**	**.005 - .110**	2.251	1.519	.025 - .040	2.290	2.160	.020 - .040	2.324	1.253	.025 - .040	2.364	.630	.105 - .125
2.245	.886	.105 - .125	2.250	.519	.170 - .190	**2.251**	**1.538**	**.005 - .010**	2.291	1.630	.030 - .050	2.325	1.851	.050 - .070	2.365	.674	.125 - .156
2.245	1.005	.060 - .070	2.250	.531	.050 - .060	2.251	1.563	.030 - .040	2.293	1.127	.090 - .105	2.325	2.008	.015 - .060	**2.365**	**1.136**	**.005 - .010**
2.245	**1.192**	**.005 - .010**	2.250	.562	.135 - .156	2.251	2.025	.105 - .135	2.295	1.857	.030 - .050	**2.325**	**2.062**	**.005 - .010**	2.365	2.266	.015 - .030
2.245	1.259	.090 - .105	2.250	.620	.030 - .050	2.252	.377	.025 - .040	2.295	1.858	.020 - .030	**2.325**	**2.148**	**.005 - .010**	2.366	1.508	.030 - .050
2.245	1.319	.025 - .040	2.250	.626	.015 - .030	2.252	.758	.040 - .060	2.295	2.052	.025 - .040	2.328	.500	.120 - .135	2.366	1.570	.030 - .050
2.245	1.343	.025 - .042	2.250	.629	.040 - .060	2.252	.781	.090 - .120	2.296	.187	.025 - .040	2.328	1.199	.030 - .050	2.366	1.827	.030 - .050
2.245	1.375	.080 - .105	2.250	.639	.015 - .030	2.252	1.000	.040 - .060	2.296	.501	.015 - .025	**2.328**	**2.006**	**.005 - .010**	2.367	1.520	.100 - .125
2.245	1.380	.030 - .050	2.250	.640	.156 - .187	**2.252**	**1.032**	**.005 - .010**	2.296	2.068	.025 - .040	**2.330**	**1.200**	**.005 - .010**	2.368	1.640	.050 - .070
2.245	1.395	.010 - .020	2.250	.641	.125 - .156	2.252	1.253	.050 - .070	**2.297**	**1.960**	**.005 - .010**	2.331	1.627	.090 - .110	**2.368**	**2.069**	**.005 - .010**
2.245	1.417	.080 - .125	2.250	.642	.105 - .125	2.252	1.511	.050 - .075	2.298	.402	.105 - .125	2.334	2.162	.010 - .020	2.369	.245	.010 - .020
2.245	1.738	.110 - .130	2.250	.643	.135 - .156	**2.252**	**1.656**	**.005 - .010**	**2.298**	**1.325**	**.005 - .010**	2.334	2.164	.025 - .040	2.369	.816	.015 - .030
2.245	2.007	.010 - .015	2.250	.662	.140 - .160	**2.252**	**1.887**	**.005 - .010**	**2.300**	**.196**	**.005 - .010**	2.335	1.968	.050 - .070	**2.369**	**1.701**	**.005 - .010**
2.246	.378	.080 - .100	2.250	.688	.104 - .125	2.252	1.979	.080 - .105	2.300	.504	.010 - .020	2.335	1.995	.020 - .030	2.369	1.875	.050 - .070
2.246	.627	.025 - .040	2.250	.750	.075 - .104	2.253	.188	.025 - .040	**2.300**	**.628**	**.005 - .010**	2.338	1.636	.020 - .040	**2.370**	**.135**	**.005 - .010**
2.246	.631	.156 - .179	2.250	.759	.090 - .105	2.253	.252	.025 - .040	**2.300**	**.631**	**.005 - .010**	2.339	.430	.060 - .080	**2.370**	**.246**	**.005 - .010**
2.246	1.048	.050 - .070	2.250	.771	.060 - .080	2.253	.517	.105 - .125	2.300	1.314	.105 - .135	2.339	2.235	.020 - .030	**2.370**	**.510**	**.005 - .010**
2.246	1.058	.050 - .070	2.250	.781	.100 - .134	2.253	.642	.120 - .135	2.300	1.654	.050 - .070	**2.340**	**1.752**	**.005 - .025**	**2.370**	**.852**	**.005 - .010**
2.246	1.064	.025 - .040	2.250	.790	.040 - .060	**2.253**	**.780**	**.005 - .010**	2.300	2.000	.040 - .060	2.342	1.770	.075 - .090	2.370	.884	.050 - .060
2.246	1.813	.050 - .075	2.250	.795	.050 - .070	2.253	1.011	.030 - .050	**2.301**	**.625**	**.005 - .010**	2.342	2.001	.050 - .070	2.370	1.254	.110 - .130
2.247	.538	.010 - .020	2.250	.874	.060 - .080	2.253	1.063	.120 - .156	2.301	1.480	.050 - .125	**2.343**	**1.773**	**.005 - .010**	2.370	1.588	.090 - .105
2.247	**.762**	**.005 - .010**	2.250	.875	.125 - .156	2.253	1.145	.120 - .134	2.302	1.620	.050 - .070	2.345	.718	.090 - .105	**2.370**	**1.681**	**.005 - .010**
2.247	.905	.010 - .020	2.250	.877	.070 - .090	2.253	1.751	.105 - .135	**2.303**	**2.000**	**.005 - .010**	2.345	1.370	.060 - .070	2.370	2.001	.080 - .105
2.247	1.200	.010 - .020	**2.250**	**.880**	**.005 - .010**	2.253	1.752	.050 - .070	**2.303**	**2.194**	**.005 - .010**	2.346	2.074	.030 - .050	2.371	1.515	.050 - .070
2.248	.250	.105 - .120	2.250	1.004	.080 - .100	2.253	1.973	.050 - .070	2.304	1.905	.100 - .120	2.347	1.437	.050 - .070	2.371	1.865	.015 - .030
2.248	.620	.015 - .030	**2.250**	**1.014**	**.005 - .010**	2.253	2.011	.020 - .032	**2.304**	**2.000**	**.005 - .010**	**2.347**	**2.110**	**.005 - .010**	2.372	.418	.015 - .030
2.248	.656	.156 - .187	2.250	1.022	.090 - .104	2.254	1.511	.020 - .030	2.305	1.498	.008 - .016	2.348	.747	.050 - .070	2.372	.866	.025 - .060
2.248	**.883**	**.005 - .010**	2.250	1.040	.010 - .090	2.254	1.555	.110 - .130	2.305	1.681	.050 - .075	2.348	.783	.075 - .090	2.372	1.000	.025 - .040
2.248	1.033	.105 - .120	2.250	1.060	.015 - .030	2.255	1.032	.090 - .120	2.306	1.899	.048 - .062	2.348	1.380	.060 - .080	2.372	1.015	.100 - .125
2.248	1.127	.050 - .075	**2.250**	**1.067**	**.005 - .010**	2.255	1.242	.030 - .040	2.307	1.199	.030 - .050	2.348	2.000	.042 - .062	2.372	1.512	.050 - .075
2.248	**1.190**	**.005 - .010**	2.250	1.180	.105 - .135	2.255	1.625	.040 - .062	2.307	1.893	.110 - .130	2.348	2.067	.015 - .030	2.372	1.654	.040 - .060
2.248	1.249	.015 - .030	2.250	1.255	.040 - .060	**2.255**	**1.645**	**.005 - .010**	**2.308**	**2.208**	**.005 - .015**	2.349	.502	.100 - .120	2.372	1.990	.015 - .030
2.248	1.250	.090 - .105	**2.250**	**1.256**	**.005 - .010**	2.256	1.281	.090 - .125	2.310	.661	.015 - .030	2.349	1.494	.025 - .040	2.373	.193	.060 - .080
2.248	1.290	.105 - .125	2.250	1.257	.025 - .042	2.256	1.778	.030 - .040	2.310	.890	.030 - .050	2.349	2.005	.060 - .090	2.373	.210	.030 - .050
2.248	**1.315**	**.005 - .010**	2.250	1.263	.060 - .080	**2.257**	**1.938**	**.005 - .010**	2.310	1.136	.080 - .105	2.350	.754	.015 - .030	2.373	.630	.015 - .030
2.248	1.507	.030 - .050	2.250	1.265	.050 - .135	2.260	.880	.030 - .040	**2.310**	**1.636**	**.005 - .010**	2.350	1.250	.090 - .105	2.373	.642	.080 - .100
2.248	**1.508**	**.005 - .010**	2.250	1.274	.080 - .104	**2.260**	**1.268**	**.005 - .010**	**2.310**	**1.693**	**.005 - .010**	2.350	1.267	.050 - .070	**2.373**	**.755**	**.005 - .010**
2.248	**1.655**	**.005 - .090**	2.250	1.278	.100 - .134	2.260	1.320	.010 - .030	2.310	1.873	.070 - .090	**2.350**	**1.815**	**.005 - .010**	2.373	.876	.050 - .070
2.248	1.749	.015 - .035	**2.250**	**1.279**	**.005 - .010**	2.260	1.890	.015 - .030	2.310	1.997	.010 - .025	2.350	1.947	.090 - .105	2.373	1.125	.025 - .040
2.248	**1.753**	**.005 - .010**	2.250	1.286	.010 - .020	2.265	1.880	.010 - .020	2.311	.312	.030 - .050	2.350	2.010	.010 - .040	2.373	1.281	.030 - .045
2.248	1.767	.080 - .100	2.250	1.311	.040 - .060	2.266	.354	.060 - .080	2.311	.532	.050 - .070	2.351	.270	.080 - .100	2.373	1.300	.040 - .060
2.248	1.875	.030 - .050	2.250	1.335	.025 - .050	2.267	1.932	.025 - .040	2.311	.633	.030 - .050	2.351	.628	.010 - .020	2.373	1.500	.050 - .070
2.248	1.889	.025 - .040	2.250	1.375	.010 - .020	2.268	.316	.015 - .030	**2.311**	**1.067**	**.005 - .010**	2.351	1.659	.010 - .020	2.373	1.739	.015 - .025
2.248	1.912	.050 - .070	2.250	1.380	.015 - .030	**2.269**	**.916**	**.005 - .010**	2.311	1.688	.025 - .040	2.352	.638	.156 - .190	**2.373**	**1.912**	**.005 - .010**
2.248	**1.990**	**.005 - .010**	2.250	1.387	.105 - .134	2.269	1.260	.050 - .070	2.311	1.934	.050 - .070	**2.352**	**1.660**	**.005 - .010**	2.373	1.937	.030 - .050
2.248	2.000	.010 - .020	2.250	1.425	.030 - .050	2.270	1.813	.020 - .030	2.312	.502	.125 - .135	2.354	2.100	.010 - .020	2.373	2.166	.040 - .060
2.248	2.002	.080 - .100	2.250	1.438	.030 - .050	2.270	1.885	.030 - .050	2.312	.563	.050 - .070	**2.355**	**1.873**	**.005 - .010**	2.374	.346	.105 - .125
2.249	.316	.050 - .070	2.250	1.442	.050 - .075	2.270	1.890	.036 - .060	**2.312**	**1.003**	**.005 - .010**	2.355	2.217	.010 - .020	2.374	.560	.040 - .060
2.249	.438	.156 - .187	2.250	1.500	.060 - .156	2.270	1.980	.015 - .030	2.312	1.640	.015 - .030	2.356	.815	.080 - .105	2.374	.625	.050 - .075
2.249	.439	.104 - .120	**2.250**	**1.510**	**.005 - .010**	2.271	.258	.060 - .080	2.312	1.651	.105 - .134	2.358	1.095	.025 - .040	2.374	.900	.020 - .040
2.249	.540	.015 - .030	2.250	1.530	.042 - .060	**2.271**	**1.979**	**.005 - .010**	**2.312**	**1.802**	**.005 - .010**	2.358	1.542	.030 - .050	**2.374**	**1.066**	**.005 - .010**
2.249	.542	.150 - .170	2.250	1.563	.050 - .104	**2.271**	**1.980**	**.005 - .010**	2.312	1.881	.010 - .020	2.358	1.932	.135 - .156	2.374	1.170	.030 - .187
2.249	**.752**	**.005 - .010**	2.250	1.598	.030 - .050	2.272	.443	.080 - .100	2.312	2.000	.040 - .060	2.358	2.130	.010 - .020	2.374	1.374	.050 - .070
2.249	**.756**	**.005 - .010**	2.250	1.615	.015 - .030	2.273	.590	.100 - .125	2.313	1.828	.015 - .030	2.359	1.260	.020 - .040	2.374	1.535	.040 - .060
2.249	.800	.080 - .100	2.250	1.620	.040 - .060	2.273	.665	.100 - .125	**2.313**	**1.992**	**.005 - .010**	2.360	.438	.070 - .090	2.374	1.537	.020 - .040
2.249	**1.217**	**.005 - .010**	2.250	1.628	.110 - .130	2.273	1.910	.010 - .020	**2.313**	**2.185**	**.005 - .010**	2.360	.728	.050 - .070	2.374	1.757	.010 - .020
2.249	**1.640**	**.005 - .020**	**2.250**	**1.630**	**.005 - .020**	**2.273**	**1.968**	**.005 - .020**	2.314	.745	.070 - .090	2.360	1.003	.050 - .070	**2.374**	**1.811**	**.005 - .050**
2.249	1.711	.040 - .060	**2.250**	**1.631**	**.005 - .020**	2.274	1.544	.010 - .020	2.314	1.758	.025 - .040	2.360	1.133	.160 - .190	2.374	1.990	.100 - .120
			2.250	1.668	.020 - .075	2.275	.881	.025 - .040	**2.314**	**1.991**	**.005 - .010**	**2.360**	**1.262**	**.005 - .010**	2.375	.139	.040 - .062
			2.250	1.687	.025 - .040	**2.275**	**2.000**	**.005 - .010**	2.315	1.906	.040 - .060	2.360	1.375	.015 - .060	2.375	.165	.030 - .050
			2.250	**1.751**	**.005 - .020**	2.277	1.184	.060 - .080	2.315	1.986	.090 - .105	**2.360**	**1.578**	**.005 - .040**	2.375	.280	.025 - .040
2.250			2.250	1.768	.050 - .075	**2.277**	**1.785**	**.005 - .010**	2.315	2.032	.040 - .060	2.360	1.958	.010 - .020	2.375	.375	.104 - .134
			2.250	1.781	.050 - .070	2.278	1.674	.105 - .135	2.316	.173	.040 - .060	**2.360**	**2.165**	**.005 - .010**	2.375	.390	.160 - .190
			2.250	1.801	.100 - .134	2.278	1.868	.050 - .070	2.316	.623	.020 - .040	2.361	1.009	.025 - .070	2.375	.503	.015 - .025
			2.250	1.810	.125 - .135	2.278	1.919	.040 - .060	2.316	1.757	.032 - .050	**2.361**	**1.047**	**.005 - .010**	2.375	.506	.080 - .100
			2.250	1.844	.040 - .075	2.278	1.990	.050 - .070	2.317	1.941	.025 - .040	2.361	1.181	.080 - .120	2.375	.640	.040 - .060
2.250	.125	.050 - .070	2.250	1.875	.050 - .075	2.279	.313	.030 - .050	2.317	1.969	.070 - .080	2.361	1.774	.010 - .020	2.375	.687	.050 - .075
2.250	.136	.015 - .025	2.250	1.912	.070 - .090	2.279	1.746	.020 - .030	**2.318**	**.771**	**.005 - .010**	2.361	2.026	.040 - .060	2.375	.717	.100 - .135
2.250	.164	.010 - .020	2.250	1.969	.010 - .015	2.280	1.070	.040 - .060	**2.318**	**1.760**	**.005 - .010**	2.362	.240	.020 - .030	2.375	.945	.006 - .020
2.250	.216	.060 - .080	2.250	2.025	.020 - .040	2.280	1.150	.025 - .040	2.318	1.942	.020 - .040	**2.362**	**1.002**	**.005 - .010**	2.375	1.067	.120 - .140
2.250	.257	.020 - .040	**2.250**	**2.082**	**.005 - .010**	2.280	2.032	.050 - .070	2.320	1.580	.070 - .090	2.362	1.541	.020 - .050	2.375	1.269	.100 - .125

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

Call BOKER'S for precision stamping, assembly, and secondary operations.

O.D.	I.D.	Choose Any Thickness* From To
2.375	1.371	.100 - .120
2.375	1.490	.025 - .050
2.375	1.500	.010 - .020
2.375	1.639	.100 - .125
2.375	**1.645**	**.005 - .010**
2.375	1.688	.030 - .040
2.375	1.766	.050 - .075
2.375	1.785	.015 - .030
2.375	1.906	.042 - .060
2.375	1.925	.050 - .070
2.375	1.938	.050 - .070
2.375	1.938	.156 - .187
2.375	2.019	.020 - .040
2.375	**2.105**	**.005 - .010**
2.375	2.125	.040 - .060
2.376	.631	.120 - .140
2.376	.755	.030 - .060
2.376	1.406	.010 - .020
2.376	1.443	.040 - .060
2.376	1.828	.030 - .050
2.376	1.875	.040 - .060
2.377	.261	.090 - .120
2.377	**.502**	**.005 - .010**
2.377	1.512	.050 - .075
2.378	.689	.040 - .060
2.378	**1.255**	**.005 - .010**
2.378	1.785	.025 - .035
2.378	1.800	.090 - .125
2.378	1.849	.090 - .105
2.378	1.997	.090 - .115
2.378	2.000	.040 - .060
2.378	2.005	.040 - .060
2.379	.876	.060 - .080
2.379	1.505	.040 - .060
2.379	1.630	.010 - .030
2.379	2.011	.030 - .040
2.380	.551	.080 - .105
2.380	.670	.050 - .075
2.380	.870	.060 - .090
2.380	1.000	.040 - .060
2.380	1.250	.030 - .040
2.380	1.632	.010 - .020
2.380	1.649	.030 - .050
2.380	1.700	.050 - .060
2.380	1.937	.040 - .060
2.380	1.997	.015 - .030
2.380	2.020	.090 - .105
2.380	2.090	.010 - .020
2.381	.328	.050 - .070
2.381	1.437	.025 - .040
2.381	1.552	.020 - .040
2.382	2.014	.105 - .125
2.383	.881	.060 - .080
2.385	.254	.080 - .100
2.385	1.877	.010 - .020
2.387	1.366	.050 - .075
2.388	1.433	.060 - .070
2.388	1.701	.050 - .070
2.388	2.048	.040 - .060
2.389	1.443	.050 - .060
2.390	1.120	.015 - .030
2.390	1.188	.050 - .070
2.390	1.328	.010 - .050
2.390	1.850	.020 - .040
2.391	**2.070**	**.005 - .010**
2.391	2.078	.040 - .060
2.393	1.100	.010 - .050
2.395	.813	.040 - .060
2.395	1.435	.050 - .070
2.395	1.443	.050 - .070
2.395	2.000	.020 - .030
2.395	**2.099**	**.005 - .010**
2.396	1.085	.010 - .020
2.396	2.099	.010 - .060
2.396	2.151	.030 - .050
2.397	2.024	.030 - .050
2.398	**2.170**	**.005 - .010**
2.399	1.393	.080 - .105
2.399	1.560	.025 - .040
2.399	1.681	.025 - .040

O.D.	I.D.	Choose Any Thickness* From To
2.399	**1.713**	**.005 - .010**
2.399	1.720	.035 - .050
2.399	2.133	.050 - .075
2.400	**.504**	**.005 - .010**
2.400	.505	.010 - .020
2.400	.511	.105 - .135
2.400	.753	.010 - .020
2.400	1.320	.015 - .030
2.400	1.734	.080 - .105
2.400	**1.818**	**.005 - .010**
2.400	1.838	.060 - .080
2.400	1.850	.010 - .020
2.400	**1.933**	**.005 - .010**
2.400	1.999	.045 - .060
2.400	**2.001**	**.005 - .010**
2.400	2.047	.050 - .070
2.400	2.062	.020 - .040
2.400	2.200	.015 - .050
2.400	**2.205**	**.005 - .010**
2.400	2.220	.050 - .070
2.401	.761	.010 - .030
2.401	1.209	.015 - .030
2.401	1.889	.015 - .010
2.401	2.067	.025 - .040
2.402	.760	.015 - .030
2.402	.857	.050 - .070
2.402	1.970	.070 - .090
2.402	2.000	.060 - .075
2.402	**2.295**	**.005 - .030**
2.403	**2.196**	**.005 - .010**
2.404	**1.903**	**.005 - .010**
2.405	**.135**	**.005 - .010**
2.405	.993	.080 - .104
2.405	2.125	.010 - .025
2.405	2.217	.040 - .060
2.407	.658	.100 - .120
2.408	1.875	.020 - .040
2.410	1.908	.007 - .035
2.414	**1.624**	**.005 - .010**
2.414	1.935	.025 - .040
2.416	1.519	.040 - .060
2.416	1.911	.030 - .040
2.417	1.465	.050 - .070
2.418	1.873	.020 - .040
2.419	**2.187**	**.005 - .010**
2.420	1.873	.020 - .030
2.420	2.100	.020 - .030
2.420	2.180	.020 - .035
2.420	2.186	.015 - .030
2.420	2.187	.030 - .050
2.421	2.125	.020 - .040
2.422	1.522	.110 - .130
2.422	2.040	.100 - .125
2.422	**2.215**	**.005 - .010**
2.423	**1.422**	**.005 - .008**
2.423	1.623	.030 - .050
2.425	1.520	.040 - .060
2.425	1.552	.020 - .030
2.425	1.899	.010 - .020
2.427	1.187	.010 - .020
2.427	1.191	.050 - .070
2.428	1.510	.050 - .070
2.428	2.001	.020 - .030
2.428	2.020	.042 - .060
2.430	1.651	.010 - .020
2.430	1.938	.010 - .020
2.430	2.000	.020 - .040
2.430	2.118	.015 - .025
2.430	**2.121**	**.005 - .010**
2.431	**2.090**	**.005 - .010**
2.431	2.091	.020 - .030
2.432	1.005	.015 - .025
2.432	1.267	.025 - .040
2.432	1.679	.040 - .050
2.432	**2.000**	**.005 - .015**
2.432	2.140	.020 - .030
2.433	1.866	.010 - .020
2.433	2.188	.010 - .020
2.434	1.483	.030 - .050
2.434	1.501	.050 - .075

O.D.	I.D.	Choose Any Thickness* From To
2.434	1.531	.030 - .050
2.435	1.255	.125 - .156
2.435	1.900	.050 - .075
2.435	2.255	.010 - .015
2.435	2.263	.015 - .030
2.436	1.750	.090 - .105
2.436	**1.877**	**.005 - .010**
2.437	1.257	.050 - .070
2.437	1.313	.040 - .060
2.437	1.425	.025 - .042
2.437	1.498	.010 - .020
2.437	1.875	.020 - .035
2.437	2.000	.050 - .075
2.437	2.187	.025 - .040
2.437	2.250	.020 - .040
2.438	**.350**	**.005 - .010**
2.438	.390	.042 - .060
2.438	.691	.105 - .135
2.438	.940	.100 - .125
2.438	2.007	.040 - .060
2.438	2.160	.015 - .025
2.438	2.214	.040 - .060
2.439	1.966	.040 - .060
2.439	**1.977**	**.005 - .015**
2.439	2.164	.015 - .030
2.440	.837	.105 - .135
2.440	1.274	.050 - .070
2.440	**1.968**	**.005 - .010**
2.440	1.978	.020 - .030
2.440	1.982	.015 - .030
2.440	**2.175**	**.005 - .010**
2.440	2.219	.090 - .105
2.440	2.262	.040 - .050
2.440	**2.290**	**.005 - .010**
2.440	2.330	.010 - .020
2.441	1.527	.050 - .070
2.446	.315	.105 - .125
2.447	**1.500**	**.005 - .010**
2.447	2.040	.015 - .030
2.447	**2.059**	**.005 - .010**
2.447	2.129	.040 - .060
2.448	**1.749**	**.005 - .010**
2.448	1.989	.070 - .090
2.448	**2.089**	**.005 - .010**
2.449	1.970	.015 - .035
2.450	.504	.010 - .020
2.450	.753	.015 - .030
2.450	1.192	.040 - .060
2.450	2.133	.015 - .032
2.450	**2.135**	**.005 - .030**
2.450	2.140	.012 - .020
2.450	2.305	.040 - .050
2.451	.629	.010 - .020
2.451	**.814**	**.005 - .010**
2.452	1.630	.060 - .080
2.453	1.565	.060 - .075
2.453	1.791	.075 - .095
2.453	1.820	.060 - .080
2.453	1.828	.134 - .156
2.453	2.050	.120 - .135
2.454	1.020	.015 - .030
2.454	1.827	.105 - .125
2.460	1.726	.050 - .060
2.462	1.727	.050 - .070
2.462	1.940	.020 - .040
2.468	.381	.105 - .135
2.469	1.270	.010 - .020
2.469	2.123	.010 - .020
2.469	**2.264**	**.005 - .010**
2.470	.502	.040 - .060
2.470	**2.362**	**.005 - .010**
2.472	.814	.125 - .135
2.473	1.220	.070 - .090
2.473	2.000	.010 - .020
2.475	.870	.125 - .135
2.475	1.351	.070 - .080
2.475	**1.770**	**.005 - .010**
2.477	1.968	.030 - .080
2.478	1.230	.075 - .105
2.478	**1.598**	**.005 - .010**

O.D.	I.D.	Choose Any Thickness* From To
2.478	1.889	.020 - .040
2.478	1.980	.060 - .070
2.479	2.100	.015 - .030
2.480	.750	.060 - .075
2.480	**2.255**	**.005 - .010**
2.481	1.673	.105 - .135
2.481	**2.185**	**.005 - .010**
2.482	2.142	.025 - .040
2.482	2.150	.050 - .070
2.483	1.591	.080 - .090
2.483	2.110	.020 - .030
2.484	**1.640**	**.005 - .010**
2.485	1.055	.135 - .156
2.487	1.015	.134 - .187
2.487	1.425	.030 - .050
2.487	**1.635**	**.005 - .010**
2.488	1.998	.010 - .020
2.489	1.748	.050 - .070
2.489	1.776	.015 - .020
2.489	**2.002**	**.005 - .010**
2.490	**1.436**	**.005 - .010**
2.490	**1.853**	**.005 - .010**
2.490	1.980	.090 - .110
2.490	1.996	.105 - .125
2.490	**2.060**	**.005 - .010**
2.491	1.011	.120 - .156
2.491	1.508	.080 - .125
2.492	**1.069**	**.005 - .010**
2.493	.752	.048 - .062
2.493	1.255	.080 - .100
2.493	1.400	.025 - .035
2.493	1.562	.080 - .105
2.493	1.785	.125 - .156
2.493	1.850	.120 - .135
2.493	2.000	.040 - .060
2.493	2.062	.040 - .060
2.494	.616	.030 - .050
2.494	**1.257**	**.005 - .010**
2.495	.508	.105 - .125
2.495	.616	.010 - .020
2.495	.620	.015 - .060
2.495	**1.150**	**.005 - .010**
2.495	1.319	.105 - .135
2.495	**1.400**	**.005 - .010**
2.495	1.651	.030 - .050
2.495	**2.046**	**.005 - .010**
2.495	2.060	.050 - .075
2.495	2.120	.090 - .110
2.496	**1.122**	**.005 - .010**
2.496	1.123	.010 - .050
2.496	1.665	.080 - .093
2.496	**2.361**	**.005 - .010**
2.497	.813	.045 - .060
2.497	**1.311**	**.005 - .010**
2.497	1.314	.040 - .060
2.497	1.318	.080 - .105
2.497	1.506	.020 - .040
2.497	1.518	.030 - .050
2.497	**2.029**	**.005 - .010**
2.498	.125	.030 - .050
2.498	.188	.025 - .040
2.498	.283	.025 - .040
2.498	.300	.040 - .060
2.498	**.379**	**.005 - .008**
2.498	.385	.020 - .040
2.498	**.752**	**.005 - .010**
2.498	**.755**	**.005 - .010**
2.498	1.062	.090 - .105
2.498	1.126	.090 - .120
2.498	1.261	.060 - .080
2.498	1.359	.015 - .030
2.498	1.449	.070 - .090
2.498	1.515	.125 - .135
2.498	1.532	.110 - .135
2.498	1.568	.020 - .050
2.498	1.625	.010 - .020
2.498	**1.687**	**.005 - .010**
2.498	1.881	.020 - .030
2.498	1.910	.060 - .070
2.498	**2.002**	**.005 - .015**

O.D.	I.D.	Choose Any Thickness* From To
2.498	2.015	.050 - .070
2.498	2.119	.060 - .080
2.498	2.310	.070 - .080
2.499	.325	.060 - .080
2.499	**1.026**	**.005 - .010**
2.499	1.061	.050 - .070
2.499	**1.270**	**.005 - .010**
2.499	1.313	.105 - .135
2.499	1.379	.060 - .070
2.499	1.387	.060 - .080
2.499	1.498	.025 - .040
2.499	**1.749**	**.005 - .020**
2.499	1.757	.040 - .060
2.499	1.889	.010 - .020
2.499	**1.952**	**.005 - .010**
2.499	2.061	.015 - .020
2.500	.100	.015 - .030
2.500	.113	.015 - .035
2.500	**.144**	**.005 - .020**
2.500	.149	.080 - .090
2.500	.188	.090 - .105
2.500	.198	.010 - .020
2.500	.261	.100 - .135
2.500	**.266**	**.005 - .010**
2.500	.312	.125 - .156
2.500	.370	.050 - .070
2.500	.375	.080 - .104
2.500	.385	.125 - .156
2.500	.390	.090 - .120
2.500	**.400**	**.005 - .010**
2.500	.405	.105 - .135
2.500	.440	.080 - .100
2.500	.454	.105 - .135
2.500	.500	.090 - .135
2.500	.501	.015 - .035
2.500	.520	.105 - .125
2.500	.563	.036 - .060
2.500	.623	.040 - .060
2.500	**.624**	**.005 - .010**
2.500	.628	.010 - .020
2.500	.630	.010 - .020
2.500	.635	.015 - .030
2.500	.641	.120 - .135
2.500	.656	.156 - .187
2.500	.660	.105 - .135
2.500	.688	.105 - .125
2.500	.751	.060 - .080
2.500	.752	.010 - .020
2.500	.756	.100 - .125
2.500	.760	.090 - .105
2.500	.770	.070 - .090
2.500	.822	.120 - .135
2.500	.845	.105 - .125
2.500	.871	.015 - .030
2.500	**.879**	**.005 - .010**
2.500	.912	.090 - .110
2.500	.934	.070 - .090
2.500	.951	.040 - .060
2.500	.984	.070 - .090
2.500	**1.000**	**.005 - .040**
2.500	1.006	.060 - .070
2.500	1.014	.110 - .130
2.500	**1.020**	**.005 - .010**
2.500	1.034	.036 - .050
2.500	**1.038**	**.005 - .010**
2.500	1.062	.120 - .156
2.500	1.130	.010 - .060
2.500	1.150	.093 - .125
2.500	1.185	.110 - .125
2.500	1.192	.040 - .060
2.500	1.262	.010 - .020

O.D.	I.D.	Choose Any Thickness* From To
2.500	1.268	.050 - .070
2.500	1.272	.015 - .025
2.500	1.279	.100 - .125
2.500	1.295	.010 - .020
2.500	1.300	.070 - .090
2.500	1.311	.040 - .060
2.500	**1.346**	**.005 - .010**
2.500	1.375	.030 - .040
2.500	1.392	.040 - .060
2.500	1.394	.040 - .060
2.500	1.500	.105 - .125
2.500	1.511	.050 - .060
2.500	**1.517**	**.005 - .010**
2.500	1.523	.050 - .070
2.500	1.529	.070 - .090
2.500	1.561	.050 - .075
2.500	1.606	.025 - .042
2.500	1.624	.040 - .060
2.500	**1.625**	**.005 - .060**
2.500	1.635	.090 - .125
2.500	1.750	.040 - .060
2.500	**1.755**	**.005 - .010**
2.500	1.756	.105 - .125
2.500	1.759	.090 - .105
2.500	1.770	.040 - .060
2.500	1.777	.015 - .062
2.500	1.787	.040 - .060
2.500	1.796	.075 - .156
2.500	1.814	.010 - .031
2.500	**1.820**	**.005 - .010**
2.500	1.889	.030 - .050
2.500	1.890	.020 - .030
2.500	1.900	.010 - .025
2.500	1.945	.010 - .060
2.500	1.954	.025 - .040
2.500	1.978	.042 - .062
2.500	1.990	.010 - .031
2.500	**2.001**	**.005 - .010**
2.500	2.002	.036 - .135
2.500	2.030	.020 - .030
2.500	2.125	.040 - .050
2.500	**2.146**	**.005 - .010**
2.500	**2.175**	**.005 - .060**
2.500	2.250	.025 - .040
2.500	2.258	.040 - .080
2.500	2.271	.020 - .035
2.500	**2.313**	**.005 - .010**
2.500	2.314	.020 - .030
2.501	.253	.010 - .020
2.501	.447	.050 - .070
2.501	.627	.010 - .125
2.501	.688	.160 - .190
2.501	**1.199**	**.005 - .010**
2.501	**1.249**	**.005 - .070**
2.501	1.250	.060 - .090
2.501	**1.500**	**.005 - .010**
2.501	**1.530**	**.005 - .010**
2.501	1.625	.080 - .100
2.501	1.745	.104 - .134
2.501	2.137	.020 - .040
2.502	**.314**	**.005 - .010**
2.502	**.637**	**.005 - .010**
2.502	**.771**	**.005 - .010**
2.502	1.134	.040 - .060
2.502	1.500	.020 - .030
2.502	1.501	.080 - .100
2.502	1.796	.070 - .090
2.502	1.999	.125 - .156
2.502	**2.273**	**.005 - .010**
2.502	2.282	.025 - .040
2.503	.509	.010 - .020
2.503	.625	.040 - .060
2.503	1.578	.020 - .030
2.503	2.076	.070 - .090
2.503	2.139	.030 - .040
2.504	.875	.100 - .120
2.504	1.501	.050 - .070
2.505	.145	.025 - .040
2.505	.195	.060 - .080
2.505	.929	.050 - .070

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

New tools added continually. Call for sizes not listed — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To
2.505	1.413	.120 - .135
2.505	1.416	.100 - .134
2.505	**1.989**	**.005 - .010**
2.507	.562	.050 - .125
2.507	2.310	.015 - .025
2.510	.502	.090 - .105
2.511	.698	.105 - .125
2.511	.781	.040 - .060
2.511	1.980	.030 - .060
2.515	.145	.015 - .030
2.515	2.218	.080 - .100
2.516	1.581	.070 - .090
2.516	1.683	.030 - .050
2.518	1.918	.040 - .060
2.520	.354	.060 - .080
2.520	**.368**	**.005 - .010**
2.520	1.921	.020 - .030
2.520	2.121	.015 - .030
2.520	2.194	.050 - .070
2.520	**2.255**	**.005 - .010**
2.522	**1.921**	**.005 - .010**
2.523	2.040	.035 - .062
2.524	**.533**	**.005 - .010**
2.528	2.328	.020 - .030
2.530	1.251	.060 - .070
2.530	1.875	.060 - .080
2.530	**2.192**	**.005 - .010**
2.530	2.260	.020 - .030
2.530	**2.316**	**.005 - .010**
2.531	2.331	.015 - .025
2.533	**2.365**	**.005 - .010**
2.534	2.087	.050 - .060
2.539	.301	.040 - .060
2.540	1.528	.030 - .050
2.540	**1.942**	**.005 - .010**
2.540	2.090	.010 - .020
2.540	2.095	.030 - .050
2.541	1.939	.025 - .040
2.542	**1.897**	**.005 - .010**
2.544	**1.393**	**.005 - .010**
2.544	2.241	.040 - .060
2.548	**2.213**	**.005 - .010**
2.549	**1.904**	**.005 - .010**
2.549	**2.049**	**.005 - .010**
2.550	**.410**	**.005 - .010**
2.550	**2.300**	**.005 - .010**
2.555	**1.873**	**.005 - .010**
2.555	1.899	.030 - .048
2.557	1.640	.010 - .020
2.558	1.385	.050 - .075
2.558	2.070	.060 - .070
2.559	.417	.135 - .156
2.559	1.639	.010 - .020
2.559	1.897	.105 - .120
2.560	.531	.135 - .187
2.560	1.136	.050 - .070
2.560	1.220	.040 - .050
2.560	1.250	.025 - .040
2.560	1.422	.030 - .050
2.560	**1.879**	**.005 - .010**
2.560	1.898	.090 - .105
2.561	.760	.020 - .040
2.561	1.657	.100 - .134
2.561	2.091	.042 - .060
2.562	.407	.030 - .050
2.562	1.562	.100 - .125
2.562	1.811	.020 - .035
2.562	2.313	.010 - .020
2.563	.756	.020 - .040
2.563	2.003	.020 - .040
2.563	2.006	.015 - .030
2.563	**2.028**	**.005 - .010**
2.564	1.706	.080 - .105
2.564	**2.435**	**.005 - .010**
2.565	**.412**	**.005 - .010**
2.565	2.146	.015 - .045
2.565	**2.434**	**.005 - .020**
2.566	2.320	.040 - .060
2.567	.407	.030 - .050
2.570	1.827	.070 - .090

O.D.	I.D.	Choose Any Thickness* From To
2.570	1.828	.010 - .020
2.571	.710	.080 - .100
2.574	2.250	.010 - .020
2.575	.711	.040 - .060
2.578	1.025	.030 - .060
2.578	**2.076**	**.005 - .010**
2.579	2.060	.090 - .120
2.580	1.381	.120 - .135
2.580	2.137	.020 - .040
2.580	2.196	.015 - .025
2.580	2.338	.020 - .040
2.582	1.750	.010 - .020
2.583	.880	.040 - .060
2.585	.536	.110 - .130
2.586	2.031	.020 - .040
2.588	.391	.060 - .080
2.589	2.100	.040 - .060
2.590	.345	.105 - .125
2.590	2.253	.050 - .070
2.591	2.373	.020 - .030
2.591	2.376	.015 - .030
2.594	2.368	.020 - .030
2.595	1.580	.020 - .080
2.598	1.625	.080 - .100
2.598	**2.392**	**.005 - .010**
2.599	1.378	.010 - .020
2.599	1.387	.060 - .080
2.600	**.503**	**.005 - .020**
2.600	.629	.010 - .020
2.600	.752	.015 - .030
2.600	.753	.008 - .015
2.600	.755	.010 - .020
2.600	**.812**	**.005 - .020**
2.600	1.456	.020 - .030
2.600	1.782	.020 - .030
2.600	2.120	.060 - .080
2.600	2.176	.018 - .031
2.600	2.180	.018 - .030
2.600	2.300	.040 - .060
2.601	1.391	.070 - .090
2.602	1.378	.010 - .020
2.602	2.402	.030 - .050
2.603	1.250	.020 - .040
2.603	1.932	.050 - .070
2.603	2.180	.020 - .031
2.604	1.559	.050 - .070
2.605	1.685	.050 - .070
2.605	1.810	.050 - .070
2.607	2.015	.010 - .030
2.607	2.063	.050 - .070
2.608	2.063	.025 - .040
2.608	2.200	.035 - .050
2.610	.513	.090 - .135
2.610	**2.262**	**.005 - .010**
2.611	2.303	.030 - .050
2.612	2.300	.050 - .070
2.613	1.697	.025 - .040
2.615	.560	.100 - .125
2.615	2.136	.010 - .020
2.615	2.140	.050 - .075
2.615	2.354	.020 - .030
2.617	1.549	.050 - .075
2.618	1.760	.105 - .125
2.619	2.124	.015 - .025
2.620	.412	.010 - .020
2.620	**.553**	**.005 - .010**
2.620	**1.124**	**.005 - .008**
2.620	1.255	.040 - .060
2.620	**1.322**	**.005 - .010**
2.620	2.381	.010 - .020
2.622	.252	.120 - .134
2.622	.341	.075 - .090
2.622	1.067	.015 - .030
2.622	1.130	.050 - .075
2.622	1.637	.030 - .050
2.622	1.868	.040 - .060
2.622	2.002	.015 - .030
2.623	**.514**	**.005 - .010**
2.623	2.025	.075 - .090
2.623	2.372	.010 - .020

O.D.	I.D.	Choose Any Thickness* From To
2.623	**2.376**	**.005 - .010**
2.624	.124	.030 - .050
2.624	.750	.105 - .125
2.624	.754	.040 - .060
2.624	1.533	.080 - .100
2.624	1.571	.110 - .130
2.624	1.781	.030 - .050
2.624	1.791	.015 - .030
2.624	**1.897**	**.005 - .010**
2.624	1.958	.090 - .120
2.624	**1.996**	**.005 - .010**
2.625	.251	.040 - .050
2.625	.281	.080 - .104
2.625	.347	.100 - .125
2.625	**.362**	**.005 - .010**
2.625	.376	.050 - .075
2.625	.383	.100 - .125
2.625	.385	.048 - .062
2.625	.469	.105 - .135
2.625	**.502**	**.005 - .010**
2.625	.503	.015 - .030
2.625	.627	.090 - .120
2.625	.750	.040 - .070
2.625	.874	.050 - .075
2.625	1.000	.060 - .070
2.625	**1.020**	**.005 - .010**
2.625	**1.075**	**.005 - .010**
2.625	1.250	.030 - .040
2.625	1.315	.080 - .100
2.625	1.413	.080 - .104
2.625	1.516	.100 - .125
2.625	1.531	.104 - .134
2.625	1.640	.010 - .060
2.625	1.701	.025 - .040
2.625	**1.760**	**.005 - .010**
2.625	1.781	.015 - .030
2.625	1.882	.010 - .020
2.625	1.926	.050 - .075
2.625	1.998	.105 - .125
2.625	**2.002**	**.005 - .010**
2.625	2.010	.020 - .030
2.625	2.367	.040 - .060
2.626	**.440**	**.005 - .010**
2.626	.500	.104 - .134
2.626	.895	.105 - .135
2.626	1.516	.100 - .125
2.626	1.532	.006 - .015
2.626	1.562	.015 - .025
2.626	1.577	.030 - .050
2.626	1.658	.060 - .090
2.626	1.745	.060 - .090
2.626	1.807	.025 - .040
2.626	1.825	.060 - .090
2.626	1.836	.060 - .080
2.626	**1.849**	**.005 - .010**
2.626	1.871	.010 - .020
2.626	1.933	.060 - .090
2.626	2.000	.015 - .050
2.626	2.074	.060 - .080
2.627	.394	.010 - .020
2.627	**.395**	**.005 - .010**
2.627	.500	.135 - .187
2.627	1.266	.025 - .040
2.627	1.296	.060 - .075
2.627	1.317	.060 - .080
2.627	1.461	.060 - .075
2.627	1.561	.060 - .075
2.627	1.674	.105 - .125
2.627	1.949	.025 - .040
2.627	2.263	.010 - .020
2.627	2.321	.040 - .060
2.628	**.351**	**.005 - .010**
2.628	.634	.080 - .100
2.628	1.878	.040 - .060
2.628	**1.881**	**.005 - .010**
2.628	2.253	.050 - .070
2.629	1.920	.050 - .070
2.629	**2.290**	**.005 - .010**
2.630	1.419	.030 - .050
2.630	1.610	.090 - .105

O.D.	I.D.	Choose Any Thickness* From To
2.630	2.291	.060 - .080
2.630	**2.292**	**.005 - .010**
2.630	2.385	.030 - .060
2.631	**2.288**	**.005 - .010**
2.635	**1.634**	**.005 - .010**
2.635	1.868	.015 - .030
2.635	1.911	.080 - .100
2.636	**1.636**	**.005 - .010**
2.640	**1.630**	**.005 - .010**
2.640	2.410	.030 - .050
2.645	2.057	.010 - .020
2.645	2.175	.030 - .040
2.647	2.174	.020 - .040
2.650	.628	.010 - .020
2.650	.754	.020 - .030
2.650	**2.080**	**.005 - .010**
2.655	1.137	.050 - .060
2.657	2.219	.040 - .050
2.660	2.217	.010 - .020
2.662	2.050	.040 - .060
2.665	2.055	.040 - .060
2.665	2.230	.040 - .060
2.666	1.715	.040 - .060
2.673	1.003	.020 - .040
2.674	1.003	.010 - .020
2.675	1.440	.040 - .060
2.676	1.003	.040 - .060
2.677	2.362	.030 - .050
2.677	2.382	.060 - .080
2.677	2.440	.020 - .035
2.685	.843	.020 - .040
2.685	.844	.030 - .050
2.687	1.635	.090 - .105
2.694	2.081	.080 - .093
2.700	.780	.040 - .060
2.700	2.370	.020 - .040
2.700	**2.540**	**.005 - .010**
2.713	2.380	.020 - .035
2.720	1.125	.020 - .040
2.725	2.010	.035 - .050
2.730	2.007	.020 - .035
2.734	2.323	.020 - .030
2.735	1.985	.030 - .040
2.735	2.000	.050 - .060
2.736	2.253	.010 - .020
2.739	2.403	.020 - .040
2.740	2.200	.020 - .030
2.740	2.250	.010 - .020
2.742	1.728	.030 - .040
2.743	2.520	.030 - .040
2.745	**.888**	**.005 - .010**
2.745	2.345	.020 - .030
2.747	1.400	.025 - .040
2.749	1.376	.040 - .050
2.750	.505	.010 - .020
2.750	.563	.090 - .125
2.750	.628	.010 - .030
2.750	.629	.010 - .020
2.750	.760	.020 - .040
2.750	1.200	.020 - .030
2.750	1.250	.010 - .020
2.750	1.300	.020 - .035
2.750	1.635	.020 - .030
2.750	1.880	.020 - .040

For sizes not listed contact BOKER's at (800) 927-4377.

2.750

O.D.	I.D.	Choose Any Thickness* From To
2.750	2.000	.010 - .020
2.750	2.000	.030 - .050
2.755	.375	.010 - .020
2.755	1.260	.035 - .045
2.755	2.346	.025 - .035
2.755	2.401	.010 - .040
2.756	1.085	.010 - .020
2.756	2.284	.040 - .050
2.756	2.401	.040 - .050
2.760	1.850	.020 - .040
2.780	2.263	.025 - .040
2.780	2.363	.020 - .040
2.780	2.480	.010 - .050
2.781	2.531	.006 - .010
2.790	1.747	.030 - .040
2.795	2.430	.006 - .010
2.796	2.343	.060 - .078
2.798	.750	.010 - .030
2.798	**2.506**	**.005 - .010**
2.799	.755	.020 - .030
2.800	.628	.010 - .020
2.800	1.867	.020 - .030
2.800	2.000	.010 - .020
2.810	.169	.015 - .025
2.810	2.375	.006 - .010
2.810	2.400	.010 - .020
2.812	.192	.050 - .062
2.815	1.969	.020 - .040
2.816	2.200	.020 - .035
2.816	2.406	.020 - .040
2.825	2.440	.010 - .020
2.828	1.435	.030 - .040
2.829	1.192	.010 - .015
2.829	2.270	.020 - .040
2.830	1.810	.020 - .040
2.830	2.263	.050 - .060
2.835	.267	.020 - .040
2.840	2.540	.010 - .020
2.843	.781	.010 - .015
2.843	2.538	.010 - .015
2.845	**2.540**	**.005 - .040**
2.850	**2.370**	**.005 - .010**
2.850	2.650	.020 - .040
2.854	1.583	.010 - .020
2.869	**1.765**	**.005 - .010**
2.869	1.900	.030 - .050
2.870	1.780	.048 - .062
2.871	1.316	.020 - .030
2.872	1.700	.010 - .020
2.875	.755	.040 - .060
2.875	**1.500**	**.005 - .030**
2.875	2.255	.020 - .040
2.875	2.275	.030 - .050
2.880	2.020	.030 - .040
2.880	2.263	.050 - .060
2.880	2.500	.015 - .030
2.883	2.000	.008 - .016
2.885	2.475	.015 - .030
2.890	**2.390**	**.005 - .010**
2.895	2.420	.020 - .030
2.900	.630	.010 - .030
2.900	.780	.080 - .105
2.900	2.010	.060 - .080
2.900	2.400	.010 - .040
2.911	1.656	.040 - .060
2.915	1.965	.040 - .060
2.915	2.643	.020 - .030
2.916	1.965	.040 - .060
2.919	1.257	.050 - .060
2.920	2.030	.050 - .060
2.925	1.690	.040 - .060
2.925	2.362	.020 - .040
2.930	2.710	.020 - .030
2.931	1.310	.040 - .060
2.932	2.596	.010 - .020
2.934	2.597	.060 - .070
2.935	2.520	.020 - .030
2.937	1.375	.040 - .060
2.937	1.500	.040 - .060
2.937	2.640	.025 - .040

3.000

O.D.	I.D.	Choose Any Thickness* From To
2.940	1.325	.048 - .062
2.944	.572	.010 - .020
2.945	1.994	.040 - .060
2.949	1.511	.040 - .060
2.950	.628	.010 - .020
2.950	2.229	.040 - .050
2.950	2.250	.015 - .025
2.950	2.260	.020 - .040
2.955	1.719	.040 - .050
2.958	2.469	.040 - .060
2.965	2.485	.020 - .040
2.967	.786	.040 - .060
2.969	2.156	.010 - .025
2.977	2.330	.020 - .040
2.980	2.450	.010 - .020
2.986	2.230	.060 - .080
2.994	2.394	.010 - .020
2.995	.949	.010 - .015
2.997	2.187	.010 - .020
2.998	2.380	.050 - .060
3.000	.250	.030 - .050
3.000	**.253**	**.005 - .010**
3.000	.312	.040 - .060
3.000	.343	.010 - .015
3.000	.375	.020 - .040
3.000	.531	.090 - .105
3.000	.560	.050 - .070
3.000	.750	.090 - .105
3.000	.981	.015 - .030
3.000	1.020	.020 - .035
3.000	1.218	.010 - .015
3.000	1.748	.048 - .062
3.000	1.750	.050 - .070
3.000	2.000	.020 - .040
3.000	2.125	.030 - .050
3.000	2.255	.010 - .020
3.000	2.500	.048 - .062
3.000	2.527	.040 - .060
3.000	2.550	.020 - .040
3.009	1.650	.048 - .062
3.010	2.530	.030 - .040
3.015	2.665	.008 - .015
3.029	2.184	.050 - .070
3.030	2.917	.010 - .020
3.031	2.185	.030 - .040
3.031	2.310	.050 - .060
3.031	2.435	.050 - .060
3.032	2.913	.030 - .050
3.037	.820	.020 - .035
3.047	1.795	.040 - .050
3.050	.630	.015 - .030
3.060	2.015	.010 - .015
3.060	2.180	.040 - .050
3.062	2.750	.020 - .030
3.062	2.798	.025 - .035
3.063	2.372	.048 - .062
3.065	1.560	.090 - .105
3.065	2.800	.040 - .050
3.066	2.550	.040 - .050
3.067	.901	.040 - .050
3.070	1.775	.010 - .020
3.070	1.930	.020 - .040
3.077	.941	.040 - .060
3.080	2.190	.040 - .050
3.085	2.458	.060 - .080
3.090	1.650	.048 - .062
3.093	2.628	.020 - .040
3.094	2.000	.010 - .020
3.099	2.757	.040 - .050
3.100	.628	.010 - .020
3.100	**2.500**	**.005 - .060**
3.100	2.501	.030 - .050
3.100	2.750	.030 - .050
3.107	2.122	.040 - .060
3.120	2.747	.040 - .060

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

Need Disks? All O.D. sizes available with no I.D. — (800) 927-4377, Fax (800) 321-3462.

O.D.	I.D.	Choose Any Thickness* From To
3.120	2.750	.010 - .020
3.121	1.641	.048 - .062
3.123	2.151	.015 - .025
3.123	2.153	.010 - .020
3.125	.906	.080 - .090
3.125	1.900	.048 - .062
3.125	1.902	.040 - .060
3.125	2.000	.020 - .040
3.130	.315	.105 - .125
3.138	1.566	.020 - .030
3.138	1.578	.020 - .030
3.140	1.446	.020 - .030
3.149	.722	.090 - .125
3.149	1.671	.020 - .050
3.150	.630	.010 - .030
3.150	1.673	.040 - .060
3.175	2.700	.010 - .020
3.181	2.230	.040 - .050
3.185	**1.023**	**.005 - .010**
3.185	2.940	.020 - .030
3.191	1.955	.040 - .060
3.195	**1.260**	**.005 - .010**
3.195	1.355	.020 - .035
3.200	2.500	.010 - .075
3.220	3.024	.020 - .030
3.244	**1.425**	**.005 - .010**
3.248	2.776	.010 - .015
3.249	**1.001**	**.005 - .010**
3.250	.190	.010 - .020
3.250	.628	.010 - .020
3.250	.750	.010 - .015
3.250	**1.013**	**.005 - .010**
3.250	**1.338**	**.005 - .010**
3.250	2.375	.030 - .050
3.250	2.510	.020 - .030
3.250	2.563	.010 - .020
3.250	2.670	.010 - .020
3.259	2.694	.010 - .060
3.265	2.465	.020 - .030
3.290	2.280	.020 - .035
3.290	3.115	.020 - .035
3.300	.630	.015 - .030
3.300	2.270	.020 - .035
3.306	2.505	.040 - .050
3.313	2.753	.025 - .040

O.D.	I.D.	Choose Any Thickness* From To
3.337	.308	.080 - .090
3.340	2.943	.020 - .030
3.341	**2.565**	**.005 - .010**
3.364	1.404	.020 - .030
3.367	2.065	.020 - .030
3.370	2.625	.048 - .062
3.375	3.156	.015 - .025
3.385	3.146	.020 - .030
3.387	1.816	.020 - .030
3.390	.191	.010 - .015
3.393	1.841	.020 - .040
3.395	3.020	.020 - .030
3.400	.400	.048 - .062
3.400	.628	.020 - .030
3.426	2.939	.010 - .030
3.427	2.940	.020 - .035
3.430	3.077	.020 - .040
3.450	.630	.010 - .030
3.450	**1.554**	**.005 - .010**
3.450	2.610	.040 - .050
3.450	3.125	.030 - .040
3.452	3.038	.010 - .015
3.454	3.055	.015 - .030
3.463	2.632	.020 - .030
3.466	2.230	.040 - .060
3.470	.705	.090 - .105
3.481	2.415	.010 - .020
3.482	2.703	.032 - .042
3.484	2.880	.035 - .048
3.491	2.000	.010 - .015
3.494	.636	.090 - .125
3.497	2.670	.060 - .080
3.500		
3.500	.135	.015 - .025
3.500	.504	.040 - .060
3.500	2.000	.040 - .060
3.500	2.030	.040 - .050
3.500	2.250	.020 - .035

O.D.	I.D.	Choose Any Thickness* From To
3.500	2.500	.010 - .020
3.500	3.060	.010 - .015
3.500	3.125	.020 - .030
3.500	3.158	.020 - .030
3.500	3.250	.010 - .020
3.503	2.702	.040 - .060
3.510	2.510	.020 - .040
3.511	3.207	.040 - .050
3.515	3.050	.050 - .060
3.520	2.750	.020 - .030
3.537	2.186	.020 - .040
3.537	2.280	.030 - .050
3.540	2.890	.015 - .030
3.543	3.150	.015 - .025
3.550	.628	.020 - .030
3.550	2.975	.020 - .030
3.551	3.015	.020 - .030
3.557	2.782	.010 - .020
3.570	.259	.030 - .050
3.570	1.070	.040 - .060
3.570	1.090	.030 - .040
3.575	1.020	.036 - .050
3.586	3.275	.020 - .032
3.609	2.250	.025 - .040
3.609	2.500	.025 - .040
3.620	.750	.040 - .060
3.625	2.030	.062 - .080
3.625	3.196	.020 - .030
3.640	2.072	.020 - .040
3.647	2.346	.015 - .036
3.661	2.992	.010 - .030
3.663	2.427	.040 - .060
3.700	2.899	.040 - .060
3.700	2.960	.020 - .040
3.733	3.332	.020 - .035
3.735	3.300	.010 - .020
3.750	.656	.090 - .105
3.750	.875	.020 - .035
3.750	**3.015**	**.005 - .010**
3.750	3.250	.035 - .045
3.761	1.870	.030 - .050
3.780	3.049	.020 - .040
3.781	1.435	.030 - .050
3.800	3.300	.020 - .035
3.800	3.350	.020 - .040

O.D.	I.D.	Choose Any Thickness* From To
3.819	3.415	.040 - .060
3.823	3.332	.030 - .040
3.850	1.780	.020 - .040
3.870	1.370	.020 - .032
3.874	1.642	.050 - .062
3.875	1.150	.040 - .060
3.880	2.515	.030 - .050
3.881	2.396	.050 - .060
3.889	2.315	.020 - .030
3.900	2.700	.050 - .060
3.900	3.360	.020 - .040
3.908	2.352	.020 - .040
3.925	2.224	.020 - .030
3.937	1.673	.010 - .020
3.937	2.008	.015 - .025
3.937	2.362	.020 - .032
3.940	3.150	.050 - .060
3.945	3.505	.020 - .040
3.960	3.612	.030 - .050
3.987	1.891	.010 - .015
3.997	**1.381**	**.005 - .010**
3.998	2.998	.010 - .020
4.000		
4.000	.504	.040 - .060
4.000	.690	.040 - .060
4.000	1.010	.050 - .070
4.000	2.000	.008 - .015
4.000	2.281	.008 - .015
4.000	2.530	.030 - .050
4.000	2.562	.048 - .062
4.000	2.577	.020 - .040
4.000	2.780	.040 - .060
4.000	3.000	.008 - .025
4.000	3.362	.010 - .020
4.000	3.410	.020 - .030
4.000	3.426	.020 - .030
4.000	3.544	.015 - .025
4.015	3.572	.040 - .060

O.D.	I.D.	Choose Any Thickness* From To
4.025	3.060	.040 - .060
4.026	3.309	.050 - .060
4.055	1.299	.050 - .060
4.055	**3.750**	**.005 - .010**
4.065	3.275	.020 - .030
4.095	3.858	.010 - .020
4.096	3.267	.010 - .020
4.120	2.549	.020 - .030
4.120	3.150	.035 - .050
4.125	1.781	.040 - .050
4.125	3.430	.020 - .030
4.125	3.750	.020 - .040
4.127	3.214	.048 - .062
4.130	.660	.020 - .030
4.150	3.576	.020 - .030
4.195	2.136	.010 - .020
4.200	3.505	.020 - .032
4.218	1.618	.020 - .040
4.224	1.520	.020 - .032
4.240	2.525	.020 - .032
4.250	.780	.010 - .020
4.250	.801	.020 - .030
4.250	3.550	.050 - .060
4.250	3.570	.020 - .030
4.250	3.660	.015 - .025
4.254	3.018	.040 - .050
4.270	3.935	.020 - .040
4.300	3.200	.020 - .040
4.308	2.746	.020 - .040
4.320	2.385	.020 - .040
4.358	.485	.048 - .062
4.368	3.273	.020 - .035
4.373	3.776	.010 - .015
4.375	4.083	.030 - .040
4.376	3.258	.025 - .040
4.380	3.375	.006 - .012
4.398	3.986	.015 - .030
4.402	2.778	.010 - .020
4.420	3.890	.020 - .030
4.432	3.810	.020 - .035
4.434	3.153	.010 - .015
4.435	.756	.050 - .070
4.470	3.470	.020 - .030
4.471	3.468	.020 - .030
4.480	4.030	.025 - .035

O.D.	I.D.	Choose Any Thickness* From To
4.490	4.223	.030 - .050
4.500	.504	.040 - .060
4.500	2.500	.048 - .062
4.550	.243	.040 - .060
4.570	3.870	.020 - .030
4.623	4.328	.010 - .015
4.688	**3.560**	**.005 - .010**
4.688	**3.879**	**.005 - .010**
4.700	3.865	.010 - .020
4.706	3.140	.020 - .030
4.710	3.873	.010 - .020
4.720	3.884	.020 - .035
4.730	4.083	.030 - .050
4.850	**4.450**	**.005 - .010**
4.860	.390	.090 - .125
4.860	4.350	.020 - .036
4.860	4.600	.015 - .030
4.875	3.018	.020 - .030
4.935	4.763	.015 - .025
4.950	4.393	.010 - .020
4.960	4.260	.020 - .030
4.975	3.165	.025 - .040
4.994	4.904	.020 - .040
5.000		
5.000	.270	.040 - .060
5.000	1.562	.030 - .050
5.125	4.393	.015 - .025
5.140	2.860	.006 - .012
For outside diameters up to 12" contact BOKER's at (800) 927-4377.		

*With BOKER'S precision metal washers, you can choose the exact thickness you want from the tool range listed.
Tools indicated in **BOLD** can also be used for non-metallic materials – see page 3 for details.

NEW TOOLS CONTINUALLY ADDED!

For the most up-to-date list of washer sizes, please visit

bokers.com

Equipment and Capabilities List

Housed in over 100,000 square feet of buildings, the equipment listed below, as well as all tooling, are protected by a central station security and fire system.

Tool & Die Department

- CAD CAM Drawing System
- Kitamura Vertical Machine Center
- Mori Seiki Vertical Machine Center (20″ x 40″)
- Mori Seiki High Precision C.N.C. Lathes
- Digital Optical Comparator
- (2) Clausing Surface Grinders
- Matsui Precision Grinder
- (3) Charmilles Wire E.D.M.s (14″ x 21″ x 8″)
- Charmilles E.D.M. Drill
- Okamoto Precision Grinder
- Stratasys Dimension SST 1200ES 3D Printer

Washer Department

- 18 Punch Presses (10 to 75 tons)
- Digital Servo Feeders
- Electric Coil Reels (1,200 lb. capacity)
- Coil Straighteners
- Tonnage Monitors

Stamping Department

- 46 Punch Presses (10 to 180 tons)
- 2 High Speed Minster Progressive Die Presses (60 to 150 tons)
- Digital Servo Feeders
- Electric Coil Reels (6,000 lb. capacity)
- 48″ Press Brake
- Optical Part Detection Systems
- Press Control Automation
- Tonnage Monitors

Heat Treating Department

- Electric High Temperature Hardening Furnaces
- Electric Tempering Furnaces (all furnaces calibrated)

Raw Stock & Shear Department

- 2-10′ Shears (.25″ thick maximum)
- Stanat Model Rolling Mill
- Cooper Weymouth Roller Levelers
- Coil Set Straightener
- Wilder Coil Slitter
- Computer Inventory & Control System

Secondary Operations Department

- Trimming Lathes
- Production Milling Machines
- Pneumatic Presses
- Tapping Machines
- 6 Spindle Machine Centers (multiple head drilling, tapping, and reaming)
- 4 Straight-liners up to 18″
- Parts Washing System

Cleaning & Deburring Department

- Agitated Chemical Washing System
- Rotary Deburring Machines
- Vibratory Deburring Machines
- Centrifugal Tumblers
- Heated Centrifugal Dryers
- Lewis Ultrasonic Cleaner
- High Energy Deburring Machines
- Mass Finishing Machines
- Custom Parts Dryer

Material Capabilities

- Material Thickness: .005″ to .134″
- Blank Size: 12″ x 12″ maximum (flat)
- Draws: 8″ diameter, 3″ deep maximum

Shipping Department

- Toledo Electronic Scales & Printer
- Precision Electronic Scales & Printers
- Automated Protective Packaging Bagger
- Polychem Automatic Plastic Strapping System
- Hercules Ergo Container Handling System
- Wulftec Pallet Wrapper

Inspection Department

- Numerex Coordinate Measuring Machine
- Digital Optical Comparator
- Digital Buehler Hardness Tester
- Digital Profilometer
- Ceramic Gauge Block Sets
- Plug Gauge Sets
- Height Gauges
- Thread Gauges
- Statistical Process & Capability Studies Available
- Climate Controlled

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Call 800-WASHERS
bokers.com • sales@bokers.com

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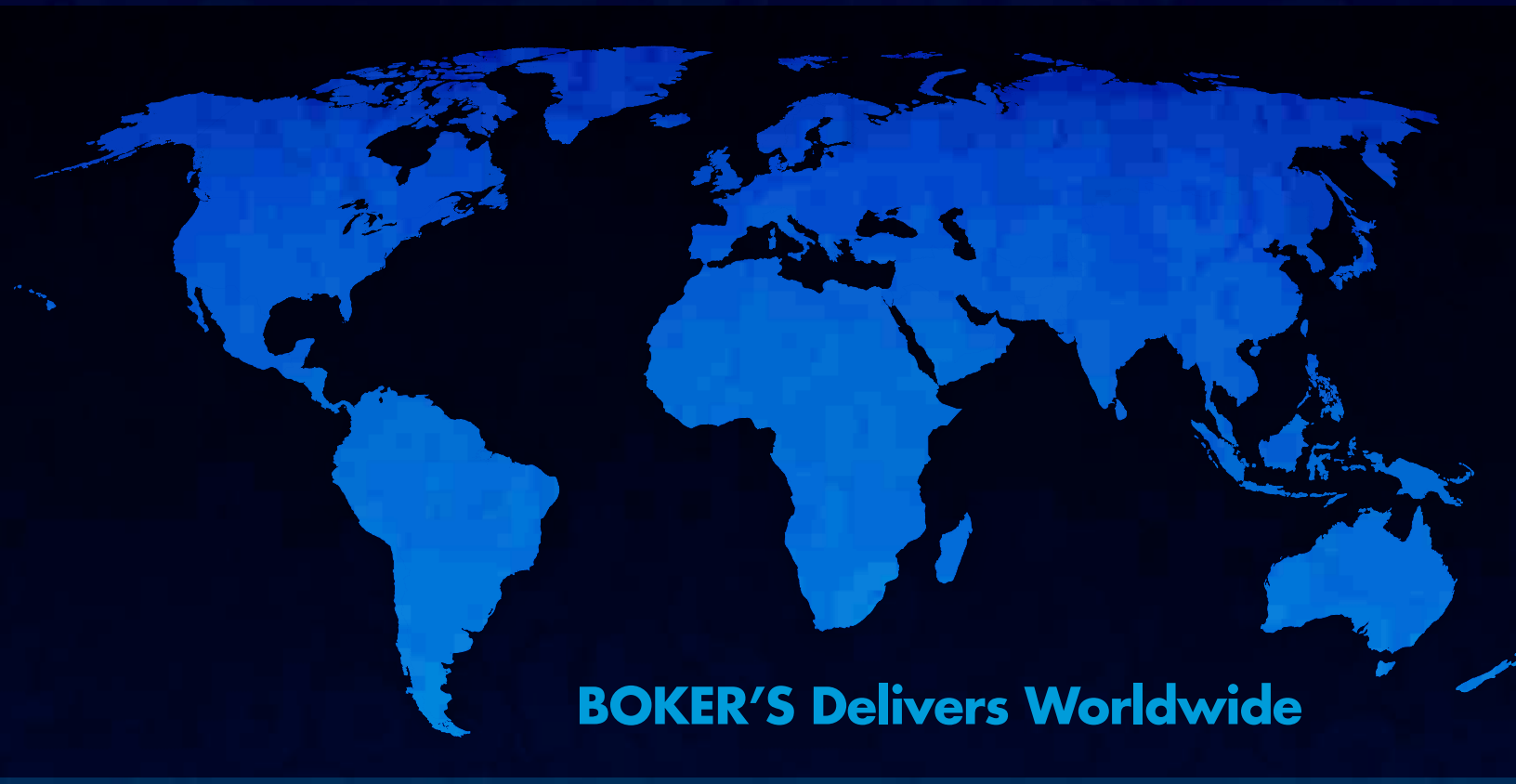
FAX (800) 321-3462

INCH & MILLIMETER EQUIVALENTS

1 mm = .03937″ .001″ = .0254 mm

FRACTION	DECIMALS	MILLIMETERS
1/64	0.015625	0.397
1/32	.03125	0.794
3/64	.046875	1.191
1/16	.0625	1.588
5/64	.078125	1.984
3/32	.09375	2.381
7/64	.109375	2.778
1/8	.1250	3.175
9/64	.140625	3.572
5/32	.15625	3.969
11/64	.171875	4.366
3/16	.1875	4.763
13/64	.203125	5.159
7/32	.21875	5.556
15/64	.234375	5.953
1/4	.2500	6.350
17/64	.265625	6.747
9/32	.28125	7.144
19/64	.296875	7.541
5/16	.3125	7.938
21/64	.328125	8.334
11/32	.34375	8.731
23/64	.359375	9.128
3/8	.3750	9.525
25/64	.390625	9.922
13/32	.40625	10.319
27/64	.421875	10.716
7/16	.4375	11.113
29/64	.453125	11.509
15/32	.46875	11.906
31/64	.484375	12.303
1/2	.5000	12.700
33/64	0.515625	13.097
17/32	.53125	13.494
35/64	.546875	13.891
9/16	.5625	14.288
37/64	.578125	14.684
19/32	.59375	15.081
39/64	.609375	15.478
5/8	.6250	15.875
41/64	.640625	16.272
21/32	.65625	16.669
43/64	.671875	17.066
11/16	.6875	17.463
45/64	.703125	17.859
23/32	.71875	18.256
47/64	.734375	18.653
3/4	.7500	19.050
49/64	.765625	19.447
25/32	.78125	19.844
51/64	.796875	20.241
13/16	.8125	20.638
53/64	.828125	21.034
27/32	.84375	21.431
55/64	.859375	21.828
7/8	.8750	22.225
57/64	.890625	22.622
29/32	.90625	23.019
59/64	.921875	23.416
15/16	.9375	23.813
61/64	.953125	24.209
31/32	.96875	24.606
63/64	.984375	25.003
1	1.000	25.400

MM	INCHES	MM	INCHES
.1	.0039	46	1.8110
.2	.0079	47	1.8504
.3	.0118	48	1.8898
.4	.0157	49	1.9291
.5	.0197	50	1.9685
.6	.0236	51	2.0079
.7	.0276	52	2.0472
.8	.0315	53	2.0866
.9	.0354	54	2.1260
1	.0394	55	2.1654
2	.0787	56	2.2047
3	.1181	57	2.2441
4	.1575	58	2.2835
5	.1969	59	2.3228
6	.2362	60	2.3622
7	.2756	61	2.4016
8	.3150	62	2.4409
9	.3543	63	2.4803
10	.3937	64	2.5197
11	.4331	65	2.5591
12	.4724	66	2.5984
13	.5118	67	2.6378
14	.5512	68	2.6772
15	.5906	69	2.7165
16	.6299	70	2.7559
17	.6693	71	2.7953
18	.7087	72	2.8346
19	.7480	73	2.8740
20	.7874	74	2.9134
21	.8268	75	2.9528
22	.8661	76	2.9921
23	.9055	77	3.0315
24	.9449	78	3.0709
25	.9843	79	3.1102
26	1.0236	80	3.1496
27	1.0630	81	3.1890
28	1.1024	82	3.2283
29	1.1417	83	3.2677
30	1.1811	84	3.3071
31	1.2205	85	3.3465
32	1.2598	86	3.3858
33	1.2992	87	3.4252
34	1.3386	88	3.4646
35	1.3780	89	3.5039
36	1.4173	90	3.5433
37	1.4567	91	3.5827
38	1.4961	92	3.6220
39	1.5354	93	3.6614
40	1.5748	94	3.7008
41	1.6142	95	3.7402
42	1.6535	96	3.7795
43	1.6929	97	3.8189
44	1.7323	98	3.8583
45	1.7717	99	3.8976
		100	3.9370



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