Stampings & Washers

2021 CATALOG

SERVING A WORLD OF INDUSTRIES

AS9100:2016
ISO9001:2015
CERTIFIED

BOKER'S, INC.
STAMPING & WASHER SPECIALISTS SINCE 1919

32,000 SIZES • 2,000 MATERIALS • ENDLESS POSSIBILITIES

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A Message From Our President

We are pleased to bring you the Boker's, Inc. 2021 Stampings & Washers Catalog. For over 102 years, we have been honored to provide stamped components and washer solutions to every market and industry to date.

2020 was a year of uncertainty, an unexpected test of many companies and industries agility, strength and determination to band together and get through the global pandemic. Boker's, Inc. is a part of the critical sector, specifically critical manufacturing as defined by the Department of Homeland Security. Throughout Boker's history, we have and will continue to serve all industries worldwide who are on the forefront of technology evolution in every critical infrastructure sector. We closely monitor developments and have policies in place to ensure we are able to supply products to our valued customers. Rest assured, we are here now and will be in the future.

Boker's new state-of-the-art facility is up and running. This expansion is a testament of our commitment to our mission of consistently meeting or exceeding quality objectives, on-time delivery and customer service expectations. We are excited that this expansion provides additional space to remain focused on the future without ever losing sight of our customers' needs, nor our team's. We wouldn't be here without our valued customers, and the trust they place in our service and quality components. Each and every customer is important to us, and we thank you for your business.

I invite you to read this 2021 Stampings & Washers Catalog and learn how Boker's can help provide value to your organization. I also invite you to connect with our experienced Sales Associates who can answer your questions, provide quotes or discuss solutions that solve for your newest challenge. As always, it is our greatest pleasure to be at your service.

Sincerely,

Amy Kersey

Amy Kersey
CEO/President

certified WBENC

Vitus Boker started using short run stamping methods in Denmark

***V.A. Boker & Sons** was founded in Minneapolis*

Second location on Erie Street

BOKER'S, INC.

1860 **1901** **1919** **1923** **1926** **1933**

Vitus immigrated to the United States

Check Protector patented

Third location at Bohemian Flats

The Spirit of Boker's

It all began in the Minneapolis basement of a young, passionate and focused man named Vitus Boker. He instilled the values of hard work and attention to detail throughout the company as it grew. These values still guide the company today, which inspires the team to provide an exceptional customer experience while producing the highest quality component parts.

Being a value-driven company also means giving back and being good stewards for the surrounding community. From drawing skilled tradespeople from across the Twin Cities to volunteering with local non-profits, Boker's brings passion and attention to detail to everything we do.

A Part of Every Industry

Boker's has been serving companies on the forefront of technology innovation for over 100 years. As a result, you come into contact with components that Boker's has manufactured almost every day. From airplanes, appliances and medical devices to outdoor recreational equipment, furniture and renewable energy, you interact with items that feature stamped components manufactured by Boker's.

Customers trust Boker's because of their service, quality and on-time delivery. Often times, customers come with a difficult part that they were struggling with and Boker's figures out how to manufacture the part to their exact specifications.

"Our team works hard and is dedicated to following and continually improving processes. This is the reason Boker's is successful and will continue to be so for the next 100 years."

— Chuck Kersey, Asst. Sales Manager

Continuing the Legacy

Boker's works in and serves all fast-paced and high-demand industries. Over the past 100+ years, we have embraced and been on the forefront of technology evolution and integration.

The future of Boker's is sticking to our wheelhouse of what we are known for while expanding our customer base and serving emerging markets. We will continue to expand capabilities by adapting and pursing new technologies and processes in an effort to continue exceeding customer expectations.

1939 — *4th location on Snelling Avenue*

1942 — *Vitus retired, leaving company to his children (John, William, Richard, Marie)*

1947 — *Held the first meeting of the board of directors*

1968 — *Boker's purchased by four employees (William Tedlund, Joseph Basara, Chester Engquist, Joseph Kantorowicz)*

1986 — *William Tedlund becomes sole owner*

2008 — *Expansion completed totaling over 90,000 square feet*

2018 — *Acquired additional manufacturing building with 66,500 square feet totaling over 165,000 square feet*

2019 — *Boker's celebrates **100th Anniversary***

The Boker's Advantage

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. **Whatever your requirements, if it can be stamped, we can turn it into the part you need.**

Metallic Materials: 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 others.

Non-Metallic Materials: Acetal, PTFE, polyester, nylon, fiber, polyethylene, various phenolics and NEMA grade phenolics and others.

Superalloys: Iron, cobalt and nickel based alloys such as: Hastelloy, Inconel, Monel and others.

Secondary Operations

Boker's provides secondary operations including deburring, tapping, counterboring, reaming, and spotfacing to name a few. We also have approved vendors for plating, heat treating, grinding, testing and others.

Boker's Environmental Compliance

Boker's, Inc. is committed to responsible business practices that portray our dedication to our employees, customers, country and world.

Certified Quality Management System

AS9100:2016
ISO9001:2015
CERTIFIED

Our Quality Management System (QMS) is AS 9100:2016 / ISO 9001:2015 Certified. When you purchase products from us, you can be confident that our processes are efficient and effective.

Quality Assurance and Certification

- ✔ C of C
- ✔ PPAP
- ✔ DFARS
- ✔ RoHS
- ✔ S.P.C.
- ✔ F.A.I.
- ✔ AS9102
- ✔ REACH
- ✔ ITAR
- ✔ IMDS
- ✔ Dock-To-Stock
- ✔ Conflict Minerals
- ✔ CA Proposition 65
- ✔ Latex-Free

Stay in the Loop with Boker's Bulletin

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**

Bokers.com is Your Complete Resource

Boker's website provides extensive stamping information including access to thousands of non-standard flat washer, spacer, shim and disk sizes.

Simply key in the desired size range in inch or millimeter measurements by O.D. or I.D. and get immediate display of all stock tool sizes.

Working With Boker's

Boker's 3D Printing Prototyping Services

Boker's offers additive manufacturing (3D printing) to provide customers with 3D prototypes. See how your product will turn out in advance. This service allows our customers to test parts for form and fit prior to production of the actual stamped part.

Inspection Reports

Certificates of Compliance, Chemical/Physical Analysis, PPAP, FAI and AS9102 are available upon request.

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. Your order may also be expedited for 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 production capacity and enhanced technology allows Boker's quality stampings and non-standard washers to be manufactured quickly, well into the millions.

Prototype Before Production

No more guess work or uncertainty.

Only precision.

Make sure to take advantage of our capabilities next time you work with us.

STAMPINGS

Quality Stampings Made to Order

Vitus Boker launched the company based on pioneering the production of high-quality, short-run stamped metal parts. With over 100 years of experience, Boker's has earned the reputation as a stamping leader and the respect of many customers for their specialized metal components.

Draws up to 3" deep and 8" in diameter

Complex metal forming needs in thicknesses from .005" to .190" (varies by material)

Flat blanking and piercing up to 12" by 12"

Draws, Forming, Blanking and Piercing

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.

Production Process Overview:

- In-House tool and die department designs and produces custom tooling to be used in the stamping process.
- Material warehouse shears sheets of material into strips, or issues a coil of material—metallic or non-metallic.
- The material then transfers to the production floor to be stamped using the custom or stock tool(s) in one or more of our many varieties of punch presses.
- Parts are then (in any combination) blanked, deburred, formed, drawn, tapped or pieced in-house. After in-house production is complete parts may be sent to an approved vendor for plating, heat treating, grinding, or testing before going to Boker's Quality Assurance Department. In our Q.A. Lab, parts are inspected to ensure they meet customer's specifications before being released for shipping.

Metric Sizes No Problem!

Washers, Spacers and Shims

Boker's maintains over 32,000 stock tools for flat washers, spacers and shims. You can choose from a wide variety of sizes, thicknesses and materials, including non-metallics. With outside diameters of 0.080" to 5.140" and a wide variety of inside diameters, you have millions of flat washer possibilities.

Special Shapes and Sizes

Boker's also makes special washer shapes and sizes—up to 12" in outside diameter. We can produce a vast number of custom washer types with little to no tooling costs.

Tell us what you need, and we'll make it to your exact specifications. Visit **bokers.com** to submit a drawing or print for a fast quote or to search metric sizes.

Precision Fabrication

When you've been successful for 100+ years, quality isn't just a promise, it's a mission. The washers, spacers and shims you get from Boker's will 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. Boker's dedicates every department to the task of providing the highest quality washers, spacers and shims.

As a final check, your parts are inspected in the Q.A. Lab before your order is shipped.

The Widest Range of Disks Available

Disks, commonly referred to as discs, circles, plates and/or slugs, are typically round washers with or without a center hole and are typically used to provide a precise space between components or materials or for load disbursement.

All of Boker's 32,000+ flat washer sizes are available without the I.D. hole in more than 2,000 commonly specified and difficult-to-find materials.

- **Sizes up to 12" x 12" (flat)**
- **Thicknesses from .005" to .190" (varies by material)**

Boker's Is a Part of Your Daily Life

Boker's has manufactured parts for almost every industry and product imaginable: from watercrafts and renewable energy, to medical devices, satellites, airplanes, off-road vehicles and more.

Stampings and washers are needed in virtually everything we use or depend on every day. Chances are, you come into contact with a Boker's manufactured component daily. That's why you can rely on Boker's, the **Stamping and Washer Specialists Since 1919.**

When quality and precision matter the most, turn to Boker's for your stamped components.

"The parts we make affect everyone we care about, and that's why delivery of quality components through certified processes are important."

—Tony Kersey, Communications Manager

CUSTOMER SATISFACTION
Is Our #1 Goal

A recent Boker's customer survey showed:

80%
of customers who met with Boker's Independent Sales Representatives said it added value to their organization.

97%
of customers surveyed would recommend working with Boker's.

100%
of customers surveyed were satisfied with product quality.

With a commitment to continuous improvement, Boker's has recently surveyed a subset of our customer base in our pursuit of perfection. Our customer service team which is comprised of key personnel reviewed every response, making recommendations and action assignments in an effort to provide the highest quality customer service.
Thank you to everyone who participated. We are listening.

Praise From Boker's Customers:

Boker's is a very solid and very responsive supplier.

Boker's has always been easy to work with. My experienced Sales Associate is very knowledgeable.

One of our most reliable vendors. Keep up the good work!

People, products and services have been very good. I have no complaints or issues.

Great service! Easy to work with.

I've always gotten good response time, pricing and delivery from Boker's.

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

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

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

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

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
.165	.125	.005	.010	.177	.094	.007	.015	.185	.128	.010	.020	.188	.119	.005	.012	.196	.142	.005	.010	.202	.128	.005	.010
.165	.126	.015	.025	.177	.099	.005	.015	.185	.129	.005	.015	.188	.121	.010	.025	.196	.145	.005	.012	.202	.134	.005	.010
.166	.062	.005	.010	.177	.113	.005	.015	.185	.131	.005	.010	.188	.122	.005	.010	.197	.055	.015	.025	.202	.136	.020	.032
.166	.073	.010	.020	.177	.119	.030	.042	.185	.134	.005	.010	.188	.128	.005	.036	.197	.062	.030	.050	.203	.056	.005	.010
.166	.075	.005	.010	.177	.122	.015	.020	.185	.136	.010	.025	.188	.129	.020	.030	.197	.077	.005	.010	.203	.063	.005	.032
.166	.081	.005	.010	.177	.125	.005	.010	.185	.145	.005	.010	.188	.131	.020	.030	.197	.091	.020	.040	.203	.072	.015	.040
.166	.108	.010	.020	.177	.127	.005	.010	.186	.028	.006	.010	.188	.164	.010	.020	.197	.099	.005	.010	.203	.091	.010	.040
.166	.125	.005	.010	.178	.050	.030	.040	.186	.035	.005	.010	.189	.043	.025	.040	.197	.103	.005	.010	.203	.092	.030	.040
.166	.129	.005	.010	.178	.077	.015	.030	.186	.038	.005	.010	.189	.053	.030	.040	.197	.116	.005	.010	.203	.093	.040	.060
.167	.031	.005	.010	.178	.113	.005	.015	.186	.046	.010	.020	.189	.064	.010	.050	.197	.121	.005	.010	.203	.107	.005	.010
.167	.065	.010	.020	.178	.119	.030	.042	.186	.064	.008	.020	.189	.094	.040	.060	.197	.122	.020	.040	.203	.114	.015	.040
.167	.078	.005	.010	.178	.123	.005	.010	.186	.075	.015	.025	.189	.095	.025	.045	.197	.129	.005	.010	.203	.123	.005	.010
.167	.085	.010	.020	.178	.137	.010	.020	.186	.079	.015	.040	.189	.102	.005	.010	.197	.139	.030	.040	.203	.124	.010	.020
.167	.108	.010	.020	.178	.139	.005	.010	.186	.086	.005	.010	.189	.108	.010	.020	.197	.147	.015	.025	.203	.128	.015	.025
.168	.082	.005	.010	.179	.039	.005	.010	.186	.088	.015	.025	.189	.109	.005	.010	.198	.088	.010	.020	.203	.137	.020	.040
.168	.096	.025	.040	.179	.101	.010	.020	.186	.093	.015	.030	.189	.119	.005	.010	.198	.092	.010	.030	.203	.170	.005	.020
.168	.130	.005	.010	.179	.103	.005	.010	.186	.094	.025	.035	.189	.136	.010	.020	.198	.095	.015	.030	.203	.175	.005	.010
.169	.115	.015	.025	.179	.113	.005	.010	.186	.096	.005	.010	.190	.030	.005	.010	.198	.097	.005	.010	.203	.176	.005	.010
.170	.034	.005	.010	.179	.115	.025	.030	.186	.098	.012	.025	.190	.048	.005	.010	.198	.102	.020	.030	.204	.044	.005	.010
.170	.057	.005	.010	.180	.081	.020	.035	.186	.099	.005	.010	.190	.091	.005	.010	.198	.114	.005	.010	.204	.075	.025	.040
.170	.064	.015	.032	.180	.089	.005	.032	.186	.103	.005	.010	.190	.095	.040	.060	.198	.116	.005	.010	.204	.100	.005	.010
.170	.067	.010	.020	.180	.090	.010	.020	.186	.108	.010	.020	.190	.113	.010	.020	.198	.126	.020	.030	.204	.105	.030	.040
.170	.070	.020	.030	.180	.094	.010	.025	.186	.118	.030	.040	.190	.128	.010	.015	.198	.131	.020	.040	.204	.125	.025	.040
.170	.089	.015	.025	.180	.096	.005	.010	.186	.119	.005	.010	.190	.130	.015	.030	.198	.147	.005	.010	.204	.143	.020	.030
.170	.097	.005	.010	.180	.100	.025	.040	.186	.124	.020	.030	.190	.132	.005	.010	.199	.050	.005	.010	.204	.157	.010	.020
.170	.109	.025	.035	.180	.114	.020	.040	.186	.125	.010	.030	.191	.038	.005	.010	.199	.088	.030	.050	.205	.038	.015	.025
.170	.121	.005	.010	.180	.115	.005	.010	.186	.126	.005	.010	.191	.039	.010	.020	.199	.105	.030	.050	.205	.050	.030	.040
.171	.065	.005	.010	.180	.118	.005	.010	.186	.127	.010	.015	.191	.063	.010	.016	.199	.122	.010	.020	.205	.079	.020	.030
.171	.086	.030	.050	.180	.128	.005	.010	.186	.129	.020	.040	.191	.065	.025	.050	.199	.154	.005	.015	.205	.094	.010	.020
.171	.087	.015	.030	.180	.141	.005	.010	.186	.136	.010	.020	.191	.069	.025	.040	.199	.158	.015	.020	.205	.097	.010	.020
.171	.090	.005	.030	.181	.071	.005	.010	.186	.155	.005	.010	.191	.075	.040	.060	.200	.026	.005	.010	.205	.112	.010	.020
.171	.098	.007	.015	.181	.078	.007	.016	.187	.042	.015	.030	.191	.077	.005	.030	.200	.053	.005	.010	.205	.115	.015	.025
.171	.101	.010	.020	.181	.087	.005	.010	.187	.074	.015	.030	.191	.092	.032	.050	.200	.057	.005	.010	.205	.131	.010	.020
.171	.128	.010	.020	.181	.093	.005	.010	.187	.077	.020	.040	.191	.104	.020	.030	.200	.066	.005	.010	.205	.137	.025	.040
.171	.129	.010	.020	.181	.095	.010	.016	.187	.078	.025	.050	.191	.119	.010	.020	.200	.072	.020	.030	.205	.147	.025	.030
.171	.130	.005	.010	.181	.116	.015	.030	.187	.080	.005	.010	.191	.142	.005	.010	.200	.078	.020	.030	.206	.051	.005	.015
.172	.036	.005	.010	.181	.127	.015	.025	.187	.081	.005	.010	.191	.151	.005	.010	.200	.079	.010	.020	.206	.094	.005	.010
.172	.074	.005	.020	.181	.128	.005	.025	.187	.082	.005	.042	.191	.162	.015	.020	.200	.086	.025	.040	.206	.126	.005	.010
.172	.080	.015	.025	.182	.052	.010	.020	.187	.084	.005	.010	.192	.091	.020	.040	.200	.087	.025	.040	.206	.154	.005	.010
.172	.081	.020	.030	.182	.057	.012	.020	.187	.086	.030	.050	.192	.118	.005	.010	.200	.090	.010	.020	.206	.161	.005	.010
.172	.096	.020	.032	.182	.068	.010	.020	.187	.089	.010	.030	.192	.120	.020	.040	.200	.092	.005	.010	.207	.112	.005	.010
.172	.103	.010	.020	.182	.083	.040	.050	.187	.090	.025	.040	.192	.125	.005	.010	.200	.095	.015	.025	.207	.127	.015	.025
.172	.109	.020	.040	.182	.094	.015	.030	.187	.091	.015	.025	.192	.133	.005	.010	.200	.096	.005	.010	.207	.132	.020	.030
.172	.128	.005	.010	.182	.110	.010	.020	.187	.095	.005	.010	.192	.149	.015	.025	.200	.097	.015	.030	.207	.133	.020	.030
.173	.065	.015	.030	.182	.130	.005	.016	.187	.096	.010	.025	.193	.075	.015	.030	.200	.098	.015	.025	.207	.144	.010	.020
.173	.070	.020	.030	.182	.134	.005	.010	.187	.098	.015	.025	.193	.095	.020	.040	.200	.100	.040	.050	.207	.147	.005	.010
.173	.079	.020	.030	.183	.067	.012	.025	.187	.100	.005	.010	.193	.103	.010	.020	.200	.101	.005	.040	.208	.099	.010	.020
.173	.088	.005	.010	.183	.090	.010	.020	.187	.104	.032	.042	.193	.111	.005	.010	.200	.102	.005	.030	.208	.120	.005	.060
.173	.092	.020	.035	.183	.096	.020	.030	.187	.106	.015	.040	.193	.123	.015	.030	.200	.105	.010	.025	.208	.127	.015	.025
.173	.096	.020	.040	.183	.097	.005	.010	.187	.108	.005	.010	.193	.130	.005	.010	.200	.110	.025	.035	.208	.128	.040	.050
.173	.100	.010	.020	.183	.101	.020	.036	.187	.115	.015	.032	.193	.133	.005	.010	.200	.116	.010	.020	.208	.129	.020	.030
.173	.102	.010	.020	.183	.105	.005	.010	.187	.116	.010	.020	.193	.162	.010	.012	.200	.124	.020	.036	.208	.130	.005	.010
.173	.104	.016	.025	.183	.106	.010	.020	.187	.122	.005	.010	.194	.065	.020	.030	.200	.125	.005	.010	.208	.147	.005	.010
.173	.114	.010	.020	.183	.118	.015	.030	.187	.124	.020	.030	.194	.068	.040	.060	.200	.126	.020	.036	.208	.155	.005	.010
.173	.117	.005	.025	.183	.120	.005	.010	.187	.125	.005	.010	.194	.094	.005	.010	.200	.128	.025	.040	.208	.163	.010	.015
.174	.044	.020	.030	.183	.131	.015	.025	.187	.126	.005	.010	.195	.032	.005	.010	.200	.143	.015	.030	.209	.078	.005	.010
.174	.077	.010	.020	.183	.132	.005	.010	.187	.127	.010	.020	.195	.075	.020	.030	.200	.153	.005	.010	.209	.090	.015	.030
.174	.093	.040	.060	.183	.141	.005	.020	.187	.128	.005	.010	.195	.076	.015	.030	.200	.160	.020	.030	.209	.114	.005	.010
.174	.095	.020	.032	.183	.143	.008	.012	.187	.129	.005	.012	.195	.078	.005	.008	.200	.163	.005	.010	.209	.116	.025	.040
.174	.097	.025	.040	.184	.062	.010	.020	.187	.135	.005	.010	.195	.099	.030	.050	.200	.177	.010	.020	.209	.117	.005	.010
.174	.106	.005	.010	.184	.065	.005	.010	.188	.030	.020	.032	.195	.100	.020	.035	.201	.038	.005	.010	.209	.128	.015	.030
.174	.137	.010	.020	.184	.086	.015	.030	.188	.031	.005	.010	.195	.102	.020	.040	.201	.067	.010	.020	.209	.143	.012	.020
.175	.056	.005	.025	.185	.070	.025	.050	.188	.046	.005	.010	.195	.108	.015	.030	.201	.078	.005	.010	.209	.146	.015	.025
.175	.077	.005	.010	.185	.075	.020	.030	.188	.054	.030	.050	.195	.126	.005	.020	.201	.082	.020	.040	.209	.151	.005	.010
.175	.089	.015	.030	.185	.076	.025	.040	.188	.060	.020	.040	.195	.128	.005	.030	.201	.083	.020	.030	.210	.102	.005	.010
.175	.090	.005	.030	.185	.078	.015	.030	.188	.061	.025	.040	.195	.145	.015	.040	.201	.086	.005	.010	.210	.128	.005	.010
.175	.092	.005	.030	.185	.080	.005	.010	.188	.063	.010	.015	.196	.050	.010	.020	.201	.096	.020	.040	.210	.155	.010	.020
.175	.099	.005	.010	.185	.083	.015	.030	.188	.071	.005	.015	.196	.055	.025	.040	.201	.115	.015	.025	.210	.162	.020	.040
.175	.102	.020	.030	.185	.086	.008	.020	.188	.075	.030	.050	.196	.075	.010	.020	.201	.126	.020	.032	.211	.084	.015	.030
.175	.121	.010	.020	.185	.089	.015	.030	.188	.077	.010	.015	.196	.086	.025	.035	.201	.134	.005	.030	.211	.088	.005	.010
.175	.123	.030	.040	.185	.092	.005	.035	.188	.083	.025	.040	.196	.090	.005	.010	.201	.141	.005	.010	.211	.091	.020	.040
.175	.124	.025	.030	.185	.093	.020	.035	.188	.087	.010	.020	.196	.102	.005	.010	.201	.148	.005	.012	.211	.104	.005	.010
.175	.127	.005	.010	.185	.095	.005	.025	.188	.093	.005	.010	.196	.104	.005	.010	.201	.161	.005	.010	.211	.106	.020	.040
.175	.128	.015	.020	.185	.097	.010	.020	.188	.094	.005	.020	.196	.105	.015	.030	.202	.057	.010	.020	.211	.111	.010	.020
.176	.053	.005	.010	.185	.098	.005	.010	.188	.095	.005	.010	.196	.117	.008	.015	.202	.066	.015	.025	.211	.112	.005	.010
.176	.081	.005	.010	.185	.110	.020	.030	.188	.102	.005	.015	.196	.122	.005	.020	.202	.067	.005	.015	.211	.120	.005	.010
.176	.119	.010	.020	.185	.118	.015	.030	.188	.103	.020	.030	.196	.128	.005	.010	.202	.101	.015	.025	.211	.129	.015	.030
.177	.053	.005	.010	.185	.119	.015	.030	.188	.106	.010	.020	.196	.129	.005	.025	.202	.116	.015	.020	.211	.133	.020	.035
.177	.070	.005	.010	.185	.126	.020	.030	.188	.113	.020	.040	.196	.130	.010	.020	.202	.120	.015	.032	.211	.142	.025	.035
.177	.081	.005	.010	.185	.127	.005	.010	.188	.118	.015	.025	.196	.140	.010	.020	.202	.126	.005	.010	.211	.158	.005	.010

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

For a size NOT listed, send specs or phone for quote — (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
.211	.160	.005 - .010	.218	.113	.025 - .040	.223	.118	.005 - .015	.232	.136	.005 - .010	.237	.162	.005 - .010	.245	.127	.010 - .030
.211	.163	.020 - .032	.218	.116	.005 - .020	.223	.127	.025 - .042	.232	.155	.005 - .010	.237	.164	.008 - .035	.245	.128	.005 - .010
.211	.167	.005 - .010	.218	.119	.005 - .008	.223	.130	.005 - .010	.232	.159	.006 - .016	.237	.193	.010 - .020	.245	.136	.025 - .040
.212	.084	.005 - .010	.218	.127	.005 - .010	.223	.132	.025 - .035	.233	.040	.005 - .010	.237	.194	.010 - .020	.245	.141	.005 - .010
.212	.093	.015 - .030	.218	.128	.005 - .020	.223	.135	.010 - .020	.233	.060	.010 - .025	.238	.071	.015 - .030	.245	.159	.005 - .010
.212	.120	.010 - .020	.218	.132	.008 - .015	.223	.139	.015 - .025	.233	.110	.005 - .010	.238	.115	.040 - .060	.245	.185	.005 - .010
.212	.124	.005 - .010	.218	.137	.005 - .010	.223	.155	.005 - .010	.233	.118	.020 - .040	.238	.126	.030 - .050	.245	.204	.010 - .020
.212	.131	.005 - .010	.218	.138	.020 - .040	.223	.191	.005 - .010	.233	.124	.010 - .020	.238	.127	.005 - .010	.246	.055	.005 - .012
.212	.135	.005 - .015	.218	.140	.015 - .025	.224	.075	.025 - .040	.233	.127	.005 - .010	.238	.143	.005 - .010	.246	.080	.005 - .010
.212	.137	.015 - .025	.218	.141	.025 - .036	.224	.139	.005 - .012	.233	.130	.005 - .015	.238	.146	.030 - .040	.246	.094	.010 - .020
.212	.138	.005 - .012	.218	.143	.015 - .030	.224	.141	.005 - .010	.233	.147	.005 - .010	.238	.178	.005 - .010	.246	.122	.025 - .040
.212	.158	.015 - .025	.218	.169	.015 - .025	.224	.147	.005 - .010	.233	.155	.005 - .010	.238	.181	.020 - .030	.246	.128	.005 - .010
.213	.043	.005 - .012	.219	.070	.020 - .030	.225	.063	.005 - .010	.233	.163	.010 - .015	.239	.068	.008 - .016	.246	.131	.005 - .010
.213	.066	.025 - .040	.219	.085	.005 - .010	.225	.090	.015 - .030	.233	.167	.010 - .020	.239	.094	.005 - .010	.246	.134	.005 - .010
.213	.077	.015 - .030	.219	.090	.005 - .010	.225	.092	.005 - .010	.233	.170	.020 - .030	.239	.131	.032 - .050	.246	.142	.015 - .030
.213	.100	.005 - .010	.219	.103	.010 - .020	.225	.101	.015 - .030	.233	.173	.005 - .010	.239	.141	.015 - .030	.246	.170	.005 - .010
.213	.108	.005 - .010	.219	.106	.005 - .020	.225	.111	.015 - .030	.233	.191	.005 - .010	.239	.142	.015 - .030	.246	.181	.005 - .030
.213	.110	.010 - .020	.219	.124	.020 - .040	.225	.113	.005 - .010	.234	.039	.005 - .010	.239	.148	.005 - .010	.246	.197	.015 - .025
.213	.130	.025 - .040	.219	.126	.010 - .030	.225	.125	.015 - .032	.234	.066	.042 - .062	.239	.161	.030 - .050	.247	.051	.010 - .020
.213	.154	.005 - .010	.219	.127	.030 - .040	.225	.129	.030 - .050	.234	.096	.042 - .060	.239	.163	.030 - .040	.247	.063	.030 - .050
.213	.160	.010 - .025	.219	.129	.010 - .015	.225	.135	.005 - .015	.234	.121	.005 - .020	.239	.181	.005 - .010	.247	.080	.010 - .040
.213	.162	.020 - .030	.219	.130	.015 - .030	.225	.142	.005 - .015	.234	.126	.015 - .025	.239	.190	.005 - .015	.247	.090	.020 - .030
.214	.050	.005 - .010	.219	.142	.005 - .010	.225	.144	.015 - .030	.234	.128	.015 - .030	.240	.024	.005 - .010	.247	.091	.030 - .050
.214	.062	.015 - .030	.219	.147	.025 - .040	.225	.147	.025 - .040	.234	.129	.005 - .010	.240	.072	.005 - .010	.247	.095	.040 - .060
.214	.089	.010 - .020	.219	.156	.010 - .020	.225	.150	.005 - .010	.234	.134	.020 - .030	.240	.090	.020 - .030	.247	.097	.005 - .020
.214	.098	.010 - .020	.219	.161	.005 - .035	.225	.164	.005 - .010	.234	.135	.030 - .050	.240	.102	.010 - .020	.247	.100	.005 - .010
.214	.100	.015 - .025	.219	.171	.005 - .010	.226	.087	.005 - .010	.234	.138	.010 - .020	.240	.105	.010 - .020	.247	.118	.005 - .020
.214	.109	.020 - .030	.219	.173	.005 - .010	.226	.098	.015 - .050	.234	.140	.005 - .010	.240	.108	.025 - .040	.247	.119	.025 - .040
.214	.126	.005 - .010	.220	.040	.005 - .010	.226	.108	.020 - .030	.234	.142	.035 - .050	.240	.109	.005 - .010	.247	.125	.020 - .032
.214	.163	.010 - .020	.220	.051	.025 - .035	.226	.114	.025 - .040	.234	.192	.010 - .020	.240	.125	.025 - .060	.247	.126	.023 - .032
.214	.166	.005 - .010	.220	.063	.010 - .020	.226	.129	.005 - .030	.235	.048	.005 - .010	.240	.131	.005 - .010	.247	.127	.025 - .042
.214	.169	.010 - .015	.220	.065	.020 - .032	.226	.175	.005 - .010	.235	.068	.010 - .050	.240	.135	.005 - .030	.247	.132	.020 - .030
.214	.180	.005 - .010	.220	.069	.005 - .010	.226	.193	.005 - .010	.235	.086	.020 - .030	.240	.136	.005 - .010	.247	.138	.005 - .010
.215	.034	.010 - .030	.220	.070	.020 - .030	.227	.050	.010 - .020	.235	.088	.020 - .030	.240	.139	.005 - .010	.247	.140	.005 - .010
.215	.063	.005 - .010	.220	.090	.005 - .010	.227	.127	.005 - .010	.235	.090	.005 - .010	.240	.151	.005 - .010	.247	.141	.020 - .032
.215	.073	.030 - .040	.220	.091	.005 - .040	.227	.153	.020 - .032	.235	.099	.005 - .010	.240	.160	.015 - .040	.247	.144	.005 - .010
.215	.088	.010 - .015	.220	.099	.005 - .010	.228	.051	.020 - .030	.235	.102	.015 - .030	.240	.188	.005 - .010	.247	.147	.005 - .010
.215	.090	.042 - .062	.220	.106	.005 - .015	.228	.091	.005 - .010	.235	.108	.030 - .050	.241	.103	.005 - .010	.247	.158	.030 - .040
.215	.091	.010 - .025	.220	.108	.010 - .020	.228	.096	.010 - .020	.235	.114	.010 - .030	.241	.119	.020 - .035	.247	.159	.010 - .020
.215	.100	.010 - .050	.220	.109	.005 - .010	.228	.106	.020 - .035	.235	.126	.030 - .050	.241	.128	.015 - .030	.247	.164	.005 - .010
.215	.104	.010 - .020	.220	.113	.032 - .048	.228	.118	.010 - .050	.235	.130	.015 - .030	.241	.148	.005 - .010	.247	.169	.020 - .030
.215	.106	.005 - .015	.220	.114	.010 - .020	.228	.121	.010 - .020	.235	.131	.025 - .040	.241	.162	.005 - .010	.247	.185	.005 - .010
.215	.112	.020 - .040	.220	.117	.025 - .042	.228	.129	.020 - .030	.235	.134	.020 - .035	.241	.180	.005 - .010	.247	.190	.010 - .020
.215	.123	.015 - .035	.220	.122	.025 - .040	.228	.131	.015 - .030	.235	.138	.015 - .025	.242	.072	.005 - .010	.247	.205	.005 - .010
.215	.127	.005 - .012	.220	.125	.020 - .030	.228	.148	.005 - .010	.235	.139	.025 - .040	.242	.100	.005 - .010	.247	.206	.005 - .010
.215	.137	.010 - .015	.220	.127	.025 - .048	.228	.167	.005 - .010	.235	.152	.020 - .032	.242	.118	.010 - .020	.248	.052	.035 - .050
.215	.138	.020 - .030	.220	.128	.005 - .050	.229	.096	.010 - .020	.235	.156	.010 - .020	.242	.128	.005 - .010	.248	.063	.015 - .025
.215	.144	.030 - .050	.220	.129	.020 - .035	.229	.139	.015 - .025	.235	.161	.005 - .010	.242	.129	.015 - .025	.248	.065	.015 - .030
.215	.162	.005 - .010	.220	.140	.010 - .020	.229	.149	.005 - .010	.235	.164	.010 - .020	.242	.145	.010 - .015	.248	.067	.015 - .030
.215	.164	.005 - .010	.220	.144	.025 - .035	.229	.166	.010 - .020	.235	.167	.020 - .036	.242	.146	.005 - .010	.248	.078	.015 - .030
.215	.166	.005 - .010	.220	.147	.015 - .025	.230	.038	.020 - .030	.235	.202	.005 - .010	.242	.147	.010 - .020	.248	.087	.005 - .015
.215	.168	.010 - .020	.220	.159	.005 - .010	.230	.050	.020 - .030	.236	.055	.020 - .040	.242	.163	.025 - .035	.248	.089	.020 - .035
.215	.170	.005 - .010	.220	.166	.015 - .020	.230	.073	.015 - .030	.236	.061	.005 - .010	.242	.172	.025 - .040	.248	.091	.030 - .040
.216	.054	.015 - .032	.220	.177	.015 - .020	.230	.094	.042 - .062	.236	.070	.010 - .020	.242	.192	.012 - .020	.248	.092	.005 - .015
.216	.055	.005 - .010	.220	.179	.005 - .010	.230	.097	.010 - .020	.236	.078	.005 - .010	.242	.194	.005 - .010	.248	.093	.005 - .030
.216	.057	.020 - .030	.221	.061	.050 - .060	.230	.108	.005 - .010	.236	.080	.020 - .030	.243	.095	.015 - .025	.248	.094	.040 - .060
.216	.110	.010 - .020	.221	.065	.005 - .010	.230	.120	.005 - .010	.236	.082	.015 - .030	.243	.130	.010 - .050	.248	.098	.005 - .010
.216	.120	.010 - .020	.221	.084	.020 - .035	.230	.121	.010 - .020	.236	.091	.020 - .030	.243	.133	.005 - .010	.248	.100	.015 - .030
.216	.126	.005 - .010	.221	.099	.020 - .030	.230	.130	.005 - .060	.236	.094	.015 - .030	.243	.136	.005 - .010	.248	.106	.060 - .080
.216	.148	.005 - .010	.221	.106	.010 - .020	.230	.145	.010 - .040	.236	.097	.015 - .030	.243	.145	.010 - .020	.248	.118	.015 - .032
.216	.162	.010 - .020	.221	.117	.005 - .010	.230	.152	.010 - .020	.236	.098	.030 - .048	.243	.146	.010 - .020	.248	.120	.025 - .040
.217	.080	.020 - .030	.221	.122	.020 - .035	.230	.160	.010 - .020	.236	.107	.020 - .030	.243	.162	.020 - .035	.248	.122	.015 - .032
.217	.084	.015 - .030	.221	.125	.020 - .035	.230	.167	.005 - .010	.236	.118	.005 - .010	.243	.170	.010 - .020	.248	.123	.020 - .030
.217	.100	.030 - .050	.221	.126	.020 - .035	.230	.176	.005 - .010	.236	.127	.005 - .010	.243	.188	.005 - .010	.248	.128	.005 - .040
.217	.106	.015 - .030	.221	.130	.030 - .042	.230	.180	.005 - .010	.236	.129	.005 - .010	.243	.198	.005 - .020	.248	.129	.030 - .050
.217	.116	.008 - .016	.221	.135	.005 - .010	.231	.046	.005 - .010	.236	.130	.015 - .030	.244	.070	.020 - .030	.248	.130	.005 - .010
.217	.118	.050 - .070	.221	.144	.005 - .010	.231	.068	.020 - .030	.236	.131	.005 - .010	.244	.088	.005 - .010	.248	.133	.015 - .030
.217	.120	.025 - .040	.221	.156	.020 - .030	.231	.096	.050 - .070	.236	.155	.005 - .010	.244	.106	.015 - .030	.248	.135	.015 - .025
.217	.161	.015 - .030	.222	.050	.010 - .020	.231	.116	.040 - .060	.236	.160	.005 - .010	.244	.119	.005 - .010	.248	.152	.030 - .050
.217	.166	.005 - .010	.222	.093	.020 - .030	.231	.120	.035 - .048	.236	.161	.005 - .010	.244	.127	.010 - .015	.248	.155	.005 - .010
.217	.191	.005 - .010	.222	.095	.008 - .012	.231	.127	.005 - .010	.236	.182	.005 - .010	.244	.147	.005 - .015	.248	.158	.025 - .042
.218	.069	.015 - .025	.222	.114	.010 - .020	.231	.130	.010 - .020	.236	.192	.005 - .010	.244	.150	.015 - .030	.248	.176	.010 - .020
.218	.078	.025 - .042	.222	.116	.025 - .045	.231	.146	.005 - .010	.236	.210	.005 - .010	.244	.191	.015 - .030	.248	.208	.010 - .020
.218	.090	.015 - .030	.222	.129	.020 - .030	.231	.155	.010 - .020	.237	.070	.010 - .020	.244	.192	.005 - .010	.249	.075	.015 - .030
.218	.095	.010 - .050	.222	.134	.040 - .050	.231	.160	.010 - .015	.237	.108	.040 - .060	.244	.195	.005 - .010	.249	.100	.020 - .032
.218	.097	.005 - .025	.222	.140	.010 - .020	.231	.173	.005 - .010	.237	.112	.005 - .010	.244	.205	.010 - .020	.249	.103	.005 - .010
.218	.101	.020 - .030	.222	.142	.010 - .020	.232	.060	.030 - .050	.237	.127	.005 - .030	.245	.032	.010 - .015	.249	.112	.010 - .018
.218	.105	.005 - .032	.223	.059	.015 - .040	.232	.120	.015 - .025	.237	.130	.005 - .020	.245	.045	.005 - .010	.249	.116	.020 - .040
.218	.106	.020 - .032	.223	.100	.005 - .010	.232	.133	.005 - .010	.237	.148	.030 - .050	.245	.055	.005 - .010	.249	.121	.015 - .025
.218	.108	.008 - .020	.223	.102	.025 - .035	.232	.134	.010 - .020	.237	.157	.025 - .036	.245	.097	.025 - .040	.249	.123	.015 - .030

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

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
.249	.124	.005 - .010
.249	.127	.010 - .050
.249	.128	.020 - .035
.249	.135	.005 - .010
.249	.137	.025 - .050
.249	.139	.005 - .040
.249	.143	.015 - .030
.249	.144	.030 - .050
.249	.152	.005 - .010
.249	.158	.020 - .030
.249	.160	.020 - .040
.249	.170	.025 - .040
.249	.172	.010 - .020
.249	.186	.005 - .010
.249	.189	.015 - .032
.249	.190	.005 - .008
.249	.193	.008 - .012
.250		
.250	.027	.005 - .010
.250	.039	.005 - .025
.250	.044	.005 - .015
.250	.052	.005 - .012
.250	.063	.005 - .010
.250	.072	.005 - .012
.250	.077	.012 - .025
.250	.082	.005 - .010
.250	.083	.015 - .020
.250	.085	.005 - .030
.250	.091	.020 - .030
.250	.093	.062 - .083
.250	.094	.005 - .025
.250	.095	.007 - .040
.250	.097	.030 - .080
.250	.098	.010 - .025
.250	.099	.032 - .050
.250	.100	.025 - .040
.250	.102	.005 - .060
.250	.105	.005 - .035
.250	.106	.030 - .050
.250	.108	.005 - .010
.250	.110	.005 - .030
.250	.116	.020 - .040
.250	.117	.020 - .040
.250	.120	.030 - .050
.250	.122	.005 - .060
.250	.124	.010 - .032
.250	.125	.010 - .050
.250	.126	.005 - .020
.250	.127	.007 - .050
.250	.128	.005 - .062
.250	.129	.010 - .050
.250	.130	.005 - .042
.250	.131	.005 - .060
.250	.132	.032 - .052
.250	.134	.005 - .010
.250	.135	.030 - .048
.250	.136	.005 - .010
.250	.140	.005 - .060
.250	.146	.010 - .020
.250	.147	.005 - .050
.250	.150	.005 - .015
.250	.153	.010 - .020
.250	.154	.015 - .025
.250	.157	.025 - .040
.250	.158	.015 - .030
.250	.159	.020 - .036
.250	.161	.005 - .010
.250	.162	.032 - .042
.250	.164	.010 - .020
.250	.165	.010 - .020
.250	.166	.005 - .012
.250	.167	.010 - .045
.250	.172	.005 - .010
.250	.173	.025 - .040
.250	.175	.005 - .010
.250	.176	.025 - .040
.250	.183	.020 - .040
.250	.186	.010 - .020
.250	.189	.010 - .020
.250	.190	.010 - .020
.250	.191	.010 - .020
.250	.192	.025 - .030
.251	.036	.010 - .020
.251	.057	.005 - .012
.251	.059	.005 - .010
.251	.063	.025 - .040
.251	.074	.025 - .050
.251	.076	.005 - .010
.251	.093	.005 - .010
.251	.101	.025 - .040
.251	.108	.020 - .040
.251	.113	.030 - .050
.251	.115	.040 - .060
.251	.122	.035 - .050
.251	.125	.010 - .020
.251	.127	.010 - .025
.251	.130	.015 - .030
.251	.131	.005 - .050
.251	.136	.005 - .010
.251	.138	.005 - .010
.251	.145	.015 - .048
.251	.146	.015 - .030
.251	.149	.040 - .050
.251	.151	.025 - .040
.251	.157	.040 - .060
.251	.158	.005 - .015
.251	.160	.005 - .010
.251	.162	.025 - .042
.251	.187	.010 - .020
.251	.188	.005 - .008
.251	.190	.005 - .015
.251	.192	.005 - .010
.251	.195	.005 - .010
.251	.200	.015 - .025
.251	.205	.007 - .015
.251	.214	.005 - .010
.252	.078	.060 - .072
.252	.099	.005 - .010
.252	.103	.015 - .025
.252	.120	.010 - .020
.252	.127	.030 - .050
.252	.128	.005 - .010
.252	.141	.020 - .040
.252	.146	.008 - .016
.252	.159	.025 - .040
.252	.191	.010 - .040
.252	.195	.012 - .020
.252	.197	.020 - .030
.252	.205	.005 - .010
.253	.048	.040 - .050
.253	.053	.010 - .020
.253	.056	.025 - .040
.253	.096	.025 - .040
.253	.115	.005 - .012
.253	.116	.005 - .012
.253	.125	.040 - .060
.253	.127	.020 - .030
.253	.132	.025 - .040
.253	.145	.025 - .040
.253	.166	.020 - .040
.253	.190	.020 - .040
.253	.191	.020 - .040
.253	.192	.005 - .010
.253	.197	.005 - .010
.254	.051	.030 - .050
.254	.117	.010 - .020
.254	.127	.025 - .040
.254	.159	.005 - .010
.254	.160	.025 - .042
.254	.194	.025 - .042
.254	.201	.005 - .010
.254	.205	.005 - .010
.255	.097	.005 - .010
.255	.101	.030 - .050
.255	.105	.025 - .040
.255	.109	.010 - .020
.255	.135	.015 - .030
.255	.149	.040 - .050
.255	.164	.035 - .050
.255	.167	.005 - .010
.255	.195	.040 - .060
.256	.119	.040 - .060
.256	.164	.025 - .042
.257	.067	.015 - .030
.257	.078	.025 - .040
.257	.095	.005 - .010
.257	.191	.010 - .020
.257	.213	.005 - .010
.258	.067	.015 - .030
.258	.095	.015 - .025
.258	.149	.005 - .010
.258	.154	.005 - .010
.258	.163	.015 - .030
.258	.169	.020 - .030
.258	.177	.005 - .015
.259	.116	.005 - .010
.259	.160	.005 - .010
.259	.213	.005 - .010
.260	.065	.010 - .020
.260	.089	.010 - .020
.260	.108	.015 - .030
.260	.113	.015 - .030
.260	.120	.020 - .060
.260	.121	.007 - .015
.260	.128	.040 - .060
.260	.129	.025 - .040
.260	.144	.020 - .040
.260	.148	.005 - .012
.260	.158	.005 - .020
.260	.163	.020 - .040
.260	.167	.005 - .010
.260	.170	.040 - .060
.260	.173	.020 - .040
.260	.175	.005 - .010
.260	.176	.020 - .040
.260	.188	.005 - .015
.260	.190	.010 - .020
.260	.205	.010 - .020
.261	.104	.050 - .070
.261	.110	.005 - .010
.261	.111	.030 - .050
.261	.201	.005 - .010
.261	.206	.005 - .010
.262	.062	.020 - .030
.262	.117	.015 - .030
.262	.129	.005 - .010
.262	.142	.005 - .010
.262	.156	.015 - .030
.262	.178	.015 - .030
.262	.188	.025 - .040
.262	.192	.020 - .030
.262	.199	.020 - .040
.263	.061	.005 - .010
.263	.091	.025 - .040
.263	.129	.010 - .020
.263	.158	.030 - .050
.263	.191	.005 - .010
.263	.193	.005 - .010
.263	.195	.005 - .010
.263	.199	.010 - .025
.264	.108	.025 - .040
.264	.139	.015 - .025
.264	.147	.005 - .010
.264	.162	.025 - .040
.264	.168	.015 - .025
.264	.174	.050 - .060
.264	.240	.005 - .010
.265	.093	.060 - .080
.265	.101	.020 - .040
.265	.115	.040 - .050
.265	.122	.020 - .040
.265	.125	.005 - .010
.265	.126	.020 - .040
.265	.129	.005 - .010
.265	.141	.005 - .010
.265	.143	.040 - .062
.265	.153	.005 - .010
.265	.160	.005 - .010
.265	.161	.010 - .030
.265	.166	.010 - .015
.265	.183	.025 - .040
.265	.189	.005 - .010
.266	.082	.015 - .030
.266	.090	.005 - .010
.266	.106	.005 - .010
.266	.110	.010 - .020
.266	.121	.020 - .040
.266	.123	.031 - .048
.266	.131	.036 - .060
.266	.134	.025 - .040
.266	.168	.025 - .040
.266	.171	.020 - .035
.266	.179	.020 - .030
.266	.185	.015 - .025
.266	.202	.005 - .010
.266	.218	.005 - .010
.267	.059	.010 - .020
.267	.100	.030 - .050
.267	.125	.005 - .010
.267	.140	.015 - .030
.267	.143	.010 - .025
.267	.144	.020 - .030
.267	.168	.005 - .010
.267	.170	.030 - .050
.267	.178	.025 - .040
.267	.190	.005 - .008
.267	.205	.015 - .030
.267	.211	.020 - .030
.268	.109	.015 - .030
.268	.114	.020 - .040
.268	.124	.015 - .030
.268	.147	.032 - .050
.268	.173	.005 - .010
.268	.179	.005 - .010
.268	.199	.010 - .020
.268	.202	.005 - .015
.268	.213	.010 - .020
.269	.139	.020 - .030
.269	.156	.015 - .025
.269	.158	.010 - .020
.269	.160	.015 - .030
.269	.161	.048 - .062
.269	.179	.025 - .040
.269	.190	.005 - .010
.269	.213	.005 - .010
.270	.079	.005 - .010
.270	.096	.005 - .025
.270	.099	.020 - .030
.270	.109	.015 - .030
.270	.113	.005 - .010
.270	.130	.040 - .060
.270	.132	.025 - .035
.270	.135	.031 - .042
.270	.148	.010 - .020
.270	.160	.005 - .010
.270	.180	.005 - .010
.270	.207	.005 - .010
.270	.210	.020 - .040
.271	.127	.015 - .025
.271	.130	.008 - .015
.271	.138	.005 - .040
.271	.146	.005 - .010
.271	.175	.030 - .050
.271	.190	.015 - .025
.271	.199	.015 - .025
.271	.221	.020 - .030
.272	.032	.010 - .020
.272	.093	.025 - .042
.272	.095	.015 - .030
.272	.120	.005 - .010
.272	.121	.020 - .040
.272	.132	.015 - .030
.272	.156	.030 - .048
.272	.169	.032 - .042
.272	.192	.015 - .032
.272	.194	.010 - .020
.272	.220	.005 - .010
.273	.104	.005 - .010
.273	.108	.015 - .030
.273	.118	.015 - .030
.273	.135	.020 - .040
.273	.141	.015 - .025
.273	.144	.005 - .010
.273	.148	.005 - .010
.273	.149	.020 - .030
.273	.163	.020 - .040
.273	.173	.005 - .010
.273	.203	.020 - .030
.274	.032	.005 - .010
.274	.052	.005 - .010
.274	.093	.005 - .040
.274	.095	.005 - .010
.274	.121	.005 - .010
.274	.127	.030 - .060
.274	.132	.025 - .035
.274	.170	.030 - .050
.274	.172	.040 - .060
.274	.174	.035 - .050
.274	.175	.040 - .050
.274	.191	.005 - .020
.274	.211	.005 - .010
.274	.237	.005 - .010
.275	.071	.010 - .020
.275	.079	.010 - .020
.275	.081	.020 - .040
.275	.089	.030 - .050
.275	.091	.020 - .040
.275	.096	.005 - .010
.275	.098	.030 - .050
.275	.115	.005 - .010
.275	.118	.020 - .040
.275	.122	.020 - .040
.275	.126	.010 - .020
.275	.135	.005 - .012
.275	.143	.010 - .020
.275	.144	.040 - .050
.275	.163	.015 - .025
.275	.166	.020 - .030
.275	.170	.032 - .048
.275	.180	.020 - .040
.275	.189	.030 - .050
.275	.190	.005 - .010
.275	.192	.005 - .010
.275	.200	.005 - .010
.275	.203	.030 - .050
.275	.242	.010 - .020
.276	.081	.005 - .010
.276	.091	.015 - .025
.276	.109	.015 - .040
.276	.112	.030 - .050
.276	.114	.040 - .060
.276	.122	.008 - .016
.276	.126	.020 - .030
.276	.133	.005 - .010
.276	.141	.040 - .060
.276	.142	.005 - .010
.276	.143	.015 - .030
.276	.146	.005 - .015
.276	.153	.020 - .035
.276	.159	.030 - .050
.276	.161	.005 - .015
.276	.162	.010 - .020
.276	.167	.005 - .010
.276	.190	.020 - .040
.276	.192	.015 - .040
.276	.196	.005 - .010
.276	.200	.010 - .020
.276	.209	.010 - .020
.277	.088	.005 - .010
.277	.092	.010 - .020
.277	.108	.005 - .010
.277	.126	.005 - .010
.277	.127	.005 - .008
.277	.129	.050 - .070
.277	.132	.015 - .025
.277	.140	.020 - .030
.277	.143	.005 - .010
.277	.146	.050 - .070
.277	.161	.015 - .030
.277	.163	.015 - .025
.277	.166	.005 - .008
.277	.170	.015 - .030
.277	.195	.005 - .010
.277	.201	.010 - .020
.278	.058	.010 - .020
.278	.087	.005 - .010
.278	.103	.005 - .010
.278	.135	.040 - .062
.278	.141	.010 - .020
.278	.142	.025 - .040
.278	.145	.005 - .010
.278	.151	.005 - .030
.278	.155	.005 - .010
.278	.183	.005 - .010
.278	.190	.005 - .010
.278	.191	.015 - .032
.278	.224	.010 - .020
.278	.236	.005 - .010
.279	.045	.005 - .015
.279	.103	.005 - .010
.279	.116	.010 - .020
.279	.129	.010 - .015
.279	.139	.032 - .048
.279	.140	.030 - .040
.279	.144	.025 - .040
.279	.156	.020 - .030
.279	.170	.015 - .025
.279	.195	.005 - .040
.279	.197	.015 - .030
.279	.217	.015 - .030
.279	.232	.005 - .010
.279	.247	.010 - .015
.280	.067	.005 - .015
.280	.079	.030 - .050
.280	.100	.005 - .010
.280	.105	.015 - .032
.280	.115	.015 - .030
.280	.118	.010 - .020
.280	.122	.025 - .048
.280	.126	.020 - .030
.280	.127	.005 - .010
.280	.128	.010 - .032
.280	.133	.020 - .040
.280	.134	.005 - .010
.280	.135	.020 - .035
.280	.145	.032 - .050
.280	.148	.005 - .010
.280	.155	.025 - .045
.280	.156	.040 - .060
.280	.161	.015 - .030
.280	.169	.005 - .015
.280	.193	.010 - .015
.280	.201	.005 - .020
.280	.202	.025 - .040
.280	.217	.020 - .030
.280	.236	.010 - .032
.281	.052	.010 - .020
.281	.067	.032 - .050
.281	.094	.040 - .060
.281	.096	.005 - .010
.281	.112	.040 - .050
.281	.117	.025 - .040
.281	.122	.010 - .020
.281	.126	.005 - .010
.281	.132	.005 - .010
.281	.134	.040 - .060
.281	.142	.010 - .030
.281	.143	.005 - .010
.281	.156	.005 - .010
.281	.159	.015 - .030
.281	.162	.010 - .050
.281	.170	.016 - .032
.281	.173	.005 - .010

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

For non-metallic materials, contact BOKER'S — (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
.281	.185	.015 - .030	.289	.126	.005 - .030	.296	.144	.025 - .040	.301	.161	.025 - .040	.307	.189	.005 - .020	.310	.213	.030 - .050
.281	.186	.005 - .010	.289	.175	.025 - .040	.296	.173	.005 - .010	.301	.165	.005 - .015	.307	.203	.025 - .042	.310	.214	.010 - .020
.281	.187	.015 - .030	.289	.189	.040 - .050	.296	.188	.015 - .030	.301	.167	.040 - .060	.307	.204	.025 - .040	.310	.232	.005 - .010
.282	.082	.030 - .040	.289	.192	.010 - .020	.296	.189	.015 - .030	.301	.168	.040 - .060	.307	.207	.005 - .010	.310	.235	.005 - .010
.282	.089	.075 - .093	.289	.193	.040 - .060	.296	.190	.015 - .025	.301	.185	.020 - .030	.307	.254	.010 - .020	.310	.242	.010 - .040
.282	.096	.015 - .025	.290	.081	.020 - .040	.296	.198	.025 - .042	.301	.192	.005 - .020	.308	.043	.005 - .012	.310	.250	.005 - .020
.282	.123	.005 - .015	.290	.091	.030 - .050	.296	.215	.010 - .020	.301	.203	.015 - .030	.308	.099	.010 - .020	.310	.254	.015 - .030
.282	.126	.015 - .025	.290	.103	.005 - .010	.296	.258	.005 - .015	.301	.215	.005 - .010	.308	.108	.005 - .015	.310	.255	.005 - .020
.282	.127	.040 - .060	.290	.126	.005 - .030	.297	.062	.010 - .025	.301	.225	.005 - .050	.308	.121	.015 - .030	.310	.256	.010 - .020
.282	.130	.005 - .010	.290	.128	.015 - .030	.297	.086	.005 - .010	.301	.245	.005 - .010	.308	.131	.005 - .010	.310	.257	.005 - .030
.282	.173	.025 - .040	.290	.130	.030 - .050	.297	.120	.050 - .070	.301	.255	.010 - .016	.308	.136	.005 - .010	.310	.258	.005 - .010
.282	.176	.005 - .010	.290	.137	.010 - .020	.297	.135	.020 - .035	.301	.268	.005 - .010	.308	.140	.005 - .015	.310	.260	.005 - .010
.282	.180	.025 - .040	.290	.139	.005 - .010	.297	.159	.030 - .050	.302	.125	.070 - .090	.308	.143	.015 - .030	.311	.068	.005 - .010
.282	.184	.006 - .016	.290	.151	.032 - .042	.297	.191	.005 - .020	.302	.130	.050 - .070	.308	.145	.020 - .030	.311	.103	.005 - .010
.282	.187	.040 - .050	.290	.170	.010 - .020	.297	.203	.020 - .040	.302	.131	.040 - .060	.308	.148	.030 - .050	.311	.118	.050 - .075
.282	.191	.025 - .040	.290	.199	.015 - .030	.297	.209	.005 - .010	.302	.141	.005 - .010	.308	.175	.040 - .060	.311	.125	.005 - .010
.282	.197	.010 - .020	.290	.201	.030 - .040	.297	.255	.005 - .010	.302	.151	.005 - .010	.308	.188	.040 - .060	.311	.126	.030 - .050
.282	.223	.007 - .015	.290	.209	.025 - .040	.298	.062	.010 - .020	.302	.167	.035 - .050	.308	.199	.005 - .010	.311	.127	.012 - .025
.283	.095	.005 - .010	.291	.027	.005 - .010	.298	.139	.005 - .010	.302	.168	.015 - .025	.308	.204	.020 - .040	.311	.128	.060 - .080
.283	.096	.015 - .030	.291	.032	.010 - .020	.298	.153	.030 - .050	.302	.172	.015 - .025	.308	.205	.005 - .025	.311	.129	.025 - .048
.283	.098	.032 - .062	.291	.078	.015 - .030	.298	.155	.005 - .010	.302	.190	.005 - .040	.308	.209	.015 - .025	.311	.130	.005 - .025
.283	.111	.010 - .020	.291	.125	.040 - .060	.298	.156	.020 - .040	.302	.198	.015 - .030	.308	.210	.015 - .025	.311	.137	.030 - .050
.283	.140	.025 - .042	.291	.159	.040 - .060	.298	.158	.008 - .016	.302	.205	.030 - .050	.308	.254	.005 - .010	.311	.142	.040 - .070
.283	.143	.010 - .015	.291	.176	.020 - .040	.298	.161	.025 - .040	.302	.252	.005 - .015	.309	.031	.010 - .020	.311	.147	.080 - .090
.283	.165	.008 - .015	.291	.184	.008 - .015	.298	.164	.030 - .050	.303	.114	.005 - .010	.309	.070	.015 - .025	.311	.155	.015 - .050
.283	.166	.005 - .010	.291	.190	.025 - .050	.298	.180	.015 - .030	.303	.128	.005 - .010	.309	.094	.010 - .020	.311	.159	.005 - .025
.283	.168	.025 - .040	.291	.195	.005 - .010	.298	.181	.030 - .050	.303	.171	.020 - .040	.309	.109	.025 - .040	.311	.160	.010 - .020
.283	.173	.030 - .040	.291	.232	.005 - .010	.298	.193	.015 - .025	.303	.181	.030 - .050	.309	.147	.010 - .020	.311	.166	.040 - .062
.283	.184	.005 - .010	.291	.244	.015 - .025	.298	.200	.005 - .010	.303	.191	.025 - .040	.309	.159	.005 - .030	.311	.167	.005 - .015
.283	.190	.008 - .015	.291	.250	.005 - .010	.298	.205	.005 - .010	.303	.197	.030 - .050	.309	.160	.005 - .010	.311	.177	.005 - .010
.283	.200	.010 - .020	.292	.114	.040 - .060	.298	.241	.005 - .010	.303	.198	.005 - .010	.309	.161	.040 - .062	.311	.183	.042 - .062
.283	.216	.005 - .030	.292	.145	.025 - .040	.299	.105	.030 - .040	.303	.200	.005 - .010	.309	.172	.020 - .035	.311	.187	.025 - .042
.283	.217	.005 - .010	.292	.146	.005 - .010	.299	.116	.010 - .020	.303	.220	.030 - .050	.309	.176	.020 - .030	.311	.188	.005 - .050
.283	.218	.005 - .025	.292	.148	.020 - .040	.299	.145	.010 - .030	.303	.225	.005 - .010	.309	.191	.030 - .050	.311	.190	.015 - .030
.283	.240	.005 - .010	.292	.149	.030 - .040	.299	.202	.005 - .010	.303	.234	.005 - .010	.309	.194	.025 - .040	.311	.191	.008 - .040
.283	.250	.005 - .010	.292	.165	.050 - .060	.300	.045	.025 - .040	.303	.240	.020 - .030	.309	.195	.050 - .070	.311	.195	.005 - .010
.284	.095	.015 - .025	.292	.171	.005 - .010	.300	.056	.005 - .010	.303	.251	.010 - .020	.309	.202	.030 - .050	.311	.204	.005 - .020
.284	.119	.025 - .040	.292	.192	.010 - .015	.300	.065	.008 - .040	.304	.083	.025 - .040	.309	.210	.010 - .020	.311	.215	.005 - .010
.284	.125	.005 - .015	.292	.193	.020 - .030	.300	.074	.005 - .010	.304	.163	.010 - .020	.309	.247	.005 - .010	.311	.217	.020 - .040
.284	.191	.010 - .018	.292	.197	.040 - .050	.300	.081	.005 - .010	.304	.174	.005 - .010	.309	.251	.015 - .030	.311	.219	.020 - .035
.284	.200	.010 - .020	.292	.236	.005 - .010	.300	.095	.010 - .020	.304	.217	.030 - .050	.309	.254	.010 - .030	.311	.231	.025 - .040
.284	.212	.005 - .010	.293	.034	.015 - .025	.300	.097	.016 - .090	.304	.241	.010 - .020	.309	.255	.015 - .030	.311	.238	.005 - .010
.285	.079	.005 - .010	.293	.124	.010 - .020	.300	.100	.005 - .015	.304	.245	.015 - .020	.310	.047	.025 - .035	.312	.039	.005 - .012
.285	.088	.005 - .010	.293	.129	.005 - .010	.300	.116	.020 - .040	.304	.250	.020 - .030	.310	.060	.010 - .025	.312	.045	.025 - .035
.285	.107	.020 - .032	.293	.147	.005 - .010	.300	.117	.025 - .040	.305	.087	.025 - .040	.310	.071	.005 - .010	.312	.054	.005 - .010
.285	.115	.015 - .030	.293	.188	.030 - .050	.300	.119	.005 - .010	.305	.105	.030 - .050	.310	.076	.020 - .040	.312	.062	.015 - .030
.285	.117	.010 - .020	.293	.192	.040 - .050	.300	.128	.005 - .060	.305	.125	.005 - .010	.310	.088	.015 - .025	.312	.066	.010 - .020
.285	.127	.010 - .035	.293	.219	.005 - .010	.300	.130	.030 - .050	.305	.129	.010 - .020	.310	.090	.012 - .025	.312	.072	.005 - .010
.285	.128	.010 - .035	.294	.086	.015 - .030	.300	.135	.005 - .010	.305	.140	.032 - .060	.310	.093	.025 - .040	.312	.073	.015 - .025
.285	.131	.005 - .010	.294	.089	.015 - .030	.300	.138	.020 - .060	.305	.152	.015 - .030	.310	.095	.025 - .035	.312	.090	.025 - .050
.285	.147	.030 - .050	.294	.122	.015 - .030	.300	.144	.015 - .030	.305	.156	.010 - .020	.310	.096	.005 - .010	.312	.093	.005 - .062
.285	.161	.005 - .010	.294	.126	.015 - .030	.300	.145	.005 - .012	.305	.160	.025 - .040	.310	.102	.015 - .030	.312	.094	.020 - .030
.285	.165	.015 - .030	.294	.177	.040 - .060	.300	.157	.020 - .030	.305	.162	.015 - .030	.310	.104	.020 - .040	.312	.095	.032 - .042
.285	.175	.025 - .048	.294	.187	.030 - .050	.300	.162	.025 - .040	.305	.169	.025 - .040	.310	.106	.025 - .050	.312	.096	.015 - .025
.285	.192	.020 - .035	.294	.192	.005 - .012	.300	.166	.005 - .010	.305	.188	.010 - .020	.310	.116	.030 - .040	.312	.098	.060 - .070
.285	.194	.005 - .010	.294	.224	.005 - .010	.300	.167	.030 - .042	.305	.197	.005 - .010	.310	.119	.025 - .050	.312	.099	.010 - .020
.285	.204	.010 - .020	.295	.079	.050 - .060	.300	.169	.015 - .030	.305	.204	.025 - .048	.310	.120	.030 - .060	.312	.100	.050 - .060
.285	.207	.020 - .030	.295	.106	.008 - .016	.300	.175	.025 - .040	.305	.205	.025 - .042	.310	.122	.025 - .035	.312	.104	.005 - .008
.285	.239	.010 - .015	.295	.127	.025 - .040	.300	.176	.005 - .010	.305	.221	.005 - .010	.310	.124	.005 - .010	.312	.105	.015 - .025
.286	.125	.032 - .048	.295	.130	.010 - .040	.300	.177	.010 - .020	.305	.225	.010 - .020	.310	.127	.020 - .075	.312	.112	.010 - .020
.286	.150	.032 - .050	.295	.138	.015 - .030	.300	.180	.015 - .025	.306	.045	.010 - .025	.310	.130	.030 - .050	.312	.116	.005 - .010
.286	.163	.005 - .010	.295	.148	.030 - .040	.300	.182	.005 - .010	.306	.127	.025 - .040	.310	.132	.015 - .030	.312	.122	.015 - .030
.286	.170	.010 - .020	.295	.162	.020 - .040	.300	.185	.010 - .020	.306	.138	.020 - .040	.310	.134	.015 - .030	.312	.126	.005 - .090
.286	.186	.010 - .020	.295	.167	.025 - .040	.300	.192	.005 - .010	.306	.140	.005 - .010	.310	.140	.015 - .025	.312	.127	.010 - .020
.286	.188	.005 - .010	.295	.169	.005 - .010	.300	.200	.005 - .010	.306	.190	.015 - .030	.310	.147	.005 - .010	.312	.128	.020 - .040
.286	.195	.005 - .010	.295	.170	.040 - .050	.300	.203	.010 - .020	.306	.194	.030 - .050	.310	.152	.015 - .025	.312	.129	.010 - .030
.286	.211	.005 - .010	.295	.173	.030 - .050	.300	.216	.016 - .025	.306	.203	.005 - .015	.310	.155	.030 - .042	.312	.130	.005 - .015
.287	.118	.005 - .010	.295	.174	.020 - .032	.300	.220	.015 - .025	.306	.228	.016 - .025	.310	.158	.050 - .070	.312	.132	.010 - .025
.287	.183	.005 - .010	.295	.177	.010 - .020	.300	.230	.010 - .020	.306	.243	.005 - .010	.310	.161	.005 - .010	.312	.134	.010 - .015
.287	.195	.006 - .012	.295	.179	.050 - .060	.300	.248	.015 - .030	.307	.080	.005 - .010	.310	.162	.030 - .040	.312	.139	.005 - .008
.287	.196	.005 - .020	.295	.187	.005 - .010	.300	.260	.005 - .012	.307	.081	.060 - .080	.310	.171	.010 - .020	.312	.142	.006 - .030
.288	.128	.030 - .050	.295	.192	.005 - .040	.301	.109	.025 - .040	.307	.095	.020 - .040	.310	.174	.010 - .020	.312	.143	.005 - .012
.288	.131	.025 - .040	.295	.193	.015 - .030	.301	.127	.015 - .025	.307	.130	.080 - .100	.310	.188	.030 - .050	.312	.144	.005 - .020
.288	.197	.015 - .030	.295	.195	.005 - .010	.301	.128	.010 - .020	.307	.143	.025 - .080	.310	.189	.010 - .020	.312	.146	.008 - .016
.289	.037	.020 - .030	.295	.199	.020 - .030	.301	.130	.015 - .030	.307	.159	.030 - .050	.310	.190	.012 - .025	.312	.148	.040 - .060
.289	.046	.005 - .010	.295	.210	.010 - .020	.301	.132	.005 - .010	.307	.161	.005 - .010	.310	.191	.005 - .010	.312	.150	.020 - .040
.289	.084	.005 - .010	.296	.119	.015 - .060	.301	.142	.060 - .080	.307	.166	.005 - .010	.310	.193	.025 - .040	.312	.154	.005 - .060
.289	.090	.075 - .090	.296	.120	.020 - .030	.301	.144	.020 - .040	.307	.174	.005 - .010	.310	.195	.005 - .010	.312	.156	.016 - .080
.289	.091	.060 - .075	.296	.122	.005 - .010	.301	.146	.005 - .010	.307	.177	.015 - .025	.310	.199	.030 - .050	.312	.157	.005 - .035
.289	.123	.005 - .010	.296	.130	.030 - .050	.301	.152	.020 - .030	.307	.182	.010 - .020	.310	.201	.032 - .050	.312	.158	.005 - .020

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

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

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

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
.312	.160	.040 - .060	.314	.148	.025 - .062	.318	.237	.005 - .010	.326	.180	.005 - .010	.333	.225	.010 - .020	.340	.257	.010 - .020
.312	.165	.020 - .040	.314	.152	.035 - .050	.319	.140	.015 - .030	.326	.181	.005 - .010	.333	.257	.015 - .025	.340	.283	.015 - .025
.312	.167	.015 - .025	.314	.158	.060 - .080	.319	.146	.020 - .030	.326	.189	.050 - .070	.334	.039	.015 - .025	.341	.052	.025 - .040
.312	.171	.040 - .060	.314	.161	.040 - .060	.319	.178	.005 - .010	.326	.196	.005 - .010	.334	.040	.005 - .010	.341	.061	.005 - .010
.312	.172	.020 - .030	.314	.162	.040 - .060	.319	.228	.010 - .020	.326	.256	.005 - .010	.334	.046	.005 - .010	.341	.090	.060 - .080
.312	.173	.005 - .010	.314	.176	.030 - .050	.320	.061	.005 - .010	.327	.113	.025 - .042	.334	.122	.005 - .010	.341	.093	.020 - .040
.312	.182	.010 - .020	.314	.189	.015 - .032	.320	.067	.030 - .042	.327	.120	.025 - .040	.334	.127	.005 - .010	.341	.120	.005 - .010
.312	.188	.020 - .040	.314	.219	.030 - .050	.320	.078	.005 - .010	.327	.130	.030 - .050	.334	.160	.015 - .030	.341	.131	.070 - .090
.312	.189	.005 - .062	.314	.220	.015 - .030	.320	.084	.030 - .040	.327	.190	.030 - .050	.334	.196	.005 - .010	.341	.141	.080 - .090
.312	.190	.005 - .030	.314	.225	.015 - .025	.320	.093	.042 - .060	.327	.194	.010 - .020	.334	.197	.032 - .048	.341	.158	.025 - .040
.312	.191	.008 - .020	.314	.236	.005 - .010	.320	.113	.005 - .010	.327	.217	.030 - .050	.334	.220	.005 - .050	.341	.161	.015 - .035
.312	.192	.005 - .040	.314	.242	.010 - .020	.320	.122	.015 - .030	.327	.250	.050 - .060	.334	.226	.025 - .040	.341	.164	.010 - .025
.312	.193	.005 - .010	.314	.256	.010 - .020	.320	.124	.005 - .010	.327	.258	.010 - .025	.334	.242	.010 - .020	.341	.202	.015 - .030
.312	.194	.025 - .040	.315	.025	.006 - .010	.320	.131	.005 - .010	.327	.262	.005 - .010	.334	.258	.020 - .030	.341	.281	.025 - .035
.312	.195	.020 - .035	.315	.030	.005 - .015	.320	.145	.025 - .042	.328	.105	.005 - .010	.334	.260	.005 - .010	.342	.092	.005 - .020
.312	.199	.005 - .020	.315	.068	.010 - .020	.320	.146	.015 - .030	.328	.162	.040 - .060	.334	.275	.005 - .010	.342	.118	.032 - .048
.312	.200	.040 - .060	.315	.087	.020 - .040	.320	.149	.005 - .010	.328	.175	.030 - .050	.334	.295	.010 - .015	.342	.145	.005 - .008
.312	.204	.005 - .050	.315	.092	.045 - .065	.320	.170	.015 - .025	.328	.177	.005 - .010	.335	.034	.010 - .020	.342	.156	.005 - .010
.312	.206	.010 - .020	.315	.095	.032 - .062	.320	.178	.010 - .020	.328	.179	.015 - .030	.335	.129	.015 - .025	.342	.162	.030 - .050
.312	.208	.005 - .010	.315	.097	.005 - .030	.320	.182	.050 - .070	.328	.192	.030 - .050	.335	.159	.060 - .075	.342	.164	.015 - .030
.312	.216	.010 - .020	.315	.124	.050 - .060	.320	.220	.040 - .050	.328	.197	.025 - .040	.335	.169	.015 - .030	.342	.193	.005 - .050
.312	.219	.015 - .030	.315	.127	.050 - .070	.320	.221	.050 - .062	.328	.200	.005 - .015	.335	.172	.010 - .020	.342	.198	.015 - .030
.312	.221	.005 - .010	.315	.129	.030 - .050	.321	.062	.005 - .010	.328	.214	.010 - .032	.335	.196	.025 - .040	.342	.201	.025 - .040
.312	.223	.005 - .042	.315	.138	.060 - .080	.321	.077	.020 - .030	.328	.219	.030 - .050	.335	.200	.020 - .040	.342	.206	.015 - .030
.312	.227	.030 - .042	.315	.140	.020 - .040	.321	.135	.020 - .035	.328	.222	.010 - .025	.335	.204	.005 - .040	.342	.212	.015 - .025
.312	.228	.030 - .050	.315	.147	.020 - .030	.321	.147	.010 - .020	.328	.225	.005 - .040	.335	.215	.030 - .050	.342	.255	.020 - .030
.312	.231	.025 - .040	.315	.157	.005 - .015	.321	.203	.005 - .010	.328	.245	.007 - .016	.335	.235	.010 - .020	.343	.062	.050 - .070
.312	.251	.005 - .010	.315	.160	.005 - .010	.321	.226	.010 - .020	.328	.252	.020 - .031	.335	.257	.010 - .030	.343	.087	.030 - .050
.312	.252	.025 - .042	.315	.162	.020 - .030	.321	.253	.020 - .030	.328	.253	.005 - .010	.335	.258	.005 - .010	.343	.088	.060 - .075
.312	.254	.015 - .030	.315	.163	.005 - .010	.322	.050	.005 - .010	.328	.256	.010 - .020	.335	.259	.005 - .015	.343	.092	.005 - .010
.313	.062	.005 - .010	.315	.167	.020 - .040	.322	.128	.010 - .020	.328	.260	.020 - .040	.336	.045	.005 - .010	.343	.094	.025 - .060
.313	.082	.005 - .010	.315	.170	.020 - .040	.322	.145	.015 - .030	.328	.273	.005 - .010	.336	.048	.005 - .010	.343	.097	.010 - .020
.313	.096	.075 - .090	.315	.181	.005 - .010	.322	.206	.005 - .010	.329	.030	.010 - .020	.336	.117	.040 - .060	.343	.110	.025 - .040
.313	.100	.008 - .042	.315	.190	.005 - .010	.322	.224	.010 - .020	.329	.100	.025 - .040	.336	.118	.040 - .060	.343	.116	.015 - .030
.313	.101	.040 - .060	.315	.195	.040 - .060	.322	.228	.025 - .040	.329	.108	.005 - .010	.336	.138	.005 - .048	.343	.134	.007 - .016
.313	.105	.008 - .020	.315	.223	.030 - .050	.322	.241	.010 - .020	.329	.111	.010 - .020	.336	.191	.030 - .050	.343	.138	.040 - .060
.313	.110	.008 - .015	.315	.224	.005 - .010	.322	.242	.025 - .040	.329	.132	.005 - .010	.336	.197	.005 - .010	.343	.161	.005 - .008
.313	.120	.005 - .010	.315	.238	.010 - .020	.322	.287	.010 - .020	.329	.206	.005 - .010	.336	.218	.005 - .010	.343	.167	.010 - .020
.313	.123	.050 - .070	.315	.240	.005 - .010	.323	.094	.010 - .020	.329	.209	.030 - .050	.336	.230	.010 - .020	.343	.193	.005 - .060
.313	.126	.020 - .040	.315	.244	.020 - .035	.323	.099	.020 - .040	.329	.221	.005 - .010	.336	.257	.020 - .040	.343	.194	.060 - .078
.313	.129	.005 - .010	.315	.250	.005 - .020	.323	.124	.005 - .010	.329	.245	.020 - .040	.336	.270	.005 - .010	.343	.195	.006 - .070
.313	.130	.025 - .040	.316	.098	.030 - .050	.323	.130	.025 - .042	.329	.253	.005 - .010	.336	.275	.005 - .010	.343	.196	.010 - .020
.313	.133	.015 - .030	.316	.105	.025 - .048	.323	.160	.005 - .025	.329	.288	.005 - .010	.336	.306	.005 - .010	.343	.197	.025 - .040
.313	.135	.030 - .050	.316	.124	.060 - .075	.323	.166	.020 - .030	.330	.093	.005 - .010	.337	.129	.005 - .012	.343	.217	.040 - .050
.313	.138	.025 - .040	.316	.134	.005 - .010	.323	.171	.015 - .030	.330	.124	.020 - .032	.337	.165	.015 - .025	.343	.219	.032 - .050
.313	.140	.040 - .060	.316	.138	.020 - .040	.323	.180	.042 - .090	.330	.140	.042 - .062	.337	.182	.005 - .010	.343	.225	.020 - .030
.313	.147	.030 - .050	.316	.140	.005 - .010	.323	.196	.005 - .010	.330	.143	.020 - .040	.337	.252	.020 - .030	.343	.229	.005 - .010
.313	.151	.005 - .010	.316	.153	.005 - .010	.323	.200	.020 - .032	.330	.193	.005 - .010	.337	.253	.005 - .010	.343	.230	.025 - .035
.313	.156	.040 - .050	.316	.157	.005 - .010	.323	.211	.020 - .030	.330	.205	.040 - .060	.337	.277	.015 - .030	.343	.245	.005 - .010
.313	.157	.005 - .010	.316	.167	.005 - .010	.323	.213	.005 - .010	.330	.206	.005 - .015	.337	.285	.015 - .030	.343	.261	.010 - .020
.313	.158	.015 - .030	.316	.180	.020 - .030	.323	.223	.005 - .010	.330	.217	.005 - .010	.338	.115	.005 - .010	.343	.274	.020 - .040
.313	.160	.006 - .030	.316	.198	.010 - .020	.324	.035	.005 - .010	.330	.229	.025 - .040	.338	.168	.072 - .090	.344	.102	.005 - .010
.313	.162	.005 - .010	.316	.199	.030 - .050	.324	.099	.005 - .010	.330	.250	.005 - .010	.338	.170	.010 - .030	.344	.152	.025 - .045
.313	.170	.060 - .080	.316	.201	.005 - .050	.324	.126	.020 - .040	.330	.251	.005 - .020	.338	.201	.050 - .060	.344	.165	.015 - .030
.313	.173	.025 - .050	.316	.207	.005 - .010	.324	.145	.010 - .020	.330	.253	.020 - .040	.338	.238	.005 - .010	.344	.167	.015 - .025
.313	.179	.005 - .025	.316	.209	.005 - .010	.324	.162	.060 - .080	.330	.257	.020 - .036	.338	.251	.015 - .030	.344	.172	.035 - .050
.313	.185	.005 - .010	.316	.239	.005 - .010	.324	.165	.060 - .080	.330	.261	.005 - .010	.338	.253	.010 - .020	.344	.184	.025 - .040
.313	.187	.005 - .010	.316	.252	.005 - .010	.324	.190	.005 - .010	.331	.067	.010 - .025	.339	.150	.010 - .020	.344	.189	.015 - .025
.313	.190	.010 - .015	.316	.255	.006 - .010	.324	.200	.010 - .020	.331	.124	.020 - .030	.339	.151	.005 - .010	.344	.190	.005 - .008
.313	.200	.010 - .020	.317	.095	.008 - .020	.324	.204	.040 - .060	.331	.129	.005 - .010	.339	.157	.005 - .010	.344	.196	.020 - .060
.313	.206	.030 - .050	.317	.100	.006 - .030	.324	.206	.040 - .060	.331	.140	.030 - .050	.339	.176	.020 - .040	.344	.252	.025 - .040
.313	.207	.020 - .040	.317	.114	.005 - .010	.324	.207	.020 - .030	.331	.158	.005 - .010	.339	.206	.005 - .010	.344	.267	.025 - .040
.313	.208	.005 - .010	.317	.132	.005 - .010	.324	.242	.025 - .042	.331	.167	.020 - .030	.339	.223	.005 - .010	.344	.290	.010 - .020
.313	.224	.020 - .040	.317	.148	.050 - .070	.324	.254	.005 - .010	.331	.196	.005 - .010	.340	.085	.015 - .030	.344	.291	.005 - .010
.313	.230	.005 - .010	.317	.179	.005 - .010	.325	.118	.005 - .010	.331	.198	.015 - .030	.340	.150	.015 - .025	.345	.043	.005 - .010
.313	.230	.005 - .015	.317	.205	.010 - .020	.325	.125	.015 - .025	.331	.200	.040 - .060	.340	.158	.020 - .040	.345	.125	.020 - .032
.313	.232	.005 - .015	.317	.229	.005 - .010	.325	.130	.015 - .025	.331	.236	.015 - .030	.340	.164	.030 - .060	.345	.132	.032 - .048
.313	.242	.005 - .010	.317	.240	.025 - .035	.325	.134	.005 - .010	.331	.237	.020 - .030	.340	.189	.012 - .020	.345	.135	.032 - .048
.313	.253	.020 - .030	.317	.281	.005 - .010	.325	.140	.040 - .060	.331	.254	.005 - .008	.340	.190	.005 - .010	.345	.150	.030 - .042
.313	.255	.015 - .025	.318	.094	.005 - .010	.325	.142	.008 - .018	.331	.279	.005 - .010	.340	.191	.025 - .050	.345	.159	.005 - .010
.314	.039	.010 - .020	.318	.097	.005 - .010	.325	.164	.015 - .030	.332	.164	.005 - .010	.340	.194	.005 - .010	.345	.170	.005 - .010
.314	.043	.005 - .010	.318	.125	.010 - .020	.325	.169	.005 - .010	.332	.175	.050 - .075	.340	.196	.020 - .040	.345	.189	.005 - .010
.314	.060	.005 - .010	.318	.132	.010 - .020	.325	.200	.005 - .050	.332	.192	.016 - .030	.340	.197	.005 - .035	.345	.192	.005 - .075
.314	.088	.015 - .035	.318	.143	.008 - .020	.325	.235	.005 - .010	.332	.203	.010 - .020	.340	.204	.036 - .050	.345	.193	.025 - .060
.314	.103	.025 - .045	.318	.159	.020 - .040	.325	.236	.025 - .040	.332	.213	.005 - .008	.340	.207	.030 - .050	.345	.198	.040 - .060
.314	.111	.010 - .025	.318	.166	.020 - .040	.325	.244	.015 - .025	.332	.236	.005 - .030	.340	.210	.030 - .050	.345	.205	.005 - .010
.314	.114	.032 - .050	.318	.174	.015 - .030	.325	.254	.015 - .025	.333	.123	.020 - .080	.340	.212	.020 - .040	.345	.216	.005 - .010
.314	.122	.025 - .048	.318	.191	.010 - .020	.325	.256	.005 - .010	.333	.173	.032 - .048	.340	.222	.025 - .062	.345	.223	.010 - .050
.314	.128	.005 - .015	.318	.198	.030 - .060	.326	.138	.005 - .010	.333	.175	.020 - .050	.340	.233	.050 - .060	.345	.228	.015 - .030
.314	.139	.040 - .060	.318	.228	.008 - .016	.326	.150	.030 - .050	.333	.212	.020 - .036	.340	.240	.030 - .050	.345	.252	.010 - .020

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

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

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
.345	.276	.015 - .030	.351	.184	.005 - .010	.355	.282	.005 - .025	.363	.152	.005 - .010	.368	.256	.005 - .010	.372	.071	.020 - .040
.345	.277	.005 - .010	.351	.200	.025 - .050	.356	.111	.025 - .040	.363	.180	.050 - .070	.368	.257	.020 - .040	.372	.083	.040 - .060
.346	.044	.015 - .030	.351	.201	.020 - .030	.356	.198	.030 - .060	.363	.191	.008 - .016	.368	.263	.005 - .010	.372	.097	.040 - .060
.346	.046	.025 - .040	.351	.208	.030 - .060	.356	.255	.005 - .010	.363	.192	.020 - .040	.368	.265	.005 - .030	.372	.099	.020 - .040
.346	.084	.030 - .050	.351	.222	.005 - .010	.356	.282	.025 - .040	.363	.254	.010 - .040	.368	.284	.005 - .010	.372	.106	.025 - .040
.346	.116	.005 - .010	.351	.230	.040 - .060	.357	.085	.005 - .010	.363	.255	.010 - .020	.368	.287	.020 - .040	.372	.124	.005 - .010
.346	.128	.050 - .070	.351	.241	.020 - .040	.357	.093	.005 - .012	.363	.259	.010 - .020	.368	.298	.005 - .010	.372	.153	.025 - .042
.346	.143	.040 - .060	.351	.252	.010 - .020	.357	.142	.020 - .040	.363	.286	.025 - .036	.368	.323	.005 - .010	.372	.158	.025 - .048
.346	.149	.075 - .090	.351	.268	.020 - .030	.357	.150	.030 - .050	.363	.314	.005 - .010	.369	.084	.030 - .040	.372	.162	.020 - .040
.346	.152	.005 - .010	.351	.309	.010 - .020	.357	.173	.070 - .090	.364	.120	.020 - .040	.369	.117	.015 - .030	.372	.164	.015 - .030
.346	.158	.005 - .025	.352	.031	.010 - .020	.357	.191	.060 - .080	.364	.151	.090 - .110	.369	.177	.050 - .070	.372	.174	.025 - .040
.346	.163	.006 - .015	.352	.090	.010 - .015	.357	.195	.060 - .080	.364	.181	.010 - .020	.369	.181	.040 - .060	.372	.177	.060 - .080
.346	.166	.005 - .010	.352	.129	.020 - .030	.357	.260	.040 - .050	.364	.205	.015 - .030	.369	.190	.005 - .015	.372	.179	.015 - .030
.346	.172	.040 - .090	.352	.167	.030 - .050	.357	.303	.010 - .020	.364	.210	.005 - .015	.369	.194	.005 - .010	.372	.180	.015 - .030
.346	.180	.005 - .010	.352	.168	.008 - .020	.357	.318	.005 - .010	.364	.258	.015 - .030	.369	.197	.005 - .010	.372	.196	.062 - .080
.346	.196	.005 - .010	.352	.184	.015 - .030	.358	.126	.025 - .040	.365	.046	.010 - .020	.369	.205	.005 - .010	.372	.199	.005 - .016
.346	.207	.030 - .060	.352	.191	.035 - .050	.358	.127	.015 - .025	.365	.062	.005 - .010	.369	.208	.025 - .040	.372	.202	.015 - .030
.346	.210	.040 - .060	.352	.236	.030 - .050	.358	.164	.020 - .040	.365	.098	.020 - .040	.369	.215	.005 - .020	.372	.204	.030 - .050
.346	.216	.020 - .030	.352	.240	.040 - .060	.358	.170	.006 - .010	.365	.178	.005 - .010	.369	.224	.005 - .010	.372	.208	.015 - .030
.346	.219	.010 - .020	.352	.254	.005 - .010	.358	.178	.030 - .050	.365	.180	.020 - .040	.369	.257	.050 - .070	.372	.221	.050 - .075
.346	.253	.005 - .010	.352	.255	.030 - .050	.358	.203	.005 - .010	.365	.189	.007 - .015	.369	.313	.005 - .010	.372	.230	.015 - .030
.346	.289	.005 - .010	.352	.263	.010 - .020	.358	.204	.020 - .030	.365	.193	.005 - .010	.369	.324	.005 - .010	.372	.239	.050 - .070
.347	.157	.020 - .030	.353	.062	.015 - .025	.358	.213	.005 - .010	.365	.200	.005 - .010	.370	.034	.020 - .025	.372	.253	.010 - .020
.347	.174	.030 - .050	.353	.128	.020 - .040	.358	.238	.025 - .040	.365	.201	.030 - .040	.370	.088	.010 - .025	.372	.254	.010 - .060
.347	.203	.025 - .040	.353	.143	.020 - .075	.358	.252	.005 - .010	.365	.208	.020 - .040	.370	.101	.005 - .020	.372	.255	.005 - .010
.347	.220	.015 - .030	.353	.157	.015 - .030	.358	.257	.010 - .020	.365	.212	.050 - .070	.370	.110	.025 - .040	.372	.256	.005 - .015
.347	.234	.040 - .060	.353	.158	.005 - .030	.359	.069	.030 - .050	.365	.226	.005 - .010	.370	.119	.005 - .010	.372	.257	.020 - .030
.347	.253	.016 - .025	.353	.159	.030 - .050	.359	.127	.025 - .040	.365	.247	.050 - .070	.370	.125	.005 - .060	.372	.258	.040 - .050
.347	.256	.006 - .016	.353	.172	.025 - .040	.359	.137	.010 - .020	.365	.250	.005 - .020	.370	.126	.005 - .010	.372	.272	.005 - .010
.347	.263	.005 - .010	.353	.178	.005 - .010	.359	.158	.010 - .020	.365	.253	.025 - .040	.370	.140	.010 - .042	.372	.278	.025 - .042
.347	.287	.005 - .010	.353	.190	.015 - .030	.359	.159	.020 - .035	.365	.254	.005 - .010	.370	.146	.025 - .048	.372	.311	.015 - .030
.348	.168	.020 - .040	.353	.225	.032 - .050	.359	.190	.020 - .040	.365	.255	.015 - .025	.370	.158	.010 - .020	.372	.312	.005 - .035
.348	.172	.005 - .010	.353	.226	.020 - .042	.359	.195	.030 - .050	.365	.257	.015 - .030	.370	.159	.035 - .060	.372	.315	.005 - .010
.348	.173	.010 - .042	.353	.227	.005 - .010	.359	.204	.010 - .025	.365	.265	.042 - .062	.370	.160	.070 - .080	.373	.039	.025 - .035
.348	.174	.005 - .010	.353	.232	.020 - .040	.359	.210	.025 - .042	.365	.268	.005 - .010	.370	.171	.005 - .020	.373	.041	.010 - .020
.348	.225	.025 - .042	.353	.237	.005 - .010	.359	.221	.025 - .040	.365	.270	.020 - .040	.370	.173	.020 - .040	.373	.068	.015 - .030
.349	.123	.010 - .020	.353	.242	.015 - .025	.359	.240	.005 - .010	.365	.307	.005 - .010	.370	.180	.020 - .030	.373	.081	.040 - .062
.349	.171	.015 - .030	.353	.254	.005 - .010	.359	.257	.010 - .020	.365	.312	.005 - .020	.370	.189	.020 - .040	.373	.127	.005 - .015
.349	.176	.010 - .015	.353	.281	.005 - .010	.359	.258	.020 - .040	.365	.315	.005 - .010	.370	.191	.005 - .010	.373	.142	.062 - .078
.349	.191	.035 - .050	.354	.048	.005 - .010	.359	.260	.031 - .042	.366	.077	.005 - .010	.370	.196	.010 - .020	.373	.157	.020 - .040
.349	.192	.015 - .030	.354	.052	.030 - .050	.359	.267	.020 - .032	.366	.129	.015 - .025	.370	.199	.015 - .025	.373	.159	.020 - .040
.349	.197	.020 - .030	.354	.061	.015 - .025	.359	.284	.010 - .020	.366	.158	.015 - .030	.370	.202	.060 - .080	.373	.165	.005 - .015
.349	.220	.015 - .030	.354	.070	.015 - .025	.359	.293	.005 - .015	.366	.190	.040 - .060	.370	.205	.005 - .010	.373	.168	.010 - .020
.349	.252	.015 - .030	.354	.099	.010 - .020	.360	.038	.005 - .010	.366	.206	.005 - .020	.370	.206	.025 - .040	.373	.174	.005 - .010
.349	.285	.020 - .030	.354	.114	.060 - .080	.360	.080	.005 - .010	.366	.218	.016 - .032	.370	.211	.060 - .080	.373	.175	.050 - .078
.349	.290	.005 - .010	.354	.119	.040 - .060	.360	.095	.005 - .010	.366	.219	.015 - .030	.370	.212	.040 - .050	.373	.189	.030 - .050
.349	.297	.005 - .010	.354	.125	.005 - .070	.360	.102	.015 - .030	.366	.225	.020 - .040	.370	.218	.040 - .060	.373	.191	.030 - .072
.350	.060	.005 - .010	.354	.128	.025 - .040	.360	.115	.030 - .040	.366	.241	.020 - .040	.370	.220	.015 - .030	.373	.192	.010 - .060
.350	.089	.005 - .010	.354	.144	.030 - .050	.360	.126	.005 - .010	.366	.253	.005 - .015	.370	.252	.005 - .010	.373	.193	.005 - .060
.350	.090	.005 - .010	.354	.145	.020 - .040	.360	.136	.005 - .020	.366	.254	.005 - .030	.370	.254	.020 - .040	.373	.196	.005 - .010
.350	.121	.010 - .020	.354	.147	.020 - .035	.360	.164	.020 - .032	.366	.268	.030 - .050	.370	.256	.015 - .030	.373	.200	.005 - .010
.350	.122	.005 - .010	.354	.152	.060 - .080	.360	.171	.025 - .040	.366	.272	.025 - .035	.370	.261	.005 - .010	.373	.210	.005 - .010
.350	.125	.090 - .110	.354	.161	.010 - .020	.360	.175	.005 - .020	.366	.274	.010 - .020	.370	.269	.040 - .060	.373	.222	.015 - .030
.350	.154	.005 - .010	.354	.162	.010 - .020	.360	.177	.050 - .070	.366	.294	.005 - .012	.370	.300	.020 - .030	.373	.238	.030 - .050
.350	.160	.020 - .040	.354	.178	.010 - .020	.360	.185	.005 - .010	.366	.305	.016 - .025	.370	.330	.005 - .010	.373	.253	.040 - .060
.350	.167	.015 - .030	.354	.201	.005 - .010	.360	.186	.040 - .060	.366	.312	.015 - .025	.371	.099	.020 - .040	.373	.256	.042 - .060
.350	.168	.030 - .050	.354	.204	.010 - .060	.360	.188	.015 - .030	.367	.098	.030 - .050	.371	.129	.050 - .070	.373	.269	.005 - .010
.350	.171	.005 - .010	.354	.226	.005 - .010	.360	.190	.030 - .050	.367	.105	.015 - .025	.371	.130	.050 - .075	.373	.317	.010 - .020
.350	.178	.060 - .080	.354	.237	.010 - .020	.360	.192	.060 - .090	.367	.125	.090 - .125	.371	.131	.020 - .030	.373	.318	.005 - .010
.350	.181	.025 - .040	.354	.238	.005 - .040	.360	.193	.005 - .015	.367	.176	.050 - .062	.371	.150	.005 - .010	.374	.049	.005 - .010
.350	.194	.005 - .010	.354	.245	.005 - .010	.360	.203	.030 - .042	.367	.186	.005 - .010	.371	.176	.005 - .010	.374	.083	.036 - .050
.350	.195	.060 - .080	.354	.279	.005 - .010	.360	.207	.050 - .062	.367	.258	.050 - .060	.371	.184	.010 - .020	.374	.099	.005 - .010
.350	.203	.032 - .042	.354	.315	.005 - .010	.360	.230	.010 - .020	.367	.260	.015 - .030	.371	.195	.050 - .070	.374	.120	.040 - .060
.350	.213	.020 - .030	.355	.070	.015 - .030	.360	.245	.005 - .010	.367	.264	.005 - .010	.371	.201	.040 - .060	.374	.130	.010 - .020
.350	.223	.010 - .020	.355	.083	.030 - .050	.360	.260	.025 - .042	.367	.272	.020 - .040	.371	.206	.060 - .083	.374	.138	.005 - .015
.350	.231	.015 - .030	.355	.103	.070 - .080	.360	.277	.005 - .010	.367	.273	.005 - .010	.371	.222	.030 - .050	.374	.149	.010 - .015
.350	.245	.040 - .050	.355	.131	.050 - .078	.360	.312	.015 - .025	.368	.061	.005 - .010	.371	.233	.005 - .010	.374	.157	.025 - .040
.350	.252	.005 - .020	.355	.158	.025 - .042	.361	.215	.030 - .050	.368	.063	.005 - .010	.371	.245	.050 - .075	.374	.168	.025 - .040
.350	.253	.005 - .010	.355	.159	.040 - .060	.361	.243	.025 - .040	.368	.080	.020 - .030	.371	.250	.005 - .032	.374	.172	.040 - .060
.350	.255	.025 - .040	.355	.160	.040 - .060	.361	.281	.005 - .010	.368	.122	.025 - .042	.371	.252	.035 - .050	.374	.173	.040 - .060
.350	.276	.025 - .040	.355	.175	.040 - .060	.361	.296	.005 - .010	.368	.124	.040 - .050	.371	.253	.015 - .030	.374	.175	.040 - .060
.350	.291	.020 - .045	.355	.185	.005 - .010	.362	.121	.005 - .010	.368	.154	.005 - .010	.371	.255	.005 - .012	.374	.180	.020 - .080
.351	.064	.005 - .010	.355	.198	.030 - .050	.362	.143	.015 - .030	.368	.159	.005 - .010	.371	.256	.005 - .010	.374	.185	.015 - .030
.351	.091	.030 - .050	.355	.201	.020 - .040	.362	.220	.005 - .010	.368	.168	.025 - .040	.371	.260	.005 - .020	.374	.191	.005 - .060
.351	.094	.005 - .010	.355	.226	.008 - .016	.362	.221	.010 - .020	.368	.193	.020 - .040	.371	.262	.040 - .050	.374	.194	.005 - .010
.351	.097	.005 - .010	.355	.230	.005 - .010	.362	.235	.040 - .060	.368	.194	.050 - .070	.371	.269	.005 - .010	.374	.196	.025 - .040
.351	.130	.005 - .020	.355	.236	.005 - .010	.362	.247	.015 - .030	.368	.195	.070 - .090	.371	.281	.020 - .030	.374	.199	.005 - .010
.351	.145	.005 - .010	.355	.255	.010 - .020	.362	.257	.030 - .050	.368	.199	.015 - .050	.371	.283	.010 - .020	.374	.200	.005 - .010
.351	.166	.008 - .015	.355	.260	.030 - .040	.362	.267	.025 - .040	.368	.223	.060 - .080	.371	.314	.005 - .010	.374	.202	.025 - .040
.351	.171	.005 - .015	.355	.281	.015 - .025	.362	.283	.005 - .010	.368	.226	.007 - .015	.372	.060	.010 - .020	.374	.206	.005 - .010

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

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

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

O.D.	I.D.	Choose Any Thickness* From To
.374	.221	.010 - .020
.374	.222	.005 - .010
.374	.224	.005 - .010
.374	.225	.008 - .016
.374	.232	.005 - .040
.374	.236	.050 - .060
.374	.237	.030 - .060
.374	.252	.005 - .040
.374	.255	.005 - .010
.374	.257	.025 - .060
.374	.280	.005 - .010
.374	.307	.005 - .010
.374	.320	.010 - .020
.375	.041	.040 - .050
.375	.045	.006 - .015
.375	.048	.015 - .030
.375	.059	.005 - .010
.375	.086	.015 - .030
.375	.091	.005 - .030
.375	.095	.090 - .104
.375	.100	.005 - .030
.375	.101	.070 - .080
.375	.103	.030 - .050
.375	.110	.030 - .040
.375	.111	.005 - .010
.375	.114	.030 - .042
.375	.120	.030 - .060
.375	.123	.030 - .075
.375	.125	.010 - .070
.375	.126	.010 - .020
.375	.129	.005 - .036
.375	.132	.080 - .090
.375	.133	.050 - .062
.375	.135	.005 - .010
.375	.143	.075 - .090
.375	.144	.005 - .040
.375	.145	.025 - .040
.375	.147	.030 - .050
.375	.148	.030 - .050
.375	.150	.020 - .105
.375	.152	.080 - .100
.375	.153	.005 - .050
.375	.156	.005 - .012
.375	.158	.005 - .010
.375	.160	.010 - .020
.375	.161	.020 - .040
.375	.162	.006 - .100
.375	.163	.005 - .060
.375	.165	.042 - .062
.375	.169	.015 - .050
.375	.172	.005 - .050
.375	.173	.020 - .030
.375	.175	.005 - .012
.375	.177	.060 - .075
.375	.180	.060 - .080
.375	.184	.005 - .010
.375	.188	.005 - .030
.375	.189	.080 - .104
.375	.190	.080 - .104
.375	.191	.040 - .090
.375	.192	.005 - .090
.375	.193	.005 - .015
.375	.194	.040 - .060
.375	.195	.005 - .042
.375	.196	.005 - .060
.375	.200	.040 - .060
.375	.202	.010 - .032
.375	.203	.015 - .060
.375	.204	.060 - .080
.375	.205	.008 - .015
.375	.209	.025 - .062
.375	.211	.010 - .020
.375	.213	.015 - .025
.375	.218	.060 - .080
.375	.220	.005 - .010
.375	.223	.050 - .070
.375	.225	.050 - .070
.375	.226	.015 - .030
.375	.235	.010 - .020
.375	.237	.005 - .075
.375	.238	.005 - .030
.375	.245	.050 - .060
.375	.248	.010 - .020
.375	.250	.005 - .060
.375	.252	.005 - .015
.375	.253	.005 - .025
.375	.254	.005 - .040
.375	.255	.020 - .030
.375	.257	.025 - .040
.375	.258	.010 - .020
.375	.267	.020 - .030
.375	.274	.010 - .020
.375	.280	.030 - .042
.375	.281	.005 - .040
.375	.282	.005 - .010
.375	.285	.008 - .015
.375	.292	.015 - .025
.375	.301	.015 - .030
.375	.303	.025 - .040
.375	.313	.005 - .010
.375	.316	.020 - .040
.375	.318	.020 - .032
.375	.382	.005 - .010
.376	.084	.008 - .016
.376	.117	.015 - .040
.376	.122	.015 - .030
.376	.126	.012 - .020
.376	.130	.025 - .040
.376	.141	.020 - .040
.376	.156	.010 - .020
.376	.157	.010 - .090
.376	.158	.050 - .070
.376	.159	.050 - .075
.376	.161	.005 - .010
.376	.169	.005 - .010
.376	.172	.005 - .060
.376	.174	.075 - .090
.376	.177	.020 - .035
.376	.182	.010 - .020
.376	.186	.060 - .080
.376	.187	.030 - .050
.376	.189	.005 - .020
.376	.190	.020 - .080
.376	.191	.040 - .060
.376	.194	.030 - .050
.376	.196	.005 - .010
.376	.197	.005 - .010
.376	.204	.010 - .020
.376	.205	.005 - .010
.376	.217	.040 - .060
.376	.220	.020 - .032
.376	.222	.005 - .010
.376	.223	.005 - .042
.376	.234	.030 - .050
.376	.244	.032 - .050
.376	.251	.020 - .032
.376	.252	.040 - .050
.376	.254	.025 - .048
.376	.255	.040 - .060
.376	.260	.005 - .032
.376	.261	.010 - .020
.376	.263	.005 - .020
.376	.269	.005 - .010
.376	.271	.010 - .040
.376	.276	.040 - .060
.376	.301	.005 - .010
.376	.316	.005 - .010
.377	.031	.005 - .010
.377	.035	.015 - .025
.377	.047	.030 - .042
.377	.068	.030 - .042
.377	.071	.005 - .010
.377	.100	.015 - .030
.377	.101	.020 - .030
.377	.110	.020 - .030
.377	.114	.020 - .040
.377	.115	.005 - .010
.377	.134	.015 - .030
.377	.140	.005 - .010
.377	.145	.050 - .060
.377	.147	.010 - .020
.377	.156	.030 - .060
.377	.157	.070 - .090
.377	.164	.005 - .010
.377	.165	.020 - .030
.377	.171	.025 - .040
.377	.173	.030 - .050
.377	.182	.025 - .048
.377	.185	.010 - .020
.377	.189	.030 - .060
.377	.190	.015 - .030
.377	.191	.025 - .040
.377	.194	.025 - .060
.377	.219	.032 - .042
.377	.220	.020 - .040
.377	.223	.030 - .050
.377	.225	.015 - .030
.377	.230	.010 - .020
.377	.253	.015 - .060
.377	.254	.025 - .040
.377	.255	.040 - .062
.377	.262	.030 - .050
.377	.265	.005 - .010
.377	.267	.006 - .012
.377	.276	.010 - .020
.377	.315	.010 - .020
.378	.061	.005 - .010
.378	.062	.005 - .010
.378	.064	.015 - .025
.378	.127	.005 - .010
.378	.130	.010 - .020
.378	.160	.010 - .020
.378	.164	.010 - .030
.378	.171	.032 - .050
.378	.178	.005 - .010
.378	.200	.010 - .020
.378	.202	.015 - .030
.378	.244	.005 - .010
.378	.251	.020 - .030
.378	.252	.010 - .060
.378	.255	.015 - .025
.378	.258	.020 - .030
.378	.260	.005 - .010
.378	.269	.008 - .016
.378	.289	.012 - .025
.378	.292	.005 - .010
.379	.143	.050 - .070
.379	.162	.015 - .035
.379	.163	.020 - .035
.379	.164	.040 - .070
.379	.173	.005 - .010
.379	.198	.005 - .010
.379	.200	.005 - .010
.379	.221	.005 - .010
.379	.250	.005 - .010
.379	.252	.005 - .010
.379	.257	.040 - .062
.379	.297	.030 - .042
.380	.093	.015 - .030
.380	.095	.015 - .030
.380	.096	.060 - .080
.380	.097	.040 - .060
.380	.116	.005 - .010
.380	.126	.030 - .050
.380	.148	.025 - .040
.380	.149	.080 - .100
.380	.162	.040 - .060
.380	.173	.005 - .010
.380	.175	.015 - .090
.380	.180	.005 - .010
.380	.186	.015 - .040
.380	.190	.005 - .010
.380	.191	.020 - .040
.380	.192	.005 - .010
.380	.194	.005 - .010
.380	.195	.005 - .025
.380	.204	.012 - .025
.380	.215	.030 - .050
.380	.226	.005 - .010
.380	.242	.015 - .030
.380	.255	.005 - .010
.380	.262	.005 - .010
.380	.264	.025 - .040
.380	.276	.005 - .010
.380	.277	.010 - .020
.380	.280	.030 - .040
.380	.285	.032 - .050
.381	.094	.005 - .010
.381	.099	.025 - .040
.381	.114	.005 - .010
.381	.116	.005 - .010
.381	.124	.005 - .012
.381	.126	.030 - .050
.381	.131	.040 - .060
.381	.138	.005 - .010
.381	.148	.025 - .040
.381	.150	.005 - .010
.381	.153	.060 - .070
.381	.163	.030 - .050
.381	.175	.075 - .090
.381	.178	.015 - .030
.381	.182	.005 - .020
.381	.186	.015 - .030
.381	.195	.040 - .060
.381	.200	.020 - .030
.381	.203	.005 - .010
.381	.212	.005 - .010
.381	.255	.015 - .030
.381	.260	.015 - .030
.381	.290	.005 - .010
.381	.294	.005 - .010
.381	.300	.020 - .035
.381	.315	.020 - .036
.382	.132	.025 - .040
.382	.163	.030 - .050
.382	.175	.015 - .030
.382	.189	.050 - .072
.382	.195	.005 - .010
.382	.199	.030 - .050
.382	.204	.005 - .010
.382	.207	.030 - .050
.382	.225	.030 - .050
.382	.252	.015 - .025
.382	.300	.048 - .062
.382	.328	.015 - .025
.383	.099	.030 - .050
.383	.115	.015 - .030
.383	.155	.030 - .050
.384	.127	.020 - .030
.384	.144	.030 - .050
.384	.159	.030 - .050
.384	.214	.030 - .050
.384	.238	.020 - .030
.384	.271	.015 - .020
.384	.285	.015 - .030
.385	.156	.020 - .032
.385	.181	.030 - .050
.385	.188	.025 - .040
.385	.194	.060 - .080
.385	.239	.005 - .010
.385	.241	.030 - .070
.385	.249	.025 - .048
.385	.252	.005 - .012
.385	.260	.005 - .010
.385	.262	.050 - .060
.385	.290	.010 - .020
.385	.301	.005 - .010
.386	.121	.030 - .050
.386	.130	.020 - .030
.386	.141	.010 - .020
.386	.162	.050 - .062
.386	.181	.040 - .060
.386	.225	.020 - .040
.386	.237	.040 - .050
.386	.250	.015 - .040
.386	.301	.020 - .040
.386	.313	.020 - .030
.387	.091	.030 - .050
.387	.118	.020 - .030
.387	.171	.060 - .090
.387	.189	.032 - .048
.387	.258	.020 - .040
.387	.280	.005 - .010
.387	.318	.008 - .020
.387	.328	.010 - .020
.388	.090	.015 - .025
.388	.127	.008 - .020
.388	.136	.005 - .010
.388	.171	.075 - .090
.388	.205	.025 - .040
.388	.211	.005 - .010
.388	.215	.040 - .060
.388	.252	.015 - .030
.388	.264	.025 - .040
.388	.280	.005 - .030
.388	.288	.015 - .030
.389	.078	.015 - .030
.389	.130	.020 - .035
.389	.198	.020 - .040
.389	.199	.015 - .030
.389	.200	.015 - .030
.389	.205	.005 - .012
.389	.223	.012 - .020
.389	.227	.005 - .010
.389	.276	.020 - .030
.390	.039	.005 - .010
.390	.077	.010 - .020
.390	.087	.020 - .030
.390	.129	.015 - .030
.390	.145	.015 - .080
.390	.157	.005 - .010
.390	.162	.020 - .030
.390	.169	.025 - .050
.390	.181	.030 - .050
.390	.185	.005 - .010
.390	.195	.020 - .050
.390	.198	.015 - .030
.390	.201	.070 - .090
.390	.217	.015 - .030
.390	.235	.050 - .080
.390	.236	.005 - .080
.390	.241	.040 - .075
.390	.256	.005 - .010
.390	.257	.015 - .030
.390	.258	.005 - .010
.390	.260	.005 - .020
.390	.262	.040 - .060
.390	.266	.025 - .040
.390	.284	.005 - .010
.390	.306	.005 - .010
.390	.314	.025 - .040
.391	.105	.005 - .010
.391	.132	.120 - .140
.391	.163	.040 - .060
.391	.177	.040 - .060
.391	.197	.015 - .030
.391	.226	.010 - .020
.391	.242	.005 - .010
.391	.271	.020 - .040
.391	.285	.020 - .035
.391	.306	.005 - .010
.391	.307	.010 - .020
.391	.314	.015 - .020
.391	.348	.005 - .010
.392	.129	.025 - .040
.392	.190	.005 - .010
.392	.207	.015 - .030
.392	.219	.005 - .010
.392	.280	.035 - .050
.392	.328	.005 - .010
.392	.337	.005 - .010
.393	.042	.005 - .010
.393	.103	.010 - .020
.393	.111	.025 - .040
.393	.120	.005 - .010
.393	.158	.005 - .020
.393	.196	.040 - .050
.393	.201	.030 - .050
.393	.209	.005 - .010
.393	.214	.005 - .010
.393	.217	.030 - .050
.393	.230	.025 - .040
.393	.237	.005 - .010
.393	.239	.005 - .010
.393	.240	.005 - .050
.393	.256	.020 - .040
.393	.277	.005 - .010
.393	.279	.005 - .010
.393	.285	.010 - .020
.393	.287	.005 - .015
.393	.314	.025 - .035
.393	.315	.005 - .010
.393	.316	.010 - .020
.393	.324	.010 - .020
.394	.083	.005 - .010
.394	.095	.005 - .020
.394	.142	.005 - .010
.394	.157	.040 - .060
.394	.158	.040 - .060
.394	.168	.050 - .075
.394	.183	.010 - .020
.394	.196	.050 - .075
.394	.203	.005 - .010
.394	.207	.050 - .075
.394	.208	.070 - .090
.394	.237	.005 - .010
.394	.239	.025 - .040
.394	.240	.005 - .025
.394	.243	.015 - .030
.394	.251	.005 - .080
.394	.255	.045 - .064
.394	.260	.040 - .060
.394	.319	.005 - .010
.395	.099	.030 - .050
.395	.165	.015 - .030
.395	.172	.020 - .035
.395	.174	.015 - .030
.395	.175	.090 - .105
.395	.186	.070 - .090
.395	.191	.025 - .093
.395	.195	.005 - .010
.395	.200	.005 - .010
.395	.210	.025 - .040
.395	.219	.010 - .020
.395	.220	.015 - .035
.395	.225	.010 - .020
.395	.236	.040 - .060
.395	.243	.005 - .015
.395	.246	.015 - .030
.395	.248	.060 - .075
.395	.251	.020 - .030
.395	.277	.040 - .050
.395	.280	.040 - .060
.395	.284	.005 - .048
.395	.294	.036 - .050
.395	.322	.005 - .010
.395	.338	.005 - .010
.396	.055	.010 - .020
.396	.151	.040 - .060
.396	.194	.010 - .015
.396	.203	.020 - .040
.396	.221	.005 - .015
.396	.259	.030 - .050
.396	.260	.030 - .050
.396	.277	.020 - .040
.396	.278	.020 - .040
.396	.285	.025 - .042
.396	.318	.005 - .010
.396	.333	.005 - .030
.396	.338	.005 - .008
.397	.025	.005 - .010
.397	.032	.005 - .010
.397	.105	.008 - .016
.397	.109	.005 - .015
.397	.153	.025 - .040
.397	.176	.005 - .010
.397	.183	.010 - .020
.397	.196	.010 - .015
.397	.212	.005 - .015
.397	.231	.005 - .010

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

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
.397	.250	.005 - .010	.401	.258	.015 - .025	.406	.220	.025 - .042	.412	.290	.040 - .060	.421	.108	.005 - .010	.427	.230	.010 - .020
.397	.255	.070 - .090	.401	.263	.005 - .010	.406	.221	.010 - .020	.412	.326	.010 - .040	.421	.121	.005 - .010	.427	.233	.050 - .070
.397	.267	.020 - .040	.401	.298	.005 - .010	.406	.224	.005 - .010	.413	.169	.005 - .010	.421	.178	.020 - .040	.427	.260	.005 - .010
.397	.280	.040 - .050	.401	.314	.010 - .020	.406	.242	.062 - .080	.413	.187	.010 - .020	.421	.204	.020 - .040	.427	.265	.015 - .030
.397	.298	.015 - .030	.401	.328	.005 - .030	.406	.250	.020 - .035	.413	.212	.010 - .020	.421	.209	.005 - .010	.427	.279	.040 - .060
.397	.315	.032 - .042	.402	.099	.015 - .025	.406	.252	.050 - .070	.413	.222	.042 - .072	.421	.234	.025 - .040	.427	.325	.015 - .030
.397	.320	.020 - .040	.402	.145	.015 - .060	.406	.257	.025 - .042	.413	.223	.005 - .010	.421	.251	.015 - .030	.427	.347	.005 - .010
.397	.325	.015 - .025	.402	.157	.005 - .010	.406	.260	.005 - .010	.413	.229	.005 - .010	.421	.252	.005 - .010	.428	.034	.016 - .025
.398	.117	.020 - .035	.402	.162	.060 - .080	.406	.262	.025 - .040	.413	.269	.005 - .010	.421	.268	.025 - .040	.428	.101	.010 - .020
.398	.188	.005 - .010	.402	.193	.015 - .025	.406	.264	.036 - .050	.413	.319	.005 - .010	.421	.279	.005 - .010	.428	.132	.005 - .010
.398	.191	.040 - .060	.402	.235	.050 - .070	.406	.269	.005 - .010	.413	.326	.005 - .010	.421	.280	.005 - .010	.428	.143	.050 - .070
.398	.200	.070 - .080	.402	.256	.030 - .050	.406	.276	.042 - .062	.413	.379	.010 - .020	.421	.291	.005 - .010	.428	.179	.090 - .105
.398	.225	.005 - .010	.402	.270	.040 - .060	.406	.278	.005 - .010	.414	.081	.030 - .050	.421	.319	.020 - .030	.428	.187	.005 - .010
.398	.234	.005 - .010	.402	.281	.048 - .062	.406	.284	.020 - .040	.414	.162	.030 - .050	.421	.322	.005 - .010	.428	.213	.020 - .040
.398	.241	.040 - .060	.402	.300	.015 - .030	.406	.285	.005 - .010	.414	.166	.005 - .010	.422	.038	.020 - .036	.428	.220	.040 - .060
.398	.286	.025 - .048	.402	.359	.005 - .010	.406	.304	.005 - .010	.414	.212	.080 - .100	.422	.123	.005 - .010	.428	.241	.005 - .010
.398	.303	.005 - .010	.403	.144	.005 - .010	.407	.063	.005 - .010	.414	.236	.070 - .080	.422	.129	.010 - .025	.428	.299	.005 - .010
.398	.304	.015 - .030	.403	.189	.025 - .036	.407	.175	.005 - .010	.414	.252	.005 - .060	.422	.130	.015 - .025	.428	.311	.025 - .040
.398	.320	.020 - .040	.403	.192	.020 - .040	.407	.207	.005 - .015	.414	.261	.005 - .010	.422	.153	.005 - .010	.428	.316	.025 - .040
.399	.169	.005 - .010	.403	.193	.016 - .025	.407	.225	.020 - .040	.414	.277	.035 - .045	.422	.189	.025 - .035	.428	.318	.010 - .020
.399	.200	.020 - .040	.403	.203	.005 - .010	.407	.237	.020 - .040	.414	.282	.020 - .030	.422	.282	.040 - .060	.429	.135	.005 - .010
.399	.223	.005 - .010	.403	.263	.030 - .050	.407	.253	.010 - .015	.414	.315	.010 - .020	.422	.335	.010 - .020	.429	.161	.020 - .040
.399	.226	.050 - .070	.404	.100	.005 - .010	.407	.257	.010 - .020	.415	.092	.040 - .060	.422	.375	.005 - .010	.429	.189	.010 - .020
.399	.260	.070 - .090	.404	.128	.005 - .010	.407	.261	.008 - .016	.415	.179	.040 - .070	.423	.129	.005 - .010	.429	.199	.005 - .010
.399	.284	.010 - .020	.404	.173	.060 - .080	.407	.262	.005 - .040	.415	.192	.070 - .090	.423	.153	.005 - .015	.429	.257	.010 - .020
.399	.290	.005 - .010	.404	.180	.060 - .080	.407	.265	.015 - .036	.415	.243	.008 - .020	.423	.226	.040 - .060	.429	.260	.015 - .060
.399	.362	.005 - .010	.404	.189	.025 - .040	.407	.320	.010 - .020	.415	.250	.042 - .080	.423	.250	.020 - .035	.430	.111	.005 - .010
.400	.066	.025 - .048	.404	.190	.025 - .040	.408	.083	.020 - .050	.415	.253	.005 - .010	.423	.254	.020 - .030	.430	.115	.010 - .020
.400	.091	.005 - .010	.404	.195	.010 - .020	.408	.134	.025 - .040	.415	.265	.050 - .070	.423	.269	.060 - .078	.430	.120	.005 - .012
.400	.119	.005 - .010	.404	.197	.005 - .010	.408	.166	.015 - .040	.415	.281	.050 - .072	.423	.270	.060 - .080	.430	.128	.032 - .042
.400	.124	.005 - .010	.404	.210	.030 - .050	.408	.172	.005 - .015	.415	.285	.015 - .025	.423	.271	.050 - .070	.430	.130	.030 - .050
.400	.131	.020 - .030	.404	.218	.005 - .010	.408	.173	.005 - .010	.415	.313	.010 - .020	.423	.278	.025 - .050	.430	.159	.020 - .040
.400	.139	.020 - .035	.404	.220	.025 - .040	.408	.194	.040 - .060	.415	.324	.025 - .035	.423	.314	.010 - .020	.430	.161	.010 - .020
.400	.142	.005 - .010	.404	.224	.005 - .010	.408	.202	.030 - .040	.416	.121	.005 - .010	.423	.319	.015 - .025	.430	.175	.015 - .030
.400	.147	.025 - .048	.404	.246	.005 - .010	.408	.240	.020 - .040	.416	.128	.040 - .060	.423	.328	.030 - .042	.430	.180	.020 - .040
.400	.151	.010 - .060	.404	.252	.005 - .010	.408	.261	.005 - .015	.416	.160	.005 - .010	.423	.345	.010 - .020	.430	.185	.020 - .040
.400	.153	.005 - .010	.404	.260	.015 - .025	.408	.297	.010 - .020	.416	.180	.020 - .030	.424	.139	.030 - .050	.430	.187	.005 - .010
.400	.160	.020 - .040	.404	.265	.015 - .030	.409	.129	.015 - .030	.416	.205	.062 - .080	.424	.169	.005 - .030	.430	.189	.030 - .050
.400	.168	.042 - .062	.404	.280	.060 - .080	.409	.167	.015 - .025	.416	.218	.010 - .020	.424	.190	.005 - .020	.430	.190	.020 - .040
.400	.172	.005 - .010	.404	.313	.005 - .012	.409	.172	.020 - .040	.416	.241	.008 - .020	.424	.196	.040 - .060	.430	.191	.020 - .080
.400	.173	.030 - .050	.404	.320	.005 - .020	.409	.194	.035 - .050	.416	.251	.025 - .040	.424	.230	.015 - .025	.430	.200	.070 - .090
.400	.182	.016 - .032	.405	.099	.005 - .010	.409	.210	.060 - .083	.416	.260	.025 - .040	.424	.319	.005 - .010	.430	.206	.080 - .100
.400	.192	.005 - .060	.405	.107	.005 - .010	.409	.244	.030 - .040	.417	.251	.048 - .062	.424	.325	.005 - .010	.430	.215	.032 - .042
.400	.198	.015 - .050	.405	.108	.030 - .050	.409	.313	.015 - .030	.417	.276	.005 - .010	.425	.138	.030 - .050	.430	.220	.015 - .035
.400	.200	.015 - .025	.405	.137	.005 - .010	.409	.322	.015 - .030	.417	.356	.010 - .020	.425	.147	.020 - .030	.430	.230	.005 - .010
.400	.202	.005 - .010	.405	.156	.040 - .060	.410	.063	.005 - .010	.418	.149	.050 - .070	.425	.165	.015 - .030	.430	.258	.020 - .040
.400	.203	.005 - .010	.405	.162	.015 - .025	.410	.102	.005 - .010	.418	.190	.025 - .050	.425	.191	.060 - .080	.430	.265	.005 - .080
.400	.206	.050 - .070	.405	.168	.005 - .010	.410	.186	.005 - .010	.418	.206	.010 - .015	.425	.194	.015 - .030	.430	.279	.005 - .010
.400	.210	.005 - .020	.405	.175	.040 - .060	.410	.188	.030 - .040	.418	.251	.030 - .040	.425	.197	.005 - .010	.430	.285	.020 - .030
.400	.216	.005 - .010	.405	.184	.005 - .010	.410	.201	.005 - .105	.418	.257	.025 - .040	.425	.212	.005 - .010	.430	.300	.010 - .020
.400	.225	.050 - .070	.405	.201	.005 - .010	.410	.210	.040 - .060	.418	.289	.020 - .030	.425	.250	.015 - .030	.430	.308	.010 - .020
.400	.240	.015 - .020	.405	.202	.020 - .072	.410	.220	.025 - .040	.418	.315	.035 - .050	.425	.256	.050 - .070	.430	.314	.030 - .050
.400	.250	.050 - .070	.405	.204	.050 - .060	.410	.223	.010 - .020	.419	.125	.050 - .072	.425	.261	.050 - .062	.430	.339	.005 - .010
.400	.252	.005 - .010	.405	.222	.050 - .070	.410	.254	.005 - .010	.419	.148	.062 - .090	.425	.284	.030 - .050	.430	.343	.015 - .030
.400	.253	.010 - .020	.405	.243	.010 - .015	.410	.256	.030 - .042	.419	.173	.080 - .104	.425	.317	.015 - .030	.430	.364	.005 - .010
.400	.254	.010 - .020	.405	.250	.020 - .030	.410	.261	.005 - .010	.419	.224	.040 - .060	.425	.318	.005 - .010	.430	.372	.005 - .020
.400	.255	.005 - .030	.405	.252	.030 - .050	.410	.300	.005 - .010	.419	.260	.010 - .020	.425	.319	.040 - .050	.430	.376	.005 - .010
.400	.260	.005 - .010	.405	.253	.025 - .040	.410	.306	.015 - .030	.419	.296	.020 - .040	.425	.326	.020 - .030	.430	.379	.015 - .020
.400	.268	.030 - .050	.405	.257	.005 - .040	.410	.314	.005 - .010	.419	.303	.005 - .010	.425	.336	.020 - .030	.431	.040	.005 - .010
.400	.273	.025 - .040	.405	.261	.010 - .020	.410	.317	.020 - .035	.419	.313	.020 - .040	.425	.343	.020 - .040	.431	.126	.035 - .050
.400	.282	.015 - .030	.405	.276	.025 - .048	.410	.358	.020 - .030	.419	.329	.005 - .025	.425	.344	.005 - .010	.431	.127	.025 - .040
.400	.286	.030 - .040	.405	.279	.050 - .060	.411	.091	.005 - .010	.419	.345	.005 - .010	.425	.345	.005 - .010	.431	.157	.025 - .040
.400	.288	.015 - .030	.405	.303	.015 - .025	.411	.095	.005 - .010	.420	.095	.005 - .010	.426	.140	.015 - .030	.431	.158	.005 - .010
.400	.314	.025 - .040	.406	.094	.005 - .010	.411	.127	.020 - .040	.420	.129	.020 - .030	.426	.187	.005 - .010	.431	.195	.005 - .010
.400	.347	.005 - .010	.406	.120	.032 - .048	.411	.225	.005 - .010	.420	.170	.015 - .030	.426	.215	.005 - .015	.431	.197	.020 - .030
.400	.360	.005 - .010	.406	.124	.020 - .040	.411	.258	.020 - .050	.420	.179	.005 - .010	.426	.216	.070 - .090	.431	.235	.005 - .012
.401	.102	.005 - .010	.406	.127	.025 - .040	.411	.292	.010 - .020	.420	.193	.005 - .010	.426	.219	.005 - .010	.431	.238	.030 - .060
.401	.121	.030 - .050	.406	.128	.015 - .030	.411	.310	.010 - .020	.420	.204	.030 - .050	.426	.225	.010 - .020	.431	.259	.005 - .030
.401	.125	.030 - .105	.406	.140	.025 - .042	.411	.314	.030 - .050	.420	.234	.005 - .010	.426	.234	.025 - .040	.431	.294	.015 - .025
.401	.128	.025 - .040	.406	.155	.050 - .075	.411	.315	.005 - .020	.420	.238	.020 - .030	.426	.256	.040 - .060	.432	.080	.005 - .010
.401	.130	.005 - .010	.406	.161	.050 - .075	.412	.136	.007 - .015	.420	.241	.005 - .010	.426	.257	.050 - .075	.432	.117	.030 - .050
.401	.165	.005 - .010	.406	.170	.010 - .025	.412	.161	.030 - .050	.420	.251	.030 - .040	.426	.270	.050 - .070	.432	.118	.015 - .030
.401	.169	.031 - .048	.406	.171	.048 - .072	.412	.190	.005 - .070	.420	.254	.006 - .012	.426	.272	.005 - .010	.432	.120	.015 - .030
.401	.171	.005 - .010	.406	.189	.012 - .020	.412	.196	.005 - .015	.420	.258	.005 - .010	.426	.314	.005 - .010	.432	.122	.030 - .050
.401	.202	.020 - .060	.406	.190	.005 - .010	.412	.211	.005 - .010	.420	.279	.005 - .016	.426	.320	.010 - .020	.432	.125	.032 - .062
.401	.219	.020 - .040	.406	.201	.050 - .070	.412	.218	.010 - .020	.420	.280	.010 - .025	.426	.345	.010 - .020	.432	.130	.010 - .020
.401	.221	.060 - .075	.406	.203	.005 - .010	.412	.222	.010 - .020	.420	.311	.005 - .010	.426	.354	.015 - .025	.432	.133	.050 - .090
.401	.237	.035 - .050	.406	.204	.030 - .050	.412	.231	.060 - .080	.420	.314	.030 - .050	.427	.107	.010 - .020	.432	.135	.040 - .060
.401	.241	.030 - .050	.406	.209	.030 - .050	.412	.236	.005 - .010	.420	.319	.005 - .010	.427	.134	.030 - .050	.432	.187	.005 - .010
.401	.251	.025 - .040	.406	.218	.025 - .040	.412	.241	.005 - .010	.421	.058	.005 - .010	.427	.213	.030 - .050	.432	.199	.005 - .010

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

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
.432	.260	.080 - .100	.435	.250	.015 - .030	.437	.257	.008 - .016	.439	.141	.010 - .020	.442	.317	.040 - .060	.450	.062	.030 - .050
.432	.263	.015 - .025	.435	.252	.015 - .030	.437	.258	.025 - .070	.439	.165	.025 - .040	.443	.190	.025 - .040	.450	.065	.006 - .015
.432	.297	.005 - .010	.435	.254	.005 - .008	.437	.259	.050 - .070	.439	.173	.030 - .050	.443	.191	.025 - .040	.450	.089	.030 - .050
.432	.313	.020 - .048	.435	.257	.025 - .040	.437	.260	.010 - .025	.439	.174	.005 - .050	.443	.223	.005 - .010	.450	.114	.015 - .030
.432	.315	.005 - .010	.435	.261	.025 - .045	.437	.261	.005 - .010	.439	.185	.090 - .105	.443	.224	.040 - .060	.450	.120	.010 - .015
.432	.316	.040 - .060	.435	.267	.010 - .020	.437	.262	.030 - .042	.439	.189	.010 - .075	.443	.278	.020 - .040	.450	.138	.005 - .015
.432	.317	.005 - .010	.435	.268	.010 - .020	.437	.265	.005 - .012	.439	.190	.060 - .080	.443	.295	.016 - .025	.450	.143	.005 - .010
.432	.319	.030 - .050	.435	.284	.040 - .072	.437	.275	.020 - .040	.439	.192	.005 - .010	.443	.336	.040 - .060	.450	.162	.050 - .075
.432	.356	.015 - .025	.435	.290	.025 - .050	.437	.281	.042 - .062	.439	.203	.040 - .090	.444	.165	.005 - .010	.450	.174	.025 - .040
.432	.364	.005 - .010	.435	.296	.005 - .010	.437	.284	.015 - .030	.439	.207	.040 - .060	.444	.174	.030 - .050	.450	.182	.005 - .010
.433	.042	.031 - .048	.435	.305	.005 - .010	.437	.287	.010 - .020	.439	.251	.060 - .080	.444	.196	.015 - .030	.450	.185	.040 - .050
.433	.052	.015 - .030	.435	.321	.030 - .050	.437	.302	.005 - .012	.439	.252	.060 - .080	.444	.220	.030 - .050	.450	.192	.005 - .010
.433	.054	.015 - .030	.435	.327	.030 - .050	.437	.312	.005 - .010	.439	.253	.010 - .025	.444	.318	.030 - .050	.450	.200	.015 - .080
.433	.089	.020 - .040	.435	.380	.010 - .020	.437	.316	.010 - .015	.439	.260	.025 - .040	.444	.342	.010 - .020	.450	.201	.005 - .010
.433	.157	.030 - .050	.436	.187	.005 - .010	.437	.321	.020 - .040	.439	.264	.060 - .075	.444	.347	.020 - .040	.450	.216	.005 - .010
.433	.178	.105 - .125	.436	.188	.070 - .090	.437	.325	.005 - .010	.439	.276	.005 - .010	.444	.349	.005 - .010	.450	.223	.015 - .025
.433	.202	.015 - .030	.436	.226	.010 - .025	.437	.328	.020 - .030	.439	.313	.040 - .060	.444	.381	.015 - .030	.450	.237	.030 - .050
.433	.203	.005 - .030	.436	.241	.025 - .035	.437	.329	.040 - .060	.439	.315	.005 - .010	.445	.095	.030 - .050	.450	.240	.005 - .010
.433	.220	.005 - .010	.436	.251	.080 - .100	.437	.343	.005 - .060	.439	.317	.040 - .060	.445	.116	.050 - .070	.450	.247	.005 - .010
.433	.224	.005 - .010	.436	.253	.030 - .050	.437	.365	.005 - .010	.440	.024	.005 - .010	.445	.136	.010 - .020	.450	.251	.020 - .100
.433	.237	.030 - .050	.436	.254	.010 - .020	.437	.376	.005 - .025	.440	.052	.025 - .040	.445	.142	.040 - .050	.450	.252	.005 - .020
.433	.238	.005 - .010	.436	.256	.005 - .010	.437	.380	.005 - .010	.440	.090	.035 - .050	.445	.206	.035 - .050	.450	.254	.025 - .040
.433	.239	.005 - .010	.436	.263	.005 - .010	.438	.048	.005 - .010	.440	.105	.005 - .010	.445	.212	.005 - .010	.450	.256	.010 - .020
.433	.243	.020 - .050	.436	.279	.010 - .025	.438	.058	.020 - .035	.440	.127	.010 - .020	.445	.219	.050 - .070	.450	.259	.015 - .030
.433	.251	.010 - .030	.436	.282	.025 - .075	.438	.087	.005 - .010	.440	.129	.030 - .050	.445	.252	.015 - .025	.450	.260	.025 - .040
.433	.253	.008 - .070	.436	.283	.010 - .020	.438	.093	.005 - .010	.440	.140	.025 - .040	.445	.265	.040 - .060	.450	.264	.050 - .070
.433	.276	.020 - .040	.436	.287	.005 - .015	.438	.094	.025 - .040	.440	.158	.030 - .050	.445	.325	.010 - .020	.450	.280	.050 - .075
.433	.278	.005 - .010	.436	.314	.005 - .010	.438	.119	.015 - .030	.440	.168	.040 - .060	.445	.331	.030 - .050	.450	.284	.020 - .040
.433	.281	.010 - .020	.436	.316	.010 - .042	.438	.125	.025 - .042	.440	.170	.025 - .050	.445	.348	.020 - .040	.450	.290	.080 - .100
.433	.315	.005 - .030	.436	.318	.005 - .010	.438	.129	.015 - .030	.440	.173	.005 - .010	.445	.383	.005 - .040	.450	.292	.015 - .025
.433	.317	.005 - .010	.436	.334	.015 - .030	.438	.136	.010 - .015	.440	.190	.100 - .125	.445	.385	.005 - .020	.450	.295	.015 - .030
.433	.321	.035 - .050	.436	.375	.015 - .030	.438	.138	.005 - .010	.440	.195	.035 - .050	.445	.390	.010 - .015	.450	.316	.005 - .030
.433	.330	.005 - .010	.436	.378	.005 - .010	.438	.147	.030 - .050	.440	.202	.070 - .090	.445	.399	.005 - .010	.450	.317	.005 - .025
.433	.347	.015 - .030	.436	.397	.005 - .010	.438	.162	.030 - .060	.440	.210	.010 - .020	.446	.049	.010 - .020	.450	.320	.005 - .060
.433	.348	.030 - .040	.437	.039	.005 - .010	.438	.169	.005 - .010	.440	.211	.005 - .010	.446	.151	.062 - .090	.450	.350	.015 - .025
.433	.351	.015 - .030	.437	.096	.015 - .025	.438	.193	.050 - .070	.440	.217	.070 - .090	.446	.162	.005 - .010	.450	.368	.010 - .020
.434	.043	.005 - .010	.437	.120	.040 - .060	.438	.195	.030 - .040	.440	.218	.005 - .020	.446	.171	.040 - .060	.450	.370	.015 - .030
.434	.079	.030 - .050	.437	.125	.005 - .015	.438	.196	.005 - .020	.440	.228	.015 - .040	.446	.197	.010 - .020	.450	.375	.025 - .042
.434	.094	.040 - .060	.437	.126	.025 - .050	.438	.198	.025 - .035	.440	.237	.050 - .075	.446	.208	.050 - .070	.451	.146	.020 - .030
.434	.103	.040 - .060	.437	.127	.015 - .060	.438	.200	.005 - .090	.440	.245	.005 - .010	.446	.256	.005 - .010	.451	.188	.020 - .030
.434	.160	.090 - .125	.437	.128	.030 - .050	.438	.201	.025 - .050	.440	.250	.005 - .010	.446	.270	.005 - .040	.451	.241	.025 - .040
.434	.176	.020 - .040	.437	.129	.010 - .042	.438	.202	.020 - .050	.440	.252	.010 - .025	.446	.307	.030 - .050	.451	.267	.030 - .050
.434	.187	.005 - .010	.437	.130	.025 - .042	.438	.203	.075 - .090	.440	.253	.005 - .010	.446	.319	.032 - .060	.451	.274	.005 - .010
.434	.196	.005 - .010	.437	.133	.050 - .062	.438	.205	.070 - .090	.440	.260	.010 - .070	.446	.325	.032 - .060	.451	.315	.040 - .062
.434	.198	.005 - .010	.437	.141	.048 - .072	.438	.206	.020 - .030	.440	.265	.005 - .010	.447	.127	.020 - .040	.451	.317	.005 - .010
.434	.224	.005 - .010	.437	.142	.040 - .060	.438	.207	.005 - .010	.440	.275	.020 - .045	.447	.146	.020 - .040	.451	.334	.020 - .030
.434	.236	.032 - .062	.437	.143	.040 - .060	.438	.210	.042 - .060	.440	.283	.040 - .062	.447	.194	.030 - .050	.451	.344	.030 - .050
.434	.244	.040 - .050	.437	.144	.025 - .035	.438	.216	.005 - .100	.440	.291	.020 - .040	.447	.202	.025 - .040	.451	.353	.010 - .020
.434	.253	.005 - .010	.437	.147	.020 - .040	.438	.232	.035 - .050	.440	.304	.030 - .050	.447	.223	.025 - .050	.451	.378	.020 - .030
.434	.255	.005 - .010	.437	.150	.010 - .020	.438	.236	.005 - .010	.440	.314	.040 - .060	.447	.230	.025 - .040	.451	.395	.005 - .010
.434	.271	.050 - .070	.437	.157	.015 - .030	.438	.247	.005 - .010	.440	.316	.020 - .050	.447	.236	.005 - .010	.452	.036	.010 - .020
.434	.282	.005 - .010	.437	.158	.005 - .010	.438	.249	.050 - .075	.440	.328	.040 - .060	.447	.250	.020 - .040	.452	.102	.015 - .030
.434	.286	.020 - .030	.437	.166	.010 - .050	.438	.255	.005 - .030	.440	.355	.015 - .025	.447	.254	.010 - .020	.452	.250	.040 - .060
.434	.315	.005 - .010	.437	.169	.008 - .016	.438	.256	.025 - .050	.440	.381	.010 - .020	.447	.270	.020 - .030	.452	.257	.010 - .020
.434	.316	.015 - .040	.437	.171	.030 - .050	.438	.257	.030 - .050	.440	.390	.005 - .010	.447	.313	.015 - .025	.452	.284	.005 - .010
.434	.318	.005 - .010	.437	.183	.050 - .062	.438	.258	.005 - .010	.441	.042	.010 - .020	.447	.337	.005 - .010	.452	.328	.040 - .060
.434	.320	.005 - .010	.437	.191	.010 - .104	.438	.259	.005 - .010	.441	.093	.005 - .020	.447	.375	.020 - .036	.452	.339	.010 - .020
.434	.330	.030 - .050	.437	.192	.050 - .075	.438	.262	.030 - .050	.441	.143	.005 - .020	.447	.380	.015 - .030	.453	.236	.030 - .050
.434	.350	.025 - .035	.437	.194	.020 - .104	.438	.265	.030 - .060	.441	.151	.030 - .050	.448	.094	.005 - .010	.453	.243	.020 - .030
.435	.064	.035 - .062	.437	.197	.040 - .125	.438	.266	.015 - .030	.441	.168	.030 - .050	.448	.139	.030 - .040	.453	.275	.010 - .020
.435	.067	.020 - .040	.437	.198	.005 - .010	.438	.274	.015 - .030	.441	.172	.062 - .083	.448	.181	.006 - .012	.453	.300	.030 - .050
.435	.077	.005 - .010	.437	.199	.015 - .032	.438	.276	.030 - .050	.441	.190	.005 - .010	.448	.189	.005 - .010	.453	.330	.031 - .048
.435	.080	.012 - .025	.437	.204	.020 - .030	.438	.281	.060 - .080	.441	.198	.005 - .030	.448	.191	.030 - .048	.453	.354	.040 - .060
.435	.082	.030 - .050	.437	.205	.020 - .035	.438	.282	.005 - .075	.441	.224	.050 - .075	.448	.203	.015 - .030	.453	.378	.031 - .042
.435	.112	.007 - .012	.437	.215	.020 - .040	.438	.284	.050 - .075	.441	.242	.020 - .030	.448	.205	.030 - .060	.453	.398	.010 - .020
.435	.136	.090 - .105	.437	.217	.060 - .080	.438	.297	.015 - .025	.441	.254	.020 - .040	.448	.215	.020 - .040	.454	.107	.005 - .010
.435	.149	.060 - .083	.437	.218	.015 - .062	.438	.313	.030 - .060	.441	.255	.005 - .010	.448	.223	.025 - .040	.454	.136	.030 - .050
.435	.160	.010 - .020	.437	.219	.008 - .016	.438	.315	.010 - .020	.441	.257	.020 - .048	.448	.245	.005 - .020	.454	.193	.070 - .090
.435	.166	.090 - .105	.437	.220	.040 - .060	.438	.316	.005 - .010	.441	.258	.030 - .050	.448	.248	.010 - .020	.454	.228	.005 - .010
.435	.174	.025 - .040	.437	.222	.005 - .010	.438	.322	.010 - .020	.441	.266	.042 - .072	.448	.251	.032 - .060	.454	.320	.025 - .040
.435	.178	.105 - .125	.437	.225	.032 - .062	.438	.323	.025 - .040	.441	.270	.025 - .040	.448	.271	.030 - .050	.454	.356	.020 - .030
.435	.182	.060 - .083	.437	.228	.050 - .070	.438	.325	.005 - .010	.441	.273	.005 - .010	.448	.312	.005 - .010	.454	.390	.005 - .010
.435	.190	.070 - .090	.437	.232	.030 - .042	.438	.328	.010 - .020	.441	.316	.040 - .060	.448	.323	.010 - .020	.454	.421	.005 - .010
.435	.191	.005 - .010	.437	.238	.006 - .016	.438	.335	.005 - .010	.441	.319	.005 - .010	.448	.331	.010 - .020	.455	.080	.005 - .010
.435	.198	.005 - .072	.437	.245	.020 - .040	.438	.337	.025 - .040	.441	.320	.005 - .008	.448	.367	.035 - .050	.455	.145	.005 - .010
.435	.200	.050 - .075	.437	.251	.010 - .015	.438	.339	.025 - .040	.442	.154	.030 - .040	.448	.368	.030 - .040	.455	.186	.025 - .040
.435	.203	.005 - .008	.437	.252	.010 - .020	.438	.365	.005 - .015	.442	.195	.005 - .010	.448	.377	.005 - .010	.455	.187	.025 - .035
.435	.214	.040 - .062	.437	.253	.035 - .050	.438	.381	.020 - .030	.442	.254	.020 - .040	.449	.259	.005 - .010	.455	.195	.015 - .030
.435	.223	.025 - .050	.437	.254	.005 - .050	.438	.384	.015 - .030	.442	.260	.010 - .020	.449	.351	.005 - .010	.455	.235	.020 - .030
.435	.237	.015 - .030	.437	.255	.010 - .020	.439	.118	.030 - .050	.442	.286	.005 - .010	.449	.412	.005 - .010	.455	.257	.020 - .032

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Need Disks? All O.D. sizes available with no I.D. — (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
.455	.261	.007 - .016
.455	.265	.015 - .030
.455	.266	.040 - .060
.455	.302	.015 - .030
.455	.353	.010 - .020
.455	.383	.025 - .040
.456	.074	.005 - .010
.456	.153	.025 - .040
.456	.158	.020 - .040
.456	.189	.030 - .040
.456	.190	.025 - .062
.456	.194	.040 - .062
.456	.221	.005 - .010
.456	.235	.005 - .010
.456	.257	.020 - .030
.456	.261	.005 - .010
.456	.356	.010 - .020
.456	.360	.010 - .020
.456	.378	.005 - .010
.456	.390	.010 - .020
.457	.252	.050 - .075
.457	.254	.005 - .010
.457	.255	.030 - .050
.457	.311	.030 - .040
.457	.313	.050 - .060
.457	.363	.005 - .010
.457	.407	.015 - .025
.458	.172	.062 - .090
.458	.250	.040 - .062
.459	.172	.050 - .075
.459	.173	.005 - .050
.459	.194	.040 - .050
.459	.290	.060 - .080
.459	.312	.040 - .060
.459	.337	.040 - .060
.459	.347	.020 - .030
.459	.350	.020 - .030
.460	.040	.010 - .020
.460	.143	.020 - .040
.460	.159	.005 - .010
.460	.194	.005 - .010
.460	.244	.020 - .040
.460	.279	.005 - .010
.460	.301	.005 - .010
.460	.306	.005 - .010
.460	.313	.020 - .030
.460	.319	.020 - .040
.460	.378	.030 - .042
.460	.380	.005 - .015
.461	.091	.005 - .010
.461	.215	.045 - .060
.461	.334	.005 - .010
.461	.355	.015 - .025
.462	.062	.030 - .050
.462	.090	.025 - .042
.462	.100	.060 - .080
.462	.158	.040 - .060
.462	.165	.005 - .010
.462	.203	.010 - .030
.462	.288	.005 - .010
.462	.318	.070 - .080
.462	.324	.005 - .010
.462	.336	.050 - .060
.462	.377	.015 - .025
.463	.073	.015 - .030
.463	.166	.015 - .030
.463	.188	.060 - .080
.463	.189	.025 - .040
.463	.222	.025 - .040
.463	.224	.010 - .020
.463	.245	.030 - .060
.463	.258	.050 - .075
.463	.263	.060 - .075
.463	.267	.030 - .050
.463	.270	.005 - .010
.463	.288	.005 - .010
.463	.313	.005 - .010
.463	.320	.040 - .050
.463	.321	.030 - .050
.463	.322	.015 - .030
.463	.333	.030 - .050
.463	.391	.020 - .030
.464	.129	.005 - .010
.464	.141	.050 - .070
.464	.159	.060 - .080
.464	.160	.015 - .030
.464	.190	.030 - .050
.464	.210	.020 - .036
.464	.218	.005 - .010
.464	.237	.015 - .030
.464	.244	.005 - .020
.464	.252	.005 - .010
.464	.265	.010 - .020
.464	.318	.015 - .025
.464	.320	.040 - .060
.464	.367	.010 - .020
.464	.393	.005 - .010
.465	.062	.030 - .050
.465	.117	.040 - .060
.465	.134	.030 - .040
.465	.171	.025 - .040
.465	.188	.060 - .070
.465	.210	.040 - .060
.465	.211	.100 - .120
.465	.217	.005 - .010
.465	.221	.005 - .010
.465	.222	.060 - .070
.465	.229	.005 - .010
.465	.252	.006 - .015
.465	.261	.005 - .010
.465	.283	.075 - .090
.465	.285	.080 - .090
.465	.314	.015 - .025
.465	.345	.005 - .010
.465	.402	.005 - .020
.466	.125	.015 - .030
.466	.127	.020 - .040
.466	.189	.020 - .040
.466	.191	.020 - .045
.466	.198	.040 - .060
.466	.205	.020 - .030
.466	.210	.020 - .035
.466	.218	.050 - .070
.466	.251	.025 - .040
.466	.259	.080 - .100
.466	.264	.005 - .010
.466	.290	.020 - .030
.466	.293	.005 - .010
.466	.319	.010 - .020
.466	.321	.005 - .010
.466	.344	.015 - .030
.466	.380	.005 - .010
.467	.103	.010 - .020
.467	.189	.075 - .105
.467	.201	.015 - .030
.467	.204	.005 - .010
.467	.213	.015 - .030
.467	.218	.015 - .020
.467	.245	.025 - .040
.467	.251	.050 - .072
.467	.260	.030 - .050
.467	.294	.020 - .030
.467	.323	.005 - .015
.467	.380	.005 - .010
.467	.382	.005 - .010
.467	.420	.005 - .010
.468	.084	.010 - .025
.468	.128	.005 - .015
.468	.150	.030 - .050
.468	.222	.040 - .060
.468	.254	.010 - .015
.468	.257	.005 - .010
.468	.258	.020 - .040
.468	.259	.010 - .090
.468	.261	.005 - .015
.468	.287	.005 - .010
.468	.312	.050 - .070
.468	.320	.005 - .010
.468	.321	.005 - .072
.468	.390	.015 - .030
.468	.400	.020 - .040
.468	.405	.005 - .010
.469	.100	.020 - .040
.469	.149	.080 - .104
.469	.184	.005 - .010
.469	.192	.005 - .030
.469	.206	.075 - .100
.469	.228	.010 - .020
.469	.254	.030 - .050
.469	.263	.030 - .050
.469	.269	.015 - .025
.469	.281	.005 - .020
.469	.320	.004 - .008
.469	.321	.005 - .010
.469	.322	.010 - .020
.469	.325	.020 - .035
.469	.343	.005 - .010
.469	.349	.010 - .020
.469	.379	.020 - .030
.469	.384	.010 - .020
.470	.042	.015 - .025
.470	.044	.020 - .030
.470	.057	.005 - .010
.470	.094	.005 - .015
.470	.116	.035 - .050
.470	.118	.025 - .042
.470	.119	.010 - .025
.470	.138	.015 - .025
.470	.143	.012 - .050
.470	.149	.005 - .010
.470	.150	.060 - .090
.470	.158	.050 - .070
.470	.159	.050 - .070
.470	.176	.060 - .080
.470	.187	.110 - .130
.470	.200	.005 - .010
.470	.210	.035 - .050
.470	.218	.010 - .040
.470	.225	.030 - .050
.470	.228	.010 - .020
.470	.239	.005 - .010
.470	.255	.047 - .085
.470	.265	.032 - .048
.470	.271	.010 - .020
.470	.276	.050 - .075
.470	.279	.005 - .010
.470	.280	.010 - .020
.470	.290	.015 - .030
.470	.312	.020 - .030
.470	.316	.005 - .010
.470	.317	.005 - .010
.470	.319	.015 - .030
.470	.324	.020 - .040
.470	.330	.020 - .030
.470	.338	.005 - .010
.470	.340	.005 - .012
.470	.341	.050 - .075
.470	.346	.010 - .020
.470	.350	.006 - .015
.470	.360	.005 - .010
.470	.369	.005 - .010
.470	.373	.020 - .035
.470	.380	.030 - .040
.470	.384	.015 - .025
.470	.418	.005 - .010
.471	.126	.040 - .050
.471	.130	.030 - .080
.471	.149	.005 - .010
.471	.165	.005 - .010
.471	.170	.020 - .030
.471	.174	.005 - .010
.471	.197	.030 - .040
.471	.203	.115 - .135
.471	.205	.100 - .125
.471	.206	.005 - .010
.471	.218	.005 - .010
.471	.222	.020 - .030
.471	.223	.040 - .050
.471	.224	.020 - .040
.471	.254	.005 - .010
.471	.256	.035 - .050
.471	.259	.005 - .010
.471	.260	.020 - .070
.471	.261	.040 - .060
.471	.278	.005 - .010
.471	.279	.005 - .010
.471	.284	.005 - .010
.471	.317	.005 - .015
.471	.320	.030 - .050
.471	.381	.005 - .012
.471	.396	.015 - .025
.475	.147	.020 - .040
.475	.175	.020 - .030
.475	.192	.060 - .080
.475	.196	.005 - .010
.475	.227	.020 - .030
.475	.259	.010 - .030
.475	.279	.005 - .010
.475	.286	.005 - .010
.475	.306	.005 - .010
.475	.334	.040 - .060
.475	.347	.020 - .040
.475	.360	.005 - .010
.475	.368	.015 - .040
.475	.378	.005 - .010
.475	.380	.010 - .020
.475	.397	.020 - .030
.475	.400	.020 - .040
.475	.411	.010 - .020
.475	.424	.015 - .040
.476	.144	.032 - .060
.476	.163	.015 - .030
.476	.169	.070 - .080
.476	.181	.030 - .040
.476	.190	.015 - .030
.476	.210	.105 - .125
.476	.240	.010 - .025
.476	.289	.010 - .030
.476	.314	.010 - .020
.476	.324	.025 - .040
.476	.376	.010 - .020
.476	.404	.005 - .010
.477	.132	.030 - .040
.477	.140	.005 - .010
.477	.168	.005 - .010
.477	.178	.005 - .010
.477	.201	.020 - .030
.477	.266	.005 - .010
.477	.302	.025 - .040
.477	.390	.010 - .020
.478	.170	.010 - .020
.478	.222	.025 - .040
.478	.253	.005 - .010
.478	.254	.015 - .030
.478	.255	.090 - .105
.478	.311	.005 - .010
.478	.315	.050 - .070
.478	.316	.025 - .040
.478	.322	.005 - .010
.478	.325	.050 - .070
.478	.343	.005 - .010
.478	.375	.050 - .062
.479	.127	.005 - .010
.479	.160	.050 - .075
.479	.178	.005 - .010
.479	.210	.025 - .036
.479	.219	.020 - .040
.479	.294	.005 - .010
.479	.377	.015 - .030
.479	.380	.005 - .008
.479	.385	.005 - .010
.479	.412	.005 - .010
.479	.424	.020 - .025
.480	.062	.020 - .040
.480	.127	.005 - .010
.480	.159	.005 - .010
.480	.166	.030 - .050
.480	.170	.005 - .010
.480	.192	.005 - .010
.480	.196	.040 - .060
.480	.201	.015 - .030
.480	.215	.030 - .050
.480	.222	.005 - .010
.480	.237	.040 - .060
.480	.250	.005 - .010
.480	.251	.030 - .050
.480	.256	.070 - .090
.480	.260	.015 - .030
.480	.276	.010 - .020
.480	.310	.040 - .060
.480	.325	.010 - .020
.480	.330	.020 - .040
.480	.350	.020 - .040
.480	.354	.005 - .010
.480	.360	.015 - .030
.480	.368	.015 - .025
.480	.370	.015 - .030
.480	.371	.020 - .030
.480	.380	.005 - .010
.480	.391	.005 - .010
.480	.417	.005 - .010
.481	.089	.005 - .010
.481	.126	.020 - .040
.481	.161	.005 - .010
.481	.188	.020 - .030
.481	.245	.015 - .030
.481	.247	.025 - .040
.481	.256	.005 - .010
.481	.318	.005 - .010
.481	.336	.005 - .010
.481	.361	.040 - .060
.481	.383	.010 - .020
.481	.387	.010 - .020
.481	.390	.050 - .060
.481	.402	.005 - .010
.482	.173	.030 - .050
.482	.190	.020 - .040
.482	.315	.020 - .040
.482	.329	.050 - .075
.482	.332	.020 - .040
.482	.334	.005 - .010
.482	.359	.010 - .040
.482	.396	.005 - .010
.483	.033	.010 - .020
.483	.077	.020 - .040
.483	.149	.005 - .060
.483	.152	.015 - .060
.483	.202	.042 - .062
.483	.247	.005 - .010
.483	.360	.030 - .040
.483	.375	.025 - .040
.483	.379	.030 - .040
.484	.119	.020 - .040
.484	.143	.016 - .025
.484	.230	.005 - .010
.484	.257	.050 - .075
.484	.285	.060 - .080
.484	.313	.050 - .072
.484	.350	.010 - .020
.484	.370	.005 - .010
.484	.379	.040 - .060
.484	.398	.040 - .060
.484	.432	.005 - .010
.485	.115	.015 - .030
.485	.120	.010 - .080
.485	.162	.020 - .040
.485	.170	.040 - .060
.485	.200	.005 - .010
.485	.250	.015 - .030
.485	.257	.005 - .010
.485	.258	.005 - .010
.485	.260	.015 - .025
.485	.270	.005 - .010
.485	.281	.005 - .010
.485	.312	.030 - .050
.485	.313	.010 - .020
.485	.317	.005 - .010
.485	.319	.010 - .020
.485	.320	.010 - .040
.485	.328	.032 - .050
.485	.336	.010 - .020
.485	.347	.020 - .030
.485	.350	.020 - .030
.485	.354	.010 - .020
.485	.376	.015 - .025
.485	.385	.015 - .030
.485	.386	.015 - .025
.485	.402	.030 - .050
.485	.411	.020 - .040
.485	.412	.020 - .040
.485	.431	.005 - .010
.486	.062	.030 - .050
.486	.128	.015 - .030
.486	.220	.025 - .040
.486	.224	.040 - .060
.486	.230	.030 - .050
.486	.260	.010 - .020

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

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

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

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
.486	.315	.015 - .030	.491	.252	.100 - .134	.494	.399	.025 - .040	.497	.088	.020 - .030	.499	.125	.005 - .010	.500	.168	.025 - .075
.486	.327	.005 - .050	.491	.253	.005 - .075	.494	.420	.008 - .015	.497	.098	.030 - .050	.499	.138	.005 - .010	.500	.170	.025 - .050
.486	.355	.005 - .010	.491	.254	.050 - .075	.495	.034	.015 - .025	.497	.137	.030 - .048	.499	.142	.030 - .050	.500	.172	.006 - .050
.486	.404	.010 - .020	.491	.256	.040 - .060	.495	.040	.005 - .010	.497	.138	.030 - .048	.499	.170	.020 - .030	.500	.173	.005 - .010
.487	.042	.025 - .042	.491	.265	.090 - .105	.495	.063	.020 - .035	.497	.166	.010 - .020	.499	.175	.050 - .072	.500	.176	.050 - .070
.487	.071	.010 - .020	.491	.266	.010 - .030	.495	.073	.040 - .062	.497	.191	.060 - .080	.499	.189	.010 - .020	.500	.177	.060 - .075
.487	.120	.005 - .010	.491	.267	.005 - .010	.495	.136	.030 - .050	.497	.193	.025 - .040	.499	.190	.020 - .030	.500	.180	.025 - .040
.487	.225	.010 - .032	.491	.268	.005 - .010	.495	.143	.100 - .125	.497	.196	.005 - .010	.499	.192	.005 - .030	.500	.182	.060 - .090
.487	.233	.040 - .060	.491	.317	.010 - .020	.495	.158	.030 - .060	.497	.215	.005 - .010	.499	.193	.005 - .075	.500	.187	.020 - .125
.487	.256	.025 - .040	.491	.320	.010 - .020	.495	.162	.048 - .075	.497	.220	.020 - .070	.499	.194	.005 - .010	.500	.188	.030 - .050
.487	.257	.010 - .020	.491	.338	.030 - .050	.495	.170	.005 - .010	.497	.250	.015 - .030	.499	.201	.050 - .075	.500	.189	.005 - .125
.487	.270	.090 - .110	.491	.385	.015 - .030	.495	.184	.070 - .090	.497	.252	.005 - .025	.499	.203	.080 - .100	.500	.190	.090 - .104
.487	.272	.005 - .010	.491	.393	.005 - .010	.495	.190	.010 - .020	.497	.253	.005 - .010	.499	.215	.010 - .020	.500	.191	.005 - .010
.487	.286	.015 - .030	.492	.124	.110 - .130	.495	.191	.020 - .030	.497	.254	.015 - .060	.499	.229	.005 - .010	.500	.194	.062 - .090
.487	.321	.040 - .060	.492	.193	.030 - .050	.495	.195	.005 - .010	.497	.259	.010 - .040	.499	.239	.030 - .040	.500	.195	.005 - .010
.487	.327	.030 - .040	.492	.201	.040 - .050	.495	.200	.030 - .050	.497	.280	.015 - .030	.499	.240	.048 - .070	.500	.196	.010 - .125
.487	.336	.025 - .040	.492	.204	.105 - .125	.495	.203	.050 - .070	.497	.287	.005 - .015	.499	.243	.005 - .010	.500	.197	.005 - .135
.487	.337	.020 - .040	.492	.250	.020 - .040	.495	.210	.025 - .040	.497	.315	.005 - .012	.499	.246	.005 - .010	.500	.199	.035 - .050
.487	.355	.005 - .020	.492	.254	.030 - .060	.495	.215	.010 - .020	.497	.316	.035 - .050	.499	.254	.035 - .060	.500	.200	.040 - .075
.487	.364	.005 - .010	.492	.255	.030 - .050	.495	.223	.050 - .070	.497	.318	.015 - .030	.499	.257	.005 - .010	.500	.201	.010 - .020
.487	.399	.005 - .010	.492	.256	.010 - .020	.495	.225	.075 - .090	.497	.319	.015 - .030	.499	.258	.015 - .030	.500	.202	.060 - .125
.487	.402	.005 - .010	.492	.260	.070 - .090	.495	.236	.010 - .020	.497	.324	.005 - .010	.499	.259	.030 - .050	.500	.203	.012 - .020
.488	.031	.005 - .010	.492	.276	.005 - .010	.495	.252	.040 - .060	.497	.337	.005 - .010	.499	.264	.010 - .020	.500	.204	.015 - .075
.488	.054	.025 - .040	.492	.281	.030 - .050	.495	.268	.080 - .100	.497	.344	.062 - .075	.499	.265	.025 - .040	.500	.205	.005 - .050
.488	.096	.060 - .090	.492	.290	.020 - .030	.495	.282	.042 - .072	.497	.347	.005 - .030	.499	.281	.080 - .100	.500	.209	.050 - .070
.488	.118	.080 - .104	.492	.323	.005 - .010	.495	.285	.015 - .040	.497	.406	.005 - .010	.499	.313	.005 - .010	.500	.210	.010 - .025
.488	.137	.005 - .010	.492	.328	.012 - .020	.495	.286	.015 - .040	.497	.410	.020 - .030	.499	.318	.050 - .070	.500	.217	.040 - .060
.488	.193	.050 - .070	.492	.377	.030 - .050	.495	.298	.025 - .045	.497	.437	.005 - .010	.499	.323	.010 - .060	.500	.218	.005 - .090
.488	.281	.032 - .062	.492	.379	.005 - .010	.495	.310	.010 - .030	.497	.442	.005 - .030	.499	.326	.030 - .050	.500	.220	.062 - .105
.488	.315	.005 - .010	.492	.380	.005 - .010	.495	.312	.005 - .010	.498	.063	.050 - .062	.499	.329	.005 - .010	.500	.221	.020 - .125
.488	.365	.010 - .020	.492	.393	.020 - .042	.495	.315	.040 - .060	.498	.078	.040 - .060	.499	.373	.005 - .010	.500	.222	.010 - .020
.488	.400	.005 - .010	.493	.125	.015 - .030	.495	.322	.020 - .040	.498	.082	.042 - .062	.499	.377	.050 - .060	.500	.226	.025 - .040
.489	.180	.030 - .050	.493	.131	.020 - .040	.495	.325	.020 - .030	.498	.096	.030 - .050	.499	.381	.005 - .060	.500	.230	.032 - .048
.489	.189	.025 - .040	.493	.145	.070 - .090	.495	.327	.080 - .100	.498	.122	.020 - .040	.499	.394	.005 - .010	.500	.231	.005 - .010
.489	.192	.020 - .030	.493	.181	.005 - .010	.495	.329	.010 - .020	.498	.126	.010 - .015	.499	.409	.025 - .042	.500	.233	.100 - .125
.489	.205	.030 - .060	.493	.193	.075 - .090	.495	.329	.015 - .030	.498	.130	.005 - .010	**.500**			.500	.234	.100 - .120
.489	.206	.040 - .060	.493	.198	.005 - .010	.495	.337	.060 - .080	.498	.134	.010 - .020				.500	.235	.005 - .010
.489	.230	.005 - .010	.493	.207	.005 - .010	.495	.347	.035 - .050	.498	.148	.060 - .080				.500	.237	.008 - .125
.489	.296	.010 - .020	.493	.244	.050 - .070	.495	.361	.050 - .065	.498	.173	.020 - .040				.500	.238	.105 - .125
.489	.303	.010 - .020	.493	.282	.050 - .075	.495	.363	.040 - .060	.498	.175	.100 - .125				.500	.245	.020 - .030
.489	.304	.020 - .040	.493	.284	.030 - .050	.495	.381	.010 - .020	.498	.184	.005 - .010	.500	.035	.005 - .008	.500	.250	.010 - .134
.489	.315	.005 - .010	.493	.300	.030 - .050	.495	.401	.010 - .025	.498	.187	.015 - .030	.500	.050	.005 - .010	.500	.251	.015 - .030
.489	.320	.040 - .060	.493	.316	.025 - .040	.495	.440	.005 - .008	.498	.197	.040 - .062	.500	.064	.005 - .010	.500	.253	.005 - .050
.489	.333	.020 - .030	.493	.320	.060 - .080	.496	.041	.030 - .042	.498	.215	.010 - .032	.500	.070	.005 - .010	.500	.254	.005 - .083
.489	.338	.035 - .050	.493	.350	.005 - .010	.496	.085	.005 - .010	.498	.216	.025 - .042	.500	.071	.005 - .010	.500	.255	.005 - .030
.490	.126	.070 - .090	.493	.354	.025 - .040	.496	.128	.020 - .040	.498	.220	.050 - .072	.500	.072	.040 - .062	.500	.257	.005 - .104
.490	.127	.025 - .040	.493	.369	.005 - .010	.496	.130	.010 - .020	.498	.230	.020 - .042	.500	.077	.005 - .010	.500	.258	.100 - .120
.490	.155	.040 - .060	.493	.373	.005 - .010	.496	.132	.060 - .080	.498	.232	.020 - .036	.500	.082	.008 - .025	.500	.259	.100 - .125
.490	.165	.015 - .030	.493	.375	.020 - .040	.496	.156	.005 - .012	.498	.239	.025 - .042	.500	.086	.005 - .010	.500	.260	.005 - .020
.490	.167	.020 - .030	.493	.376	.005 - .010	.496	.162	.035 - .050	.498	.247	.015 - .030	.500	.088	.040 - .060	.500	.261	.050 - .075
.490	.170	.007 - .016	.493	.388	.005 - .010	.496	.170	.020 - .030	.498	.248	.005 - .010	.500	.089	.015 - .025	.500	.263	.005 - .120
.490	.174	.020 - .030	.493	.394	.025 - .040	.496	.186	.070 - .090	.498	.251	.005 - .010	.500	.093	.005 - .010	.500	.264	.005 - .010
.490	.189	.030 - .050	.494	.032	.005 - .010	.496	.194	.030 - .050	.498	.252	.005 - .010	.500	.096	.005 - .010	.500	.265	.005 - .104
.490	.230	.005 - .010	.494	.081	.005 - .016	.496	.203	.005 - .012	.498	.257	.010 - .020	.500	.098	.010 - .020	.500	.266	.005 - .025
.490	.250	.005 - .010	.494	.131	.030 - .050	.496	.205	.005 - .060	.498	.259	.090 - .120	.500	.102	.008 - .015	.500	.268	.005 - .020
.490	.252	.005 - .010	.494	.162	.020 - .030	.496	.218	.005 - .010	.498	.262	.032 - .104	.500	.105	.005 - .010	.500	.269	.020 - .036
.490	.259	.090 - .110	.494	.187	.050 - .070	.496	.248	.005 - .010	.498	.265	.050 - .075	.500	.112	.030 - .050	.500	.270	.005 - .090
.490	.260	.005 - .010	.494	.204	.005 - .010	.496	.249	.005 - .010	.498	.269	.050 - .070	.500	.113	.020 - .040	.500	.275	.005 - .010
.490	.265	.005 - .010	.494	.211	.005 - .010	.496	.252	.020 - .040	.498	.300	.020 - .030	.500	.114	.005 - .030	.500	.276	.060 - .080
.490	.295	.005 - .020	.494	.224	.005 - .010	.496	.253	.020 - .070	.498	.302	.025 - .040	.500	.116	.020 - .040	.500	.280	.042 - .078
.490	.301	.005 - .010	.494	.240	.100 - .125	.496	.255	.005 - .010	.498	.315	.005 - .010	.500	.121	.005 - .012	.500	.281	.005 - .040
.490	.302	.005 - .010	.494	.241	.005 - .010	.496	.260	.015 - .030	.498	.321	.010 - .020	.500	.125	.007 - .062	.500	.283	.030 - .104
.490	.313	.015 - .030	.494	.261	.010 - .020	.496	.262	.015 - .030	.498	.323	.020 - .040	.500	.129	.025 - .075	.500	.286	.030 - .050
.490	.315	.015 - .020	.494	.262	.025 - .040	.496	.263	.015 - .030	.498	.328	.060 - .075	.500	.131	.010 - .060	.500	.288	.010 - .020
.490	.316	.015 - .020	.494	.265	.010 - .060	.496	.265	.060 - .080	.498	.337	.015 - .030	.500	.132	.040 - .060	.500	.289	.015 - .030
.490	.343	.030 - .040	.494	.273	.005 - .010	.496	.304	.060 - .080	.498	.339	.020 - .035	.500	.133	.005 - .010	.500	.291	.025 - .040
.490	.344	.005 - .010	.494	.274	.005 - .010	.496	.318	.040 - .080	.498	.341	.050 - .070	.500	.136	.012 - .020	.500	.292	.005 - .010
.490	.353	.010 - .020	.494	.278	.010 - .020	.496	.319	.005 - .010	.498	.344	.015 - .025	.500	.140	.010 - .020	.500	.295	.025 - .040
.490	.360	.020 - .040	.494	.280	.005 - .010	.496	.332	.030 - .050	.498	.377	.005 - .010	.500	.141	.008 - .016	.500	.296	.010 - .025
.490	.377	.050 - .070	.494	.282	.005 - .010	.496	.343	.030 - .042	.498	.380	.010 - .015	.500	.142	.030 - .125	.500	.298	.005 - .025
.490	.378	.010 - .042	.494	.314	.015 - .050	.496	.346	.050 - .070	.498	.392	.005 - .042	.500	.144	.005 - .030	.500	.299	.030 - .050
.490	.380	.005 - .010	.494	.321	.010 - .020	.496	.349	.050 - .075	.498	.399	.015 - .025	.500	.145	.007 - .020	.500	.300	.005 - .010
.490	.391	.016 - .025	.494	.322	.050 - .070	.496	.353	.050 - .070	.498	.408	.005 - .010	.500	.146	.035 - .050	.500	.302	.060 - .070
.490	.393	.030 - .042	.494	.323	.005 - .078	.496	.377	.050 - .070	.498	.426	.005 - .010	.500	.147	.035 - .050	.500	.304	.005 - .010
.490	.412	.005 - .010	.494	.325	.025 - .035	.496	.380	.005 - .040	.499	.065	.015 - .025	.500	.150	.008 - .050	.500	.305	.020 - .030
.490	.416	.005 - .015	.494	.348	.030 - .050	.496	.381	.015 - .075	.499	.072	.050 - .075	.500	.153	.005 - .010	.500	.309	.005 - .025
.491	.136	.020 - .040	.494	.367	.005 - .010	.496	.390	.030 - .040	.499	.090	.040 - .060	.500	.155	.100 - .125	.500	.312	.015 - .030
.491	.172	.005 - .010	.494	.370	.008 - .015	.496	.400	.005 - .010	.499	.094	.042 - .062	.500	.160	.005 - .010	.500	.313	.008 - .015
.491	.207	.020 - .030	.494	.373	.005 - .010	.496	.433	.005 - .010	.499	.118	.060 - .080	.500	.163	.050 - .072	.500	.314	.005 - .010
.491	.250	.005 - .010	.494	.380	.005 - .010	.496	.437	.005 - .010	.499	.123	.050 - .060	.500	.167	.005 - .010	.500	.315	.015 - .104

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

For a size NOT listed, send specs or phone for quote — (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
.500	.316	.010 - .050
.500	.317	.005 - .090
.500	.318	.010 - .020
.500	.319	.025 - .050
.500	.320	.015 - .025
.500	.321	.005 - .010
.500	.323	.005 - .010
.500	.327	.020 - .080
.500	.328	.048 - .070
.500	.332	.080 - .100
.500	.334	.010 - .020
.500	.336	.030 - .050
.500	.338	.005 - .070
.500	.344	.040 - .060
.500	.348	.015 - .030
.500	.350	.040 - .060
.500	.352	.006 - .012
.500	.356	.005 - .010
.500	.360	.015 - .040
.500	.361	.050 - .060
.500	.368	.020 - .040
.500	.370	.005 - .010
.500	.373	.008 - .015
.500	.375	.040 - .075
.500	.376	.015 - .030
.500	.377	.005 - .060
.500	.378	.005 - .060
.500	.383	.030 - .050
.500	.385	.040 - .050
.500	.388	.020 - .036
.500	.390	.005 - .060
.500	.396	.005 - .030
.500	.402	.005 - .015
.500	.412	.005 - .010
.500	.415	.012 - .016
.500	.441	.010 - .020
.500	.446	.005 - .010
.500	.450	.005 - .010
.500	.452	.010 - .020
.501	.061	.005 - .020
.501	.099	.050 - .075
.501	.130	.030 - .050
.501	.131	.025 - .040
.501	.136	.005 - .020
.501	.139	.075 - .105
.501	.143	.070 - .090
.501	.158	.005 - .010
.501	.168	.045 - .060
.501	.170	.005 - .010
.501	.182	.010 - .104
.501	.191	.090 - .100
.501	.192	.020 - .040
.501	.195	.048 - .062
.501	.196	.005 - .010
.501	.199	.005 - .010
.501	.202	.005 - .010
.501	.205	.030 - .100
.501	.207	.025 - .040
.501	.208	.060 - .072
.501	.210	.100 - .125
.501	.223	.005 - .010
.501	.228	.060 - .080
.501	.230	.005 - .010
.501	.241	.080 - .100
.501	.253	.005 - .125
.501	.254	.048 - .072
.501	.255	.080 - .105
.501	.256	.020 - .090
.501	.263	.005 - .010
.501	.272	.090 - .105
.501	.281	.050 - .104
.501	.283	.010 - .100
.501	.300	.005 - .010
.501	.313	.005 - .070
.501	.318	.005 - .090
.501	.322	.020 - .040
.501	.340	.070 - .090
.501	.345	.025 - .040
.501	.370	.050 - .070
.501	.375	.016 - .030
.501	.376	.005 - .060
.501	.378	.005 - .060
.501	.383	.030 - .050
.501	.385	.040 - .050
.501	.388	.020 - .036
.501	.390	.005 - .060
.501	.396	.005 - .030
.501	.402	.005 - .015
.501	.412	.005 - .010
.501	.415	.012 - .016
.501	.441	.010 - .020
.501	.446	.005 - .010
.501	.450	.005 - .010
.501	.452	.010 - .020
.502	.124	.060 - .083
.502	.130	.005 - .010
.502	.131	.025 - .040
.502	.142	.005 - .010
.502	.161	.012 - .025
.502	.183	.080 - .104
.502	.185	.032 - .062
.502	.188	.062 - .090
.502	.189	.030 - .050
.502	.190	.062 - .100
.502	.193	.005 - .010
.502	.194	.060 - .080
.502	.196	.040 - .060
.502	.245	.025 - .036
.502	.257	.040 - .050
.502	.262	.040 - .060
.502	.263	.030 - .050
.502	.303	.075 - .100
.502	.315	.005 - .040
.502	.329	.020 - .030
.502	.378	.025 - .040
.502	.386	.005 - .010
.503	.131	.005 - .120
.503	.142	.030 - .060
.503	.153	.040 - .050
.503	.157	.050 - .062
.503	.159	.005 - .010
.503	.205	.030 - .040
.503	.280	.075 - .100
.503	.281	.010 - .020
.503	.315	.005 - .010
.503	.316	.005 - .010
.503	.318	.050 - .070
.503	.363	.005 - .010
.503	.383	.005 - .010
.503	.387	.005 - .010
.503	.411	.005 - .010
.504	.125	.090 - .104
.504	.230	.005 - .010
.504	.249	.040 - .060
.504	.258	.030 - .050
.504	.269	.005 - .010
.504	.283	.010 - .020
.504	.321	.030 - .050
.504	.343	.070 - .090
.504	.361	.005 - .010
.504	.362	.005 - .010
.504	.379	.020 - .030
.504	.382	.005 - .010
.504	.390	.030 - .050
.505	.090	.015 - .030
.505	.101	.050 - .070
.505	.129	.050 - .070
.505	.149	.010 - .075
.505	.167	.025 - .040
.505	.194	.005 - .010
.505	.250	.020 - .030
.505	.254	.010 - .020
.505	.295	.080 - .090
.505	.300	.010 - .020
.505	.301	.005 - .030
.505	.324	.050 - .070
.505	.335	.025 - .040
.505	.341	.025 - .075
.505	.355	.025 - .040
.505	.386	.020 - .030
.505	.390	.030 - .050
.505	.396	.005 - .010
.505	.399	.020 - .040
.505	.401	.030 - .050
.505	.457	.005 - .010
.506	.053	.005 - .010
.506	.206	.005 - .010
.506	.220	.040 - .060
.506	.221	.040 - .060
.506	.257	.005 - .010
.506	.258	.040 - .060
.506	.266	.005 - .010
.506	.275	.005 - .010
.507	.107	.005 - .010
.507	.125	.030 - .040
.507	.145	.005 - .010
.507	.221	.010 - .020
.507	.232	.060 - .078
.507	.253	.050 - .075
.507	.265	.060 - .070
.507	.319	.005 - .010
.507	.360	.005 - .010
.507	.368	.005 - .030
.507	.375	.010 - .020
.507	.446	.020 - .030
.508	.201	.020 - .030
.508	.223	.050 - .070
.508	.269	.010 - .020
.508	.280	.020 - .040
.508	.285	.015 - .025
.508	.312	.005 - .010
.508	.315	.005 - .010
.508	.329	.050 - .075
.508	.336	.005 - .010
.508	.355	.040 - .060
.508	.366	.005 - .010
.508	.405	.005 - .010
.508	.405	.030 - .050
.508	.430	.030 - .040
.509	.031	.030 - .050
.509	.064	.030 - .050
.509	.080	.030 - .050
.509	.219	.025 - .042
.509	.285	.010 - .020
.509	.286	.010 - .020
.509	.298	.050 - .070
.509	.430	.020 - .035
.510	.053	.015 - .025
.510	.156	.025 - .042
.510	.210	.075 - .090
.510	.251	.020 - .040
.510	.269	.005 - .010
.510	.280	.040 - .075
.510	.300	.010 - .020
.510	.341	.042 - .062
.510	.398	.040 - .050
.510	.414	.007 - .020
.511	.150	.005 - .010
.511	.165	.040 - .060
.511	.237	.005 - .010
.511	.250	.005 - .072
.511	.256	.005 - .010
.511	.259	.010 - .020
.511	.285	.020 - .040
.511	.316	.005 - .010
.511	.319	.040 - .060
.511	.320	.015 - .030
.511	.327	.020 - .040
.511	.383	.015 - .030
.511	.460	.005 - .010
.512	.198	.050 - .070
.512	.203	.005 - .010
.512	.209	.010 - .020
.512	.238	.005 - .010
.512	.275	.040 - .060
.512	.278	.005 - .010
.512	.312	.010 - .020
.512	.317	.005 - .020
.512	.320	.005 - .010
.512	.321	.005 - .010
.512	.322	.005 - .080
.512	.363	.030 - .040
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.513	.119	.040 - .060
.513	.137	.005 - .010
.513	.153	.040 - .060
.513	.174	.030 - .050
.513	.197	.015 - .030
.513	.237	.070 - .090
.513	.240	.030 - .050
.513	.268	.005 - .012
.513	.287	.050 - .070
.513	.313	.080 - .090
.513	.360	.005 - .010
.513	.373	.015 - .030
.513	.383	.005 - .010
.513	.396	.040 - .060
.513	.440	.005 - .010
.513	.455	.010 - .020
.514	.194	.070 - .090
.514	.203	.005 - .010
.514	.210	.040 - .060
.514	.339	.010 - .020
.514	.392	.005 - .010
.514	.431	.030 - .040
.514	.454	.020 - .030
.515	.149	.005 - .010
.515	.163	.030 - .050
.515	.191	.050 - .070
.515	.206	.080 - .104
.515	.218	.005 - .010
.515	.227	.030 - .050
.515	.228	.005 - .010
.515	.253	.105 - .125
.515	.308	.008 - .015
.515	.310	.008 - .015
.515	.315	.008 - .015
.515	.316	.008 - .015
.515	.318	.005 - .010
.515	.322	.015 - .025
.515	.377	.005 - .010
.515	.378	.020 - .030
.515	.385	.005 - .010
.515	.388	.020 - .040
.515	.390	.010 - .040
.515	.391	.050 - .060
.515	.394	.005 - .008
.515	.397	.005 - .010
.515	.420	.020 - .032
.516	.156	.030 - .050
.516	.195	.008 - .015
.516	.239	.005 - .010
.516	.246	.005 - .020
.516	.315	.005 - .010
.516	.320	.005 - .010
.516	.387	.020 - .040
.516	.388	.005 - .010
.516	.438	.020 - .032
.516	.445	.005 - .010
.517	.331	.030 - .050
.517	.340	.015 - .030
.517	.341	.040 - .060
.517	.346	.005 - .070
.517	.402	.005 - .010
.517	.417	.005 - .010
.517	.438	.005 - .010
.517	.441	.020 - .030
.518	.175	.008 - .016
.518	.214	.015 - .030
.518	.253	.005 - .010
.518	.256	.040 - .060
.518	.338	.005 - .010
.518	.375	.050 - .070
.518	.438	.005 - .010
.518	.440	.020 - .030
.518	.447	.010 - .020
.519	.081	.015 - .025
.519	.103	.005 - .010
.519	.170	.050 - .070
.519	.290	.030 - .040
.519	.339	.005 - .010
.519	.377	.005 - .010
.519	.397	.005 - .010
.520	.120	.010 - .020
.520	.194	.050 - .060
.520	.208	.015 - .020
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.520	.311	.020 - .035
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.520	.328	.020 - .040
.520	.333	.005 - .010
.520	.346	.020 - .030
.520	.380	.005 - .010
.520	.392	.005 - .010
.520	.430	.010 - .020
.520	.440	.005 - .010
.520	.455	.005 - .010
.521	.145	.075 - .090
.521	.239	.040 - .050
.521	.325	.010 - .020
.521	.340	.072 - .090
.521	.380	.025 - .040
.521	.440	.005 - .010
.522	.251	.042 - .072
.522	.265	.005 - .010
.522	.279	.005 - .010
.522	.290	.040 - .050
.522	.353	.015 - .025
.522	.413	.030 - .050
.522	.435	.015 - .030
.522	.437	.005 - .010
.523	.118	.025 - .040
.523	.252	.070 - .090
.523	.273	.005 - .010
.523	.396	.015 - .030
.523	.402	.005 - .010
.523	.406	.032 - .050
.523	.411	.040 - .060
.523	.428	.015 - .030
.524	.286	.030 - .048
.524	.323	.020 - .060
.524	.387	.015 - .025
.524	.396	.005 - .010
.524	.409	.010 - .020
.524	.441	.005 - .010
.524	.463	.025 - .040
.525	.068	.015 - .032
.525	.156	.090 - .105
.525	.187	.015 - .030
.525	.201	.060 - .080
.525	.252	.005 - .010
.525	.258	.060 - .080
.525	.308	.005 - .010
.525	.346	.060 - .080
.525	.357	.005 - .010
.525	.358	.070 - .080
.525	.375	.005 - .010
.525	.378	.030 - .050
.525	.390	.060 - .080
.525	.401	.020 - .040
.525	.428	.005 - .015
.526	.195	.030 - .050
.526	.203	.030 - .050
.526	.256	.030 - .050
.526	.270	.010 - .020
.526	.357	.005 - .010
.526	.437	.015 - .030
.527	.129	.015 - .025
.527	.145	.005 - .010
.527	.346	.040 - .060
.527	.348	.032 - .050
.527	.369	.005 - .010
.527	.393	.030 - .050
.527	.437	.010 - .020
.527	.443	.020 - .040
.528	.128	.010 - .020
.528	.152	.005 - .012
.528	.209	.010 - .020
.528	.236	.040 - .060
.528	.254	.005 - .010
.528	.265	.030 - .060
.528	.268	.040 - .060
.528	.308	.005 - .010
.528	.360	.025 - .040
.528	.410	.040 - .060
.528	.439	.010 - .020
.529	.132	.005 - .010
.529	.175	.015 - .030
.529	.234	.070 - .090
.529	.280	.015 - .030
.529	.313	.030 - .048
.529	.331	.020 - .040
.529	.375	.050 - .075
.529	.385	.005 - .010
.529	.439	.015 - .030
.530	.066	.035 - .060
.530	.090	.010 - .020
.530	.099	.015 - .030
.530	.130	.040 - .060
.530	.153	.080 - .104
.530	.180	.005 - .010
.530	.191	.005 - .010
.530	.206	.100 - .125
.530	.222	.020 - .035
.530	.253	.005 - .010
.530	.254	.015 - .030
.530	.255	.015 - .030
.530	.270	.100 - .125
.530	.272	.100 - .125
.530	.273	.100 - .125
.530	.277	.005 - .010
.530	.281	.040 - .050
.530	.312	.005 - .010
.530	.314	.015 - .070
.530	.315	.010 - .020
.530	.316	.025 - .040
.530	.320	.025 - .040
.530	.344	.060 - .083
.530	.375	.005 - .010
.530	.377	.005 - .010
.530	.385	.050 - .060
.530	.388	.010 - .020
.530	.393	.005 - .010
.530	.397	.025 - .035
.530	.403	.005 - .010
.530	.417	.005 - .010
.530	.450	.015 - .030
.530	.468	.005 - .030
.530	.490	.005 - .010
.531	.143	.015 - .050
.531	.158	.032 - .048
.531	.180	.050 - .075
.531	.191	.012 - .020
.531	.200	.015 - .030
.531	.202	.015 - .030
.531	.206	.005 - .030
.531	.213	.005 - .010
.531	.230	.105 - .125
.531	.254	.060 - .083
.531	.257	.010 - .060
.531	.264	.030 - .050
.531	.271	.025 - .035
.531	.295	.015 - .030
.531	.317	.010 - .060
.531	.330	.040 - .060
.531	.335	.090 - .120
.531	.346	.042 - .062
.531	.348	.050 - .072
.531	.350	.040 - .062
.531	.386	.010 - .020
.531	.406	.050 - .060
.531	.438	.005 - .010
.531	.463	.015 - .030
.532	.073	.010 - .020
.532	.166	.100 - .125
.532	.201	.005 - .010
.532	.207	.062 - .090
.532	.250	.005 - .015
.532	.329	.040 - .075
.532	.381	.030 - .050

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

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
.532	.451	.005 - .010	.540	.280	.030 - .060	.547	.256	.005 - .010	.551	.236	.005 - .010	.555	.265	.020 - .040	.560	.228	.060 - .083
.532	.468	.020 - .040	.540	.282	.042 - .062	.547	.258	.005 - .010	.551	.238	.005 - .020	.555	.318	.005 - .010	.560	.246	.040 - .060
.532	.490	.012 - .020	.540	.284	.015 - .030	.547	.293	.060 - .070	.551	.240	.005 - .050	.555	.320	.060 - .080	.560	.254	.100 - .120
.533	.067	.010 - .020	.540	.320	.005 - .010	.547	.312	.005 - .010	.551	.246	.060 - .080	.555	.328	.050 - .078	.560	.258	.060 - .080
.533	.201	.010 - .020	.540	.321	.010 - .020	.547	.317	.050 - .070	.551	.253	.005 - .010	.555	.356	.050 - .060	.560	.259	.048 - .060
.533	.236	.005 - .010	.540	.333	.015 - .025	.547	.320	.030 - .050	.551	.264	.070 - .090	.555	.360	.050 - .070	.560	.262	.005 - .010
.533	.240	.050 - .070	.540	.347	.078 - .104	.547	.365	.005 - .010	.551	.278	.005 - .010	.555	.438	.005 - .010	.560	.263	.010 - .050
.533	.266	.090 - .105	.540	.348	.015 - .030	.547	.405	.005 - .020	.551	.284	.030 - .050	.555	.440	.005 - .010	.560	.273	.010 - .020
.533	.274	.005 - .010	.540	.388	.050 - .070	.548	.095	.040 - .060	.551	.294	.012 - .025	.555	.443	.015 - .030	.560	.280	.040 - .060
.533	.367	.070 - .090	.540	.391	.030 - .050	.548	.170	.050 - .070	.551	.300	.020 - .040	.555	.445	.005 - .010	.560	.286	.005 - .010
.533	.389	.020 - .030	.540	.392	.010 - .020	.548	.211	.015 - .030	.551	.315	.005 - .010	.555	.475	.030 - .045	.560	.295	.005 - .010
.533	.411	.010 - .025	.540	.395	.005 - .010	.548	.303	.005 - .016	.551	.316	.005 - .050	.556	.120	.030 - .050	.560	.311	.005 - .010
.534	.039	.015 - .030	.540	.399	.025 - .040	.548	.325	.060 - .080	.551	.317	.005 - .010	.556	.123	.030 - .060	.560	.313	.062 - .120
.534	.131	.030 - .050	.540	.408	.015 - .025	.548	.329	.025 - .040	.551	.318	.050 - .070	.556	.136	.030 - .050	.560	.316	.005 - .010
.534	.186	.070 - .090	.540	.409	.005 - .010	.548	.397	.005 - .010	.551	.320	.005 - .010	.556	.172	.040 - .060	.560	.317	.040 - .060
.534	.193	.015 - .030	.540	.413	.040 - .050	.548	.401	.050 - .070	.551	.321	.005 - .010	.556	.197	.030 - .050	.560	.320	.020 - .040
.534	.207	.030 - .050	.540	.420	.015 - .030	.548	.452	.030 - .050	.551	.322	.005 - .010	.556	.200	.005 - .010	.560	.326	.005 - .010
.534	.220	.005 - .010	.541	.152	.060 - .090	.548	.453	.025 - .040	.551	.330	.050 - .070	.556	.263	.005 - .010	.560	.331	.005 - .015
.534	.284	.060 - .083	.541	.300	.010 - .020	.549	.099	.005 - .010	.551	.357	.015 - .030	.556	.281	.075 - .104	.560	.336	.005 - .010
.534	.361	.062 - .080	.541	.306	.010 - .020	.549	.216	.005 - .010	.551	.377	.010 - .020	.556	.317	.040 - .060	.560	.343	.040 - .060
.534	.394	.030 - .050	.541	.314	.050 - .060	.549	.316	.005 - .010	.551	.378	.010 - .100	.556	.327	.010 - .020	.560	.345	.090 - .110
.534	.441	.030 - .042	.541	.319	.030 - .050	.549	.326	.005 - .010	.551	.385	.005 - .010	.556	.383	.040 - .060	.560	.370	.005 - .010
.535	.064	.012 - .020	.541	.375	.030 - .050	.549	.334	.025 - .040	.551	.387	.010 - .020	.556	.441	.005 - .010	.560	.375	.050 - .070
.535	.228	.075 - .104	.541	.378	.040 - .060	.549	.452	.030 - .060	.551	.394	.005 - .040	.557	.242	.010 - .020	.560	.377	.005 - .015
.535	.238	.010 - .020	.541	.402	.005 - .030	.549	.455	.010 - .020	.551	.395	.050 - .070	.557	.262	.010 - .020	.560	.379	.020 - .040
.535	.239	.005 - .010	.541	.407	.040 - .060	.549	.476	.005 - .010	.551	.399	.010 - .040	.557	.317	.020 - .060	.560	.380	.005 - .010
.535	.244	.015 - .030	.541	.415	.005 - .010	.550	.032	.010 - .020	.551	.418	.036 - .060	.557	.380	.040 - .060	.560	.381	.015 - .060
.535	.298	.010 - .020	.542	.172	.010 - .020	.550	.105	.042 - .060	.551	.443	.010 - .025	.557	.387	.025 - .040	.560	.384	.005 - .010
.535	.310	.025 - .042	.542	.175	.020 - .040	.550	.120	.005 - .060	.551	.461	.005 - .010	.557	.396	.050 - .070	.560	.390	.030 - .060
.535	.314	.005 - .010	.542	.178	.030 - .050	.550	.140	.020 - .040	.551	.472	.005 - .030	.557	.421	.010 - .020	.560	.392	.035 - .060
.535	.318	.005 - .010	.542	.303	.060 - .080	.550	.158	.005 - .010	.552	.093	.025 - .040	.557	.446	.020 - .040	.560	.401	.005 - .010
.535	.320	.016 - .025	.542	.380	.040 - .060	.550	.159	.090 - .100	.552	.094	.005 - .008	.558	.288	.005 - .010	.560	.410	.005 - .010
.535	.325	.010 - .020	.542	.395	.005 - .010	.550	.190	.020 - .030	.552	.129	.031 - .048	.558	.327	.050 - .070	.560	.420	.005 - .010
.535	.335	.005 - .010	.542	.437	.010 - .020	.550	.193	.005 - .060	.552	.160	.020 - .040	.558	.331	.020 - .050	.560	.421	.030 - .050
.535	.338	.025 - .040	.542	.440	.020 - .040	.550	.208	.048 - .062	.552	.202	.015 - .030	.558	.360	.005 - .012	.560	.426	.020 - .040
.535	.343	.008 - .015	.542	.453	.005 - .010	.550	.240	.010 - .020	.552	.212	.060 - .080	.558	.361	.036 - .060	.560	.459	.005 - .015
.535	.357	.005 - .010	.543	.198	.040 - .060	.550	.245	.020 - .040	.552	.220	.005 - .010	.558	.414	.030 - .050	.560	.485	.020 - .032
.535	.378	.012 - .025	.543	.316	.020 - .040	.550	.250	.040 - .100	.552	.237	.005 - .020	.558	.486	.005 - .030	.560	.500	.020 - .032
.535	.379	.010 - .020	.543	.333	.005 - .010	.550	.255	.020 - .032	.552	.238	.005 - .010	.559	.032	.020 - .030	.561	.105	.015 - .030
.535	.384	.010 - .020	.543	.346	.030 - .050	.550	.258	.025 - .040	.552	.240	.010 - .020	.559	.060	.015 - .025	.561	.127	.020 - .040
.535	.445	.005 - .010	.543	.377	.015 - .025	.550	.259	.005 - .030	.552	.276	.030 - .040	.559	.128	.005 - .010	.561	.161	.005 - .010
.536	.105	.030 - .050	.543	.433	.005 - .010	.550	.271	.005 - .010	.552	.286	.010 - .020	.559	.135	.005 - .010	.561	.166	.060 - .083
.536	.191	.075 - .090	.543	.441	.005 - .010	.550	.282	.035 - .125	.552	.305	.025 - .060	.559	.145	.015 - .030	.561	.173	.005 - .010
.536	.242	.005 - .010	.544	.189	.005 - .010	.550	.300	.042 - .062	.552	.319	.005 - .010	.559	.209	.060 - .080	.561	.174	.075 - .090
.536	.259	.100 - .125	.544	.206	.020 - .040	.550	.304	.030 - .060	.552	.321	.005 - .010	.559	.216	.020 - .040	.561	.175	.015 - .030
.536	.264	.030 - .050	.544	.226	.010 - .020	.550	.315	.005 - .048	.552	.387	.040 - .060	.559	.225	.005 - .010	.561	.189	.015 - .025
.536	.324	.025 - .040	.544	.227	.020 - .040	.550	.316	.005 - .030	.552	.395	.005 - .015	.559	.259	.010 - .040	.561	.190	.005 - .060
.536	.346	.010 - .015	.544	.311	.030 - .040	.550	.317	.015 - .030	.552	.396	.050 - .075	.559	.285	.005 - .010	.561	.192	.020 - .040
.537	.104	.016 - .025	.544	.324	.005 - .010	.550	.319	.005 - .010	.552	.397	.005 - .010	.559	.311	.005 - .010	.561	.200	.080 - .105
.537	.243	.105 - .125	.544	.325	.020 - .040	.550	.322	.030 - .050	.552	.398	.005 - .010	.559	.322	.080 - .104	.561	.202	.030 - .060
.537	.283	.105 - .125	.544	.385	.005 - .010	.550	.323	.008 - .020	.552	.400	.025 - .040	.559	.347	.025 - .042	.561	.208	.030 - .050
.537	.370	.040 - .060	.544	.421	.005 - .010	.550	.332	.005 - .010	.552	.401	.010 - .015	.559	.349	.075 - .090	.561	.255	.020 - .040
.537	.375	.005 - .010	.544	.449	.015 - .030	.550	.344	.060 - .083	.552	.425	.040 - .050	.559	.379	.030 - .050	.561	.290	.005 - .010
.537	.394	.010 - .020	.544	.463	.005 - .010	.550	.351	.005 - .010	.552	.434	.015 - .030	.559	.388	.060 - .080	.561	.298	.060 - .083
.537	.409	.025 - .040	.544	.502	.010 - .020	.550	.357	.040 - .062	.552	.438	.005 - .010	.559	.391	.030 - .050	.561	.310	.040 - .060
.538	.210	.030 - .060	.545	.100	.042 - .060	.550	.375	.005 - .020	.552	.478	.005 - .010	.559	.454	.020 - .040	.561	.314	.036 - .060
.538	.219	.005 - .010	.545	.187	.005 - .012	.550	.380	.005 - .020	.553	.176	.010 - .020	.559	.471	.005 - .030	.561	.320	.090 - .110
.538	.257	.015 - .030	.545	.244	.005 - .060	.550	.381	.040 - .060	.553	.212	.060 - .080	.559	.480	.005 - .010	.561	.331	.100 - .120
.538	.309	.010 - .020	.545	.260	.050 - .070	.550	.390	.070 - .090	.553	.229	.005 - .010	.559	.507	.005 - .010	.561	.360	.015 - .025
.538	.340	.030 - .050	.545	.313	.005 - .010	.550	.398	.005 - .010	.553	.237	.005 - .010	.560	.113	.015 - .030	.561	.367	.005 - .010
.538	.342	.040 - .060	.545	.319	.015 - .050	.550	.400	.050 - .070	.553	.242	.040 - .060	.560	.118	.016 - .030	.561	.377	.020 - .030
.538	.385	.050 - .075	.545	.346	.042 - .062	.550	.404	.020 - .040	.553	.320	.005 - .010	.560	.120	.075 - .104	.561	.381	.075 - .093
.538	.440	.005 - .010	.545	.378	.040 - .060	.550	.408	.040 - .060	.553	.396	.015 - .030	.560	.128	.015 - .030	.561	.397	.020 - .032
.538	.457	.005 - .010	.545	.382	.040 - .062	.550	.409	.060 - .075	.554	.154	.015 - .030	.560	.131	.060 - .083	.561	.407	.005 - .010
.539	.195	.025 - .050	.545	.385	.005 - .010	.550	.415	.005 - .010	.554	.240	.005 - .010	.560	.135	.050 - .070	.561	.421	.005 - .010
.539	.252	.060 - .080	.545	.409	.010 - .020	.550	.421	.020 - .040	.554	.249	.030 - .050	.560	.149	.005 - .020	.561	.435	.010 - .020
.539	.278	.015 - .030	.545	.410	.020 - .030	.550	.427	.025 - .042	.554	.258	.025 - .035	.560	.161	.040 - .062	.561	.440	.035 - .060
.539	.318	.005 - .010	.545	.442	.005 - .010	.550	.429	.035 - .050	.554	.318	.090 - .110	.560	.172	.005 - .010	.561	.459	.010 - .020
.539	.366	.005 - .010	.545	.445	.005 - .010	.550	.479	.005 - .010	.554	.330	.005 - .010	.560	.180	.005 - .015	.562	.090	.005 - .010
.539	.367	.025 - .040	.546	.217	.005 - .010	.550	.487	.010 - .020	.554	.370	.005 - .020	.560	.190	.030 - .050	.562	.130	.005 - .010
.539	.380	.025 - .042	.546	.259	.005 - .010	.550	.498	.005 - .010	.554	.379	.010 - .020	.560	.192	.008 - .016	.562	.134	.030 - .050
.539	.399	.005 - .030	.546	.271	.010 - .020	.551	.081	.005 - .010	.554	.405	.030 - .048	.560	.194	.032 - .048	.562	.146	.032 - .050
.539	.420	.005 - .010	.546	.305	.005 - .010	.551	.095	.012 - .020	.554	.440	.020 - .040	.560	.196	.015 - .025	.562	.148	.040 - .060
.539	.425	.005 - .010	.546	.375	.030 - .050	.551	.141	.005 - .010	.554	.468	.010 - .025	.560	.200	.005 - .010	.562	.152	.035 - .050
.539	.469	.007 - .015	.546	.378	.015 - .030	.551	.161	.005 - .010	.555	.125	.030 - .050	.560	.202	.032 - .050	.562	.158	.036 - .075
.540	.162	.032 - .062	.546	.410	.020 - .030	.551	.166	.030 - .105	.555	.131	.060 - .080	.560	.203	.012 - .020	.562	.165	.008 - .015
.540	.186	.060 - .070	.546	.435	.020 - .040	.551	.172	.080 - .100	.555	.154	.020 - .040	.560	.206	.005 - .010	.562	.166	.050 - .070
.540	.220	.020 - .040	.547	.144	.005 - .010	.551	.201	.005 - .010	.555	.173	.105 - .135	.560	.207	.030 - .050	.562	.169	.005 - .010
.540	.229	.030 - .050	.547	.160	.010 - .015	.551	.220	.015 - .025	.555	.250	.010 - .020	.560	.225	.006 - .010	.562	.191	.040 - .060
.540	.262	.010 - .020	.547	.214	.005 - .010	.551	.225	.070 - .090	.555	.253	.080 - .104	.560	.226	.015 - .025	.562	.193	.040 - .060

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

For non-metallic materials, contact BOKER'S — (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
.562	.194	.060 - .080	.563	.359	.025 - .040	.568	.138	.005 - .010	.575	.346	.005 - .030	.584	.350	.005 - .010	.590	.334	.005 - .010
.562	.195	.050 - .070	.563	.373	.015 - .030	.568	.210	.042 - .072	.575	.360	.025 - .042	.584	.358	.005 - .010	.590	.339	.035 - .060
.562	.202	.030 - .050	.563	.376	.072 - .090	.568	.224	.005 - .010	.575	.394	.060 - .080	.584	.431	.005 - .010	.590	.340	.010 - .050
.562	.204	.075 - .090	.563	.377	.010 - .020	.568	.255	.050 - .070	.575	.399	.060 - .090	.584	.446	.030 - .050	.590	.344	.032 - .050
.562	.205	.020 - .040	.563	.379	.015 - .060	.568	.305	.005 - .010	.575	.412	.010 - .020	.585	.104	.025 - .040	.590	.345	.040 - .060
.562	.207	.005 - .010	.563	.380	.015 - .090	.568	.312	.050 - .062	.575	.430	.010 - .020	.585	.183	.015 - .030	.590	.355	.005 - .010
.562	.218	.048 - .072	.563	.381	.010 - .020	.568	.317	.005 - .010	.575	.440	.040 - .060	.585	.257	.020 - .040	.590	.376	.020 - .032
.562	.222	.010 - .070	.563	.385	.020 - .030	.568	.360	.005 - .010	.575	.446	.010 - .030	.585	.264	.025 - .040	.590	.378	.005 - .010
.562	.233	.005 - .015	.563	.387	.020 - .050	.568	.378	.010 - .030	.575	.464	.020 - .040	.585	.290	.090 - .105	.590	.379	.025 - .040
.562	.240	.050 - .070	.563	.398	.030 - .050	.568	.413	.015 - .025	.575	.485	.005 - .040	.585	.327	.050 - .070	.590	.386	.005 - .010
.562	.241	.015 - .030	.563	.405	.030 - .080	.568	.414	.020 - .040	.576	.147	.090 - .104	.585	.328	.070 - .090	.590	.390	.032 - .062
.562	.251	.110 - .130	.563	.408	.020 - .030	.568	.440	.030 - .040	.576	.218	.030 - .040	.585	.364	.060 - .080	.590	.396	.005 - .012
.562	.253	.005 - .010	.563	.439	.005 - .015	.569	.205	.050 - .070	.576	.500	.020 - .030	.585	.366	.040 - .050	.590	.397	.005 - .050
.562	.257	.062 - .090	.563	.450	.005 - .010	.569	.207	.025 - .040	.577	.096	.012 - .025	.585	.372	.025 - .040	.590	.401	.005 - .010
.562	.261	.030 - .050	.563	.467	.025 - .042	.569	.243	.010 - .015	.577	.199	.060 - .090	.585	.377	.005 - .010	.590	.410	.040 - .060
.562	.263	.005 - .030	.564	.118	.005 - .010	.569	.257	.005 - .010	.577	.253	.050 - .070	.585	.380	.005 - .010	.590	.426	.070 - .080
.562	.264	.015 - .030	.564	.195	.090 - .105	.569	.324	.015 - .075	.577	.290	.050 - .070	.585	.390	.020 - .040	.590	.430	.005 - .060
.562	.265	.050 - .090	.564	.208	.040 - .050	.569	.447	.020 - .040	.577	.325	.042 - .062	.585	.397	.005 - .010	.590	.439	.005 - .010
.562	.266	.100 - .125	.564	.214	.030 - .050	.569	.470	.015 - .025	.577	.328	.090 - .120	.585	.405	.050 - .070	.590	.471	.015 - .025
.562	.269	.030 - .050	.564	.252	.075 - .090	.569	.472	.012 - .020	.577	.353	.025 - .040	.586	.132	.010 - .020	.590	.480	.005 - .020
.562	.275	.050 - .075	.564	.253	.040 - .060	.569	.474	.005 - .010	.577	.376	.010 - .025	.586	.327	.015 - .030	.590	.498	.025 - .040
.562	.281	.032 - .050	.564	.256	.020 - .040	.569	.481	.030 - .050	.578	.173	.025 - .042	.586	.415	.005 - .010	.590	.523	.005 - .008
.562	.282	.080 - .100	.564	.284	.005 - .020	.570	.170	.080 - .090	.578	.203	.005 - .060	.586	.433	.040 - .060	.591	.079	.020 - .030
.562	.289	.050 - .070	.564	.286	.015 - .030	.570	.193	.015 - .030	.578	.239	.080 - .090	.586	.447	.005 - .010	.591	.115	.020 - .040
.562	.290	.025 - .040	.564	.311	.025 - .040	.570	.206	.105 - .125	.578	.257	.050 - .075	.586	.477	.005 - .010	.591	.161	.050 - .070
.562	.297	.010 - .020	.564	.337	.010 - .020	.570	.232	.025 - .042	.578	.266	.020 - .060	.586	.484	.005 - .010	.591	.200	.040 - .060
.562	.304	.020 - .030	.564	.352	.005 - .010	.570	.233	.050 - .075	.578	.355	.005 - .010	.586	.500	.030 - .040	.591	.216	.050 - .070
.562	.309	.005 - .010	.564	.384	.005 - .010	.570	.236	.025 - .042	.578	.407	.050 - .070	.586	.525	.005 - .010	.591	.217	.015 - .025
.562	.313	.010 - .020	.564	.386	.030 - .048	.570	.277	.005 - .010	.578	.468	.010 - .020	.586	.544	.010 - .020	.591	.240	.075 - .090
.562	.314	.080 - .104	.564	.392	.050 - .072	.570	.278	.030 - .050	.578	.526	.010 - .020	.587	.195	.032 - .050	.591	.277	.005 - .010
.562	.315	.020 - .070	.564	.445	.005 - .010	.570	.282	.025 - .042	.579	.138	.031 - .042	.587	.231	.005 - .010	.591	.289	.080 - .105
.562	.318	.005 - .075	.564	.500	.020 - .040	.570	.316	.010 - .020	.579	.174	.020 - .040	.587	.231	.015 - .025	.591	.296	.050 - .070
.562	.320	.005 - .060	.564	.504	.005 - .010	.570	.318	.015 - .030	.579	.188	.020 - .040	.587	.345	.030 - .050	.591	.316	.010 - .020
.562	.326	.005 - .030	.564	.507	.005 - .010	.570	.325	.020 - .040	.579	.265	.050 - .075	.587	.373	.005 - .010	.591	.317	.010 - .020
.562	.328	.050 - .070	.565	.066	.005 - .010	.570	.369	.005 - .010	.579	.318	.060 - .070	.587	.400	.050 - .070	.591	.321	.015 - .030
.562	.329	.025 - .040	.565	.093	.080 - .090	.570	.377	.005 - .010	.579	.342	.090 - .104	.587	.411	.040 - .060	.591	.324	.040 - .060
.562	.331	.080 - .100	.565	.120	.015 - .030	.570	.380	.010 - .020	.579	.374	.020 - .030	.587	.437	.010 - .020	.591	.326	.005 - .010
.562	.332	.020 - .040	.565	.174	.025 - .040	.570	.433	.010 - .020	.579	.378	.020 - .030	.587	.461	.005 - .010	.591	.435	.050 - .070
.562	.343	.005 - .050	.565	.186	.010 - .015	.570	.445	.025 - .040	.579	.407	.005 - .010	.588	.245	.015 - .030	.591	.440	.040 - .050
.562	.344	.060 - .080	.565	.236	.083 - .105	.570	.461	.030 - .050	.579	.437	.025 - .040	.588	.250	.005 - .010	.591	.511	.010 - .020
.562	.370	.020 - .040	.565	.240	.050 - .080	.570	.515	.005 - .010	.579	.502	.005 - .010	.588	.260	.040 - .060	.592	.147	.005 - .010
.562	.374	.005 - .010	.565	.280	.105 - .125	.571	.206	.105 - .125	.580	.096	.025 - .040	.588	.282	.030 - .040	.592	.221	.005 - .010
.562	.375	.050 - .070	.565	.310	.030 - .040	.571	.256	.030 - .050	.580	.196	.005 - .010	.588	.300	.005 - .020	.592	.236	.005 - .010
.562	.376	.005 - .062	.565	.315	.005 - .015	.571	.283	.070 - .090	.580	.197	.090 - .120	.588	.386	.010 - .020	.592	.258	.030 - .050
.562	.381	.040 - .060	.565	.316	.060 - .080	.571	.319	.050 - .070	.580	.213	.050 - .075	.588	.406	.040 - .060	.592	.315	.010 - .015
.562	.382	.040 - .060	.565	.353	.050 - .072	.571	.373	.020 - .035	.580	.218	.093 - .125	.588	.417	.040 - .060	.592	.317	.005 - .010
.562	.383	.030 - .050	.565	.396	.005 - .010	.572	.256	.005 - .008	.580	.250	.030 - .040	.589	.178	.060 - .080	.592	.322	.005 - .010
.562	.385	.015 - .070	.565	.453	.025 - .035	.572	.470	.030 - .040	.580	.251	.050 - .070	.589	.232	.070 - .090	.592	.330	.040 - .062
.562	.386	.020 - .040	.566	.151	.040 - .060	.573	.129	.050 - .070	.580	.255	.050 - .070	.589	.311	.030 - .050	.592	.332	.005 - .010
.562	.387	.040 - .060	.566	.201	.005 - .010	.573	.130	.050 - .070	.580	.257	.020 - .070	.589	.314	.005 - .015	.592	.389	.005 - .010
.562	.388	.005 - .015	.566	.203	.005 - .010	.573	.205	.050 - .070	.580	.258	.080 - .104	.589	.341	.040 - .062	.592	.394	.040 - .060
.562	.391	.075 - .090	.566	.266	.005 - .010	.573	.266	.025 - .040	.580	.283	.005 - .010	.589	.348	.040 - .060	.592	.396	.040 - .060
.562	.392	.005 - .010	.566	.270	.005 - .010	.573	.384	.020 - .040	.580	.324	.025 - .035	.589	.376	.015 - .030	.592	.397	.020 - .040
.562	.396	.025 - .040	.566	.299	.050 - .075	.573	.394	.040 - .060	.580	.330	.080 - .104	.589	.410	.062 - .078	.592	.453	.020 - .042
.562	.420	.020 - .070	.566	.321	.005 - .010	.573	.395	.025 - .045	.580	.346	.042 - .062	.589	.444	.040 - .060	.592	.472	.040 - .060
.562	.437	.015 - .075	.566	.322	.005 - .010	.573	.402	.050 - .060	.580	.377	.090 - .105	.589	.446	.020 - .030	.592	.497	.005 - .010
.562	.439	.010 - .025	.566	.328	.010 - .015	.573	.474	.030 - .050	.580	.379	.005 - .010	.589	.455	.030 - .050	.593	.082	.032 - .062
.562	.440	.020 - .040	.566	.330	.040 - .060	.573	.525	.015 - .025	.580	.380	.010 - .020	.590	.066	.005 - .010	.593	.096	.005 - .010
.562	.500	.005 - .010	.566	.334	.005 - .060	.574	.199	.025 - .042	.580	.398	.005 - .010	.590	.115	.032 - .062	.593	.129	.005 - .012
.562	.505	.020 - .030	.566	.342	.093 - .104	.574	.296	.015 - .030	.580	.416	.042 - .062	.590	.118	.015 - .030	.593	.190	.032 - .060
.563	.101	.025 - .040	.566	.378	.060 - .090	.574	.297	.090 - .105	.580	.417	.005 - .010	.590	.145	.005 - .010	.593	.195	.015 - .030
.563	.116	.060 - .080	.566	.446	.040 - .060	.574	.298	.005 - .010	.580	.431	.005 - .010	.590	.147	.005 - .020	.593	.196	.015 - .040
.563	.145	.005 - .010	.566	.447	.040 - .060	.574	.300	.032 - .062	.580	.432	.010 - .032	.590	.199	.060 - .080	.593	.261	.005 - .010
.563	.176	.025 - .040	.566	.448	.010 - .020	.574	.397	.005 - .010	.580	.444	.025 - .040	.590	.201	.005 - .010	.593	.265	.025 - .042
.563	.186	.100 - .125	.566	.450	.015 - .030	.574	.406	.020 - .030	.580	.450	.025 - .040	.590	.202	.030 - .050	.593	.301	.050 - .070
.563	.191	.020 - .030	.566	.505	.015 - .025	.574	.482	.070 - .090	.580	.481	.010 - .030	.590	.209	.125 - .156	.593	.311	.020 - .050
.563	.194	.100 - .125	.566	.507	.005 - .010	.575	.151	.040 - .062	.580	.516	.020 - .030	.590	.237	.005 - .010	.593	.318	.005 - .010
.563	.197	.030 - .050	.567	.190	.010 - .020	.575	.180	.010 - .020	.581	.197	.090 - .125	.590	.238	.005 - .010	.593	.392	.075 - .095
.563	.218	.005 - .125	.567	.227	.007 - .012	.575	.186	.070 - .090	.581	.223	.050 - .070	.590	.250	.070 - .090	.593	.399	.010 - .020
.563	.247	.020 - .030	.567	.234	.010 - .020	.575	.189	.080 - .100	.581	.437	.030 - .050	.590	.290	.040 - .060	.593	.407	.100 - .120
.563	.253	.005 - .015	.567	.260	.040 - .060	.575	.199	.060 - .080	.582	.063	.020 - .040	.590	.292	.010 - .020	.593	.410	.005 - .010
.563	.259	.030 - .050	.567	.263	.030 - .050	.575	.200	.025 - .042	.582	.180	.030 - .050	.590	.295	.005 - .010	.593	.437	.005 - .010
.563	.277	.020 - .040	.567	.301	.040 - .060	.575	.251	.010 - .020	.582	.286	.020 - .040	.590	.314	.060 - .080	.593	.453	.005 - .010
.563	.285	.100 - .125	.567	.336	.090 - .104	.575	.258	.005 - .030	.582	.400	.015 - .030	.590	.316	.005 - .010	.593	.464	.015 - .030
.563	.313	.005 - .042	.567	.379	.015 - .025	.575	.260	.075 - .090	.583	.259	.005 - .010	.590	.317	.040 - .090	.593	.468	.020 - .040
.563	.317	.010 - .040	.567	.408	.040 - .060	.575	.287	.005 - .010	.583	.344	.070 - .090	.590	.318	.030 - .050	.593	.472	.005 - .010
.563	.318	.005 - .010	.567	.409	.030 - .050	.575	.312	.100 - .125	.583	.378	.015 - .030	.590	.324	.005 - .010	.593	.478	.005 - .015
.563	.320	.015 - .030	.567	.417	.050 - .060	.575	.320	.020 - .040	.583	.410	.030 - .050	.590	.327	.050 - .075	.593	.497	.005 - .010
.563	.321	.072 - .090	.567	.504	.020 - .030	.575	.322	.010 - .020	.584	.301	.005 - .010	.590	.329	.042 - .062	.593	.518	.020 - .030
.563	.350	.015 - .025	.568	.109	.040 - .060	.575	.335	.016 - .025	.584	.327	.005 - .010	.590	.331	.010 - .020	.594	.061	.015 - .030

*With BOKER'S precision 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
.594	.283	.005 - .010	.600	.089	.020 - .040	.603	.504	.010 - .020	.610	.438	.050 - .070	.615	.386	.060 - .080	.619	.377	.020 - .035
.594	.312	.010 - .020	.600	.118	.015 - .030	.604	.252	.005 - .010	.610	.460	.040 - .060	.615	.395	.020 - .040	.619	.381	.105 - .135
.594	.315	.005 - .010	.600	.119	.080 - .100	.604	.255	.005 - .010	.610	.461	.060 - .075	.615	.408	.090 - .105	.619	.431	.005 - .010
.594	.325	.005 - .010	.600	.128	.032 - .048	.604	.307	.005 - .010	.610	.472	.050 - .075	.615	.420	.010 - .020	.619	.440	.005 - .040
.594	.358	.015 - .025	.600	.138	.040 - .105	.604	.308	.010 - .030	.610	.476	.040 - .060	.615	.441	.005 - .010	.619	.449	.030 - .040
.594	.375	.070 - .090	.600	.156	.025 - .040	.604	.340	.040 - .060	.610	.550	.005 - .010	.615	.448	.030 - .040	.619	.460	.080 - .100
.594	.378	.005 - .104	.600	.157	.025 - .040	.604	.347	.031 - .042	.611	.089	.040 - .060	.615	.460	.020 - .040	.619	.481	.005 - .020
.594	.383	.015 - .030	.600	.168	.070 - .090	.604	.381	.025 - .040	.611	.192	.020 - .030	.615	.478	.030 - .040	.619	.500	.005 - .020
.594	.405	.005 - .010	.600	.176	.005 - .010	.604	.384	.015 - .030	.611	.243	.062 - .090	.615	.492	.020 - .040	.619	.508	.005 - .010
.594	.423	.025 - .040	.600	.200	.005 - .010	.604	.407	.005 - .030	.611	.250	.062 - .090	.615	.510	.025 - .040	.619	.540	.005 - .010
.594	.452	.040 - .060	.600	.203	.020 - .040	.604	.439	.030 - .050	.611	.259	.040 - .060	.615	.520	.025 - .035	.619	.549	.015 - .020
.594	.506	.015 - .025	.600	.207	.015 - .030	.604	.502	.010 - .020	.611	.261	.005 - .010	.615	.536	.010 - .020	.620	.041	.040 - .060
.595	.144	.008 - .016	.600	.210	.075 - .090	.604	.508	.015 - .030	.611	.265	.105 - .125	.615	.537	.020 - .040	.620	.076	.010 - .020
.595	.186	.070 - .090	.600	.215	.005 - .010	.605	.163	.015 - .030	.611	.273	.005 - .010	.615	.540	.010 - .025	.620	.126	.015 - .030
.595	.193	.075 - .090	.600	.217	.050 - .075	.605	.190	.020 - .040	.611	.278	.005 - .010	.615	.551	.030 - .040	.620	.132	.005 - .010
.595	.195	.010 - .020	.600	.236	.005 - .010	.605	.313	.015 - .030	.611	.315	.050 - .010	.616	.044	.015 - .025	.620	.168	.050 - .072
.595	.251	.010 - .020	.600	.237	.040 - .060	.605	.317	.075 - .090	.611	.347	.005 - .010	.616	.160	.015 - .030	.620	.184	.050 - .075
.595	.253	.020 - .030	.600	.241	.005 - .030	.605	.359	.025 - .040	.611	.350	.030 - .050	.616	.167	.020 - .032	.620	.191	.025 - .040
.595	.256	.015 - .030	.600	.252	.005 - .010	.605	.388	.070 - .090	.611	.352	.005 - .010	.616	.192	.070 - .090	.620	.198	.050 - .070
.595	.320	.010 - .020	.600	.253	.005 - .060	.605	.416	.005 - .010	.611	.379	.025 - .040	.616	.251	.005 - .010	.620	.200	.005 - .010
.595	.353	.025 - .040	.600	.254	.015 - .030	.605	.453	.005 - .060	.611	.405	.060 - .083	.616	.256	.020 - .032	.620	.201	.030 - .050
.595	.413	.050 - .070	.600	.255	.005 - .010	.605	.566	.005 - .010	.611	.406	.080 - .090	.616	.259	.005 - .010	.620	.214	.050 - .070
.595	.430	.040 - .060	.600	.265	.010 - .020	.606	.198	.040 - .050	.611	.460	.025 - .040	.616	.268	.015 - .030	.620	.250	.010 - .035
.595	.436	.005 - .010	.600	.266	.005 - .010	.606	.203	.005 - .010	.611	.480	.040 - .070	.616	.323	.010 - .020	.620	.252	.020 - .040
.595	.437	.040 - .060	.600	.267	.005 - .010	.606	.285	.060 - .083	.611	.515	.020 - .040	.616	.328	.025 - .040	.620	.254	.010 - .020
.595	.495	.030 - .050	.600	.269	.025 - .040	.606	.312	.075 - .100	.612	.194	.100 - .125	.616	.377	.050 - .090	.620	.255	.015 - .020
.595	.515	.005 - .010	.600	.270	.005 - .010	.606	.380	.040 - .060	.612	.198	.008 - .020	.616	.384	.005 - .010	.620	.257	.040 - .060
.596	.099	.030 - .050	.600	.282	.005 - .010	.606	.389	.050 - .075	.612	.214	.030 - .050	.616	.386	.062 - .083	.620	.260	.005 - .010
.596	.129	.025 - .040	.600	.285	.005 - .010	.606	.400	.020 - .030	.612	.433	.040 - .060	.616	.410	.005 - .010	.620	.268	.005 - .010
.596	.207	.050 - .070	.600	.296	.015 - .105	.606	.462	.020 - .040	.612	.440	.042 - .062	.616	.412	.020 - .040	.620	.279	.005 - .010
.596	.401	.020 - .040	.600	.300	.005 - .010	.606	.480	.040 - .060	.612	.444	.010 - .030	.616	.456	.040 - .050	.620	.281	.040 - .060
.596	.409	.010 - .020	.600	.322	.030 - .080	.606	.505	.015 - .030	.612	.467	.005 - .010	.616	.478	.030 - .040	.620	.320	.105 - .125
.596	.443	.050 - .075	.600	.330	.080 - .090	.607	.247	.020 - .040	.612	.510	.040 - .050	.616	.480	.040 - .060	.620	.322	.040 - .060
.596	.485	.005 - .040	.600	.346	.005 - .010	.607	.251	.030 - .050	.612	.520	.005 - .010	.616	.505	.005 - .010	.620	.334	.050 - .070
.596	.503	.020 - .040	.600	.361	.015 - .030	.607	.333	.005 - .010	.613	.040	.020 - .030	.616	.524	.030 - .040	.620	.346	.016 - .025
.596	.510	.025 - .040	.600	.370	.040 - .060	.607	.388	.080 - .105	.613	.278	.050 - .070	.617	.310	.005 - .010	.620	.348	.050 - .070
.597	.130	.005 - .015	.600	.380	.015 - .090	.607	.461	.005 - .010	.613	.331	.050 - .070	.617	.318	.015 - .025	.620	.350	.025 - .062
.597	.251	.062 - .078	.600	.383	.010 - .020	.607	.531	.005 - .010	.613	.350	.050 - .070	.617	.351	.005 - .010	.620	.370	.015 - .025
.597	.305	.025 - .040	.600	.386	.010 - .020	.608	.204	.010 - .020	.613	.377	.015 - .030	.617	.359	.025 - .040	.620	.378	.020 - .035
.597	.388	.005 - .015	.600	.401	.010 - .020	.608	.249	.030 - .050	.613	.391	.025 - .040	.617	.362	.005 - .010	.620	.380	.080 - .100
.597	.406	.025 - .040	.600	.406	.020 - .030	.608	.252	.015 - .040	.613	.402	.005 - .010	.617	.385	.005 - .010	.620	.381	.015 - .025
.597	.452	.016 - .040	.600	.408	.040 - .060	.608	.253	.020 - .040	.613	.451	.030 - .050	.617	.448	.065 - .080	.620	.384	.100 - .125
.597	.512	.020 - .030	.600	.413	.010 - .020	.608	.254	.020 - .040	.613	.472	.005 - .010	.617	.496	.010 - .020	.620	.390	.100 - .125
.597	.513	.020 - .030	.600	.421	.005 - .010	.608	.283	.020 - .040	.613	.521	.020 - .042	.617	.514	.005 - .010	.620	.394	.010 - .020
.598	.159	.015 - .030	.600	.434	.005 - .010	.608	.293	.040 - .060	.614	.065	.005 - .010	.617	.560	.005 - .010	.620	.406	.005 - .060
.598	.180	.005 - .010	.600	.440	.010 - .020	.608	.350	.020 - .032	.614	.094	.040 - .060	.618	.120	.015 - .030	.620	.408	.030 - .050
.598	.215	.032 - .062	.600	.442	.030 - .050	.608	.392	.030 - .050	.614	.198	.050 - .090	.618	.124	.040 - .060	.620	.409	.030 - .050
.598	.264	.010 - .020	.600	.450	.040 - .060	.608	.397	.005 - .020	.614	.199	.060 - .078	.618	.164	.030 - .050	.620	.410	.080 - .105
.598	.271	.025 - .040	.600	.460	.030 - .050	.608	.505	.015 - .030	.614	.200	.060 - .083	.618	.185	.040 - .050	.620	.420	.020 - .060
.598	.304	.025 - .040	.600	.498	.005 - .010	.608	.509	.010 - .025	.614	.207	.020 - .040	.618	.215	.005 - .010	.620	.440	.025 - .042
.598	.313	.005 - .020	.600	.503	.005 - .010	.609	.128	.030 - .050	.614	.268	.005 - .010	.618	.216	.010 - .020	.620	.442	.032 - .048
.598	.321	.010 - .020	.600	.505	.020 - .030	.609	.274	.005 - .010	.614	.330	.015 - .030	.618	.259	.040 - .060	.620	.476	.005 - .010
.598	.340	.005 - .010	.600	.517	.005 - .010	.609	.297	.020 - .032	.614	.354	.050 - .070	.618	.262	.005 - .010	.620	.484	.020 - .030
.598	.387	.025 - .040	.600	.550	.005 - .010	.609	.400	.040 - .060	.614	.373	.050 - .070	.618	.364	.005 - .078	.620	.490	.020 - .040
.598	.412	.031 - .048	.601	.159	.080 - .100	.609	.487	.030 - .060	.614	.388	.015 - .030	.618	.381	.040 - .060	.620	.500	.005 - .010
.598	.442	.025 - .040	.601	.165	.005 - .010	.609	.506	.020 - .030	.614	.402	.010 - .020	.618	.382	.020 - .040	.620	.502	.005 - .010
.598	.494	.040 - .060	.601	.227	.005 - .030	.609	.546	.015 - .025	.614	.434	.030 - .050	.618	.393	.005 - .010	.620	.503	.005 - .025
.598	.504	.005 - .010	.601	.228	.005 - .010	.609	.551	.015 - .025	.614	.479	.005 - .010	.618	.400	.080 - .104	.620	.509	.010 - .025
.598	.506	.040 - .050	.601	.257	.030 - .050	.610	.094	.060 - .080	.614	.482	.008 - .020	.618	.435	.050 - .075	.620	.511	.010 - .020
.598	.511	.005 - .015	.601	.313	.020 - .040	.610	.100	.040 - .060	.614	.534	.005 - .010	.618	.440	.005 - .010	.620	.515	.005 - .015
.598	.527	.005 - .010	.601	.315	.040 - .060	.610	.191	.040 - .060	.614	.540	.005 - .010	.618	.446	.005 - .010	.620	.522	.015 - .030
.599	.128	.060 - .080	.601	.357	.060 - .080	.610	.204	.010 - .030	.615	.030	.005 - .010	.618	.475	.005 - .010	.620	.530	.005 - .010
.599	.149	.025 - .042	.601	.376	.005 - .020	.610	.206	.104 - .125	.615	.041	.015 - .030	.618	.500	.005 - .010	.620	.532	.005 - .010
.599	.189	.010 - .020	.601	.377	.010 - .020	.610	.209	.104 - .125	.615	.099	.020 - .030	.618	.507	.005 - .010	.620	.550	.005 - .010
.599	.201	.075 - .090	.601	.378	.005 - .010	.610	.248	.020 - .032	.615	.110	.020 - .030	.618	.526	.032 - .042	.621	.062	.030 - .050
.599	.254	.080 - .090	.601	.391	.025 - .040	.610	.250	.020 - .040	.615	.126	.020 - .030	.618	.531	.005 - .010	.621	.075	.005 - .010
.599	.257	.050 - .070	.601	.401	.040 - .060	.610	.258	.040 - .090	.615	.137	.025 - .080	.618	.549	.005 - .010	.621	.091	.005 - .010
.599	.378	.030 - .050	.601	.428	.010 - .020	.610	.273	.005 - .010	.615	.140	.015 - .030	.618	.551	.015 - .025	.621	.125	.050 - .070
.599	.383	.030 - .050	.601	.438	.005 - .010	.610	.317	.010 - .020	.615	.153	.020 - .030	.618	.556	.005 - .010	.621	.159	.030 - .042
.599	.400	.035 - .050	.601	.461	.005 - .010	.610	.321	.080 - .100	.615	.212	.020 - .030	.618	.560	.015 - .025	.621	.161	.090 - .120
.599	.401	.005 - .010	.601	.480	.005 - .010	.610	.328	.050 - .075	.615	.240	.005 - .010	.619	.125	.050 - .070	.621	.172	.005 - .010
.599	.408	.005 - .060	.602	.101	.080 - .100	.610	.335	.015 - .030	.615	.267	.040 - .060	.619	.158	.100 - .125	.621	.182	.105 - .125
.599	.413	.025 - .040	.602	.180	.050 - .080	.610	.352	.020 - .040	.615	.298	.020 - .030	.619	.171	.015 - .075	.621	.194	.005 - .010
.599	.476	.050 - .070	.602	.254	.005 - .010	.610	.365	.010 - .020	.615	.315	.010 - .020	.619	.238	.030 - .050	.621	.253	.062 - .080
.599	.489	.005 - .010	.602	.255	.040 - .060	.610	.367	.020 - .030	.615	.321	.050 - .070	.619	.306	.025 - .040	.621	.254	.010 - .020
.600	.041	.015 - .025	.602	.407	.025 - .040	.610	.375	.050 - .060	.615	.322	.020 - .040	.619	.324	.020 - .030	.621	.283	.015 - .025
.600	.046	.005 - .010	.602	.486	.040 - .060	.610	.376	.060 - .125	.615	.341	.050 - .070	.619	.326	.020 - .040	.621	.288	.050 - .075
.600	.066	.020 - .035	.603	.227	.030 - .050	.610	.380	.010 - .020	.615	.352	.005 - .012	.619	.329	.070 - .090	.621	.336	.050 - .070
.600	.076	.020 - .030	.603	.479	.040 - .060	.610	.395	.015 - .030	.615	.359	.005 - .010	.619	.353	.050 - .070	.621	.363	.050 - .070
.600	.077	.005 - .010	.603	.498	.010 - .020	.610	.409	.005 - .010	.615	.377	.070 - .090	.619	.360	.005 - .010	.621	.368	.030 - .050

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

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

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To
.621	.376	.010 - .020
.621	.378	.010 - .020
.621	.379	.025 - .040
.621	.380	.090 - .105
.621	.381	.005 - .010
.621	.410	.005 - .010
.621	.437	.025 - .036
.621	.438	.032 - .042
.621	.442	.005 - .048
.621	.471	.008 - .016
.621	.500	.015 - .025
.621	.504	.020 - .030
.621	.505	.005 - .030
.621	.506	.040 - .060
.621	.507	.015 - .030
.621	.533	.015 - .030
.622	.061	.005 - .010
.622	.147	.060 - .080
.622	.159	.048 - .075
.622	.166	.005 - .010
.622	.174	.008 - .016
.622	.175	.007 - .015
.622	.180	.016 - .025
.622	.190	.020 - .040
.622	.191	.005 - .010
.622	.196	.030 - .048
.622	.205	.030 - .050
.622	.206	.030 - .060
.622	.214	.015 - .030
.622	.220	.010 - .020
.622	.230	.060 - .090
.622	.250	.005 - .015
.622	.251	.005 - .010
.622	.258	.025 - .040
.622	.261	.036 - .050
.622	.284	.010 - .042
.622	.300	.020 - .040
.622	.302	.050 - .070
.622	.314	.075 - .125
.622	.315	.100 - .125
.622	.317	.040 - .060
.622	.320	.025 - .070
.622	.325	.007 - .025
.622	.343	.005 - .010
.622	.374	.005 - .010
.622	.376	.015 - .025
.622	.377	.025 - .105
.622	.378	.015 - .030
.622	.384	.005 - .010
.622	.389	.060 - .075
.622	.390	.005 - .010
.622	.391	.050 - .105
.622	.400	.010 - .020
.622	.407	.006 - .016
.622	.409	.005 - .015
.622	.411	.025 - .040
.622	.438	.005 - .010
.622	.445	.015 - .030
.622	.450	.050 - .070
.622	.453	.005 - .010
.622	.461	.005 - .010
.622	.488	.050 - .070
.622	.500	.010 - .020
.622	.503	.005 - .030
.622	.511	.005 - .010
.622	.531	.010 - .020
.622	.532	.008 - .015
.622	.533	.005 - .015
.622	.534	.005 - .010
.622	.540	.005 - .010
.623	.030	.010 - .020
.623	.062	.015 - .030
.623	.094	.060 - .075
.623	.100	.040 - .060
.623	.126	.040 - .050
.623	.136	.080 - .104
.623	.137	.030 - .060
.623	.148	.030 - .050
.623	.156	.020 - .035
.623	.176	.050 - .070
.623	.179	.050 - .090
.623	.190	.010 - .125
.623	.191	.030 - .060
.623	.202	.050 - .090
.623	.220	.050 - .090
.623	.240	.050 - .090
.623	.247	.020 - .035
.623	.250	.005 - .010
.623	.254	.080 - .100
.623	.265	.005 - .075
.623	.268	.010 - .015
.623	.281	.012 - .075
.623	.304	.075 - .105
.623	.317	.050 - .075
.623	.320	.005 - .030
.623	.326	.040 - .060
.623	.328	.010 - .025
.623	.330	.050 - .090
.623	.375	.010 - .020
.623	.390	.050 - .070
.623	.404	.005 - .010
.623	.405	.030 - .050
.623	.424	.005 - .010
.623	.460	.050 - .075
.623	.465	.012 - .020
.623	.474	.008 - .016
.623	.492	.005 - .010
.623	.500	.005 - .012
.623	.501	.010 - .020
.623	.504	.050 - .062
.623	.505	.005 - .010
.623	.515	.005 - .010
.623	.531	.010 - .020
.623	.532	.005 - .010
.623	.536	.075 - .090
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.623	.806	.005 - .010
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.623	.815	.005 - .010
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.623	.876	.005 - .010
.623	.877	.005 - .010
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.623	.879	.005 - .010
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.623	.998	.005 - .010
.623	.999	.005 - .010
.623	1.000	.005 - .010
.624	.087	.010 - .020
.624	.094	.070 - .090
.624	.108	.005 - .010
.624	.109	.005 - .010
.624	.128	.025 - .040
.624	.156	.050 - .070
.624	.168	.060 - .080
.624	.173	.020 - .050
.624	.177	.010 - .020
.624	.178	.015 - .030
.624	.196	.032 - .042
.624	.204	.005 - .010
.624	.220	.005 - .010
.624	.249	.050 - .070
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.624	.253	.100 - .125
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.624	.255	.040 - .075
.624	.298	.050 - .075
.624	.312	.005 - .010
.624	.313	.025 - .045
.624	.315	.100 - .125
.624	.324	.030 - .042
.624	.328	.050 - .070
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.624	.334	.030 - .050
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.624	.343	.105 - .125
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.624	.380	.105 - .125
.624	.392	.030 - .050
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.624	.399	.030 - .050
.624	.403	.030 - .050
.624	.415	.025 - .050
.624	.425	.035 - .050
.624	.438	.030 - .050
.624	.440	.010 - .020
.624	.442	.006 - .012
.624	.445	.050 - .070
.624	.448	.005 - .015
.624	.452	.031 - .048
.624	.485	.040 - .060
.624	.500	.005 - .010
.624	.515	.020 - .030
.624	.533	.005 - .010
.624	.564	.005 - .010
.624	.063	.005 - .010
.624	.067	.008 - .016
.624	.087	.005 - .010
.624	.096	.005 - .010
.624	.102	.020 - .040
.624	.115	.005 - .010
.624	.127	.010 - .020
.624	.128	.030 - .062
.624	.129	.020 - .040
.624	.130	.012 - .020
.624	.136	.080 - .104
.624	.139	.025 - .105
.624	.145	.020 - .032
.624	.151	.005 - .010
.624	.157	.100 - .125
.624	.158	.005 - .010
.624	.160	.075 - .104
.624	.166	.025 - .042
.624	.171	.015 - .125
.624	.187	.025 - .050
.624	.188	.005 - .010
.624	.189	.005 - .060
.624	.190	.060 - .090
.624	.191	.025 - .042
.624	.192	.050 - .070
.624	.193	.100 - .125
.624	.195	.090 - .125
.624	.196	.020 - .040
.624	.200	.030 - .040
.624	.201	.005 - .010
.624	.202	.050 - .075
.624	.205	.050 - .090
.624	.207	.005 - .015
.624	.208	.005 - .010
.624	.210	.100 - .125
.624	.211	.040 - .060
.624	.220	.005 - .010
.624	.222	.050 - .070
.624	.223	.005 - .010
.624	.225	.015 - .020
.624	.226	.032 - .042
.624	.230	.075 - .090
.624	.231	.005 - .010
.624	.236	.025 - .042
.624	.238	.005 - .072
.624	.239	.070 - .090
.624	.240	.050 - .070
.624	.251	.005 - .042
.624	.252	.036 - .105
.624	.253	.005 - .042
.624	.255	.075 - .104
.624	.259	.125 - .156
.624	.260	.005 - .010
.624	.261	.030 - .075
.624	.264	.005 - .015
.624	.265	.040 - .050
.624	.266	.015 - .100
.624	.268	.015 - .104
.624	.271	.025 - .040
.624	.273	.060 - .070
.624	.279	.060 - .080
.624	.280	.030 - .060
.624	.281	.120 - .134
.624	.283	.025 - .060
.624	.284	.005 - .040
.624	.290	.090 - .100
.624	.293	.005 - .040
.624	.298	.015 - .030
.624	.299	.020 - .050
.624	.301	.005 - .010
.624	.302	.050 - .070
.624	.311	.042 - .062
.624	.312	.005 - .125
.624	.314	.005 - .030
.624	.315	.025 - .040
.624	.316	.040 - .060
.624	.317	.060 - .075
.624	.320	.025 - .035
.624	.321	.015 - .070
.624	.322	.045 - .075
.624	.323	.060 - .075
.624	.324	.005 - .010
.624	.327	.070 - .080
.624	.328	.005 - .125
.624	.329	.020 - .030
.624	.330	.025 - .040
.624	.331	.005 - .010
.624	.336	.090 - .120
.624	.343	.005 - .134
.624	.348	.080 - .104
.624	.349	.083 - .104
.624	.356	.042 - .062
.624	.372	.030 - .050
.624	.375	.005 - .120
.624	.376	.005 - .010
.624	.377	.005 - .010
.624	.378	.015 - .080
.624	.379	.005 - .010
.624	.380	.025 - .060
.624	.381	.100 - .125
.624	.382	.030 - .120
.624	.385	.005 - .010
.624	.386	.032 - .048
.624	.390	.015 - .062
.624	.392	.020 - .042
.624	.393	.010 - .020
.624	.394	.020 - .040
.624	.396	.020 - .030
.624	.397	.090 - .120
.624	.398	.005 - .010
.624	.399	.050 - .075
.624	.400	.025 - .040
.624	.401	.070 - .090
.624	.402	.005 - .015
.624	.406	.060 - .075
.624	.415	.005 - .012
.624	.425	.020 - .035
.624	.437	.040 - .060
.624	.440	.005 - .105
.624	.441	.005 - .010
.624	.442	.005 - .010
.624	.445	.060 - .075
.624	.449	.070 - .090
.624	.453	.020 - .030
.624	.455	.020 - .030
.624	.456	.030 - .070
.624	.457	.010 - .040
.624	.458	.010 - .020
.624	.476	.040 - .060
.624	.479	.010 - .050
.624	.485	.005 - .008
.624	.500	.032 - .060
.624	.501	.020 - .030
.624	.506	.030 - .050
.624	.520	.040 - .050
.624	.532	.020 - .030
.624	.570	.015 - .030
.624	.096	.015 - .025
.624	.100	.015 - .030
.624	.104	.005 - .010
.624	.113	.030 - .050
.624	.129	.005 - .130
.624	.133	.030 - .060
.624	.156	.020 - .035
.624	.193	.020 - .075
.624	.198	.025 - .040
.624	.202	.005 - .010
.624	.204	.030 - .156
.624	.207	.050 - .070
.624	.217	.100 - .125
.624	.229	.005 - .010
.624	.253	.060 - .080
.624	.257	.015 - .030
.624	.262	.100 - .125
.624	.268	.020 - .060
.624	.277	.020 - .040
.624	.281	.005 - .020
.624	.282	.020 - .040
.624	.312	.035 - .050
.624	.314	.005 - .015
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.624	.324	.005 - .010
.624	.326	.020 - .030
.624	.339	.100 - .125
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.624	.377	.005 - .010
.624	.379	.005 - .010
.624	.381	.005 - .010
.624	.386	.005 - .075
.624	.392	.005 - .010
.624	.394	.015 - .030
.624	.408	.090 - .105
.624	.409	.020 - .030
.624	.422	.070 - .090
.624	.442	.005 - .025
.624	.445	.020 - .040
.624	.468	.005 - .010
.624	.470	.005 - .010
.624	.478	.005 - .010
.624	.495	.040 - .060
.624	.499	.010 - .020
.624	.501	.010 - .020
.624	.504	.010 - .020
.624	.505	.005 - .010
.624	.507	.005 - .030
.624	.510	.010 - .025
.624	.528	.025 - .040
.624	.564	.005 - .010
.624	.566	.010 - .020
.624	.036	.025 - .035
.624	.058	.020 - .032
.624	.125	.020 - .040
.624	.129	.025 - .040
.624	.133	.040 - .060
.624	.166	.005 - .010
.624	.196	.050 - .070
.624	.198	.010 - .025
.624	.236	.100 - .125
.624	.248	.100 - .125
.624	.253	.005 - .010
.624	.265	.050 - .070
.624	.266	.030 - .050
.624	.280	.100 - .125
.624	.281	.100 - .120
.624	.283	.030 - .048
.624	.285	.042 - .062
.624	.313	.090 - .120
.624	.314	.015 - .030
.624	.323	.105 - .125
.624	.334	.100 - .125
.624	.335	.100 - .125
.624	.344	.050 - .125
.624	.349	.080 - .104
.624	.375	.005 - .010
.624	.376	.080 - .104
.624	.378	.030 - .050
.624	.379	.030 - .050
.624	.380	.050 - .070
.624	.385	.083 - .120
.624	.389	.005 - .010
.624	.392	.005 - .010
.624	.406	.050 - .090
.624	.442	.005 - .010
.624	.475	.020 - .030
.624	.486	.012 - .025
.624	.505	.050 - .070
.624	.510	.005 - .040
.624	.527	.005 - .010
.624	.547	.007 - .012
.624	.096	.030 - .050
.624	.125	.005 - .010
.624	.166	.050 - .070
.624	.191	.040 - .060
.624	.198	.005 - .010
.624	.201	.040 - .060
.624	.208	.020 - .040
.624	.232	.030 - .050
.624	.238	.050 - .070
.624	.261	.040 - .060
.624	.271	.005 - .010
.624	.287	.090 - .105
.624	.331	.105 - .120
.624	.375	.060 - .083
.624	.477	.005 - .010
.624	.483	.030 - .050
.624	.510	.010 - .020
.624	.511	.040 - .060
.624	.555	.020 - .030
.624	.095	.062 - .078
.624	.149	.015 - .030
.624	.177	.005 - .010
.624	.226	.005 - .010
.624	.290	.050 - .083
.624	.292	.042 - .060
.624	.316	.005 - .010
.624	.319	.005 - .010
.624	.344	.005 - .010
.624	.351

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

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
.630	.401	.015 - .030	.635	.376	.005 - .010	.642	.449	.005 - .010	.650	.212	.005 - .010	.655	.125	.040 - .060	.660	.225	.040 - .060
.630	.403	.005 - .010	.635	.410	.005 - .010	.642	.477	.070 - .090	.650	.236	.005 - .010	.655	.142	.015 - .030	.660	.251	.005 - .010
.630	.404	.005 - .010	.635	.443	.020 - .030	.642	.482	.020 - .040	.650	.250	.020 - .030	.655	.167	.030 - .050	.660	.261	.005 - .010
.630	.415	.080 - .105	.635	.470	.030 - .042	.642	.536	.007 - .012	.650	.260	.042 - .060	.655	.191	.010 - .020	.660	.268	.050 - .072
.630	.417	.050 - .070	.635	.531	.025 - .040	.643	.169	.005 - .010	.650	.260	.130 - .150	.655	.223	.080 - .100	.660	.313	.020 - .030
.630	.427	.005 - .010	.636	.179	.008 - .015	.643	.174	.005 - .010	.650	.290	.015 - .030	.655	.256	.020 - .040	.660	.314	.005 - .010
.630	.440	.070 - .090	.636	.212	.005 - .010	.643	.256	.010 - .020	.650	.311	.075 - .090	.655	.318	.005 - .010	.660	.345	.015 - .030
.630	.443	.070 - .090	.636	.275	.005 - .010	.643	.322	.015 - .030	.650	.312	.005 - .120	.655	.378	.030 - .090	.660	.350	.050 - .070
.630	.461	.015 - .030	.636	.381	.015 - .030	.643	.370	.005 - .010	.650	.315	.010 - .020	.655	.379	.010 - .020	.660	.366	.020 - .030
.630	.475	.010 - .020	.636	.384	.005 - .010	.643	.502	.005 - .010	.650	.316	.005 - .010	.655	.381	.020 - .030	.660	.378	.020 - .030
.630	.479	.040 - .050	.636	.393	.020 - .030	.643	.503	.015 - .030	.650	.317	.005 - .010	.655	.419	.005 - .010	.660	.390	.040 - .060
.630	.499	.005 - .010	.636	.410	.005 - .015	.643	.530	.005 - .010	.650	.319	.005 - .010	.655	.421	.050 - .070	.660	.401	.020 - .030
.630	.500	.015 - .030	.636	.454	.015 - .030	.644	.171	.005 - .010	.650	.325	.050 - .075	.655	.465	.005 - .010	.660	.409	.040 - .060
.630	.502	.015 - .030	.636	.565	.005 - .010	.644	.257	.050 - .070	.650	.326	.005 - .010	.655	.488	.005 - .010	.660	.437	.005 - .020
.630	.518	.010 - .020	.637	.244	.020 - .040	.644	.316	.020 - .035	.650	.357	.015 - .030	.655	.512	.015 - .025	.660	.472	.005 - .010
.630	.534	.005 - .010	.637	.356	.005 - .010	.644	.346	.015 - .030	.650	.374	.015 - .030	.655	.525	.040 - .060	.660	.507	.005 - .010
.630	.554	.005 - .010	.637	.381	.025 - .040	.644	.396	.025 - .040	.650	.377	.005 - .030	.655	.528	.005 - .010	.660	.512	.005 - .010
.630	.558	.005 - .020	.637	.399	.105 - .125	.644	.454	.025 - .040	.650	.380	.050 - .070	.655	.530	.005 - .010	.660	.563	.005 - .010
.631	.150	.040 - .060	.637	.425	.012 - .020	.644	.477	.020 - .030	.650	.388	.070 - .090	.656	.118	.030 - .050	.660	.577	.020 - .030
.631	.154	.050 - .070	.637	.520	.005 - .010	.644	.503	.020 - .040	.650	.397	.005 - .010	.656	.190	.075 - .090	.661	.241	.005 - .010
.631	.238	.005 - .010	.638	.156	.032 - .048	.644	.531	.030 - .050	.650	.404	.040 - .060	.656	.195	.050 - .075	.661	.270	.060 - .080
.631	.240	.010 - .020	.638	.263	.040 - .060	.645	.152	.030 - .050	.650	.410	.080 - .090	.656	.196	.020 - .040	.661	.336	.020 - .040
.631	.315	.015 - .030	.638	.338	.020 - .040	.645	.170	.035 - .050	.650	.424	.005 - .010	.656	.258	.030 - .050	.661	.341	.005 - .010
.631	.316	.005 - .010	.638	.410	.020 - .040	.645	.214	.010 - .020	.650	.469	.050 - .070	.656	.267	.050 - .075	.661	.403	.040 - .060
.631	.318	.005 - .010	.638	.506	.025 - .040	.645	.316	.020 - .032	.650	.500	.005 - .010	.656	.278	.005 - .010	.661	.487	.040 - .060
.631	.319	.005 - .010	.639	.199	.060 - .080	.645	.347	.025 - .040	.650	.503	.015 - .030	.656	.290	.070 - .090	.661	.529	.015 - .025
.631	.320	.005 - .010	.639	.322	.005 - .010	.645	.393	.050 - .062	.650	.505	.020 - .030	.656	.320	.025 - .040	.661	.531	.010 - .020
.631	.374	.105 - .125	.639	.325	.010 - .020	.645	.434	.032 - .048	.650	.507	.010 - .020	.656	.341	.030 - .050	.661	.551	.005 - .010
.631	.378	.060 - .080	.639	.394	.020 - .040	.645	.441	.060 - .080	.650	.534	.025 - .040	.656	.345	.005 - .010	.661	.583	.005 - .010
.631	.386	.060 - .080	.639	.415	.025 - .040	.645	.470	.005 - .010	.650	.553	.010 - .020	.656	.377	.015 - .030	.662	.201	.050 - .070
.631	.387	.010 - .020	.639	.438	.030 - .050	.645	.510	.005 - .010	.650	.562	.005 - .010	.656	.387	.030 - .050	.662	.219	.050 - .070
.631	.396	.005 - .010	.639	.439	.040 - .050	.645	.518	.040 - .060	.651	.147	.042 - .060	.656	.397	.015 - .025	.662	.324	.010 - .020
.631	.399	.010 - .020	.639	.453	.005 - .010	.646	.204	.060 - .070	.651	.160	.020 - .030	.656	.404	.080 - .104	.662	.386	.020 - .040
.631	.403	.060 - .080	.639	.524	.025 - .035	.646	.210	.060 - .110	.651	.229	.005 - .010	.656	.406	.090 - .125	.662	.393	.040 - .060
.631	.411	.020 - .030	.639	.550	.005 - .010	.646	.255	.020 - .030	.651	.315	.010 - .020	.656	.453	.005 - .040	.662	.432	.060 - .080
.631	.437	.005 - .010	.639	.576	.015 - .030	.646	.257	.005 - .010	.651	.374	.010 - .020	.656	.458	.040 - .060	.662	.461	.030 - .050
.631	.452	.060 - .080	.640	.036	.015 - .030	.646	.273	.020 - .035	.651	.377	.030 - .050	.656	.460	.025 - .035	.662	.477	.010 - .020
.631	.521	.040 - .060	.640	.073	.025 - .040	.646	.316	.005 - .012	.651	.379	.005 - .010	.656	.470	.035 - .050	.662	.487	.060 - .070
.632	.160	.030 - .040	.640	.168	.025 - .040	.646	.344	.020 - .030	.651	.380	.015 - .030	.656	.489	.005 - .010	.662	.553	.010 - .020
.632	.239	.005 - .010	.640	.175	.025 - .042	.646	.393	.090 - .105	.651	.394	.005 - .010	.656	.500	.030 - .050	.663	.140	.005 - .010
.632	.253	.015 - .030	.640	.186	.030 - .050	.646	.409	.005 - .010	.651	.398	.005 - .010	.656	.503	.010 - .020	.663	.457	.050 - .070
.632	.261	.020 - .040	.640	.251	.020 - .040	.646	.447	.005 - .010	.651	.450	.010 - .020	.656	.510	.005 - .010	.663	.504	.005 - .010
.632	.285	.005 - .010	.640	.256	.005 - .010	.646	.539	.005 - .010	.651	.460	.005 - .010	.656	.511	.005 - .030	.663	.556	.010 - .020
.632	.317	.005 - .010	.640	.299	.005 - .010	.647	.131	.005 - .010	.651	.465	.010 - .020	.656	.515	.015 - .030	.663	.560	.010 - .020
.632	.320	.005 - .010	.640	.334	.005 - .010	.647	.191	.030 - .050	.651	.485	.040 - .060	.656	.528	.015 - .030	.664	.256	.100 - .125
.632	.357	.005 - .010	.640	.342	.040 - .060	.647	.283	.030 - .050	.651	.505	.005 - .010	.656	.563	.020 - .040	.664	.259	.005 - .125
.632	.359	.025 - .040	.640	.361	.030 - .050	.647	.355	.010 - .020	.651	.551	.005 - .030	.656	.565	.010 - .020	.664	.413	.030 - .050
.632	.387	.020 - .060	.640	.377	.030 - .040	.647	.381	.105 - .125	.652	.096	.062 - .078	.657	.216	.060 - .080	.664	.503	.025 - .050
.632	.426	.070 - .090	.640	.390	.050 - .075	.647	.407	.030 - .050	.652	.118	.062 - .090	.657	.250	.080 - .105	.664	.541	.040 - .060
.632	.475	.040 - .060	.640	.400	.005 - .010	.647	.472	.015 - .030	.652	.193	.030 - .050	.657	.255	.015 - .030	.664	.585	.015 - .030
.632	.480	.005 - .072	.640	.406	.005 - .010	.647	.492	.005 - .010	.652	.258	.060 - .080	.657	.330	.075 - .100	.665	.173	.050 - .075
.632	.547	.010 - .020	.640	.429	.012 - .020	.648	.093	.005 - .010	.652	.376	.005 - .010	.657	.338	.105 - .125	.665	.249	.030 - .050
.633	.119	.005 - .010	.640	.441	.010 - .020	.648	.144	.020 - .040	.652	.400	.010 - .020	.657	.363	.005 - .010	.665	.251	.075 - .090
.633	.172	.015 - .035	.640	.443	.025 - .040	.648	.202	.008 - .015	.652	.406	.015 - .030	.657	.375	.005 - .010	.665	.334	.050 - .130
.633	.256	.060 - .080	.640	.444	.015 - .030	.648	.209	.015 - .030	.652	.412	.005 - .010	.657	.413	.005 - .010	.665	.374	.120 - .140
.633	.267	.032 - .050	.640	.446	.015 - .030	.648	.250	.050 - .070	.652	.435	.005 - .010	.657	.417	.005 - .010	.665	.383	.040 - .060
.633	.282	.080 - .100	.640	.451	.080 - .090	.648	.266	.005 - .010	.652	.439	.020 - .040	.657	.530	.020 - .040	.665	.397	.070 - .090
.633	.346	.060 - .080	.640	.460	.050 - .060	.648	.298	.050 - .075	.652	.453	.005 - .010	.657	.531	.040 - .060	.665	.434	.040 - .060
.633	.377	.075 - .090	.640	.485	.020 - .040	.648	.382	.005 - .012	.652	.501	.030 - .042	.657	.538	.040 - .060	.665	.515	.025 - .040
.633	.439	.030 - .050	.640	.489	.040 - .060	.648	.490	.010 - .020	.652	.510	.010 - .020	.657	.613	.016 - .025	.665	.550	.005 - .012
.633	.472	.010 - .020	.640	.501	.015 - .048	.648	.493	.015 - .030	.653	.154	.040 - .062	.658	.255	.010 - .020	.665	.569	.020 - .040
.633	.501	.030 - .050	.640	.508	.015 - .030	.648	.521	.005 - .010	.653	.238	.040 - .062	.658	.314	.030 - .050	.665	.576	.030 - .048
.633	.551	.015 - .030	.640	.540	.005 - .010	.648	.551	.005 - .010	.653	.316	.010 - .020	.658	.375	.010 - .020	.666	.143	.015 - .030
.634	.116	.032 - .042	.640	.576	.020 - .030	.649	.126	.020 - .050	.653	.317	.005 - .010	.658	.385	.050 - .060	.666	.168	.075 - .090
.634	.155	.050 - .070	.640	.579	.005 - .010	.649	.201	.090 - .100	.653	.376	.010 - .020	.658	.437	.005 - .012	.666	.196	.020 - .040
.634	.194	.015 - .025	.641	.125	.005 - .010	.649	.203	.025 - .040	.653	.392	.050 - .090	.658	.478	.015 - .025	.666	.256	.075 - .090
.634	.330	.005 - .010	.641	.243	.020 - .090	.649	.266	.125 - .135	.653	.414	.050 - .070	.658	.479	.030 - .042	.666	.267	.040 - .062
.634	.354	.010 - .030	.641	.265	.005 - .060	.649	.281	.005 - .020	.653	.442	.005 - .010	.658	.511	.030 - .070	.666	.430	.020 - .030
.634	.394	.005 - .010	.641	.308	.005 - .010	.649	.286	.070 - .090	.653	.542	.005 - .010	.658	.572	.005 - .010	.666	.453	.015 - .025
.634	.459	.020 - .030	.641	.320	.010 - .025	.649	.338	.030 - .050	.654	.142	.040 - .060	.659	.125	.015 - .025	.666	.475	.020 - .040
.634	.477	.008 - .016	.641	.332	.015 - .030	.649	.452	.005 - .010	.654	.267	.030 - .050	.659	.256	.100 - .120	.666	.478	.030 - .050
.634	.478	.005 - .010	.641	.368	.020 - .040	.649	.522	.005 - .010	.654	.270	.005 - .010	.659	.265	.020 - .035	.666	.537	.005 - .010
.634	.512	.010 - .020	.641	.470	.010 - .020	.649	.562	.005 - .010	.654	.276	.010 - .020	.659	.288	.050 - .070	.666	.564	.010 - .020
.635	.167	.015 - .035	.641	.475	.005 - .010	.649	.583	.005 - .010	.654	.363	.050 - .075	.659	.299	.050 - .070	.666	.579	.005 - .010
.635	.179	.010 - .015	.641	.501	.031 - .048	.650	.056	.005 - .010	.654	.389	.015 - .040	.659	.313	.020 - .040	.667	.213	.012 - .020
.635	.200	.025 - .040	.641	.522	.020 - .030	.650	.062	.020 - .040	.654	.480	.010 - .020	.659	.335	.060 - .075	.667	.270	.025 - .040
.635	.204	.010 - .020	.641	.533	.030 - .060	.650	.076	.005 - .010	.654	.510	.025 - .040	.659	.381	.090 - .100	.667	.275	.025 - .042
.635	.312	.035 - .050	.642	.153	.030 - .050	.650	.118	.010 - .030	.654	.564	.005 - .012	.659	.501	.015 - .030	.667	.319	.042 - .062
.635	.356	.010 - .020	.642	.254	.015 - .030	.650	.161	.005 - .015	.654	.574	.015 - .025	.660	.125	.020 - .030	.667	.336	.005 - .010
.635	.375	.032 - .042	.642	.411	.005 - .010	.650	.162	.040 - .060	.655	.124	.015 - .030	.660	.213	.070 - .090	.667	.347	.015 - .030

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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
.667	.496	.005 - .010	.670	.574	.030 - .050	.677	.168	.020 - .030	.681	.395	.005 - .050	.685	.473	.060 - .080	.687	.393	.005 - .015
.667	.595	.005 - .010	.671	.200	.025 - .042	.677	.316	.040 - .060	.681	.401	.020 - .040	.685	.475	.020 - .040	.687	.397	.050 - .075
.668	.218	.060 - .080	.671	.239	.005 - .010	.677	.382	.005 - .010	.681	.440	.005 - .010	.685	.478	.015 - .030	.687	.406	.040 - .050
.668	.316	.005 - .010	.671	.264	.005 - .010	.677	.387	.005 - .010	.681	.503	.015 - .030	.685	.487	.020 - .030	.687	.416	.050 - .060
.668	.317	.005 - .010	.671	.311	.078 - .090	.677	.441	.060 - .080	.681	.515	.005 - .010	.685	.520	.010 - .020	.687	.432	.050 - .070
.668	.333	.005 - .010	.671	.315	.005 - .010	.677	.458	.025 - .040	.681	.590	.010 - .020	.685	.533	.060 - .083	.687	.433	.050 - .125
.668	.333	.050 - .075	.671	.316	.015 - .030	.677	.468	.010 - .020	.682	.129	.015 - .025	.685	.568	.030 - .050	.687	.438	.005 - .020
.668	.340	.035 - .050	.671	.319	.005 - .010	.677	.476	.040 - .060	.682	.333	.070 - .090	.685	.609	.010 - .030	.687	.441	.020 - .070
.668	.348	.010 - .015	.671	.322	.005 - .010	.677	.523	.005 - .010	.682	.351	.050 - .070	.686	.066	.036 - .050	.687	.443	.030 - .125
.668	.406	.040 - .060	.671	.325	.015 - .030	.677	.525	.005 - .010	.682	.365	.005 - .010	.686	.094	.005 - .010	.687	.445	.012 - .020
.668	.435	.020 - .030	.671	.333	.010 - .020	.677	.534	.005 - .010	.682	.395	.005 - .010	.686	.135	.030 - .050	.687	.452	.010 - .020
.668	.472	.010 - .020	.671	.345	.020 - .040	.677	.534	.015 - .030	.682	.400	.032 - .048	.686	.136	.040 - .060	.687	.455	.050 - .100
.669	.031	.005 - .010	.671	.385	.070 - .090	.678	.193	.060 - .090	.682	.439	.025 - .040	.686	.147	.015 - .025	.687	.465	.080 - .100
.669	.114	.005 - .010	.671	.386	.100 - .125	.678	.256	.035 - .060	.682	.440	.020 - .030	.686	.159	.080 - .100	.687	.468	.040 - .060
.669	.138	.005 - .010	.671	.391	.005 - .075	.678	.384	.020 - .032	.682	.472	.062 - .078	.686	.161	.005 - .010	.687	.469	.050 - .080
.669	.163	.005 - .010	.671	.395	.020 - .030	.678	.405	.010 - .030	.682	.486	.005 - .010	.686	.167	.040 - .135	.687	.475	.015 - .030
.669	.200	.005 - .010	.671	.474	.005 - .010	.678	.440	.005 - .010	.682	.503	.005 - .010	.686	.198	.042 - .060	.687	.481	.050 - .070
.669	.204	.020 - .060	.671	.507	.008 - .015	.678	.442	.012 - .020	.682	.578	.015 - .030	.686	.202	.100 - .125	.687	.487	.025 - .040
.669	.237	.005 - .010	.671	.568	.010 - .020	.678	.449	.040 - .060	.682	.601	.020 - .030	.686	.252	.040 - .060	.687	.500	.010 - .050
.669	.316	.005 - .010	.672	.128	.100 - .125	.678	.504	.015 - .030	.683	.121	.050 - .070	.686	.253	.042 - .062	.687	.503	.005 - .010
.669	.317	.075 - .105	.672	.325	.015 - .030	.678	.507	.005 - .010	.683	.172	.010 - .025	.686	.269	.050 - .072	.687	.506	.005 - .010
.669	.319	.005 - .020	.672	.326	.080 - .125	.678	.529	.005 - .007	.683	.345	.070 - .090	.686	.270	.005 - .010	.687	.510	.050 - .060
.669	.320	.010 - .040	.672	.346	.005 - .010	.678	.530	.015 - .030	.683	.376	.005 - .010	.686	.313	.100 - .120	.687	.511	.020 - .040
.669	.331	.050 - .070	.672	.362	.005 - .010	.678	.564	.035 - .050	.683	.378	.015 - .030	.686	.345	.060 - .080	.687	.513	.042 - .062
.669	.338	.080 - .100	.672	.375	.005 - .010	.678	.568	.010 - .020	.683	.379	.040 - .060	.686	.346	.025 - .035	.687	.517	.030 - .048
.669	.397	.005 - .010	.672	.405	.110 - .130	.678	.591	.005 - .010	.683	.396	.070 - .090	.686	.360	.015 - .025	.687	.564	.005 - .010
.669	.427	.030 - .050	.672	.407	.010 - .020	.678	.593	.005 - .010	.683	.400	.032 - .042	.686	.377	.060 - .080	.687	.566	.005 - .015
.669	.430	.010 - .020	.672	.415	.005 - .010	.678	.606	.005 - .010	.683	.406	.040 - .105	.686	.379	.025 - .040	.687	.603	.005 - .010
.669	.434	.070 - .090	.672	.442	.030 - .040	.679	.111	.048 - .062	.683	.440	.015 - .030	.686	.381	.080 - .105	.688	.130	.050 - .060
.669	.472	.030 - .050	.672	.445	.025 - .060	.679	.206	.035 - .060	.683	.478	.025 - .035	.686	.385	.048 - .062	.688	.168	.050 - .060
.669	.487	.006 - .015	.672	.490	.050 - .070	.679	.221	.010 - .015	.683	.488	.080 - .104	.686	.390	.048 - .062	.688	.205	.025 - .040
.669	.515	.005 - .010	.672	.531	.030 - .040	.679	.395	.030 - .050	.683	.505	.050 - .070	.686	.392	.050 - .062	.688	.206	.040 - .060
.669	.543	.015 - .030	.673	.098	.020 - .040	.679	.396	.015 - .030	.683	.510	.030 - .062	.686	.395	.010 - .020	.688	.216	.050 - .070
.669	.550	.015 - .030	.673	.283	.005 - .010	.679	.403	.050 - .075	.683	.512	.005 - .010	.686	.398	.005 - .010	.688	.253	.010 - .020
.669	.552	.005 - .010	.673	.408	.005 - .010	.679	.409	.040 - .050	.683	.570	.040 - .050	.686	.407	.050 - .070	.688	.259	.040 - .060
.670	.121	.060 - .080	.673	.412	.100 - .134	.679	.411	.005 - .010	.683	.575	.040 - .060	.686	.421	.005 - .010	.688	.263	.005 - .190
.670	.123	.005 - .010	.673	.437	.010 - .025	.679	.441	.030 - .050	.683	.579	.015 - .025	.686	.437	.015 - .030	.688	.284	.005 - .010
.670	.130	.005 - .010	.673	.446	.005 - .010	.679	.451	.005 - .010	.684	.234	.062 - .078	.686	.438	.050 - .075	.688	.311	.010 - .040
.670	.168	.040 - .060	.673	.473	.010 - .025	.679	.457	.030 - .060	.684	.247	.050 - .075	.686	.483	.050 - .075	.688	.313	.020 - .140
.670	.169	.040 - .060	.673	.500	.020 - .036	.679	.482	.015 - .062	.684	.279	.005 - .010	.686	.500	.030 - .070	.688	.316	.005 - .010
.670	.178	.030 - .040	.673	.537	.005 - .010	.679	.500	.005 - .010	.684	.303	.005 - .010	.686	.502	.025 - .042	.688	.317	.005 - .010
.670	.190	.015 - .032	.674	.095	.010 - .020	.679	.501	.015 - .030	.684	.323	.020 - .040	.686	.512	.005 - .010	.688	.326	.015 - .030
.670	.208	.005 - .010	.674	.377	.025 - .040	.679	.509	.005 - .010	.684	.399	.005 - .010	.686	.520	.015 - .030	.688	.328	.080 - .105
.670	.234	.005 - .010	.674	.391	.005 - .010	.680	.163	.005 - .010	.684	.400	.015 - .030	.686	.528	.005 - .010	.688	.330	.030 - .050
.670	.237	.005 - .010	.674	.395	.005 - .010	.680	.200	.032 - .050	.684	.412	.100 - .125	.686	.625	.015 - .030	.688	.334	.005 - .010
.670	.239	.005 - .010	.674	.441	.005 - .080	.680	.239	.005 - .010	.684	.443	.005 - .012	.687	.102	.005 - .010	.688	.343	.070 - .090
.670	.240	.005 - .010	.674	.450	.040 - .060	.680	.253	.005 - .030	.684	.466	.090 - .100	.687	.119	.015 - .030	.688	.344	.070 - .090
.670	.245	.020 - .030	.674	.473	.025 - .040	.680	.256	.040 - .060	.684	.510	.050 - .070	.687	.187	.030 - .050	.688	.349	.005 - .010
.670	.253	.005 - .010	.674	.480	.070 - .090	.680	.262	.005 - .010	.684	.542	.035 - .050	.687	.189	.010 - .060	.688	.350	.050 - .070
.670	.257	.040 - .125	.674	.504	.075 - .090	.680	.270	.015 - .035	.684	.568	.025 - .045	.687	.191	.005 - .010	.688	.352	.050 - .070
.670	.260	.020 - .030	.674	.536	.040 - .060	.680	.283	.080 - .105	.684	.581	.015 - .025	.687	.194	.125 - .156	.688	.376	.005 - .042
.670	.280	.010 - .020	.674	.562	.020 - .030	.680	.300	.032 - .050	.684	.593	.030 - .040	.687	.198	.090 - .105	.688	.378	.050 - .075
.670	.300	.005 - .010	.675	.095	.005 - .010	.680	.316	.048 - .062	.684	.613	.015 - .030	.687	.199	.015 - .020	.688	.384	.050 - .070
.670	.315	.005 - .010	.675	.203	.020 - .040	.680	.317	.030 - .040	.685	.143	.040 - .060	.687	.200	.032 - .042	.688	.386	.050 - .070
.670	.317	.005 - .010	.675	.224	.005 - .010	.680	.325	.005 - .050	.685	.158	.060 - .083	.687	.219	.036 - .050	.688	.391	.105 - .125
.670	.319	.050 - .070	.675	.280	.060 - .090	.680	.326	.070 - .090	.685	.225	.005 - .010	.687	.221	.020 - .062	.688	.393	.075 - .090
.670	.330	.050 - .075	.675	.284	.032 - .050	.680	.330	.015 - .030	.685	.233	.010 - .020	.687	.234	.005 - .010	.688	.407	.005 - .010
.670	.331	.005 - .010	.675	.301	.050 - .105	.680	.369	.050 - .075	.685	.254	.010 - .075	.687	.237	.005 - .010	.688	.452	.030 - .050
.670	.350	.020 - .100	.675	.375	.010 - .020	.680	.375	.040 - .060	.685	.263	.010 - .015	.687	.257	.080 - .090	.688	.464	.080 - .100
.670	.354	.105 - .125	.675	.386	.040 - .060	.680	.422	.005 - .015	.685	.264	.005 - .010	.687	.259	.005 - .010	.688	.468	.020 - .040
.670	.355	.005 - .010	.675	.400	.010 - .040	.680	.442	.040 - .060	.685	.269	.050 - .070	.687	.267	.030 - .048	.688	.469	.015 - .030
.670	.360	.040 - .050	.675	.416	.015 - .030	.680	.445	.005 - .010	.685	.325	.090 - .120	.687	.296	.050 - .075	.688	.505	.060 - .080
.670	.365	.060 - .080	.675	.435	.070 - .090	.680	.447	.010 - .020	.685	.344	.040 - .060	.687	.306	.040 - .060	.688	.513	.050 - .075
.670	.378	.060 - .080	.675	.440	.005 - .010	.680	.470	.005 - .010	.685	.346	.070 - .105	.687	.312	.120 - .156	.688	.518	.005 - .010
.670	.382	.030 - .060	.675	.442	.005 - .010	.680	.476	.030 - .050	.685	.366	.105 - .125	.687	.316	.036 - .048	.688	.538	.015 - .040
.670	.385	.010 - .020	.675	.447	.080 - .100	.680	.485	.050 - .060	.685	.371	.100 - .125	.687	.323	.048 - .062	.688	.563	.005 - .010
.670	.398	.040 - .060	.675	.458	.005 - .040	.680	.500	.032 - .050	.685	.375	.032 - .062	.687	.328	.005 - .012	.688	.615	.015 - .030
.670	.401	.015 - .030	.675	.460	.010 - .020	.680	.504	.020 - .040	.685	.376	.100 - .125	.687	.330	.050 - .075	.689	.156	.040 - .060
.670	.406	.005 - .010	.675	.480	.005 - .060	.680	.514	.020 - .040	.685	.378	.080 - .100	.687	.339	.050 - .070	.689	.162	.100 - .120
.670	.421	.005 - .010	.675	.500	.040 - .060	.680	.514	.040 - .060	.685	.379	.010 - .048	.687	.343	.005 - .010	.689	.222	.090 - .120
.670	.439	.005 - .010	.675	.504	.005 - .010	.680	.524	.030 - .050	.685	.380	.025 - .060	.687	.350	.050 - .075	.689	.249	.005 - .010
.670	.474	.070 - .090	.675	.515	.025 - .048	.680	.540	.005 - .010	.685	.391	.090 - .110	.687	.359	.025 - .048	.689	.273	.005 - .010
.670	.480	.010 - .020	.675	.582	.005 - .010	.680	.559	.005 - .010	.685	.392	.090 - .110	.687	.371	.100 - .125	.689	.281	.050 - .070
.670	.481	.040 - .060	.676	.288	.010 - .025	.680	.564	.030 - .050	.685	.400	.105 - .125	.687	.376	.010 - .020	.689	.313	.020 - .040
.670	.490	.005 - .010	.676	.306	.050 - .070	.680	.565	.005 - .050	.685	.410	.060 - .078	.687	.378	.010 - .020	.689	.319	.025 - .040
.670	.495	.040 - .062	.676	.370	.070 - .080	.680	.597	.005 - .010	.685	.423	.100 - .125	.687	.379	.005 - .010	.689	.320	.005 - .010
.670	.503	.020 - .040	.676	.440	.005 - .010	.681	.190	.030 - .050	.685	.427	.032 - .042	.687	.380	.025 - .040	.689	.325	.040 - .060
.670	.520	.020 - .040	.676	.500	.025 - .042	.681	.251	.050 - .070	.685	.441	.005 - .010	.687	.384	.010 - .040	.689	.345	.040 - .060
.670	.545	.005 - .010	.676	.515	.020 - .030	.681	.264	.030 - .050	.685	.450	.008 - .020	.687	.385	.005 - .010	.689	.375	.010 - .020
.670	.566	.015 - .030	.676	.565	.020 - .040	.681	.391	.005 - .010	.685	.470	.050 - .070	.687	.386	.070 - .090	.689	.377	.050 - .070

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

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

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

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
.689	.398	.005 - .010	.694	.275	.020 - .040	.700	.328	.010 - .025	.701	.561	.010 - .020	.708	.170	.040 - .060	.710	.236	.005 - .010
.689	.401	.015 - .030	.694	.370	.010 - .020	.700	.330	.100 - .125	.701	.614	.015 - .030	.708	.218	.005 - .030	.710	.238	.005 - .010
.689	.402	.032 - .048	.694	.379	.060 - .070	.700	.337	.050 - .070	.702	.261	.100 - .120	.708	.236	.030 - .050	.710	.252	.008 - .016
.689	.408	.100 - .125	.694	.478	.060 - .070	.700	.344	.007 - .020	.702	.312	.010 - .020	.708	.238	.005 - .010	.710	.278	.005 - .010
.689	.435	.005 - .010	.694	.484	.050 - .070	.700	.356	.005 - .010	.702	.319	.020 - .030	.708	.239	.030 - .050	.710	.279	.005 - .010
.689	.437	.005 - .010	.695	.195	.015 - .025	.700	.357	.010 - .020	.702	.325	.005 - .010	.708	.253	.040 - .060	.710	.288	.015 - .125
.689	.468	.015 - .125	.695	.196	.032 - .062	.700	.358	.040 - .060	.702	.327	.105 - .125	.708	.257	.050 - .070	.710	.301	.010 - .020
.689	.471	.005 - .010	.695	.264	.005 - .012	.700	.360	.030 - .050	.702	.401	.025 - .040	.708	.271	.105 - .120	.710	.308	.100 - .120
.689	.472	.030 - .050	.695	.265	.030 - .060	.700	.366	.090 - .105	.702	.437	.090 - .105	.708	.279	.060 - .080	.710	.315	.005 - .010
.689	.493	.040 - .060	.695	.282	.005 - .010	.700	.376	.010 - .020	.702	.487	.050 - .070	.708	.293	.050 - .070	.710	.317	.005 - .010
.689	.494	.050 - .075	.695	.335	.025 - .040	.700	.377	.020 - .040	.702	.504	.012 - .025	.708	.305	.005 - .010	.710	.318	.010 - .015
.689	.500	.005 - .010	.695	.353	.010 - .020	.700	.378	.005 - .030	.702	.505	.005 - .010	.708	.315	.005 - .010	.710	.330	.010 - .020
.689	.517	.030 - .050	.695	.412	.080 - .104	.700	.380	.040 - .060	.702	.516	.050 - .075	.708	.319	.005 - .070	.710	.342	.020 - .030
.689	.564	.010 - .030	.695	.414	.012 - .025	.700	.381	.005 - .010	.702	.561	.015 - .030	.708	.322	.005 - .010	.710	.354	.008 - .020
.689	.565	.010 - .020	.695	.486	.060 - .070	.700	.383	.040 - .060	.702	.595	.025 - .040	.708	.335	.020 - .030	.710	.376	.020 - .040
.689	.577	.030 - .050	.695	.518	.030 - .040	.700	.385	.090 - .105	.703	.119	.030 - .050	.708	.338	.005 - .010	.710	.413	.050 - .072
.690	.076	.010 - .020	.695	.520	.005 - .010	.700	.392	.010 - .020	.703	.206	.025 - .040	.708	.339	.040 - .060	.710	.454	.005 - .010
.690	.149	.050 - .060	.695	.557	.005 - .010	.700	.394	.135 - .156	.703	.263	.005 - .010	.708	.341	.005 - .010	.710	.473	.010 - .020
.690	.167	.005 - .010	.695	.558	.015 - .030	.700	.397	.005 - .010	.703	.409	.010 - .020	.708	.347	.005 - .010	.710	.474	.005 - .010
.690	.173	.050 - .070	.695	.626	.015 - .025	.700	.405	.120 - .134	.703	.442	.005 - .020	.708	.354	.050 - .060	.710	.475	.015 - .030
.690	.188	.040 - .060	.696	.037	.007 - .015	.700	.406	.050 - .150	.703	.480	.030 - .050	.708	.372	.010 - .020	.710	.497	.030 - .050
.690	.190	.010 - .020	.696	.147	.005 - .015	.700	.411	.005 - .060	.703	.482	.050 - .070	.708	.375	.005 - .010	.710	.505	.050 - .070
.690	.192	.060 - .080	.696	.156	.005 - .010	.700	.417	.005 - .020	.703	.487	.040 - .050	.708	.393	.005 - .020	.710	.507	.020 - .035
.690	.202	.030 - .050	.696	.166	.062 - .090	.700	.435	.005 - .010	.703	.516	.020 - .040	.708	.394	.050 - .070	.710	.525	.005 - .010
.690	.206	.050 - .075	.696	.178	.062 - .078	.700	.437	.005 - .010	.703	.525	.030 - .050	.708	.395	.010 - .020	.710	.526	.010 - .025
.690	.220	.020 - .032	.696	.196	.050 - .070	.700	.441	.005 - .020	.703	.540	.040 - .060	.708	.404	.050 - .070	.710	.530	.070 - .090
.690	.250	.125 - .135	.696	.281	.090 - .120	.700	.443	.105 - .125	.703	.635	.010 - .020	.708	.413	.080 - .100	.710	.533	.050 - .070
.690	.254	.050 - .070	.696	.458	.025 - .042	.700	.446	.010 - .020	.704	.078	.040 - .060	.708	.415	.025 - .040	.710	.575	.040 - .060
.690	.264	.105 - .125	.696	.498	.005 - .010	.700	.450	.005 - .080	.704	.259	.050 - .070	.708	.478	.080 - .090	.710	.578	.040 - .060
.690	.265	.100 - .125	.696	.531	.015 - .030	.700	.455	.005 - .010	.704	.264	.060 - .080	.708	.512	.005 - .040	.710	.589	.005 - .030
.690	.280	.050 - .075	.697	.313	.090 - .110	.700	.456	.030 - .050	.704	.268	.060 - .090	.708	.550	.020 - .036	.710	.610	.010 - .020
.690	.281	.050 - .070	.697	.532	.025 - .040	.700	.465	.020 - .040	.704	.343	.060 - .080	.708	.551	.045 - .060	.710	.620	.005 - .010
.690	.317	.080 - .100	.698	.231	.005 - .010	.700	.473	.005 - .010	.704	.366	.010 - .040	.708	.575	.010 - .025	.711	.160	.005 - .010
.690	.323	.020 - .070	.698	.361	.005 - .010	.700	.476	.005 - .010	.704	.475	.010 - .025	.708	.630	.005 - .010	.711	.168	.005 - .010
.690	.330	.105 - .135	.698	.477	.005 - .010	.700	.478	.070 - .080	.704	.478	.040 - .060	.708	.632	.005 - .010	.711	.320	.005 - .010
.690	.336	.060 - .075	.698	.500	.005 - .010	.700	.500	.005 - .010	.704	.480	.015 - .030	.708	.636	.015 - .030	.711	.407	.020 - .050
.690	.343	.050 - .070	.698	.506	.010 - .020	.700	.501	.070 - .090	.704	.497	.020 - .035	.708	.637	.005 - .020	.711	.485	.040 - .060
.690	.344	.100 - .120	.698	.527	.005 - .010	.700	.502	.010 - .100	.704	.503	.060 - .100	.708	.641	.005 - .010	.711	.486	.040 - .060
.690	.354	.005 - .010	.698	.541	.025 - .040	.700	.504	.005 - .030	.704	.532	.030 - .050	.709	.145	.005 - .010	.711	.526	.015 - .025
.690	.365	.005 - .010	.698	.542	.030 - .060	.700	.506	.015 - .042	.704	.553	.005 - .010	.709	.149	.030 - .060	.712	.177	.020 - .032
.690	.376	.010 - .030	.698	.564	.010 - .020	.700	.510	.010 - .025	.704	.600	.020 - .040	.709	.177	.005 - .010	.712	.200	.005 - .015
.690	.385	.090 - .104	.698	.602	.005 - .010	.700	.511	.020 - .040	.704	.626	.005 - .010	.709	.181	.060 - .080	.712	.234	.005 - .010
.690	.436	.100 - .125	.698	.626	.005 - .010	.700	.514	.020 - .060	.705	.085	.005 - .012	.709	.239	.005 - .020	.712	.236	.005 - .010
.690	.475	.030 - .050	.699	.070	.040 - .060	.700	.530	.070 - .080	.705	.098	.005 - .010	.709	.243	.005 - .010	.712	.246	.080 - .105
.690	.494	.075 - .090	.699	.076	.015 - .025	.700	.531	.020 - .040	.705	.248	.015 - .030	.709	.253	.160 - .180	.712	.252	.005 - .010
.690	.503	.050 - .070	.699	.201	.040 - .060	.700	.532	.005 - .010	.705	.253	.050 - .072	.709	.259	.040 - .060	.712	.505	.005 - .010
.690	.530	.040 - .060	.699	.210	.060 - .080	.700	.533	.030 - .050	.705	.265	.020 - .040	.709	.313	.005 - .110	.712	.514	.005 - .010
.690	.533	.072 - .090	.699	.376	.005 - .010	.700	.535	.040 - .050	.705	.274	.005 - .010	.709	.314	.005 - .010	.712	.525	.040 - .060
.690	.542	.005 - .010	.699	.380	.005 - .010	.700	.550	.005 - .010	.705	.311	.005 - .010	.709	.316	.005 - .030	.712	.530	.030 - .050
.690	.566	.030 - .050	.699	.483	.005 - .020	.700	.555	.015 - .030	.705	.312	.005 - .010	.709	.317	.005 - .010	.712	.567	.015 - .030
.690	.569	.010 - .020	.699	.500	.010 - .020	.700	.560	.005 - .030	.705	.317	.005 - .010	.709	.320	.005 - .010	.712	.646	.005 - .010
.690	.575	.010 - .020	.699	.502	.005 - .010	.700	.564	.025 - .072	.705	.361	.105 - .125	.709	.321	.005 - .010	.713	.116	.050 - .070
.690	.615	.020 - .030	.699	.503	.070 - .090	.700	.565	.010 - .060	.705	.383	.010 - .020	.709	.322	.005 - .010	.713	.199	.015 - .030
.690	.625	.010 - .020	.699	.514	.060 - .080	.700	.566	.015 - .032	.705	.438	.005 - .010	.709	.327	.040 - .060	.713	.206	.080 - .100
.690	.639	.005 - .010	.699	.562	.040 - .060	.700	.578	.005 - .010	.705	.516	.025 - .040	.709	.347	.050 - .070	.713	.400	.015 - .025
.691	.163	.025 - .040	.700	.076	.010 - .020	.700	.585	.005 - .010	.705	.531	.005 - .010	.709	.352	.015 - .030	.713	.410	.005 - .010
.691	.189	.050 - .070	.700	.077	.005 - .010	.700	.600	.010 - .020	.705	.550	.030 - .050	.709	.381	.030 - .050	.713	.437	.060 - .075
.691	.192	.020 - .040	.700	.093	.005 - .010	.700	.608	.005 - .010	.705	.570	.050 - .070	.709	.386	.005 - .010	.713	.540	.040 - .060
.691	.194	.015 - .030	.700	.096	.050 - .062	.700	.610	.015 - .030	.705	.634	.015 - .025	.709	.392	.010 - .020	.713	.595	.010 - .020
.691	.203	.005 - .010	.700	.120	.070 - .090	.700	.615	.005 - .010	.706	.254	.030 - .050	.709	.394	.010 - .050	.713	.672	.005 - .010
.691	.238	.030 - .050	.700	.129	.005 - .010	.700	.631	.005 - .010	.706	.347	.005 - .010	.709	.395	.005 - .020	.714	.101	.020 - .030
.691	.258	.060 - .080	.700	.138	.010 - .020	.700	.651	.005 - .010	.706	.390	.005 - .010	.709	.397	.005 - .020	.714	.111	.020 - .030
.691	.475	.030 - .060	.700	.159	.040 - .060	.701	.130	.060 - .080	.706	.395	.062 - .083	.709	.399	.010 - .020	.714	.118	.020 - .030
.691	.485	.005 - .010	.700	.164	.010 - .020	.701	.153	.048 - .090	.706	.398	.050 - .070	.709	.437	.005 - .050	.714	.125	.020 - .030
.691	.511	.020 - .030	.700	.168	.050 - .070	.701	.168	.005 - .010	.706	.402	.005 - .010	.709	.455	.090 - .105	.714	.140	.020 - .030
.691	.515	.015 - .030	.700	.169	.040 - .060	.701	.193	.040 - .060	.706	.420	.005 - .010	.709	.472	.005 - .050	.714	.182	.005 - .010
.691	.598	.005 - .010	.700	.176	.005 - .010	.701	.204	.050 - .070	.706	.434	.025 - .040	.709	.474	.010 - .020	.714	.223	.050 - .070
.692	.286	.042 - .062	.700	.193	.005 - .010	.701	.224	.040 - .060	.706	.453	.032 - .042	.709	.475	.040 - .060	.714	.285	.070 - .090
.692	.406	.020 - .040	.700	.210	.050 - .070	.701	.241	.050 - .070	.706	.478	.040 - .060	.709	.476	.005 - .010	.714	.299	.020 - .030
.692	.519	.005 - .010	.700	.221	.075 - .090	.701	.257	.050 - .100	.706	.500	.075 - .100	.709	.482	.070 - .090	.714	.390	.048 - .072
.692	.603	.015 - .030	.700	.250	.070 - .090	.701	.259	.005 - .010	.706	.505	.010 - .060	.709	.483	.005 - .010	.714	.414	.040 - .060
.693	.119	.005 - .012	.700	.252	.010 - .020	.701	.285	.005 - .010	.707	.315	.100 - .125	.709	.490	.060 - .080	.714	.555	.050 - .075
.693	.236	.005 - .010	.700	.253	.005 - .010	.701	.321	.125 - .135	.707	.316	.005 - .125	.709	.492	.030 - .050	.715	.198	.030 - .078
.693	.320	.005 - .010	.700	.256	.040 - .060	.701	.410	.005 - .010	.707	.320	.005 - .010	.709	.503	.080 - .105	.715	.199	.060 - .083
.693	.396	.050 - .075	.700	.272	.060 - .080	.701	.419	.050 - .070	.707	.335	.020 - .040	.709	.550	.005 - .010	.715	.315	.090 - .104
.693	.410	.025 - .040	.700	.291	.005 - .010	.701	.425	.050 - .070	.707	.436	.005 - .010	.709	.592	.030 - .050	.715	.330	.005 - .012
.693	.438	.020 - .030	.700	.313	.010 - .020	.701	.438	.040 - .060	.707	.472	.015 - .030	.709	.596	.020 - .040	.715	.366	.020 - .040
.693	.443	.005 - .010	.700	.317	.005 - .020	.701	.500	.010 - .060	.707	.480	.005 - .010	.710	.133	.005 - .010	.715	.369	.060 - .080
.693	.539	.050 - .070	.700	.320	.005 - .010	.701	.521	.080 - .100	.708	.120	.072 - .120	.710	.201	.050 - .070	.715	.379	.005 - .010
.694	.200	.080 - .100	.700	.327	.015 - .020	.701	.549	.020 - .030	.708	.136	.040 - .060	.710	.211	.070 - .090	.715	.437	.008 - .012

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

Need Disks? All O.D. sizes available with no I.D. — (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
.715	.440	.090 - .100	.720	.259	.005 - .010	.727	.257	.020 - .040	.733	.234	.005 - .010	.739	.505	.015 - .030	.743	.144	.070 - .090
.715	.470	.060 - .105	.720	.281	.110 - .187	.727	.397	.005 - .010	.733	.389	.010 - .020	.739	.519	.005 - .010	.743	.271	.050 - .075
.715	.474	.030 - .060	.720	.315	.005 - .010	.727	.448	.005 - .010	.733	.435	.030 - .050	.739	.522	.015 - .030	.743	.390	.005 - .010
.715	.481	.025 - .040	.720	.321	.050 - .075	.727	.480	.040 - .050	.733	.515	.050 - .070	.739	.565	.015 - .030	.743	.417	.005 - .010
.715	.495	.005 - .010	.720	.341	.090 - .105	.727	.500	.015 - .030	.733	.650	.010 - .015	.739	.576	.005 - .010	.743	.475	.040 - .050
.715	.500	.020 - .035	.720	.360	.020 - .030	.727	.512	.010 - .020	.734	.162	.015 - .030	.739	.605	.040 - .060	.743	.488	.060 - .080
.715	.526	.015 - .025	.720	.380	.020 - .040	.727	.570	.040 - .060	.734	.187	.005 - .010	.739	.632	.005 - .010	.743	.520	.070 - .090
.715	.535	.025 - .040	.720	.401	.005 - .015	.727	.576	.015 - .035	.734	.192	.080 - .125	.739	.634	.005 - .010	.743	.531	.005 - .010
.716	.230	.015 - .030	.720	.446	.025 - .040	.727	.586	.015 - .030	.734	.198	.070 - .090	.739	.656	.025 - .040	.743	.541	.005 - .010
.716	.264	.020 - .040	.720	.455	.105 - .125	.728	.174	.020 - .040	.734	.203	.040 - .080	.740	.143	.070 - .080	.743	.556	.005 - .008
.716	.405	.025 - .042	.720	.463	.080 - .104	.728	.219	.010 - .020	.734	.209	.005 - .010	.740	.160	.005 - .010	.743	.572	.040 - .060
.716	.474	.030 - .050	.720	.473	.005 - .010	.728	.251	.005 - .010	.734	.258	.040 - .060	.740	.200	.005 - .010	.743	.596	.005 - .010
.716	.515	.040 - .062	.720	.476	.070 - .090	.728	.253	.025 - .040	.734	.260	.032 - .050	.740	.206	.005 - .010	.743	.600	.010 - .080
.716	.624	.030 - .048	.720	.502	.015 - .020	.728	.259	.025 - .040	.734	.316	.010 - .020	.740	.250	.120 - .135	.743	.623	.010 - .020
.716	.630	.020 - .040	.720	.550	.005 - .010	.728	.291	.025 - .040	.734	.376	.030 - .050	.740	.318	.005 - .010	.743	.630	.016 - .025
.717	.187	.010 - .020	.720	.564	.020 - .032	.728	.292	.025 - .042	.734	.380	.010 - .015	.740	.330	.070 - .080	.744	.187	.100 - .120
.717	.223	.050 - .070	.720	.566	.015 - .030	.728	.328	.025 - .040	.734	.406	.050 - .125	.740	.341	.050 - .070	.744	.215	.030 - .050
.717	.290	.030 - .050	.720	.568	.015 - .030	.728	.375	.060 - .090	.734	.420	.093 - .130	.740	.344	.020 - .030	.744	.236	.010 - .020
.717	.293	.010 - .020	.720	.594	.050 - .075	.728	.395	.010 - .020	.734	.466	.060 - .075	.740	.352	.020 - .040	.744	.262	.015 - .030
.717	.318	.025 - .040	.720	.612	.005 - .010	.728	.402	.010 - .040	.734	.485	.020 - .030	.740	.377	.050 - .093	.744	.370	.015 - .030
.717	.322	.032 - .050	.720	.621	.005 - .010	.728	.440	.005 - .010	.734	.515	.030 - .042	.740	.380	.030 - .125	.744	.383	.035 - .050
.717	.396	.020 - .040	.720	.639	.005 - .010	.728	.454	.015 - .025	.734	.531	.005 - .010	.740	.386	.005 - .010	.744	.388	.005 - .010
.717	.438	.030 - .050	.720	.642	.030 - .040	.728	.473	.025 - .042	.734	.630	.032 - .048	.740	.390	.005 - .050	.744	.403	.031 - .048
.717	.440	.080 - .100	.721	.250	.050 - .075	.728	.500	.005 - .015	.735	.193	.050 - .070	.740	.391	.005 - .010	.744	.409	.050 - .070
.717	.447	.005 - .010	.721	.318	.030 - .042	.728	.532	.020 - .040	.735	.282	.050 - .070	.740	.410	.105 - .125	.744	.413	.105 - .125
.717	.473	.015 - .030	.721	.404	.062 - .078	.728	.545	.015 - .030	.735	.321	.030 - .060	.740	.412	.062 - .075	.744	.430	.005 - .010
.717	.476	.025 - .040	.721	.423	.005 - .010	.728	.574	.005 - .010	.735	.346	.050 - .080	.740	.439	.005 - .010	.744	.438	.040 - .060
.717	.478	.005 - .010	.721	.530	.010 - .020	.728	.591	.030 - .050	.735	.369	.060 - .080	.740	.440	.010 - .020	.744	.449	.060 - .080
.717	.515	.050 - .075	.721	.594	.016 - .025	.728	.631	.012 - .020	.735	.380	.105 - .156	.740	.453	.020 - .040	.744	.450	.050 - .075
.717	.548	.005 - .010	.721	.601	.020 - .040	.728	.632	.005 - .010	.735	.385	.020 - .030	.740	.489	.005 - .080	.744	.500	.005 - .012
.717	.628	.005 - .010	.722	.186	.005 - .010	.729	.219	.010 - .020	.735	.393	.005 - .110	.740	.501	.008 - .015	.744	.504	.005 - .010
.718	.131	.030 - .050	.722	.221	.080 - .100	.729	.379	.005 - .010	.735	.401	.015 - .025	.740	.502	.080 - .100	.744	.507	.040 - .075
.718	.160	.048 - .062	.722	.233	.050 - .070	.729	.382	.135 - .156	.735	.412	.005 - .010	.740	.510	.040 - .060	.744	.523	.030 - .050
.718	.189	.015 - .030	.722	.265	.050 - .075	.729	.397	.025 - .040	.735	.418	.060 - .080	.740	.511	.005 - .010	.744	.525	.040 - .050
.718	.205	.005 - .010	.722	.268	.005 - .010	.729	.500	.005 - .010	.735	.451	.050 - .070	.740	.561	.040 - .060	.744	.532	.010 - .020
.718	.213	.015 - .030	.722	.314	.050 - .075	.729	.513	.007 - .016	.735	.454	.100 - .130	.740	.571	.005 - .010	.744	.561	.005 - .010
.718	.252	.010 - .025	.722	.320	.050 - .080	.729	.552	.060 - .080	.735	.500	.020 - .070	.740	.603	.005 - .010	.744	.599	.005 - .012
.718	.257	.025 - .040	.722	.324	.030 - .050	.730	.238	.060 - .080	.735	.560	.060 - .080	.740	.626	.005 - .010	.745	.095	.005 - .010
.718	.262	.020 - .040	.722	.376	.100 - .125	.730	.280	.010 - .020	.735	.627	.040 - .060	.740	.628	.005 - .010	.745	.120	.015 - .040
.718	.282	.062 - .083	.722	.481	.050 - .060	.730	.287	.050 - .075	.736	.118	.015 - .030	.740	.631	.005 - .010	.745	.126	.032 - .050
.718	.313	.015 - .030	.722	.500	.072 - .090	.730	.401	.005 - .010	.736	.159	.040 - .050	.740	.659	.005 - .010	.745	.143	.035 - .055
.718	.353	.005 - .010	.722	.515	.010 - .020	.730	.415	.005 - .010	.736	.160	.030 - .050	.740	.660	.020 - .030	.745	.184	.010 - .020
.718	.375	.030 - .060	.722	.540	.078 - .090	.730	.433	.025 - .040	.736	.268	.042 - .060	.740	.691	.005 - .010	.745	.190	.040 - .060
.718	.378	.025 - .050	.722	.636	.010 - .020	.730	.460	.010 - .020	.736	.310	.048 - .070	.740	.696	.010 - .020	.745	.191	.025 - .035
.718	.380	.005 - .090	.723	.221	.005 - .040	.730	.475	.020 - .040	.736	.313	.040 - .060	.741	.201	.015 - .025	.745	.193	.020 - .060
.718	.395	.010 - .020	.723	.314	.040 - .060	.730	.480	.050 - .070	.736	.318	.015 - .030	.741	.203	.060 - .080	.745	.200	.050 - .070
.718	.398	.005 - .010	.723	.382	.030 - .060	.730	.486	.020 - .040	.736	.380	.020 - .030	.741	.261	.156 - .187	.745	.214	.015 - .030
.718	.406	.005 - .010	.723	.632	.005 - .010	.730	.492	.030 - .050	.736	.386	.040 - .060	.741	.291	.015 - .025	.745	.234	.040 - .060
.718	.408	.030 - .050	.723	.637	.010 - .020	.730	.506	.040 - .060	.736	.467	.005 - .010	.741	.296	.015 - .030	.745	.244	.005 - .010
.718	.418	.015 - .030	.723	.641	.005 - .010	.730	.519	.050 - .070	.736	.504	.007 - .016	.741	.322	.050 - .075	.745	.255	.032 - .050
.718	.438	.090 - .125	.724	.173	.030 - .050	.730	.526	.005 - .010	.736	.516	.030 - .050	.741	.378	.050 - .080	.745	.265	.050 - .125
.718	.464	.005 - .010	.724	.201	.020 - .040	.730	.571	.005 - .010	.736	.565	.005 - .010	.741	.395	.025 - .040	.745	.291	.005 - .010
.718	.465	.060 - .070	.724	.382	.020 - .040	.730	.615	.020 - .030	.736	.578	.015 - .025	.741	.412	.080 - .105	.745	.316	.060 - .070
.718	.487	.005 - .010	.724	.428	.005 - .010	.730	.630	.030 - .042	.736	.595	.040 - .062	.741	.505	.060 - .083	.745	.317	.105 - .135
.718	.518	.020 - .040	.724	.508	.025 - .040	.730	.632	.005 - .010	.736	.601	.015 - .030	.741	.515	.040 - .060	.745	.320	.080 - .105
.718	.562	.005 - .040	.724	.519	.020 - .040	.731	.206	.030 - .050	.736	.633	.015 - .030	.741	.529	.010 - .020	.745	.330	.015 - .030
.718	.585	.005 - .010	.724	.570	.005 - .010	.731	.410	.070 - .090	.736	.650	.025 - .040	.741	.531	.050 - .070	.745	.389	.050 - .070
.718	.593	.015 - .020	.724	.670	.005 - .010	.731	.416	.005 - .080	.737	.318	.015 - .025	.741	.563	.030 - .050	.745	.403	.050 - .060
.718	.595	.005 - .010	.725	.089	.062 - .078	.731	.426	.010 - .020	.737	.330	.040 - .060	.741	.570	.020 - .040	.745	.422	.090 - .100
.718	.600	.045 - .060	.725	.128	.040 - .060	.731	.433	.030 - .050	.737	.364	.005 - .010	.741	.640	.005 - .010	.745	.438	.020 - .036
.718	.638	.006 - .030	.725	.160	.020 - .040	.731	.453	.100 - .120	.737	.419	.030 - .060	.741	.690	.005 - .010	.745	.451	.010 - .020
.719	.132	.030 - .050	.725	.187	.060 - .090	.731	.482	.020 - .040	.737	.436	.040 - .050	.742	.149	.005 - .010	.745	.454	.120 - .140
.719	.196	.040 - .060	.725	.251	.015 - .030	.731	.564	.005 - .010	.737	.503	.060 - .083	.742	.226	.075 - .100	.745	.455	.032 - .050
.719	.198	.015 - .030	.725	.296	.100 - .125	.731	.585	.005 - .010	.737	.505	.005 - .070	.742	.251	.040 - .060	.745	.468	.005 - .012
.719	.237	.005 - .010	.725	.339	.005 - .030	.732	.043	.010 - .020	.737	.537	.030 - .050	.742	.271	.110 - .130	.745	.509	.005 - .010
.719	.240	.015 - .030	.725	.346	.005 - .010	.732	.159	.070 - .090	.737	.546	.005 - .010	.742	.346	.020 - .030	.745	.510	.020 - .040
.719	.254	.008 - .016	.725	.458	.010 - .020	.732	.163	.015 - .030	.737	.550	.025 - .040	.742	.360	.050 - .060	.745	.538	.030 - .050
.719	.324	.015 - .030	.725	.540	.050 - .070	.732	.165	.005 - .010	.738	.342	.042 - .060	.742	.378	.080 - .104	.745	.541	.010 - .025
.719	.329	.080 - .100	.725	.548	.020 - .040	.732	.199	.042 - .080	.738	.346	.005 - .010	.742	.380	.030 - .050	.745	.558	.010 - .020
.719	.374	.010 - .015	.726	.183	.050 - .070	.732	.253	.010 - .015	.738	.511	.015 - .030	.742	.387	.100 - .135	.745	.560	.005 - .010
.719	.378	.005 - .010	.726	.304	.010 - .020	.732	.263	.040 - .062	.738	.538	.015 - .030	.742	.389	.042 - .062	.745	.562	.020 - .030
.719	.380	.070 - .090	.726	.315	.020 - .030	.732	.281	.050 - .075	.738	.540	.015 - .025	.742	.426	.050 - .070	.745	.571	.005 - .010
.719	.395	.040 - .060	.726	.325	.005 - .010	.732	.290	.005 - .010	.738	.544	.005 - .010	.742	.443	.025 - .060	.745	.576	.042 - .060
.719	.439	.080 - .105	.726	.343	.005 - .010	.732	.330	.005 - .060	.738	.594	.015 - .030	.742	.466	.060 - .075	.745	.591	.030 - .050
.719	.441	.070 - .090	.726	.375	.105 - .125	.732	.335	.020 - .040	.738	.595	.005 - .010	.742	.474	.080 - .100	.745	.599	.005 - .010
.719	.453	.050 - .070	.726	.388	.005 - .010	.732	.443	.015 - .030	.739	.222	.040 - .060	.742	.502	.060 - .070	.745	.605	.005 - .010
.719	.468	.020 - .040	.726	.406	.030 - .050	.732	.475	.008 - .015	.739	.305	.010 - .020	.742	.517	.005 - .030	.745	.626	.040 - .060
.719	.543	.040 - .060	.726	.439	.020 - .040	.732	.502	.025 - .042	.739	.333	.050 - .070	.742	.566	.025 - .040	.745	.628	.005 - .010
.719	.555	.040 - .060	.726	.485	.015 - .030	.732	.550	.040 - .050	.739	.407	.060 - .080	.742	.593	.025 - .040	.745	.661	.010 - .015
.720	.254	.020 - .035	.726	.632	.005 - .010	.733	.159	.070 - .090	.739	.431	.070 - .090	.742	.671	.010 - .020	.745	.693	.010 - .020

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

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
.746	.100	.032 - .050	.748	.252	.005 - .010	.749	.403	.005 - .008	.750	.206	.070 - .090	.750	.402	.042 - .060	.750	.650	.025 - .040
.746	.125	.015 - .030	.748	.254	.060 - .090	.749	.408	.005 - .010	.750	.209	.030 - .050	.750	.406	.010 - .030	.750	.651	.040 - .060
.746	.166	.050 - .075	.748	.255	.005 - .010	.749	.424	.040 - .060	.750	.213	.105 - .125	.750	.407	.120 - .134	.750	.679	.005 - .010
.746	.200	.060 - .080	.748	.259	.008 - .016	.749	.437	.042 - .060	.750	.218	.005 - .010	.750	.411	.060 - .070	.750	.691	.010 - .020
.746	.203	.030 - .050	.748	.315	.005 - .010	.749	.438	.010 - .020	.750	.223	.125 - .156	.750	.413	.005 - .015	.750	.692	.015 - .025
.746	.204	.070 - .090	.748	.316	.005 - .190	.749	.440	.005 - .070	.750	.229	.005 - .010	.750	.415	.005 - .010	.750	.697	.030 - .060
.746	.253	.040 - .060	.748	.317	.005 - .010	.749	.445	.005 - .015	.750	.232	.050 - .075	.750	.419	.080 - .100	.750	.700	.010 - .020
.746	.260	.005 - .010	.748	.319	.005 - .010	.749	.459	.005 - .010	.750	.236	.005 - .030	.750	.420	.105 - .125	.750	.705	.010 - .020
.746	.285	.005 - .010	.748	.322	.005 - .010	.749	.468	.005 - .010	.750	.242	.030 - .050	.750	.426	.005 - .010	.751	.105	.010 - .020
.746	.316	.005 - .030	.748	.328	.105 - .134	.749	.471	.050 - .070	.750	.250	.005 - .062	.750	.437	.005 - .010	.751	.126	.030 - .050
.746	.318	.078 - .090	.748	.331	.015 - .030	.749	.474	.050 - .070	.750	.251	.005 - .030	.750	.438	.040 - .062	.751	.129	.050 - .070
.746	.319	.040 - .060	.748	.357	.070 - .090	.749	.499	.020 - .080	.750	.252	.005 - .080	.750	.439	.010 - .020	.751	.140	.080 - .100
.746	.379	.040 - .060	.748	.376	.005 - .010	.749	.503	.005 - .010	.750	.253	.025 - .040	.750	.440	.080 - .104	.751	.168	.040 - .060
.746	.386	.060 - .070	.748	.377	.156 - .187	.749	.504	.090 - .120	.750	.254	.005 - .100	.750	.441	.060 - .090	.751	.170	.040 - .060
.746	.390	.006 - .010	.748	.384	.020 - .040	.749	.507	.008 - .016	.750	.256	.040 - .060	.750	.442	.005 - .090	.751	.184	.005 - .010
.746	.393	.110 - .130	.748	.385	.005 - .010	.749	.517	.005 - .010	.750	.257	.090 - .120	.750	.444	.015 - .030	.751	.187	.010 - .020
.746	.395	.030 - .050	.748	.393	.060 - .080	.749	.528	.005 - .010	.750	.259	.005 - .032	.750	.445	.030 - .050	.751	.188	.060 - .083
.746	.405	.005 - .010	.748	.397	.005 - .010	.749	.531	.005 - .010	.750	.260	.090 - .125	.750	.446	.015 - .030	.751	.190	.005 - .010
.746	.437	.042 - .060	.748	.400	.005 - .010	.749	.562	.010 - .020	.750	.261	.040 - .080	.750	.448	.005 - .010	.751	.194	.090 - .125
.746	.438	.005 - .010	.748	.451	.005 - .010	.749	.563	.005 - .010	.750	.264	.005 - .104	.750	.450	.025 - .042	.751	.200	.042 - .062
.746	.445	.040 - .060	.748	.461	.010 - .020	.749	.575	.040 - .060	.750	.265	.050 - .120	.750	.451	.036 - .050	.751	.204	.005 - .010
.746	.455	.010 - .020	.748	.462	.005 - .010	.749	.594	.010 - .020	.750	.266	.072 - .135	.750	.454	.042 - .125	.751	.205	.060 - .080
.746	.469	.030 - .060	.748	.473	.005 - .015	.749	.595	.035 - .062	.750	.267	.010 - .025	.750	.457	.070 - .090	.751	.206	.040 - .075
.746	.480	.015 - .090	.748	.501	.090 - .105	.749	.599	.015 - .030	.750	.268	.010 - .080	.750	.468	.010 - .125	.751	.218	.020 - .050
.746	.499	.020 - .040	.748	.503	.010 - .040	.749	.609	.005 - .010	.750	.270	.005 - .010	.750	.470	.020 - .040	.751	.229	.015 - .030
.746	.500	.005 - .012	.748	.504	.050 - .070	.749	.620	.015 - .030	.750	.277	.005 - .010	.750	.472	.016 - .025	.751	.239	.005 - .010
.746	.521	.005 - .010	.748	.507	.020 - .036	.749	.626	.040 - .060	.750	.281	.005 - .078	.750	.476	.060 - .080	.751	.242	.080 - .105
.746	.531	.005 - .020	.748	.511	.010 - .020	.749	.633	.010 - .020	.750	.282	.105 - .135	.750	.477	.005 - .010	.751	.244	.050 - .070
.746	.533	.030 - .050	.748	.513	.070 - .090	.749	.640	.030 - .060	.750	.283	.170 - .190	.750	.478	.100 - .125	.751	.250	.080 - .140
.746	.564	.015 - .030	.748	.553	.005 - .010	.749	.644	.005 - .010	.750	.285	.015 - .135	.750	.480	.030 - .050	.751	.255	.050 - .070
.746	.565	.075 - .090	.748	.563	.015 - .030	.749	.650	.040 - .050	.750	.288	.015 - .030	.750	.491	.015 - .030	.751	.257	.050 - .070
.746	.579	.025 - .048	.748	.570	.005 - .012	.749	.669	.005 - .010	.750	.291	.100 - .125	.750	.496	.040 - .060	.751	.265	.005 - .015
.746	.608	.050 - .070	.748	.573	.012 - .020				.750	.293	.100 - .125	.750	.499	.100 - .125	.751	.266	.032 - .050
.746	.621	.005 - .010	.748	.582	.005 - .010				.750	.295	.015 - .030	.750	.500	.005 - .060	.751	.272	.100 - .125
.746	.627	.020 - .040	.748	.626	.040 - .060				.750	.299	.010 - .020	.750	.502	.005 - .100	.751	.296	.050 - .070
.746	.634	.010 - .020	.748	.629	.010 - .020				.750	.303	.060 - .080	.750	.503	.005 - .020	.751	.303	.005 - .010
.746	.670	.005 - .010	.748	.632	.015 - .030				.750	.312	.035 - .050	.750	.504	.015 - .025	.751	.315	.015 - .030
.747	.131	.025 - .040	.748	.634	.005 - .030				.750	.313	.020 - .135	.750	.505	.025 - .105	.751	.322	.050 - .075
.747	.143	.030 - .050	.748	.635	.015 - .025				.750	.315	.025 - .190	.750	.506	.005 - .020	.751	.325	.015 - .030
.747	.214	.065 - .080	.748	.644	.025 - .040				.750	.316	.007 - .125	.750	.509	.005 - .010	.751	.331	.075 - .093
.747	.235	.005 - .010	.748	.670	.005 - .015	.750	.063	.025 - .048	.750	.317	.005 - .030	.750	.510	.010 - .020	.751	.332	.005 - .010
.747	.261	.015 - .025	.748	.693	.005 - .010	.750	.069	.005 - .010	.750	.318	.005 - .015	.750	.511	.030 - .060	.751	.335	.090 - .125
.747	.268	.005 - .010	.749	.064	.030 - .050	.750	.078	.005 - .010	.750	.319	.040 - .100	.750	.512	.005 - .075	.751	.343	.025 - .040
.747	.269	.040 - .060	.749	.087	.015 - .030	.750	.090	.010 - .015	.750	.320	.015 - .025	.750	.513	.010 - .075	.751	.361	.005 - .010
.747	.315	.005 - .010	.749	.160	.008 - .016	.750	.096	.060 - .090	.750	.321	.005 - .010	.750	.514	.100 - .125	.751	.376	.005 - .015
.747	.316	.030 - .040	.749	.161	.060 - .090	.750	.102	.015 - .025	.750	.325	.125 - .156	.750	.517	.030 - .050	.751	.379	.040 - .060
.747	.317	.040 - .060	.749	.181	.060 - .090	.750	.118	.005 - .010	.750	.326	.025 - .040	.750	.522	.010 - .020	.751	.380	.005 - .020
.747	.324	.020 - .030	.749	.190	.010 - .020	.750	.125	.012 - .025	.750	.327	.062 - .090	.750	.524	.015 - .030	.751	.387	.105 - .125
.747	.376	.010 - .020	.749	.194	.090 - .125	.750	.126	.005 - .010	.750	.329	.070 - .090	.750	.525	.050 - .070	.751	.395	.020 - .030
.747	.377	.010 - .015	.749	.200	.020 - .042	.750	.128	.005 - .010	.750	.330	.025 - .040	.750	.528	.005 - .010	.751	.400	.050 - .080
.747	.380	.008 - .016	.749	.203	.125 - .156	.750	.129	.090 - .104	.750	.331	.005 - .010	.750	.530	.040 - .105	.751	.420	.110 - .130
.747	.395	.010 - .020	.749	.204	.005 - .060	.750	.133	.030 - .050	.750	.333	.005 - .010	.750	.531	.010 - .020	.751	.435	.005 - .010
.747	.397	.105 - .125	.749	.220	.105 - .135	.750	.134	.005 - .010	.750	.337	.042 - .072	.750	.532	.020 - .125	.751	.437	.005 - .010
.747	.468	.030 - .050	.749	.221	.040 - .060	.750	.143	.015 - .030	.750	.344	.075 - .100	.750	.533	.050 - .070	.751	.438	.050 - .070
.747	.475	.008 - .012	.749	.229	.160 - .187	.750	.146	.010 - .078	.750	.345	.005 - .125	.750	.536	.040 - .060	.751	.440	.050 - .070
.747	.478	.005 - .015	.749	.237	.005 - .030	.750	.147	.005 - .015	.750	.350	.072 - .090	.750	.540	.040 - .050	.751	.448	.050 - .070
.747	.491	.005 - .010	.749	.252	.025 - .040	.750	.150	.005 - .020	.750	.354	.005 - .010	.750	.545	.015 - .030	.751	.455	.010 - .020
.747	.508	.100 - .125	.749	.257	.072 - .120	.750	.155	.005 - .010	.750	.356	.070 - .080	.750	.549	.005 - .010	.751	.463	.050 - .070
.747	.510	.015 - .030	.749	.258	.030 - .040	.750	.156	.025 - .075	.750	.359	.015 - .125	.750	.550	.020 - .030	.751	.470	.075 - .090
.747	.517	.010 - .020	.749	.263	.030 - .050	.750	.161	.090 - .100	.750	.362	.050 - .075	.750	.551	.010 - .020	.751	.499	.005 - .025
.747	.561	.010 - .025	.749	.268	.060 - .090	.750	.165	.060 - .080	.750	.364	.005 - .010	.750	.558	.040 - .060	.751	.500	.050 - .070
.747	.566	.050 - .070	.749	.272	.005 - .010	.750	.166	.025 - .035	.750	.374	.010 - .020	.750	.562	.040 - .060	.751	.503	.005 - .110
.747	.594	.005 - .010	.749	.286	.105 - .120	.750	.171	.005 - .010	.750	.375	.005 - .010	.750	.563	.010 - .060	.751	.504	.010 - .080
.747	.618	.005 - .010	.749	.313	.005 - .040	.750	.172	.010 - .020	.750	.376	.005 - .125	.750	.564	.005 - .060	.751	.505	.010 - .105
.747	.628	.005 - .010	.749	.315	.005 - .010	.750	.184	.030 - .050	.750	.377	.005 - .010	.750	.565	.010 - .040	.751	.506	.015 - .025
.747	.651	.005 - .010	.749	.316	.005 - .010	.750	.186	.005 - .015	.750	.378	.005 - .187	.750	.566	.012 - .020	.751	.508	.020 - .030
.747	.691	.015 - .025	.749	.322	.005 - .010	.750	.188	.060 - .083	.750	.379	.015 - .040	.750	.569	.050 - .062	.751	.513	.090 - .120
.748	.066	.015 - .030	.749	.323	.105 - .125	.750	.189	.005 - .104	.750	.381	.048 - .062	.750	.582	.030 - .050	.751	.515	.025 - .040
.748	.136	.031 - .042	.749	.330	.060 - .090	.750	.190	.015 - .125	.750	.382	.020 - .040	.750	.584	.005 - .010	.751	.516	.008 - .060
.748	.139	.020 - .042	.749	.347	.020 - .035	.750	.191	.050 - .075	.750	.383	.060 - .083	.750	.590	.005 - .010	.751	.521	.048 - .060
.748	.140	.005 - .010	.749	.350	.005 - .010	.750	.192	.050 - .070	.750	.384	.005 - .020	.750	.595	.005 - .020	.751	.524	.005 - .010
.748	.147	.062 - .075	.749	.351	.005 - .010	.750	.193	.010 - .075	.750	.385	.005 - .010	.750	.609	.040 - .060	.751	.563	.005 - .040
.748	.173	.032 - .050	.749	.364	.005 - .010	.750	.194	.042 - .062	.750	.387	.050 - .080	.750	.625	.005 - .050	.751	.594	.010 - .020
.748	.180	.008 - .016	.749	.375	.025 - .040	.750	.195	.005 - .125	.750	.388	.025 - .040	.750	.626	.015 - .030	.751	.600	.030 - .050
.748	.201	.060 - .090	.749	.379	.036 - .060	.750	.197	.005 - .010	.750	.389	.050 - .070	.750	.630	.005 - .060	.751	.606	.005 - .010
.748	.237	.005 - .010	.749	.386	.005 - .010	.750	.198	.025 - .105	.750	.390	.005 - .105	.750	.632	.005 - .010	.751	.626	.005 - .025
.748	.238	.005 - .010	.749	.387	.005 - .010	.750	.200	.030 - .060	.750	.394	.100 - .125	.750	.634	.005 - .020	.751	.633	.005 - .010
.748	.239	.050 - .070	.749	.395	.005 - .010	.750	.202	.005 - .010	.750	.395	.020 - .050	.750	.639	.015 - .030	.751	.634	.005 - .010
.748	.241	.040 - .060	.749	.397	.015 - .025	.750	.203	.030 - .050	.750	.396	.060 - .070	.750	.640	.010 - .020	.751	.639	.010 - .015
.748	.249	.050 - .075	.749	.402	.100 - .120	.750	.204	.050 - .070	.750	.400	.020 - .040	.750	.645	.010 - .020	.751	.650	.010 - .020

.750

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

For a size NOT listed, send specs or phone for quote — (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
.752	.143	.090 - .120
.752	.145	.100 - .125
.752	.150	.090 - .105
.752	.181	.080 - .104
.752	.186	.005 - .010
.752	.196	.040 - .060
.752	.212	.030 - .060
.752	.250	.005 - .010
.752	.269	.100 - .135
.752	.303	.005 - .012
.752	.315	.104 - .135
.752	.317	.010 - .020
.752	.319	.005 - .030
.752	.320	.050 - .070
.752	.322	.005 - .010
.752	.340	.005 - .010
.752	.357	.050 - .070
.752	.375	.062 - .075
.752	.379	.090 - .110
.752	.380	.090 - .120
.752	.388	.050 - .070
.752	.389	.005 - .010
.752	.406	.060 - .083
.752	.431	.090 - .125
.752	.461	.008 - .012
.752	.475	.030 - .050
.752	.502	.008 - .012
.752	.504	.010 - .050
.752	.505	.015 - .030
.752	.516	.005 - .015
.752	.555	.040 - .070
.752	.564	.050 - .070
.752	.570	.010 - .020
.752	.591	.060 - .090
.752	.624	.050 - .070
.752	.697	.010 - .020
.753	.133	.075 - .090
.753	.170	.020 - .040
.753	.276	.010 - .020
.753	.318	.050 - .070
.753	.330	.110 - .130
.753	.337	.100 - .125
.753	.375	.100 - .125
.753	.381	.134 - .187
.753	.384	.050 - .070
.753	.405	.050 - .072
.753	.409	.005 - .010
.753	.472	.100 - .120
.753	.477	.020 - .040
.753	.484	.025 - .050
.753	.526	.030 - .060
.753	.527	.005 - .010
.753	.609	.025 - .050
.753	.627	.005 - .015
.753	.629	.005 - .010
.754	.253	.005 - .010
.754	.265	.030 - .060
.754	.393	.005 - .010
.754	.428	.048 - .062
.754	.460	.105 - .125
.754	.469	.040 - .060
.754	.509	.030 - .050
.754	.532	.080 - .105
.755	.222	.005 - .010
.755	.281	.005 - .010
.755	.335	.170 - .190
.755	.347	.010 - .020
.755	.378	.010 - .080
.755	.385	.025 - .042
.755	.393	.005 - .010
.755	.513	.030 - .040
.755	.520	.005 - .010
.755	.532	.020 - .040
.755	.533	.010 - .020
.755	.552	.030 - .040
.755	.554	.005 - .010
.755	.565	.040 - .060
.755	.586	.005 - .010
.756	.230	.005 - .010
.756	.258	.075 - .100
.756	.375	.040 - .050
.756	.395	.005 - .010
.756	.408	.020 - .035
.756	.500	.010 - .020
.756	.564	.005 - .010
.756	.570	.020 - .030
.757	.139	.005 - .010
.757	.243	.005 - .020
.757	.279	.005 - .015
.757	.387	.060 - .125
.757	.400	.040 - .060
.757	.468	.030 - .050
.757	.470	.020 - .040
.757	.563	.010 - .020
.758	.234	.005 - .010
.758	.310	.015 - .030
.758	.394	.040 - .060
.758	.608	.050 - .075
.759	.462	.005 - .010
.759	.606	.005 - .010
.759	.694	.005 - .010
.760	.032	.020 - .032
.760	.126	.015 - .030
.760	.150	.020 - .040
.760	.200	.090 - .110
.760	.256	.080 - .104
.760	.260	.030 - .062
.760	.269	.040 - .060
.760	.322	.050 - .070
.760	.330	.005 - .010
.760	.385	.040 - .060
.760	.446	.010 - .020
.760	.471	.050 - .070
.760	.482	.040 - .060
.760	.508	.105 - .120
.760	.565	.020 - .040
.760	.571	.070 - .090
.760	.579	.005 - .008
.760	.592	.020 - .035
.760	.624	.020 - .030
.760	.664	.005 - .010
.760	.675	.010 - .020
.761	.141	.005 - .015
.761	.184	.005 - .015
.761	.561	.030 - .050
.762	.250	.005 - .010
.762	.445	.040 - .060
.762	.616	.005 - .010
.763	.503	.005 - .010
.763	.660	.005 - .010
.764	.315	.050 - .075
.764	.528	.060 - .080
.764	.707	.005 - .010
.765	.117	.040 - .062
.765	.222	.030 - .050
.765	.265	.100 - .125
.765	.285	.005 - .010
.765	.293	.040 - .060
.765	.312	.050 - .062
.765	.331	.025 - .040
.765	.348	.025 - .035
.765	.406	.005 - .010
.765	.508	.005 - .010
.765	.528	.050 - .060
.765	.533	.015 - .030
.765	.565	.010 - .020
.765	.625	.050 - .070
.766	.505	.030 - .050
.766	.518	.050 - .070
.766	.535	.080 - .100
.766	.557	.025 - .040
.766	.585	.015 - .030
.766	.610	.030 - .050
.766	.676	.005 - .010
.767	.073	.025 - .040
.767	.084	.015 - .030
.767	.224	.090 - .110
.767	.301	.100 - .125
.767	.315	.020 - .040
.767	.429	.005 - .010
.767	.537	.005 - .010
.767	.563	.020 - .040
.767	.576	.030 - .050
.767	.588	.015 - .030
.767	.699	.005 - .010
.768	.235	.040 - .060
.768	.378	.110 - .130
.768	.415	.050 - .070
.768	.416	.050 - .070
.768	.471	.010 - .020
.768	.530	.010 - .030
.768	.545	.020 - .040
.768	.631	.020 - .040
.769	.202	.050 - .070
.769	.240	.050 - .070
.769	.256	.005 - .035
.769	.395	.070 - .090
.769	.399	.135 - .156
.770	.141	.025 - .040
.770	.211	.040 - .060
.770	.248	.005 - .010
.770	.375	.040 - .060
.770	.377	.040 - .060
.770	.384	.020 - .040
.770	.385	.015 - .030
.770	.430	.030 - .050
.770	.474	.030 - .040
.770	.524	.040 - .060
.770	.525	.005 - .010
.770	.531	.050 - .060
.770	.536	.015 - .030
.770	.571	.025 - .040
.770	.636	.020 - .040
.770	.664	.005 - .010
.770	.680	.035 - .045
.770	.711	.015 - .030
.771	.380	.005 - .010
.771	.474	.050 - .070
.771	.511	.105 - .125
.771	.554	.010 - .020
.771	.606	.005 - .010
.771	.639	.050 - .060
.771	.700	.005 - .010
.772	.188	.020 - .040
.772	.250	.040 - .060
.772	.265	.060 - .070
.772	.404	.005 - .010
.772	.412	.050 - .060
.772	.671	.010 - .020
.773	.126	.005 - .010
.773	.238	.062 - .080
.773	.370	.060 - .080
.773	.480	.015 - .030
.773	.579	.090 - .100
.773	.656	.020 - .040
.773	.677	.040 - .050
.773	.692	.005 - .010
.774	.251	.050 - .070
.774	.556	.050 - .070
.774	.605	.010 - .020
.774	.634	.010 - .020
.774	.705	.005 - .010
.775	.228	.050 - .072
.775	.229	.070 - .090
.775	.231	.042 - .062
.775	.252	.005 - .010
.775	.324	.100 - .125
.775	.335	.015 - .030
.775	.368	.080 - .090
.775	.379	.005 - .012
.775	.428	.025 - .040
.775	.457	.005 - .010
.775	.464	.048 - .070
.775	.469	.080 - .100
.775	.500	.075 - .090
.775	.525	.100 - .125
.775	.555	.020 - .030
.775	.560	.070 - .090
.775	.602	.005 - .010
.775	.643	.005 - .030
.776	.196	.015 - .030
.776	.197	.020 - .035
.776	.221	.005 - .010
.776	.239	.070 - .090
.776	.240	.025 - .040
.776	.283	.030 - .050
.776	.386	.005 - .010
.776	.432	.070 - .090
.776	.598	.050 - .070
.776	.646	.020 - .040
.776	.653	.040 - .050
.777	.150	.005 - .010
.777	.317	.020 - .040
.777	.328	.156 - .187
.777	.392	.020 - .030
.777	.421	.025 - .040
.777	.572	.005 - .010
.777	.613	.050 - .070
.778	.221	.005 - .015
.778	.261	.060 - .070
.778	.266	.062 - .075
.778	.363	.070 - .090
.778	.386	.030 - .050
.778	.408	.020 - .040
.778	.435	.120 - .135
.778	.534	.062 - .078
.779	.190	.030 - .050
.779	.264	.025 - .040
.779	.270	.060 - .090
.779	.318	.050 - .070
.779	.323	.015 - .030
.779	.378	.090 - .105
.779	.395	.032 - .060
.779	.422	.030 - .050
.779	.439	.015 - .030
.779	.476	.100 - .125
.779	.492	.050 - .060
.779	.568	.010 - .020
.779	.579	.005 - .010
.779	.632	.030 - .060
.779	.633	.005 - .010
.779	.640	.040 - .060
.779	.680	.005 - .010
.779	.700	.010 - .020
.780	.051	.025 - .035
.780	.190	.040 - .060
.780	.267	.062 - .090
.780	.306	.015 - .030
.780	.378	.005 - .020
.780	.380	.080 - .105
.780	.390	.080 - .104
.780	.391	.080 - .100
.780	.403	.005 - .010
.780	.408	.030 - .050
.780	.420	.060 - .080
.780	.422	.015 - .040
.780	.425	.010 - .020
.780	.460	.030 - .060
.780	.484	.005 - .010
.780	.498	.080 - .104
.780	.500	.015 - .030
.780	.503	.006 - .012
.780	.510	.005 - .030
.780	.511	.030 - .050
.780	.520	.007 - .015
.780	.527	.075 - .090
.780	.529	.025 - .040
.780	.552	.040 - .060
.780	.562	.031 - .048
.780	.566	.030 - .050
.780	.570	.020 - .040
.780	.579	.005 - .015
.780	.591	.060 - .090
.780	.593	.005 - .010
.780	.598	.050 - .070
.780	.627	.020 - .030
.780	.640	.030 - .070
.780	.658	.005 - .010
.780	.672	.015 - .030
.780	.684	.025 - .040
.780	.685	.005 - .012
.781	.111	.025 - .040
.781	.142	.010 - .020
.781	.172	.010 - .020
.781	.280	.156 - .190
.781	.316	.005 - .010
.781	.317	.010 - .030
.781	.335	.005 - .050
.781	.402	.010 - .020
.781	.430	.048 - .062
.781	.448	.015 - .030
.781	.485	.005 - .010
.781	.488	.050 - .060
.781	.501	.005 - .015
.781	.518	.040 - .060
.781	.531	.008 - .012
.781	.557	.020 - .040
.781	.600	.015 - .030
.781	.605	.032 - .050
.781	.621	.040 - .060
.781	.625	.050 - .075
.781	.627	.040 - .060
.781	.628	.005 - .010
.781	.629	.025 - .060
.781	.640	.060 - .070
.782	.368	.010 - .020
.782	.437	.090 - .105
.782	.440	.015 - .030
.782	.442	.070 - .090
.782	.482	.070 - .090
.782	.500	.030 - .060
.782	.513	.030 - .050
.782	.517	.080 - .100
.782	.530	.093 - .103
.782	.542	.005 - .010
.782	.546	.010 - .020
.782	.562	.060 - .083
.782	.563	.010 - .020
.782	.699	.005 - .010
.783	.062	.030 - .050
.783	.254	.050 - .070
.783	.270	.070 - .080
.783	.278	.010 - .020
.783	.320	.050 - .070
.783	.453	.080 - .104
.783	.488	.005 - .010
.783	.500	.030 - .050
.783	.513	.025 - .040
.783	.604	.005 - .010
.783	.630	.060 - .080
.783	.635	.050 - .070
.783	.645	.005 - .020
.783	.646	.005 - .010
.783	.656	.048 - .062
.784	.480	.030 - .050
.784	.592	.015 - .030
.784	.599	.030 - .050
.784	.601	.030 - .050
.784	.612	.020 - .030
.785	.170	.042 - .062
.785	.238	.006 - .010
.785	.343	.005 - .010
.785	.357	.005 - .010
.785	.392	.110 - .130
.785	.406	.005 - .010
.785	.417	.050 - .070
.785	.450	.050 - .070
.785	.475	.015 - .050
.785	.482	.100 - .125
.785	.512	.060 - .080
.785	.520	.090 - .105
.785	.523	.005 - .020
.785	.530	.030 - .050
.785	.548	.042 - .062
.785	.556	.030 - .050
.785	.569	.005 - .010
.785	.594	.005 - .010
.785	.656	.005 - .010
.785	.696	.010 - .020
.786	.157	.015 - .030
.786	.198	.015 - .030
.786	.253	.070 - .090
.786	.257	.005 - .010
.786	.300	.005 - .010
.786	.316	.090 - .135
.786	.382	.005 - .010
.786	.396	.040 - .060
.786	.436	.050 - .070
.786	.443	.100 - .120
.786	.446	.040 - .060
.786	.452	.010 - .020
.786	.474	.005 - .010
.786	.477	.005 - .010
.786	.484	.040 - .050
.786	.502	.010 - .020
.786	.505	.005 - .020
.786	.515	.010 - .020
.786	.531	.020 - .030
.786	.535	.005 - .030
.786	.556	.040 - .060
.786	.572	.050 - .070
.786	.594	.010 - .020
.786	.598	.030 - .050
.786	.626	.030 - .050
.786	.631	.030 - .050
.786	.680	.010 - .020
.787	.129	.030 - .050
.787	.141	.040 - .060
.787	.142	.030 - .060
.787	.161	.050 - .070
.787	.188	.020 - .040
.787	.203	.040 - .060
.787	.208	.070 - .080
.787	.228	.052 - .072
.787	.238	.005 - .010
.787	.256	.010 - .020
.787	.257	.025 - .060
.787	.279	.005 - .010
.787	.315	.005 - .020
.787	.317	.005 - .010
.787	.318	.005 - .010
.787	.319	.005 - .010
.787	.324	.015 - .030
.787	.329	.005 - .010
.787	.355	.135 - .156
.787	.380	.015 - .030
.787	.392	.005 - .010
.787	.395	.005 - .010
.787	.397	.005 - .010
.787	.398	.005 - .020
.787	.399	.070 - .080
.787	.400	.040 - .060
.787	.410	.060 - .080
.787	.424	.005 - .010
.787	.433	.010 - .020
.787	.453	.005 - .010
.787	.472	.030 - .050
.787	.473	.005 - .010
.787	.475	.010 - .020
.787	.477	.050 - .070
.787	.480	.020 - .030
.787	.490	.120 - .130
.787	.525	.005 - .010
.787	.530	.030 - .050
.787	.547	.005 - .010
.787	.551	.005 - .030
.787	.556	.005 - .010
.787	.577	.005 - .010
.787	.603	.005 - .010
.787	.610	.005 - .080
.787	.630	.030 - .050
.787	.631	.005 - .010
.787	.648	.025 - .040
.787	.661	.005 - .010
.787	.677	.010 - .020
.787	.680	.060 - .080
.787	.697	.005 - .010
.787	.707	.005 - .010
.788	.128	.010 - .020
.788	.218	.040 - .060

*With BOKER'S precision 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
.788	.227	.005 - .010	.792	.317	.062 - .083	.799	.653	.005 - .010	.801	.345	.075 - .102	.808	.317	.015 - .030	.811	.342	.135 - .187
.788	.237	.080 - .100	.792	.420	.020 - .030	.799	.671	.005 - .010	.801	.376	.015 - .030	.808	.375	.105 - .125	.811	.376	.040 - .060
.788	.243	.030 - .050	.792	.485	.025 - .040	.799	.673	.005 - .010	.801	.376	.040 - .060	.808	.413	.060 - .080	.811	.393	.010 - .020
.788	.244	.005 - .010	.792	.517	.010 - .020	.799	.674	.005 - .010	.801	.400	.025 - .040	.808	.414	.025 - .040	.811	.403	.060 - .070
.788	.317	.010 - .020	.792	.606	.005 - .010	.799	.694	.005 - .010	.801	.439	.005 - .010	.808	.471	.005 - .010	.811	.411	.010 - .020
.788	.322	.005 - .010	.792	.672	.010 - .020	.799	.701	.005 - .010	.801	.490	.005 - .010	.808	.478	.020 - .040	.811	.449	.100 - .125
.788	.355	.010 - .020	.792	.695	.015 - .030	.800	.076	.005 - .010	.801	.502	.015 - .025	.808	.532	.005 - .010	.811	.548	.070 - .090
.788	.376	.005 - .010	.793	.256	.010 - .020	.800	.190	.020 - .040	.801	.505	.005 - .010	.808	.620	.015 - .030	.811	.553	.040 - .060
.788	.394	.125 - .156	.793	.386	.050 - .060	.800	.194	.050 - .070	.801	.596	.015 - .025	.808	.626	.015 - .030	.811	.566	.025 - .050
.788	.395	.005 - .010	.793	.438	.080 - .100	.800	.200	.025 - .040	.801	.598	.015 - .030	.808	.692	.030 - .050	.811	.567	.042 - .062
.788	.397	.005 - .015	.793	.439	.060 - .090	.800	.222	.065 - .080	.801	.629	.040 - .060	.809	.094	.030 - .050	.811	.568	.005 - .010
.788	.403	.005 - .030	.793	.441	.020 - .040	.800	.225	.040 - .060	.801	.650	.010 - .020	.809	.096	.015 - .032	.811	.576	.026 - .052
.788	.414	.020 - .040	.793	.471	.025 - .048	.800	.250	.020 - .030	.801	.657	.005 - .010	.809	.099	.005 - .015	.811	.577	.025 - .042
.788	.440	.005 - .010	.793	.505	.025 - .040	.800	.252	.008 - .015	.801	.674	.005 - .010	.809	.157	.050 - .070	.811	.595	.035 - .060
.788	.452	.005 - .010	.793	.575	.032 - .050	.800	.253	.040 - .060	.801	.696	.060 - .070	.809	.250	.020 - .030	.811	.623	.005 - .010
.788	.473	.010 - .020	.794	.257	.005 - .010	.800	.254	.025 - .040	.802	.257	.060 - .080	.809	.257	.030 - .050	.811	.630	.005 - .010
.788	.476	.030 - .050	.794	.285	.005 - .010	.800	.256	.005 - .010	.802	.261	.040 - .062	.809	.288	.070 - .090	.811	.656	.005 - .010
.788	.478	.030 - .050	.794	.420	.090 - .110	.800	.315	.010 - .020	.802	.346	.020 - .035	.809	.321	.025 - .042	.811	.658	.020 - .030
.788	.483	.070 - .090	.794	.477	.135 - .160	.800	.316	.005 - .010	.802	.387	.050 - .075	.809	.336	.050 - .070	.812	.127	.025 - .040
.788	.487	.040 - .060	.794	.552	.070 - .090	.800	.320	.105 - .125	.802	.408	.100 - .110	.809	.377	.005 - .010	.812	.130	.015 - .030
.788	.488	.040 - .050	.795	.116	.005 - .010	.800	.327	.020 - .040	.802	.453	.025 - .040	.809	.385	.005 - .010	.812	.136	.040 - .060
.788	.505	.050 - .070	.795	.159	.005 - .010	.800	.345	.075 - .104	.802	.503	.005 - .010	.809	.414	.070 - .090	.812	.141	.005 - .040
.788	.512	.060 - .090	.795	.170	.090 - .125	.800	.370	.005 - .012	.802	.516	.040 - .060	.809	.475	.070 - .090	.812	.191	.020 - .040
.788	.521	.048 - .062	.795	.175	.005 - .010	.800	.377	.005 - .010	.802	.596	.005 - .010	.809	.483	.032 - .042	.812	.192	.005 - .010
.788	.545	.005 - .010	.795	.187	.030 - .050	.800	.378	.005 - .078	.802	.611	.025 - .040	.809	.504	.005 - .010	.812	.219	.062 - .075
.788	.555	.040 - .060	.795	.197	.008 - .016	.800	.379	.010 - .020	.802	.622	.020 - .030	.809	.508	.005 - .010	.812	.221	.080 - .100
.788	.566	.080 - .100	.795	.267	.048 - .062	.800	.380	.040 - .060	.802	.701	.005 - .010	.809	.570	.050 - .070	.812	.245	.020 - .036
.788	.596	.030 - .050	.795	.281	.040 - .060	.800	.387	.020 - .040	.802	.704	.025 - .040	.809	.601	.020 - .040	.812	.253	.080 - .104
.788	.697	.010 - .015	.795	.340	.005 - .012	.800	.397	.005 - .010	.802	.752	.005 - .008	.809	.625	.005 - .010	.812	.255	.005 - .010
.788	.715	.005 - .010	.795	.392	.010 - .020	.800	.398	.005 - .010	.803	.261	.050 - .075	.810	.057	.005 - .010	.812	.269	.050 - .070
.788	.716	.010 - .020	.795	.427	.090 - .105	.800	.411	.070 - .090	.803	.264	.010 - .020	.810	.116	.015 - .032	.812	.312	.040 - .060
.789	.114	.025 - .040	.795	.482	.030 - .050	.800	.426	.105 - .135	.803	.345	.080 - .105	.810	.142	.040 - .060	.812	.314	.025 - .042
.789	.221	.005 - .010	.795	.509	.030 - .060	.800	.437	.005 - .010	.803	.422	.015 - .030	.810	.150	.040 - .060	.812	.315	.015 - .030
.789	.255	.010 - .020	.795	.551	.010 - .020	.800	.439	.030 - .050	.803	.517	.105 - .125	.810	.166	.025 - .040	.812	.375	.150 - .180
.789	.262	.040 - .050	.795	.577	.090 - .105	.800	.440	.005 - .010	.803	.569	.005 - .010	.810	.185	.005 - .010	.812	.376	.156 - .190
.789	.312	.042 - .060	.795	.634	.005 - .010	.800	.441	.010 - .020	.803	.715	.010 - .025	.810	.192	.050 - .062	.812	.378	.050 - .083
.789	.316	.005 - .010	.795	.655	.030 - .040	.800	.443	.005 - .020	.804	.134	.050 - .072	.810	.198	.030 - .050	.812	.379	.025 - .032
.789	.326	.005 - .010	.795	.680	.005 - .040	.800	.464	.040 - .060	.804	.191	.060 - .080	.810	.210	.025 - .042	.812	.390	.031 - .060
.789	.354	.060 - .080	.795	.730	.025 - .035	.800	.490	.030 - .050	.804	.313	.005 - .010	.810	.218	.100 - .125	.812	.391	.080 - .100
.789	.438	.005 - .010	.795	.731	.030 - .040	.800	.502	.005 - .020	.804	.330	.050 - .072	.810	.250	.062 - .078	.812	.398	.015 - .135
.789	.478	.050 - .080	.796	.256	.005 - .010	.800	.504	.005 - .030	.804	.409	.100 - .125	.810	.255	.090 - .125	.812	.401	.040 - .060
.789	.498	.005 - .010	.796	.286	.005 - .010	.800	.505	.005 - .010	.804	.602	.005 - .010	.810	.315	.020 - .040	.812	.406	.075 - .090
.789	.543	.010 - .020	.796	.290	.025 - .040	.800	.508	.005 - .010	.805	.312	.005 - .010	.810	.355	.005 - .050	.812	.409	.050 - .090
.789	.630	.010 - .020	.796	.353	.030 - .040	.800	.510	.020 - .040	.805	.564	.090 - .110	.810	.379	.005 - .090	.812	.410	.060 - .070
.790	.160	.015 - .030	.796	.397	.050 - .070	.800	.528	.005 - .010	.805	.573	.060 - .080	.810	.385	.080 - .105	.812	.411	.105 - .125
.790	.175	.050 - .070	.796	.509	.040 - .060	.800	.530	.030 - .050	.805	.632	.005 - .010	.810	.395	.005 - .010	.812	.436	.100 - .125
.790	.250	.032 - .042	.796	.520	.005 - .012	.800	.544	.005 - .010	.805	.656	.005 - .010	.810	.405	.060 - .080	.812	.437	.015 - .030
.790	.319	.005 - .010	.796	.521	.030 - .060	.800	.550	.060 - .075	.805	.672	.005 - .010	.810	.413	.005 - .012	.812	.441	.032 - .048
.790	.320	.005 - .010	.796	.525	.010 - .020	.800	.551	.005 - .010	.805	.692	.010 - .020	.810	.419	.062 - .078	.812	.442	.062 - .075
.790	.341	.020 - .040	.796	.579	.040 - .060	.800	.557	.005 - .010	.806	.209	.005 - .010	.810	.443	.005 - .010	.812	.456	.104 - .125
.790	.350	.025 - .048	.796	.602	.025 - .040	.800	.558	.005 - .015	.806	.262	.040 - .060	.810	.455	.060 - .093	.812	.469	.030 - .050
.790	.375	.015 - .030	.796	.610	.005 - .070	.800	.560	.070 - .090	.806	.300	.005 - .010	.810	.475	.025 - .042	.812	.473	.015 - .020
.790	.377	.020 - .040	.796	.630	.030 - .040	.800	.574	.050 - .060	.806	.350	.005 - .010	.810	.480	.005 - .010	.812	.501	.005 - .020
.790	.378	.040 - .050	.797	.349	.005 - .010	.800	.575	.025 - .040	.806	.378	.060 - .083	.810	.501	.080 - .100	.812	.506	.060 - .080
.790	.383	.075 - .090	.797	.413	.005 - .010	.800	.582	.005 - .010	.806	.407	.030 - .050	.810	.507	.010 - .025	.812	.508	.015 - .025
.790	.423	.025 - .040	.797	.561	.020 - .040	.800	.594	.005 - .010	.806	.469	.030 - .050	.810	.514	.080 - .125	.812	.509	.050 - .075
.790	.438	.020 - .040	.797	.691	.025 - .040	.800	.618	.005 - .010	.806	.631	.020 - .040	.810	.522	.040 - .060	.812	.515	.042 - .060
.790	.440	.010 - .020	.798	.312	.010 - .025	.800	.619	.005 - .010	.806	.636	.005 - .010	.810	.533	.025 - .050	.812	.517	.030 - .040
.790	.441	.020 - .040	.798	.351	.010 - .020	.800	.623	.050 - .075	.806	.641	.060 - .083	.810	.543	.020 - .040	.812	.524	.050 - .070
.790	.450	.030 - .042	.798	.378	.005 - .010	.800	.626	.005 - .010	.806	.650	.050 - .070	.810	.545	.020 - .040	.812	.530	.032 - .042
.790	.452	.030 - .060	.798	.487	.005 - .010	.800	.628	.025 - .080	.806	.671	.005 - .010	.810	.551	.005 - .010	.812	.540	.010 - .020
.790	.478	.025 - .045	.798	.578	.005 - .090	.800	.631	.010 - .020	.806	.691	.020 - .040	.810	.561	.120 - .140	.812	.561	.005 - .030
.790	.500	.050 - .072	.798	.624	.070 - .090	.800	.639	.005 - .010	.806	.692	.005 - .010	.810	.564	.005 - .015	.812	.577	.020 - .040
.790	.511	.125 - .135	.798	.632	.010 - .020	.800	.641	.016 - .025	.807	.117	.015 - .030	.810	.565	.025 - .050	.812	.591	.020 - .030
.790	.515	.020 - .040	.798	.656	.005 - .010	.800	.645	.025 - .040	.807	.222	.015 - .030	.810	.569	.020 - .040	.812	.592	.005 - .050
.790	.550	.030 - .042	.798	.711	.010 - .020	.800	.654	.040 - .060	.807	.283	.005 - .010	.810	.600	.040 - .060	.812	.596	.025 - .040
.790	.565	.040 - .060	.799	.252	.005 - .010	.800	.659	.010 - .020	.807	.389	.050 - .070	.810	.646	.005 - .010	.812	.625	.015 - .110
.790	.586	.015 - .025	.799	.360	.170 - .190	.800	.670	.005 - .020	.807	.445	.040 - .060	.810	.652	.005 - .010	.812	.641	.015 - .080
.790	.623	.050 - .070	.799	.397	.010 - .020	.800	.672	.005 - .010	.807	.531	.080 - .090	.810	.675	.005 - .010	.812	.647	.015 - .025
.790	.642	.010 - .040	.799	.401	.030 - .050	.800	.675	.005 - .010	.807	.534	.005 - .010	.810	.690	.010 - .020	.812	.650	.040 - .060
.790	.650	.030 - .042	.799	.439	.005 - .010	.800	.677	.005 - .010	.807	.598	.020 - .040	.810	.703	.005 - .010	.812	.655	.020 - .030
.790	.694	.040 - .060	.799	.471	.005 - .010	.800	.678	.005 - .010	.807	.625	.005 - .010	.810	.706	.025 - .042	.812	.675	.020 - .040
.790	.728	.010 - .020	.799	.472	.030 - .050	.800	.679	.005 - .010	.807	.629	.020 - .040	.810	.723	.005 - .010	.812	.687	.050 - .070
.791	.056	.015 - .030	.799	.492	.080 - .100	.800	.680	.005 - .010	.807	.638	.015 - .030	.811	.116	.005 - .015	.812	.697	.050 - .062
.791	.323	.050 - .070	.799	.500	.005 - .010	.800	.694	.020 - .040	.807	.640	.010 - .020	.811	.156	.030 - .050	.812	.707	.005 - .010
.791	.400	.010 - .020	.799	.501	.010 - .020	.800	.711	.010 - .040	.807	.670	.050 - .070	.811	.188	.040 - .060	.813	.156	.040 - .060
.791	.401	.025 - .040	.799	.505	.025 - .040	.801	.148	.010 - .020	.807	.690	.015 - .030	.811	.201	.040 - .060	.813	.162	.040 - .060
.791	.531	.010 - .020	.799	.580	.050 - .075	.801	.255	.030 - .060	.807	.745	.020 - .031	.811	.282	.050 - .070	.813	.194	.100 - .125
.791	.635	.005 - .010	.799	.596	.005 - .010	.801	.321	.040 - .050	.808	.228	.005 - .015	.811	.322	.030 - .050	.813	.204	.005 - .010
.791	.674	.010 - .020	.799	.629	.015 - .025	.801	.332	.080 - .104	.808	.231	.060 - .080	.811	.333	.005 - .010	.813	.272	.100 - .134

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

For non-metallic materials, contact BOKER'S — (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
.813	.318	.060 - .080	.819	.675	.025 - .040	.826	.620	.030 - .050	.834	.562	.005 - .010	.842	.378	.025 - .042	.849	.631	.010 - .020
.813	.328	.005 - .010	.819	.690	.020 - .035	.826	.660	.020 - .040	.834	.590	.030 - .050	.842	.470	.050 - .070	.850	.155	.005 - .010
.813	.350	.030 - .050	.819	.700	.040 - .060	.826	.711	.025 - .040	.834	.596	.030 - .050	.842	.593	.080 - .095	.850	.174	.025 - .040
.813	.380	.100 - .125	.820	.090	.005 - .010	.827	.187	.010 - .020	.834	.759	.010 - .020	.842	.631	.005 - .008	.850	.175	.050 - .070
.813	.406	.030 - .125	.820	.125	.015 - .030	.827	.215	.005 - .010	.835	.200	.020 - .035	.842	.632	.010 - .020	.850	.180	.120 - .135
.813	.407	.100 - .125	.820	.159	.105 - .135	.827	.236	.005 - .010	.835	.221	.005 - .010	.842	.690	.005 - .010	.850	.200	.020 - .080
.813	.419	.005 - .010	.820	.198	.005 - .010	.827	.238	.005 - .010	.835	.390	.040 - .060	.842	.729	.005 - .010	.850	.240	.048 - .072
.813	.431	.005 - .010	.820	.221	.010 - .020	.827	.317	.005 - .125	.835	.441	.070 - .090	.842	.764	.005 - .010	.850	.250	.015 - .030
.813	.435	.100 - .125	.820	.280	.060 - .075	.827	.318	.005 - .010	.835	.480	.010 - .020	.843	.142	.010 - .020	.850	.251	.120 - .140
.813	.441	.050 - .070	.820	.310	.005 - .010	.827	.328	.060 - .080	.835	.506	.080 - .100	.843	.210	.040 - .060	.850	.252	.005 - .010
.813	.450	.040 - .060	.820	.315	.005 - .010	.827	.331	.120 - .135	.835	.570	.005 - .050	.843	.260	.005 - .010	.850	.283	.005 - .010
.813	.493	.005 - .010	.820	.320	.040 - .060	.827	.332	.156 - .187	.835	.595	.010 - .020	.843	.390	.070 - .090	.850	.301	.015 - .030
.813	.494	.020 - .040	.820	.340	.005 - .010	.827	.376	.005 - .010	.835	.685	.030 - .060	.843	.453	.100 - .125	.850	.302	.105 - .125
.813	.496	.010 - .020	.820	.348	.005 - .010	.827	.393	.005 - .010	.835	.753	.020 - .040	.843	.500	.005 - .010	.850	.316	.090 - .105
.813	.500	.050 - .083	.820	.380	.005 - .010	.827	.407	.090 - .120	.835	.782	.020 - .030	.843	.530	.040 - .060	.850	.319	.060 - .080
.813	.504	.105 - .135	.820	.392	.010 - .020	.827	.412	.005 - .010	.836	.416	.010 - .020	.843	.559	.050 - .072	.850	.330	.020 - .040
.813	.510	.020 - .040	.820	.395	.050 - .075	.827	.415	.060 - .080	.836	.450	.040 - .060	.843	.630	.005 - .010	.850	.340	.005 - .010
.813	.562	.080 - .100	.820	.405	.135 - .160	.827	.473	.005 - .010	.836	.680	.005 - .060	.843	.656	.010 - .020	.850	.350	.080 - .104
.813	.563	.005 - .020	.820	.442	.025 - .040	.827	.509	.050 - .075	.836	.705	.032 - .060	.843	.689	.030 - .040	.850	.351	.030 - .050
.813	.597	.020 - .040	.820	.450	.012 - .025	.827	.632	.005 - .010	.837	.506	.115 - .130	.843	.782	.020 - .030	.850	.356	.010 - .020
.813	.631	.010 - .020	.820	.453	.015 - .025	.827	.749	.005 - .010	.837	.527	.040 - .060	.844	.099	.025 - .040	.850	.374	.005 - .010
.813	.634	.060 - .080	.820	.460	.030 - .040	.828	.108	.005 - .010	.837	.530	.048 - .075	.844	.397	.005 - .010	.850	.377	.005 - .020
.813	.659	.035 - .048	.820	.482	.070 - .090	.828	.317	.010 - .015	.837	.591	.005 - .010	.844	.555	.010 - .020	.850	.378	.005 - .010
.813	.680	.005 - .030	.820	.500	.005 - .010	.828	.407	.015 - .030	.837	.633	.025 - .040	.844	.578	.005 - .010	.850	.380	.030 - .040
.813	.728	.005 - .010	.820	.536	.050 - .070	.828	.447	.060 - .080	.837	.679	.025 - .040	.844	.610	.030 - .060	.850	.382	.005 - .125
.814	.412	.060 - .080	.820	.542	.005 - .010	.828	.499	.005 - .008	.837	.783	.010 - .020	.844	.666	.070 - .090	.850	.384	.100 - .125
.814	.522	.040 - .060	.820	.559	.050 - .075	.828	.502	.030 - .040	.838	.281	.032 - .060	.844	.703	.005 - .010	.850	.433	.005 - .010
.814	.532	.090 - .105	.820	.564	.100 - .125	.828	.504	.005 - .020	.838	.290	.050 - .075	.844	.711	.015 - .030	.850	.495	.015 - .025
.814	.598	.050 - .075	.820	.565	.100 - .125	.828	.530	.005 - .010	.838	.376	.015 - .030	.845	.163	.010 - .020	.850	.500	.015 - .025
.814	.628	.020 - .030	.820	.566	.005 - .010	.828	.590	.015 - .030	.838	.482	.031 - .048	.845	.313	.015 - .090	.850	.502	.005 - .010
.814	.637	.042 - .062	.820	.572	.105 - .125	.828	.655	.005 - .010	.838	.483	.050 - .075	.845	.466	.005 - .010	.850	.503	.005 - .010
.814	.641	.005 - .010	.820	.600	.005 - .010	.828	.727	.005 - .010	.838	.508	.005 - .010	.845	.482	.005 - .010	.850	.506	.020 - .040
.814	.751	.020 - .030	.820	.678	.010 - .020	.829	.137	.025 - .048	.838	.563	.040 - .060	.845	.495	.020 - .030	.850	.509	.005 - .135
.815	.129	.020 - .040	.820	.698	.005 - .030	.829	.250	.030 - .050	.838	.618	.040 - .060	.845	.497	.015 - .030	.850	.510	.005 - .012
.815	.221	.020 - .030	.820	.726	.015 - .025	.829	.283	.020 - .030	.838	.651	.010 - .020	.845	.513	.015 - .030	.850	.513	.005 - .060
.815	.255	.060 - .075	.821	.144	.032 - .048	.829	.414	.007 - .090	.838	.665	.005 - .010	.845	.651	.030 - .050	.850	.523	.040 - .060
.815	.260	.048 - .062	.821	.157	.030 - .040	.829	.430	.100 - .125	.838	.706	.015 - .020	.845	.660	.010 - .020	.850	.535	.050 - .075
.815	.281	.105 - .120	.821	.266	.010 - .020	.829	.468	.100 - .125	.838	.756	.005 - .010	.845	.758	.005 - .035	.850	.566	.005 - .010
.815	.309	.005 - .010	.821	.416	.100 - .125	.829	.475	.080 - .104	.839	.316	.015 - .030	.845	.782	.005 - .010	.850	.574	.060 - .080
.815	.439	.025 - .040	.821	.596	.005 - .030	.829	.480	.105 - .135	.839	.502	.005 - .010	.846	.242	.032 - .050	.850	.585	.010 - .020
.815	.444	.005 - .012	.821	.625	.005 - .010	.829	.500	.005 - .010	.839	.591	.010 - .015	.846	.273	.005 - .010	.850	.595	.090 - .105
.815	.468	.025 - .036	.821	.636	.060 - .080	.829	.503	.025 - .040	.839	.628	.050 - .070	.846	.320	.015 - .030	.850	.600	.010 - .020
.815	.500	.015 - .030	.821	.727	.030 - .048	.829	.648	.050 - .070	.839	.652	.005 - .010	.846	.327	.005 - .010	.850	.612	.005 - .010
.815	.527	.080 - .104	.822	.200	.020 - .030	.829	.653	.030 - .060	.840	.165	.005 - .010	.846	.455	.030 - .060	.850	.620	.005 - .010
.815	.555	.030 - .050	.822	.523	.060 - .080	.829	.761	.020 - .030	.840	.246	.104 - .125	.846	.456	.035 - .050	.850	.625	.060 - .080
.815	.556	.015 - .025	.822	.693	.050 - .070	.830	.160	.060 - .090	.840	.292	.020 - .040	.846	.630	.005 - .010	.850	.627	.005 - .010
.815	.578	.080 - .100	.823	.407	.005 - .010	.830	.187	.020 - .040	.840	.310	.060 - .080	.846	.639	.005 - .040	.850	.630	.015 - .020
.815	.669	.025 - .040	.823	.523	.070 - .090	.830	.379	.005 - .035	.840	.313	.105 - .125	.846	.658	.032 - .050	.850	.635	.015 - .030
.816	.439	.015 - .030	.823	.755	.005 - .020	.830	.405	.040 - .060	.840	.316	.015 - .030	.846	.662	.010 - .020	.850	.650	.070 - .080
.816	.456	.070 - .090	.823	.756	.005 - .010	.830	.461	.015 - .030	.840	.340	.010 - .025	.846	.663	.030 - .060	.850	.664	.005 - .030
.816	.510	.005 - .012	.824	.321	.005 - .010	.830	.475	.025 - .040	.840	.384	.010 - .025	.846	.670	.040 - .060	.850	.673	.015 - .030
.816	.520	.015 - .025	.824	.333	.005 - .010	.830	.515	.005 - .010	.840	.387	.015 - .030	.846	.697	.015 - .030	.850	.706	.005 - .010
.817	.319	.060 - .083	.824	.508	.050 - .070	.830	.530	.090 - .120	.840	.390	.005 - .010	.846	.757	.005 - .010	.850	.711	.015 - .030
.817	.321	.015 - .030	.824	.543	.025 - .040	.830	.556	.010 - .025	.840	.470	.060 - .083	.847	.193	.090 - .105	.850	.731	.020 - .040
.817	.411	.040 - .060	.824	.605	.042 - .062	.830	.564	.100 - .125	.840	.499	.005 - .010	.847	.253	.005 - .010	.850	.735	.005 - .030
.817	.455	.060 - .090	.825	.238	.005 - .010	.830	.565	.030 - .050	.840	.503	.005 - .010	.847	.323	.005 - .010	.850	.750	.010 - .020
.817	.505	.050 - .070	.825	.317	.005 - .010	.830	.590	.070 - .090	.840	.515	.025 - .040	.847	.416	.005 - .010	.850	.756	.020 - .030
.817	.631	.005 - .010	.825	.319	.005 - .020	.830	.605	.025 - .040	.840	.535	.005 - .010	.847	.422	.005 - .010	.850	.809	.010 - .020
.817	.660	.005 - .010	.825	.399	.005 - .010	.830	.628	.025 - .040	.840	.545	.100 - .135	.847	.500	.005 - .010	.851	.093	.005 - .010
.817	.661	.005 - .010	.825	.400	.015 - .030	.830	.632	.025 - .040	.840	.556	.032 - .040	.847	.522	.005 - .010	.851	.164	.050 - .070
.817	.690	.012 - .020	.825	.414	.105 - .125	.830	.636	.015 - .030	.840	.558	.005 - .010	.847	.536	.005 - .010	.851	.173	.005 - .010
.817	.711	.005 - .010	.825	.483	.040 - .060	.830	.649	.010 - .020	.840	.569	.005 - .010	.848	.067	.010 - .020	.851	.184	.040 - .090
.817	.750	.010 - .020	.825	.511	.005 - .010	.830	.693	.020 - .035	.840	.575	.060 - .070	.848	.199	.025 - .040	.851	.185	.060 - .090
.818	.264	.030 - .040	.825	.518	.070 - .080	.830	.696	.005 - .010	.840	.631	.030 - .060	.848	.317	.005 - .010	.851	.384	.104 - .134
.818	.317	.030 - .040	.825	.525	.010 - .020	.830	.711	.015 - .030	.840	.633	.007 - .015	.848	.323	.005 - .020	.851	.385	.010 - .020
.818	.321	.010 - .020	.825	.527	.090 - .125	.831	.239	.005 - .010	.840	.643	.075 - .090	.848	.472	.015 - .030	.851	.401	.005 - .010
.818	.330	.005 - .010	.825	.543	.015 - .030	.831	.584	.015 - .025	.840	.650	.048 - .062	.848	.492	.050 - .070	.851	.421	.105 - .120
.818	.391	.125 - .156	.825	.577	.020 - .040	.831	.649	.005 - .010	.840	.674	.010 - .020	.848	.505	.005 - .010	.851	.450	.030 - .050
.818	.432	.060 - .080	.825	.624	.005 - .015	.832	.461	.010 - .025	.840	.675	.015 - .030	.848	.510	.010 - .020	.851	.503	.005 - .010
.818	.480	.005 - .010	.825	.632	.030 - .040	.832	.520	.050 - .070	.840	.676	.020 - .035	.848	.540	.005 - .010	.851	.513	.040 - .060
.818	.549	.005 - .010	.825	.669	.020 - .030	.832	.551	.005 - .010	.840	.680	.005 - .010	.848	.610	.010 - .020	.851	.564	.030 - .050
.818	.591	.090 - .110	.825	.709	.005 - .010	.832	.574	.030 - .050	.840	.682	.015 - .030	.848	.685	.032 - .062	.851	.571	.005 - .010
.818	.644	.010 - .020	.826	.250	.040 - .050	.832	.595	.005 - .010	.840	.711	.020 - .040	.848	.750	.010 - .020	.851	.633	.005 - .010
.818	.690	.040 - .060	.826	.314	.030 - .050	.832	.598	.005 - .010	.840	.731	.030 - .050	.849	.151	.030 - .060	.851	.640	.005 - .010
.818	.720	.025 - .040	.826	.319	.030 - .050	.832	.751	.030 - .040	.840	.748	.015 - .025	.849	.386	.050 - .075	.851	.655	.005 - .010
.819	.065	.025 - .040	.826	.359	.105 - .125	.833	.607	.005 - .010	.841	.440	.025 - .040	.849	.401	.040 - .060	.851	.671	.040 - .060
.819	.174	.005 - .010	.826	.401	.010 - .020	.833	.730	.030 - .042	.841	.631	.030 - .050	.849	.413	.005 - .010	.852	.187	.040 - .060
.819	.250	.005 - .010	.826	.414	.025 - .040	.833	.770	.010 - .020	.841	.651	.005 - .010	.849	.497	.005 - .010	.852	.257	.062 - .090
.819	.260	.010 - .020	.826	.434	.050 - .070	.834	.093	.050 - .070	.841	.663	.015 - .030	.849	.520	.005 - .010	.852	.409	.005 - .020
.819	.531	.005 - .010	.826	.536	.090 - .105	.834	.462	.020 - .040	.841	.752	.010 - .020	.849	.606	.005 - .010	.852	.503	.020 - .030

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

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

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

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
.852	.528	.015 - .030	.859	.489	.020 - .030	.863	.531	.005 - .050	.866	.453	.030 - .040	.868	.687	.005 - .010	.870	.761	.020 - .030
.852	.534	.015 - .025	.859	.508	.025 - .050	.863	.540	.015 - .030	.866	.473	.005 - .010	.868	.689	.005 - .010	.870	.810	.015 - .025
.852	.543	.025 - .040	.859	.515	.032 - .042	.863	.626	.090 - .120	.866	.474	.005 - .020	.868	.719	.070 - .090	.871	.211	.050 - .070
.852	.628	.020 - .040	.859	.606	.060 - .080	.863	.679	.040 - .062	.866	.475	.010 - .020	.868	.736	.010 - .020	.871	.381	.030 - .110
.852	.685	.020 - .062	.859	.628	.020 - .030	.863	.680	.005 - .008	.866	.484	.070 - .090	.868	.751	.010 - .020	.871	.383	.060 - .070
.853	.266	.030 - .060	.859	.629	.005 - .010	.863	.682	.010 - .020	.866	.496	.100 - .125	.868	.760	.025 - .040	.871	.410	.030 - .050
.853	.357	.005 - .010	.859	.646	.020 - .040	.863	.687	.015 - .020	.866	.500	.010 - .020	.869	.279	.105 - .135	.871	.455	.005 - .010
.853	.401	.040 - .060	.859	.650	.030 - .070	.863	.688	.005 - .010	.866	.531	.025 - .040	.869	.393	.020 - .035	.871	.477	.060 - .090
.853	.408	.050 - .070	.859	.671	.040 - .060	.863	.759	.015 - .050	.866	.543	.030 - .060	.869	.430	.125 - .187	.871	.579	.010 - .020
.853	.438	.016 - .025	.859	.675	.030 - .050	.864	.208	.005 - .010	.866	.545	.020 - .040	.869	.508	.050 - .070	.871	.581	.070 - .090
.853	.467	.010 - .020	.859	.705	.005 - .010	.864	.316	.005 - .010	.866	.562	.015 - .030	.869	.539	.010 - .020	.871	.582	.005 - .010
.853	.628	.040 - .060	.859	.779	.005 - .010	.864	.368	.005 - .010	.866	.568	.040 - .060	.869	.575	.005 - .010	.871	.590	.005 - .010
.853	.632	.005 - .010	.860	.036	.032 - .042	.864	.430	.040 - .060	.866	.591	.030 - .050	.869	.628	.020 - .080	.871	.673	.010 - .020
.853	.726	.030 - .050	.860	.171	.015 - .030	.864	.505	.015 - .025	.866	.592	.005 - .010	.869	.667	.020 - .030	.871	.675	.015 - .030
.853	.750	.005 - .010	.860	.192	.090 - .125	.864	.536	.080 - .104	.866	.626	.040 - .060	.870	.125	.005 - .015	.871	.752	.005 - .010
.854	.077	.005 - .030	.860	.225	.030 - .040	.864	.551	.005 - .010	.866	.627	.025 - .040	.870	.170	.025 - .040	.871	.757	.010 - .020
.854	.329	.050 - .075	.860	.252	.015 - .030	.864	.569	.010 - .020	.866	.631	.010 - .020	.870	.184	.040 - .062	.871	.771	.025 - .040
.854	.352	.100 - .125	.860	.261	.010 - .030	.864	.595	.005 - .008	.866	.637	.015 - .030	.870	.186	.005 - .010	.872	.153	.040 - .060
.854	.578	.010 - .020	.860	.265	.075 - .090	.864	.620	.010 - .020	.866	.638	.060 - .070	.870	.196	.005 - .015	.872	.189	.005 - .015
.854	.583	.030 - .050	.860	.275	.030 - .050	.864	.628	.050 - .070	.866	.642	.005 - .010	.870	.202	.005 - .010	.872	.219	.060 - .083
.854	.605	.005 - .010	.860	.314	.075 - .090	.864	.633	.005 - .010	.866	.643	.005 - .010	.870	.239	.005 - .010	.872	.221	.080 - .100
.854	.650	.005 - .010	.860	.321	.062 - .090	.864	.639	.042 - .062	.866	.647	.015 - .030	.870	.248	.040 - .060	.872	.254	.010 - .020
.854	.655	.005 - .010	.860	.324	.060 - .080	.864	.781	.010 - .020	.866	.670	.005 - .010	.870	.264	.100 - .125	.872	.261	.005 - .010
.854	.808	.015 - .020	.860	.338	.005 - .010	.865	.205	.005 - .010	.866	.697	.015 - .025	.870	.280	.120 - .150	.872	.267	.030 - .050
.855	.078	.005 - .010	.860	.340	.020 - .030	.865	.260	.020 - .040	.866	.709	.040 - .060	.870	.307	.010 - .030	.872	.269	.032 - .042
.855	.130	.060 - .080	.860	.384	.005 - .015	.865	.351	.020 - .030	.866	.719	.015 - .030	.870	.312	.013 - .028	.872	.306	.020 - .030
.855	.229	.050 - .075	.860	.428	.100 - .125	.865	.398	.020 - .040	.866	.750	.015 - .030	.870	.313	.015 - .025	.872	.320	.042 - .062
.855	.242	.020 - .040	.860	.439	.020 - .035	.865	.412	.060 - .080	.866	.756	.005 - .010	.870	.316	.012 - .020	.872	.334	.010 - .050
.855	.327	.048 - .072	.860	.458	.010 - .020	.865	.421	.040 - .060	.866	.758	.010 - .030	.870	.318	.080 - .100	.872	.376	.010 - .020
.855	.331	.030 - .050	.860	.488	.010 - .020	.865	.434	.005 - .010	.866	.814	.005 - .010	.870	.320	.040 - .060	.872	.386	.010 - .020
.855	.375	.005 - .062	.860	.496	.005 - .010	.865	.471	.005 - .010	.867	.129	.020 - .040	.870	.345	.025 - .040	.872	.388	.010 - .020
.855	.376	.070 - .090	.860	.512	.005 - .010	.865	.476	.020 - .040	.867	.264	.070 - .090	.870	.352	.005 - .010	.872	.394	.005 - .025
.855	.503	.010 - .080	.860	.540	.040 - .060	.865	.477	.005 - .010	.867	.336	.090 - .120	.870	.354	.060 - .080	.872	.397	.040 - .060
.855	.509	.070 - .080	.860	.562	.015 - .030	.865	.479	.070 - .090	.867	.360	.020 - .040	.870	.381	.090 - .120	.872	.399	.005 - .010
.855	.512	.005 - .010	.860	.563	.005 - .015	.865	.492	.036 - .060	.867	.370	.025 - .040	.870	.387	.135 - .187	.872	.402	.010 - .020
.855	.531	.010 - .020	.860	.592	.005 - .010	.865	.493	.010 - .020	.867	.381	.030 - .060	.870	.393	.050 - .070	.872	.475	.060 - .083
.855	.562	.005 - .010	.860	.600	.005 - .010	.865	.551	.080 - .100	.867	.387	.005 - .010	.870	.394	.070 - .080	.872	.476	.055 - .085
.855	.598	.005 - .010	.860	.602	.010 - .020	.865	.553	.010 - .020	.867	.394	.010 - .020	.870	.421	.040 - .060	.872	.562	.075 - .090
.855	.599	.105 - .135	.860	.625	.050 - .070	.865	.566	.005 - .010	.867	.398	.005 - .010	.870	.437	.060 - .080	.872	.593	.075 - .104
.855	.651	.050 - .062	.860	.629	.030 - .050	.865	.570	.030 - .040	.867	.405	.090 - .105	.870	.440	.156 - .187	.872	.605	.005 - .010
.855	.691	.050 - .070	.860	.634	.020 - .030	.865	.597	.042 - .062	.867	.413	.005 - .010	.870	.450	.090 - .120	.872	.626	.005 - .010
.856	.088	.010 - .020	.860	.645	.040 - .060	.865	.626	.040 - .060	.867	.452	.005 - .010	.870	.459	.010 - .020	.872	.687	.005 - .010
.856	.123	.005 - .010	.860	.676	.005 - .030	.865	.630	.005 - .010	.867	.474	.090 - .110	.870	.461	.040 - .060	.872	.725	.040 - .060
.856	.265	.048 - .062	.860	.691	.005 - .010	.865	.634	.005 - .070	.867	.560	.040 - .060	.870	.472	.005 - .010	.872	.728	.005 - .010
.856	.286	.050 - .070	.860	.698	.030 - .050	.865	.635	.005 - .010	.867	.566	.005 - .010	.870	.502	.030 - .040	.872	.754	.005 - .010
.856	.380	.010 - .020	.860	.705	.005 - .050	.865	.650	.020 - .030	.867	.593	.015 - .030	.870	.505	.040 - .075	.872	.755	.005 - .025
.856	.443	.020 - .040	.860	.711	.025 - .040	.865	.672	.010 - .015	.867	.608	.080 - .120	.870	.506	.080 - .105	.872	.760	.005 - .010
.856	.616	.025 - .040	.860	.742	.030 - .050	.865	.698	.005 - .010	.867	.632	.025 - .040	.870	.508	.105 - .135	.872	.807	.010 - .015
.856	.628	.060 - .080	.860	.750	.005 - .010	.865	.714	.005 - .010	.867	.638	.012 - .020	.870	.512	.005 - .010	.873	.140	.048 - .062
.856	.640	.015 - .030	.860	.757	.005 - .010	.865	.715	.032 - .042	.867	.670	.015 - .030	.870	.520	.075 - .090	.873	.153	.050 - .075
.856	.650	.010 - .020	.860	.767	.005 - .010	.865	.740	.020 - .040	.867	.688	.005 - .008	.870	.540	.005 - .010	.873	.194	.070 - .090
.856	.671	.010 - .020	.860	.778	.005 - .010	.865	.755	.032 - .050	.867	.690	.010 - .020	.870	.541	.105 - .125	.873	.195	.005 - .010
.856	.688	.005 - .010	.860	.785	.010 - .020	.865	.756	.005 - .010	.867	.704	.025 - .040	.870	.551	.050 - .070	.873	.224	.020 - .040
.856	.689	.030 - .050	.861	.499	.030 - .050	.865	.794	.005 - .010	.867	.709	.005 - .010	.870	.557	.005 - .010	.873	.307	.007 - .016
.856	.734	.010 - .020	.861	.527	.040 - .060	.866	.157	.020 - .030	.867	.710	.010 - .030	.870	.562	.005 - .060	.873	.312	.030 - .050
.857	.312	.005 - .010	.861	.601	.030 - .050	.866	.197	.080 - .100	.867	.724	.040 - .060	.870	.567	.090 - .105	.873	.361	.105 - .125
.857	.409	.005 - .010	.861	.620	.060 - .080	.866	.236	.005 - .020	.867	.753	.005 - .010	.870	.578	.040 - .060	.873	.365	.005 - .010
.857	.555	.015 - .025	.861	.636	.005 - .010	.866	.239	.030 - .050	.867	.760	.015 - .030	.870	.580	.010 - .020	.873	.378	.040 - .060
.857	.640	.025 - .040	.861	.638	.050 - .070	.866	.242	.005 - .010	.867	.770	.030 - .050	.870	.581	.042 - .060	.873	.381	.005 - .010
.857	.665	.010 - .020	.861	.689	.030 - .050	.866	.276	.030 - .040	.867	.794	.005 - .010	.870	.608	.030 - .060	.873	.387	.015 - .025
.857	.692	.030 - .050	.861	.749	.015 - .020	.866	.299	.005 - .020	.868	.237	.005 - .010	.870	.610	.005 - .012	.873	.388	.005 - .010
.858	.352	.100 - .125	.861	.763	.005 - .010	.866	.302	.060 - .080	.868	.238	.005 - .010	.870	.625	.015 - .030	.873	.405	.015 - .030
.858	.564	.030 - .060	.862	.256	.050 - .072	.866	.315	.005 - .020	.868	.315	.015 - .060	.870	.628	.025 - .040	.873	.410	.105 - .135
.858	.596	.030 - .050	.862	.295	.040 - .070	.866	.316	.005 - .010	.868	.317	.005 - .010	.870	.629	.005 - .010	.873	.412	.005 - .010
.858	.619	.050 - .070	.862	.312	.025 - .042	.866	.317	.005 - .010	.868	.442	.005 - .010	.870	.632	.010 - .050	.873	.436	.050 - .075
.858	.626	.005 - .010	.862	.407	.015 - .025	.866	.318	.005 - .010	.868	.462	.030 - .050	.870	.639	.005 - .010	.873	.440	.105 - .135
.858	.630	.005 - .010	.862	.427	.020 - .030	.866	.319	.005 - .010	.868	.473	.005 - .010	.870	.640	.030 - .060	.873	.467	.015 - .030
.858	.649	.030 - .050	.862	.472	.050 - .060	.866	.322	.005 - .010	.868	.477	.005 - .010	.870	.647	.005 - .010	.873	.470	.030 - .050
.858	.650	.008 - .020	.862	.518	.090 - .125	.866	.325	.090 - .105	.868	.513	.015 - .025	.870	.649	.015 - .030	.873	.503	.015 - .070
.858	.653	.025 - .040	.862	.529	.050 - .075	.866	.336	.070 - .080	.868	.521	.100 - .134	.870	.650	.040 - .060	.873	.522	.020 - .040
.858	.720	.030 - .050	.862	.538	.015 - .030	.866	.350	.025 - .040	.868	.527	.010 - .020	.870	.682	.015 - .075	.873	.532	.170 - .190
.858	.725	.040 - .060	.862	.572	.060 - .075	.866	.355	.005 - .010	.868	.563	.080 - .100	.870	.687	.050 - .062	.873	.546	.050 - .070
.858	.773	.010 - .020	.862	.680	.020 - .032	.866	.394	.005 - .020	.868	.606	.015 - .030	.870	.691	.005 - .010	.873	.582	.100 - .125
.859	.064	.030 - .050	.862	.692	.020 - .030	.866	.395	.010 - .020	.868	.607	.015 - .030	.870	.695	.005 - .010	.873	.599	.075 - .090
.859	.171	.010 - .020	.862	.751	.030 - .050	.866	.396	.005 - .010	.868	.610	.090 - .125	.870	.711	.025 - .040	.873	.604	.025 - .040
.859	.265	.075 - .090	.863	.139	.030 - .050	.866	.397	.005 - .015	.868	.620	.005 - .010	.870	.728	.005 - .010	.873	.627	.030 - .060
.859	.380	.005 - .015	.863	.272	.062 - .078	.866	.401	.105 - .125	.868	.627	.080 - .105	.870	.738	.005 - .010	.873	.628	.105 - .125
.859	.439	.020 - .030	.863	.375	.025 - .040	.866	.416	.005 - .010	.868	.641	.040 - .060	.870	.744	.005 - .010	.873	.630	.005 - .050
.859	.450	.005 - .020	.863	.422	.090 - .120	.866	.439	.005 - .010	.868	.664	.060 - .080	.870	.754	.005 - .012	.873	.632	.005 - .015
.859	.454	.015 - .030	.863	.505	.005 - .010	.866	.444	.005 - .010	.868	.665	.010 - .030	.870	.755	.042 - .062	.873	.780	.025 - .040

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

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

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
.874	.200	.042 - .080	.875	.281	.005 - .010	.875	.621	.060 - .080	.877	.128	.060 - .080	.880	.386	.070 - .090	.889	.786	.005 - .010
.874	.203	.040 - .060	.875	.282	.030 - .050	.875	.626	.050 - .070	.877	.170	.035 - .060	.880	.406	.005 - .010	.890	.192	.050 - .072
.874	.243	.030 - .050	.875	.315	.100 - .134	.875	.628	.005 - .060	.877	.173	.100 - .125	.880	.407	.080 - .105	.890	.273	.070 - .105
.874	.259	.005 - .010	.875	.318	.090 - .110	.875	.630	.050 - .070	.877	.250	.030 - .050	.880	.426	.005 - .015	.890	.385	.090 - .105
.874	.266	.025 - .040	.875	.320	.010 - .020	.875	.631	.015 - .030	.877	.254	.100 - .125	.880	.430	.005 - .010	.890	.405	.100 - .125
.874	.312	.005 - .010	.875	.320	.070 - .090	.875	.632	.100 - .125	.877	.281	.010 - .015	.880	.455	.005 - .012	.890	.438	.030 - .040
.874	.316	.005 - .010	.875	.324	.030 - .040	.875	.635	.005 - .010	.877	.313	.025 - .040	.880	.485	.050 - .060	.890	.504	.015 - .030
.874	.329	.060 - .083	.875	.325	.050 - .072	.875	.637	.010 - .104	.877	.329	.020 - .030	.880	.495	.005 - .010	.890	.530	.010 - .030
.874	.330	.025 - .040	.875	.327	.090 - .125	.875	.650	.100 - .125	.877	.377	.012 - .020	.880	.505	.015 - .025	.890	.537	.105 - .125
.874	.375	.060 - .187	.875	.328	.005 - .010	.875	.652	.031 - .048	.877	.389	.134 - .187	.880	.518	.040 - .060	.890	.580	.005 - .008
.874	.376	.020 - .040	.875	.330	.080 - .104	.875	.654	.075 - .100	.877	.407	.170 - .190	.880	.523	.005 - .010	.890	.582	.005 - .010
.874	.377	.015 - .080	.875	.337	.050 - .072	.875	.660	.062 - .078	.877	.442	.070 - .080	.880	.530	.030 - .040	.890	.587	.005 - .010
.874	.381	.005 - .010	.875	.340	.005 - .010	.875	.666	.040 - .060	.877	.494	.072 - .083	.880	.541	.025 - .035	.890	.667	.005 - .010
.874	.384	.008 - .016	.875	.343	.016 - .025	.875	.670	.005 - .010	.877	.498	.050 - .075	.880	.557	.005 - .010	.890	.711	.025 - .040
.874	.392	.015 - .030	.875	.345	.110 - .130	.875	.674	.010 - .020	.877	.507	.060 - .080	.880	.604	.005 - .010	.890	.785	.040 - .050
.874	.398	.125 - .156	.875	.347	.042 - .062	.875	.687	.050 - .080	.877	.593	.080 - .100	.880	.621	.020 - .060	.891	.582	.030 - .050
.874	.410	.080 - .100	.875	.354	.005 - .010	.875	.690	.075 - .090	.877	.643	.025 - .042	.880	.626	.062 - .078	.891	.632	.005 - .010
.874	.420	.005 - .010	.875	.362	.012 - .020	.875	.691	.040 - .060	.877	.693	.030 - .050	.880	.659	.070 - .080	.891	.669	.010 - .020
.874	.439	.105 - .125	.875	.367	.005 - .010	.875	.693	.030 - .050	.877	.694	.070 - .090	.880	.681	.005 - .012	.891	.711	.005 - .015
.874	.446	.105 - .125	.875	.375	.100 - .125	.875	.698	.005 - .010	.877	.755	.042 - .062	.880	.688	.030 - .050	.892	.073	.025 - .036
.874	.501	.105 - .125	.875	.376	.005 - .010	.875	.719	.005 - .080	.877	.836	.005 - .010	.880	.690	.060 - .070	.892	.273	.070 - .105
.874	.502	.105 - .125	.875	.377	.010 - .020	.875	.724	.010 - .020	.878	.125	.020 - .040	.880	.711	.025 - .040	.892	.390	.005 - .010
.874	.505	.050 - .070	.875	.378	.020 - .030	.875	.735	.050 - .070	.878	.187	.020 - .040	.881	.201	.005 - .010	.892	.514	.005 - .010
.874	.508	.040 - .060	.875	.380	.105 - .134	.875	.746	.010 - .020	.878	.219	.015 - .040	.881	.203	.005 - .010	.892	.612	.010 - .025
.874	.509	.010 - .020	.875	.382	.015 - .030	.875	.750	.030 - .050	.878	.229	.040 - .060	.881	.257	.060 - .080	.892	.632	.005 - .010
.874	.510	.075 - .090	.875	.383	.150 - .180	.875	.751	.005 - .015	.878	.264	.060 - .083	.881	.548	.030 - .050	.892	.653	.050 - .070
.874	.512	.060 - .080	.875	.384	.008 - .016	.875	.755	.010 - .020	.878	.282	.015 - .030	.881	.661	.005 - .010	.892	.726	.005 - .010
.874	.513	.015 - .030	.875	.389	.040 - .060	.875	.756	.025 - .040	.878	.285	.090 - .120	.881	.681	.010 - .015	.893	.621	.040 - .075
.874	.514	.005 - .010	.875	.390	.060 - .075	.875	.760	.020 - .040	.878	.376	.025 - .040	.881	.732	.020 - .030	.893	.701	.005 - .010
.874	.526	.050 - .070	.875	.391	.040 - .060	.876	.067	.015 - .030	.878	.387	.020 - .062	.882	.300	.005 - .010	.894	.195	.020 - .040
.874	.533	.030 - .060	.875	.393	.005 - .010	.876	.093	.020 - .040	.878	.402	.060 - .075	.882	.323	.005 - .010	.894	.251	.010 - .020
.874	.535	.032 - .048	.875	.395	.090 - .125	.876	.102	.020 - .040	.878	.406	.025 - .040	.882	.325	.005 - .010	.894	.501	.060 - .080
.874	.540	.030 - .050	.875	.396	.010 - .020	.876	.127	.060 - .080	.878	.437	.020 - .040	.882	.500	.150 - .180	.894	.624	.005 - .010
.874	.579	.015 - .030	.875	.397	.050 - .070	.876	.130	.005 - .010	.878	.446	.050 - .075	.882	.522	.020 - .040	.894	.762	.005 - .010
.874	.601	.070 - .090	.875	.399	.005 - .010	.876	.164	.005 - .010	.878	.473	.135 - .156	.882	.540	.090 - .110	.895	.375	.070 - .090
.874	.603	.005 - .010	.875	.405	.100 - .120	.876	.173	.050 - .070	.878	.478	.010 - .020	.882	.642	.040 - .060	.895	.390	.032 - .062
.874	.621	.005 - .010	.875	.406	.050 - .060	.876	.282	.040 - .187	.878	.501	.020 - .040	.882	.664	.005 - .010	.895	.462	.005 - .010
.874	.624	.020 - .040	.875	.412	.100 - .125	.876	.284	.040 - .060	.878	.516	.100 - .125	.882	.788	.015 - .030	.895	.574	.032 - .042
.874	.625	.015 - .025	.875	.413	.005 - .015	.876	.287	.100 - .125	.878	.518	.100 - .125	.883	.315	.010 - .020	.895	.631	.005 - .010
.874	.627	.030 - .050	.875	.415	.060 - .083	.876	.288	.005 - .010	.878	.523	.100 - .125	.883	.500	.050 - .075	.895	.661	.010 - .020
.874	.645	.030 - .050	.875	.430	.005 - .030	.876	.317	.030 - .050	.878	.531	.020 - .040	.883	.509	.030 - .050	.895	.733	.050 - .070
.874	.658	.005 - .010	.875	.436	.060 - .080	.876	.328	.005 - .187	.878	.562	.025 - .040	.883	.560	.050 - .070	.895	.795	.010 - .020
.874	.660	.010 - .020	.875	.437	.050 - .080	.876	.340	.160 - .190	.878	.570	.005 - .012	.883	.622	.050 - .075	.895	.801	.020 - .030
.874	.688	.015 - .030	.875	.438	.010 - .020	.876	.343	.025 - .040	.878	.585	.005 - .010	.883	.777	.010 - .020	.896	.215	.060 - .080
.874	.721	.010 - .020	.875	.439	.005 - .010	.876	.350	.015 - .025	.878	.593	.025 - .050	.883	.788	.005 - .010	.896	.340	.050 - .070
.874	.751	.020 - .030	.875	.440	.015 - .125	.876	.377	.005 - .010	.878	.627	.020 - .030	.884	.411	.005 - .010	.896	.772	.020 - .042
.875	.070	.005 - .010	.875	.448	.030 - .050	.876	.378	.090 - .105	.878	.628	.005 - .010	.884	.510	.015 - .030	.897	.292	.005 - .010
.875	.086	.005 - .010	.875	.451	.005 - .010	.876	.397	.030 - .050	.878	.632	.040 - .060	.885	.150	.020 - .040	.897	.407	.005 - .010
.875	.087	.020 - .040	.875	.452	.005 - .010	.876	.461	.005 - .010	.878	.648	.005 - .010	.885	.212	.010 - .020	.897	.408	.010 - .020
.875	.111	.020 - .040	.875	.453	.025 - .080	.876	.471	.040 - .062	.878	.660	.015 - .030	.885	.325	.005 - .010	.897	.409	.025 - .080
.875	.129	.020 - .040	.875	.456	.090 - .125	.876	.500	.005 - .010	.878	.689	.020 - .040	.885	.396	.005 - .010	.897	.704	.025 - .040
.875	.133	.032 - .042	.875	.465	.080 - .100	.876	.503	.005 - .010	.878	.742	.005 - .010	.885	.443	.005 - .008	.897	.748	.005 - .015
.875	.140	.015 - .030	.875	.473	.100 - .125	.876	.506	.090 - .120	.878	.826	.005 - .010	.885	.456	.005 - .020	.897	.810	.010 - .020
.875	.150	.005 - .010	.875	.475	.025 - .040	.876	.515	.080 - .104	.879	.125	.050 - .060	.885	.521	.005 - .010	.898	.250	.040 - .060
.875	.153	.040 - .060	.875	.481	.120 - .135	.876	.516	.125 - .156	.879	.172	.090 - .120	.885	.565	.015 - .032	.898	.318	.050 - .075
.875	.158	.005 - .010	.875	.486	.020 - .040	.876	.519	.060 - .083	.879	.250	.025 - .040	.885	.626	.020 - .040	.898	.343	.005 - .010
.875	.161	.040 - .060	.875	.500	.040 - .090	.876	.520	.050 - .070	.879	.327	.048 - .062	.885	.695	.005 - .010	.898	.453	.080 - .100
.875	.168	.072 - .120	.875	.501	.005 - .030	.876	.522	.100 - .125	.879	.376	.010 - .020	.885	.705	.005 - .010	.898	.510	.075 - .104
.875	.172	.048 - .062	.875	.502	.015 - .030	.876	.533	.110 - .130	.879	.399	.050 - .070	.886	.118	.030 - .050	.898	.665	.025 - .040
.875	.175	.040 - .060	.875	.504	.030 - .125	.876	.551	.100 - .120	.879	.431	.050 - .070	.886	.291	.030 - .050	.898	.726	.005 - .010
.875	.180	.062 - .075	.875	.505	.005 - .042	.876	.563	.005 - .010	.879	.515	.025 - .040	.886	.443	.005 - .040	.898	.748	.005 - .010
.875	.184	.020 - .040	.875	.506	.090 - .125	.876	.565	.020 - .040	.879	.516	.040 - .060	.886	.531	.050 - .070	.898	.812	.005 - .010
.875	.187	.090 - .105	.875	.507	.030 - .125	.876	.591	.050 - .070	.879	.593	.050 - .070	.886	.650	.070 - .090	.898	.829	.015 - .030
.875	.190	.105 - .125	.875	.513	.032 - .135	.876	.600	.060 - .075	.879	.635	.050 - .075	.887	.265	.062 - .090	.899	.121	.040 - .060
.875	.192	.025 - .042	.875	.516	.060 - .080	.876	.616	.048 - .062	.879	.636	.015 - .030	.887	.325	.035 - .050	.899	.197	.030 - .050
.875	.196	.020 - .040	.875	.517	.005 - .010	.876	.622	.040 - .060	.880	.165	.050 - .075	.887	.572	.050 - .070	.899	.444	.010 - .020
.875	.196	.050 - .075	.875	.518	.090 - .110	.876	.625	.005 - .010	.880	.170	.110 - .130	.887	.714	.020 - .040	.899	.479	.020 - .040
.875	.199	.050 - .070	.875	.527	.032 - .048	.876	.626	.050 - .075	.880	.192	.015 - .030	.887	.755	.005 - .010	.899	.535	.005 - .010
.875	.203	.062 - .090	.875	.530	.015 - .030	.876	.632	.030 - .050	.880	.219	.032 - .050	.887	.795	.005 - .010	.899	.562	.025 - .040
.875	.204	.040 - .060	.875	.531	.105 - .125	.876	.633	.062 - .080	.880	.260	.005 - .187	.888	.382	.075 - .090	.899	.563	.005 - .010
.875	.226	.005 - .010	.875	.537	.005 - .010	.876	.672	.090 - .105	.880	.265	.005 - .010	.888	.530	.005 - .010	.899	.568	.070 - .090
.875	.236	.005 - .060	.875	.562	.050 - .072	.876	.675	.030 - .040	.880	.302	.005 - .015	.888	.535	.015 - .030	.899	.789	.030 - .040
.875	.246	.040 - .060	.875	.563	.005 - .105	.876	.681	.060 - .080	.880	.324	.050 - .070	.888	.622	.005 - .010	.899	.791	.010 - .020
.875	.250	.005 - .050	.875	.567	.005 - .090	.876	.692	.020 - .030	.880	.333	.042 - .060	.888	.656	.005 - .010	.899	.810	.020 - .030
.875	.252	.010 - .020	.875	.568	.020 - .048	.876	.694	.020 - .040	.880	.340	.160 - .190	.888	.760	.010 - .020	.899	.814	.005 - .010
.875	.253	.050 - .075	.875	.579	.050 - .060	.876	.702	.010 - .020	.880	.357	.005 - .010	.889	.392	.080 - .100	.899	.841	.010 - .020
.875	.257	.070 - .130	.875	.580	.015 - .030	.876	.714	.030 - .050	.880	.375	.060 - .080	.889	.395	.105 - .120	.900	.063	.010 - .020
.875	.260	.030 - .040	.875	.600	.090 - .105	.876	.745	.025 - .040	.880	.376	.025 - .062	.889	.557	.005 - .010	.900	.079	.030 - .050
.875	.267	.090 - .134	.875	.610	.025 - .040	.876	.750	.030 - .040	.880	.380	.005 - .080	.889	.569	.005 - .010	.900	.100	.015 - .030
.875	.268	.005 - .010	.875	.611	.050 - .070	.876	.751	.015 - .030	.880	.381	.005 - .015	.889	.758	.025 - .040	.900	.154	.005 - .010

*With BOKER'S precision 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
.900	.217	.025 - .040	.903	.531	.160 - .180	.906	.769	.010 - .020	.914	.521	.005 - .010	.921	.314	.078 - .090	.928	.087	.050 - .060
.900	.252	.005 - .010	.903	.664	.025 - .040	.907	.228	.040 - .060	.914	.596	.025 - .040	.921	.402	.005 - .010	.928	.153	.060 - .080
.900	.254	.040 - .060	.903	.710	.010 - .020	.907	.293	.070 - .090	.914	.650	.015 - .030	.921	.445	.005 - .010	.928	.383	.005 - .015
.900	.321	.005 - .010	.903	.735	.005 - .015	.907	.330	.050 - .060	.915	.350	.040 - .060	.921	.490	.025 - .040	.928	.552	.080 - .100
.900	.376	.005 - .030	.903	.760	.015 - .030	.907	.380	.125 - .135	.915	.446	.015 - .025	.921	.508	.010 - .020	.928	.678	.005 - .010
.900	.377	.005 - .010	.903	.766	.040 - .060	.907	.411	.025 - .040	.915	.448	.005 - .010	.921	.531	.025 - .040	.929	.260	.020 - .040
.900	.378	.015 - .040	.903	.771	.005 - .050	.907	.469	.100 - .120	.915	.509	.050 - .070	.921	.587	.020 - .040	.929	.470	.072 - .105
.900	.379	.005 - .078	.903	.781	.040 - .050	.907	.514	.005 - .010	.915	.510	.005 - .010	.921	.630	.010 - .020	.929	.570	.005 - .010
.900	.380	.010 - .020	.903	.807	.010 - .020	.907	.603	.070 - .090	.915	.512	.020 - .040	.921	.641	.010 - .020	.929	.575	.005 - .010
.900	.390	.030 - .060	.904	.206	.040 - .060	.907	.624	.020 - .035	.915	.616	.015 - .030	.921	.680	.025 - .040	.929	.600	.050 - .075
.900	.400	.005 - .010	.904	.262	.070 - .090	.907	.645	.020 - .040	.915	.623	.030 - .060	.921	.682	.030 - .050	.929	.689	.005 - .104
.900	.406	.135 - .156	.904	.319	.005 - .020	.907	.669	.060 - .080	.915	.628	.080 - .095	.921	.788	.020 - .040	.929	.697	.012 - .020
.900	.437	.005 - .010	.904	.329	.005 - .010	.907	.672	.042 - .060	.915	.744	.005 - .010	.921	.790	.005 - .010	.930	.088	.015 - .030
.900	.440	.005 - .010	.904	.486	.025 - .042	.907	.682	.030 - .050	.915	.775	.005 - .010	.922	.316	.105 - .125	.930	.098	.020 - .040
.900	.441	.005 - .010	.904	.629	.020 - .100	.907	.728	.005 - .015	.916	.150	.020 - .032	.922	.450	.080 - .100	.930	.199	.005 - .083
.900	.453	.030 - .040	.904	.640	.030 - .040	.907	.740	.010 - .050	.916	.317	.100 - .120	.922	.608	.050 - .075	.930	.270	.005 - .010
.900	.455	.050 - .070	.904	.649	.020 - .035	.907	.757	.010 - .020	.916	.507	.020 - .040	.922	.630	.010 - .020	.930	.286	.070 - .090
.900	.489	.005 - .010	.904	.690	.015 - .030	.908	.332	.135 - .156	.916	.532	.040 - .060	.922	.640	.030 - .050	.930	.301	.015 - .030
.900	.500	.005 - .105	.904	.750	.040 - .060	.908	.342	.050 - .075	.916	.540	.020 - .040	.922	.670	.010 - .020	.930	.377	.005 - .020
.900	.503	.005 - .020	.904	.805	.005 - .040	.908	.379	.025 - .040	.916	.570	.050 - .090	.922	.687	.020 - .030	.930	.381	.040 - .125
.900	.504	.005 - .008	.905	.127	.090 - .110	.908	.502	.030 - .050	.916	.571	.090 - .110	.922	.755	.020 - .040	.930	.440	.020 - .040
.900	.510	.015 - .030	.905	.196	.040 - .060	.908	.555	.080 - .105	.916	.734	.020 - .040	.922	.758	.050 - .070	.930	.475	.040 - .060
.900	.562	.005 - .015	.905	.201	.005 - .010	.908	.564	.015 - .030	.916	.735	.020 - .040	.923	.265	.090 - .105	.930	.501	.025 - .062
.900	.563	.040 - .060	.905	.238	.005 - .010	.908	.616	.020 - .032	.916	.795	.010 - .020	.923	.397	.015 - .025	.930	.520	.020 - .040
.900	.564	.010 - .100	.905	.330	.015 - .030	.908	.688	.010 - .025	.916	.804	.016 - .032	.923	.502	.015 - .030	.930	.609	.042 - .072
.900	.570	.005 - .070	.905	.344	.020 - .030	.908	.705	.030 - .048	.916	.834	.005 - .010	.923	.506	.050 - .070	.930	.630	.010 - .025
.900	.577	.015 - .025	.905	.392	.010 - .040	.908	.751	.060 - .080	.917	.501	.050 - .090	.923	.661	.005 - .010	.930	.635	.080 - .104
.900	.578	.070 - .090	.905	.396	.005 - .010	.908	.753	.005 - .010	.917	.506	.010 - .020	.923	.668	.030 - .050	.930	.645	.005 - .010
.900	.595	.070 - .090	.905	.398	.120 - .135	.908	.764	.020 - .030	.917	.531	.062 - .078	.923	.678	.020 - .030	.930	.673	.010 - .020
.900	.610	.020 - .040	.905	.414	.180 - .190	.908	.765	.020 - .040	.917	.579	.050 - .060	.923	.754	.020 - .040	.930	.679	.005 - .010
.900	.625	.025 - .040	.905	.451	.070 - .090	.909	.250	.030 - .040	.917	.596	.005 - .015	.923	.755	.015 - .050	.930	.700	.005 - .010
.900	.626	.050 - .070	.905	.460	.005 - .010	.909	.342	.050 - .075	.917	.623	.040 - .060	.923	.820	.005 - .010	.930	.701	.015 - .030
.900	.628	.005 - .010	.905	.473	.010 - .030	.909	.364	.005 - .010	.918	.497	.010 - .020	.924	.201	.100 - .125	.930	.710	.005 - .010
.900	.629	.010 - .020	.905	.475	.105 - .125	.909	.379	.005 - .010	.918	.508	.030 - .050	.924	.253	.005 - .010	.930	.750	.025 - .040
.900	.630	.120 - .135	.905	.481	.040 - .060	.909	.634	.010 - .020	.918	.596	.005 - .010	.924	.382	.030 - .040	.930	.760	.005 - .030
.900	.634	.040 - .060	.905	.493	.070 - .090	.909	.676	.007 - .015	.918	.614	.005 - .010	.924	.538	.010 - .015	.930	.812	.010 - .020
.900	.651	.005 - .010	.905	.513	.060 - .080	.909	.749	.040 - .060	.918	.762	.025 - .035	.924	.727	.040 - .060	.931	.454	.020 - .030
.900	.654	.060 - .070	.905	.520	.020 - .040	.909	.796	.005 - .010	.919	.257	.070 - .090	.924	.746	.020 - .040	.931	.478	.020 - .030
.900	.661	.070 - .090	.905	.531	.050 - .060	.910	.250	.080 - .104	.919	.366	.005 - .010	.925	.091	.005 - .010	.931	.598	.035 - .060
.900	.670	.025 - .048	.905	.558	.005 - .010	.910	.330	.030 - .040	.919	.396	.005 - .010	.925	.158	.100 - .125	.931	.632	.105 - .125
.900	.690	.010 - .050	.905	.564	.040 - .060	.910	.381	.050 - .070	.919	.493	.100 - .125	.925	.289	.100 - .120	.931	.660	.020 - .030
.900	.711	.025 - .040	.905	.585	.050 - .075	.910	.400	.015 - .030	.919	.565	.005 - .020	.925	.314	.010 - .015	.931	.691	.040 - .060
.900	.725	.020 - .040	.905	.634	.032 - .060	.910	.417	.010 - .020	.919	.671	.005 - .010	.925	.322	.070 - .090	.931	.729	.050 - .070
.900	.730	.060 - .080	.905	.637	.015 - .030	.910	.425	.005 - .010	.919	.697	.010 - .020	.925	.346	.015 - .025	.931	.762	.020 - .030
.900	.755	.010 - .020	.905	.639	.040 - .060	.910	.440	.005 - .010	.919	.765	.005 - .010	.925	.397	.048 - .072	.931	.811	.040 - .060
.900	.800	.005 - .010	.905	.643	.010 - .020	.910	.468	.075 - .090	.919	.812	.020 - .030	.925	.438	.015 - .030	.932	.243	.050 - .070
.900	.805	.005 - .010	.905	.657	.070 - .080	.910	.490	.130 - .156	.920	.048	.005 - .010	.925	.445	.060 - .083	.932	.330	.025 - .040
.900	.810	.010 - .020	.905	.667	.040 - .060	.910	.500	.025 - .040	.920	.090	.040 - .060	.925	.450	.025 - .040	.932	.335	.050 - .070
.900	.825	.005 - .010	.905	.672	.070 - .090	.910	.515	.100 - .125	.920	.157	.005 - .010	.925	.474	.050 - .070	.932	.465	.090 - .110
.900	.830	.015 - .025	.905	.673	.090 - .125	.910	.540	.060 - .080	.920	.163	.032 - .060	.925	.516	.025 - .040	.932	.469	.040 - .062
.900	.840	.005 - .010	.905	.674	.075 - .100	.910	.560	.110 - .130	.920	.200	.005 - .010	.925	.526	.015 - .030	.932	.563	.005 - .012
.901	.202	.030 - .050	.905	.677	.105 - .125	.910	.590	.005 - .010	.920	.230	.025 - .040	.925	.575	.070 - .090	.932	.676	.015 - .030
.901	.256	.010 - .016	.905	.682	.010 - .020	.910	.638	.010 - .020	.920	.253	.005 - .075	.925	.576	.050 - .075	.932	.749	.050 - .070
.901	.292	.040 - .060	.905	.709	.015 - .030	.910	.650	.005 - .015	.920	.265	.040 - .060	.925	.577	.050 - .075	.932	.775	.005 - .010
.901	.361	.010 - .020	.905	.728	.050 - .070	.910	.667	.030 - .050	.920	.269	.135 - .187	.925	.611	.010 - .020	.932	.869	.005 - .020
.901	.506	.005 - .020	.905	.785	.005 - .010	.910	.703	.030 - .040	.920	.316	.080 - .100	.925	.661	.025 - .040	.932	.870	.010 - .020
.901	.626	.005 - .020	.906	.316	.005 - .010	.910	.811	.020 - .040	.920	.318	.005 - .010	.925	.672	.040 - .060	.933	.197	.010 - .020
.901	.694	.075 - .093	.906	.317	.005 - .020	.910	.820	.005 - .010	.920	.378	.005 - .010	.925	.690	.010 - .020	.933	.415	.010 - .020
.901	.710	.005 - .020	.906	.325	.005 - .010	.911	.256	.080 - .100	.920	.456	.010 - .030	.925	.719	.005 - .010	.933	.508	.032 - .060
.901	.715	.010 - .020	.906	.332	.090 - .110	.911	.416	.062 - .090	.920	.470	.105 - .125	.925	.725	.010 - .020	.933	.624	.025 - .040
.902	.316	.010 - .030	.906	.394	.010 - .020	.911	.471	.030 - .050	.920	.499	.050 - .070	.925	.756	.010 - .020	.933	.688	.005 - .010
.902	.318	.005 - .010	.906	.395	.090 - .100	.911	.564	.030 - .050	.920	.504	.005 - .010	.925	.800	.012 - .025	.933	.726	.005 - .010
.902	.329	.005 - .010	.906	.396	.010 - .020	.911	.568	.005 - .010	.920	.505	.090 - .110	.925	.817	.010 - .020	.933	.775	.010 - .020
.902	.377	.005 - .010	.906	.405	.010 - .020	.911	.615	.005 - .010	.920	.525	.005 - .010	.925	.834	.020 - .030	.933	.836	.005 - .010
.902	.504	.006 - .012	.906	.470	.060 - .080	.911	.710	.030 - .048	.920	.550	.005 - .010	.926	.399	.080 - .105	.934	.094	.005 - .010
.902	.505	.005 - .020	.906	.474	.005 - .010	.911	.780	.005 - .010	.920	.564	.015 - .030	.926	.438	.045 - .060	.934	.190	.010 - .020
.902	.535	.005 - .010	.906	.512	.006 - .012	.911	.815	.005 - .010	.920	.584	.005 - .010	.926	.670	.010 - .020	.934	.414	.025 - .040
.902	.564	.005 - .010	.906	.519	.010 - .020	.912	.176	.005 - .010	.920	.590	.005 - .010	.926	.689	.015 - .030	.934	.508	.020 - .040
.902	.642	.005 - .010	.906	.565	.080 - .100	.912	.549	.070 - .105	.920	.608	.005 - .010	.926	.724	.015 - .030	.934	.513	.005 - .010
.902	.658	.005 - .010	.906	.585	.020 - .040	.912	.563	.010 - .020	.920	.618	.005 - .010	.927	.171	.100 - .125	.934	.563	.048 - .078
.902	.679	.030 - .050	.906	.592	.025 - .040	.912	.596	.005 - .010	.920	.628	.030 - .050	.927	.264	.005 - .010	.934	.743	.020 - .040
.902	.790	.030 - .050	.906	.603	.010 - .020	.912	.636	.060 - .070	.920	.629	.010 - .020	.927	.397	.005 - .010	.934	.753	.005 - .010
.902	.792	.005 - .010	.906	.609	.005 - .010	.912	.656	.105 - .120	.920	.630	.015 - .060	.927	.476	.090 - .110	.934	.754	.005 - .020
.903	.252	.080 - .100	.906	.638	.093 - .125	.912	.683	.015 - .030	.920	.687	.020 - .040	.927	.512	.008 - .016	.934	.757	.030 - .050
.903	.258	.060 - .080	.906	.657	.025 - .035	.912	.805	.005 - .010	.920	.690	.090 - .105	.927	.627	.005 - .010	.934	.770	.040 - .060
.903	.315	.030 - .048	.906	.669	.015 - .030	.913	.493	.015 - .030	.920	.705	.005 - .010	.927	.647	.042 - .060	.934	.797	.005 - .010
.903	.330	.015 - .030	.906	.728	.030 - .050	.913	.507	.020 - .030	.920	.720	.040 - .060	.927	.689	.010 - .020	.935	.152	.040 - .060
.903	.401	.005 - .010	.906	.730	.030 - .050	.913	.510	.020 - .040	.920	.778	.030 - .050	.927	.691	.020 - .040	.935	.216	.080 - .090
.903	.416	.100 - .125	.906	.750	.010 - .020	.913	.665	.080 - .100	.920	.819	.020 - .030	.927	.819	.005 - .010	.935	.273	.010 - .020
.903	.500	.025 - .036	.906	.759	.010 - .020	.913	.847	.005 - .010	.920	.853	.010 - .020	.928	.084	.050 - .062	.935	.310	.050 - .083

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

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
.935	.318	.005 - .010
.935	.321	.005 - .010
.935	.439	.020 - .050
.935	.455	.100 - .125
.935	.481	.030 - .050
.935	.489	.090 - .120
.935	.501	.080 - .104
.935	.523	.080 - .105
.935	.535	.090 - .105
.935	.565	.012 - .020
.935	.569	.030 - .050
.935	.570	.030 - .060
.935	.581	.100 - .125
.935	.624	.100 - .125
.935	.681	.030 - .050
.935	.682	.005 - .010
.935	.683	.030 - .060
.935	.685	.072 - .120
.935	.687	.020 - .040
.935	.715	.016 - .032
.935	.719	.010 - .030
.935	.720	.050 - .070
.935	.733	.025 - .040
.935	.735	.005 - .010
.935	.783	.005 - .010
.935	.794	.060 - .075
.935	.796	.020 - .040
.935	.807	.040 - .060
.935	.839	.020 - .030
.935	.860	.015 - .030
.935	.871	.005 - .010
.936	.266	.060 - .080
.936	.310	.050 - .080
.936	.313	.020 - .035
.936	.343	.105 - .125
.936	.375	.040 - .050
.936	.390	.060 - .090
.936	.406	.050 - .070
.936	.480	.010 - .030
.936	.481	.005 - .060
.936	.502	.005 - .010
.936	.517	.090 - .110
.936	.537	.005 - .010
.936	.552	.005 - .010
.936	.627	.040 - .060
.936	.641	.100 - .125
.936	.645	.105 - .135
.936	.650	.050 - .070
.936	.660	.005 - .008
.936	.687	.052 - .084
.936	.718	.020 - .040
.937	.080	.020 - .035
.937	.092	.050 - .070
.937	.110	.050 - .070
.937	.174	.062 - .080
.937	.257	.032 - .048
.937	.275	.030 - .050
.937	.292	.025 - .040
.937	.315	.080 - .100
.937	.319	.025 - .040
.937	.324	.030 - .060
.937	.330	.156 - .187
.937	.341	.050 - .075
.937	.350	.020 - .030
.937	.375	.010 - .020
.937	.381	.025 - .040
.937	.390	.005 - .010
.937	.399	.156 - .187
.937	.410	.015 - .030
.937	.431	.050 - .075
.937	.437	.156 - .187
.937	.440	.020 - .040
.937	.444	.005 - .008
.937	.460	.025 - .040
.937	.480	.015 - .030
.937	.487	.005 - .010
.937	.500	.015 - .030
.937	.510	.020 - .110
.937	.515	.030 - .050
.937	.517	.105 - .125
.937	.518	.005 - .010
.937	.520	.020 - .125
.937	.570	.005 - .010
.937	.578	.080 - .104
.937	.580	.030 - .050
.937	.594	.050 - .060
.937	.623	.020 - .040
.937	.624	.020 - .090
.937	.625	.005 - .010
.937	.629	.030 - .050
.937	.637	.025 - .042
.937	.640	.032 - .060
.937	.650	.005 - .010
.937	.656	.032 - .060
.937	.672	.005 - .010
.937	.675	.060 - .075
.937	.687	.100 - .125
.937	.693	.015 - .020
.937	.703	.010 - .020
.937	.737	.020 - .030
.937	.754	.048 - .072
.937	.772	.060 - .080
.937	.785	.005 - .015
.937	.793	.025 - .040
.937	.802	.015 - .040
.937	.813	.005 - .010
.937	.875	.025 - .035
.938	.140	.048 - .062
.938	.144	.105 - .135
.938	.150	.050 - .072
.938	.199	.048 - .062
.938	.200	.030 - .060
.938	.201	.100 - .120
.938	.217	.050 - .072
.938	.246	.048 - .062
.938	.266	.042 - .060
.938	.318	.048 - .062
.938	.322	.035 - .060
.938	.328	.104 - .134
.938	.343	.048 - .062
.938	.376	.048 - .062
.938	.379	.005 - .010
.938	.383	.105 - .125
.938	.388	.090 - .105
.938	.439	.042 - .062
.938	.444	.040 - .062
.938	.458	.005 - .010
.938	.505	.030 - .050
.938	.507	.005 - .010
.938	.521	.005 - .010
.938	.532	.105 - .125
.938	.550	.005 - .010
.938	.562	.030 - .050
.938	.563	.015 - .030
.938	.570	.070 - .090
.938	.595	.005 - .010
.938	.596	.005 - .010
.938	.636	.030 - .050
.938	.637	.080 - .104
.938	.690	.040 - .060
.938	.721	.020 - .040
.938	.730	.070 - .090
.938	.752	.015 - .090
.938	.760	.005 - .010
.938	.761	.015 - .030
.938	.766	.020 - .030
.938	.770	.030 - .050
.938	.784	.015 - .030
.938	.831	.005 - .010
.939	.040	.010 - .020
.939	.126	.020 - .030
.939	.189	.105 - .135
.939	.195	.105 - .125
.939	.218	.100 - .125
.939	.376	.105 - .125
.939	.442	.005 - .030
.939	.457	.008 - .016
.939	.496	.005 - .010
.939	.560	.080 - .104
.939	.563	.005 - .010
.939	.610	.040 - .060
.939	.628	.015 - .030
.939	.630	.020 - .040
.939	.633	.015 - .030
.939	.640	.015 - .025
.939	.656	.030 - .040
.939	.660	.050 - .070
.939	.678	.040 - .060
.939	.700	.005 - .010
.939	.739	.050 - .070
.939	.783	.040 - .060
.939	.799	.030 - .050
.939	.869	.015 - .025
.940	.186	.031 - .048
.940	.194	.010 - .020
.940	.231	.005 - .010
.940	.253	.007 - .015
.940	.315	.010 - .075
.940	.400	.160 - .190
.940	.407	.090 - .120
.940	.437	.005 - .010
.940	.441	.040 - .060
.940	.481	.050 - .075
.940	.490	.075 - .105
.940	.502	.015 - .030
.940	.508	.100 - .125
.940	.509	.050 - .070
.940	.518	.050 - .070
.940	.520	.090 - .105
.940	.525	.040 - .060
.940	.535	.030 - .040
.940	.553	.100 - .125
.940	.590	.015 - .030
.940	.591	.060 - .070
.940	.607	.030 - .060
.940	.610	.030 - .060
.940	.633	.005 - .010
.940	.640	.005 - .105
.940	.641	.025 - .040
.940	.646	.060 - .080
.940	.656	.040 - .060
.940	.673	.005 - .030
.940	.674	.005 - .010
.940	.686	.010 - .020
.940	.700	.015 - .025
.940	.701	.015 - .030
.940	.704	.083 - .105
.940	.710	.030 - .050
.940	.721	.040 - .060
.940	.752	.005 - .010
.940	.766	.050 - .075
.940	.776	.005 - .010
.940	.788	.020 - .030
.940	.830	.005 - .012
.941	.119	.030 - .060
.941	.150	.060 - .070
.941	.257	.010 - .020
.941	.260	.050 - .070
.941	.459	.020 - .030
.941	.484	.005 - .010
.941	.500	.040 - .060
.941	.532	.030 - .050
.941	.555	.005 - .012
.941	.566	.020 - .040
.941	.632	.030 - .060
.941	.675	.005 - .010
.941	.717	.050 - .070
.941	.744	.006 - .012
.941	.816	.028 - .040
.941	.821	.010 - .020
.941	.880	.020 - .030
.942	.171	.025 - .040
.942	.256	.005 - .010
.942	.407	.005 - .010
.942	.455	.030 - .120
.942	.475	.030 - .050
.942	.484	.010 - .020
.942	.504	.030 - .050
.942	.508	.090 - .120
.942	.515	.015 - .035
.942	.530	.005 - .010
.942	.628	.060 - .080
.942	.693	.005 - .010
.942	.724	.100 - .125
.942	.744	.005 - .010
.942	.794	.005 - .010
.942	.798	.020 - .030
.943	.406	.005 - .010
.943	.418	.120 - .140
.943	.426	.020 - .040
.943	.442	.010 - .030
.943	.473	.075 - .090
.943	.475	.005 - .010
.943	.517	.005 - .010
.943	.547	.030 - .050
.943	.568	.080 - .100
.943	.596	.030 - .050
.943	.597	.005 - .012
.943	.736	.070 - .090
.944	.150	.040 - .060
.944	.238	.005 - .010
.944	.256	.005 - .010
.944	.266	.005 - .010
.944	.281	.025 - .036
.944	.314	.080 - .100
.944	.317	.005 - .020
.944	.319	.008 - .012
.944	.394	.005 - .010
.944	.423	.156 - .187
.944	.432	.105 - .125
.944	.442	.005 - .020
.944	.473	.005 - .010
.944	.475	.005 - .010
.944	.479	.020 - .030
.944	.502	.010 - .020
.944	.595	.020 - .040
.944	.633	.005 - .010
.944	.673	.015 - .025
.944	.694	.040 - .060
.944	.766	.020 - .040
.944	.795	.015 - .030
.945	.221	.050 - .075
.945	.237	.005 - .010
.945	.240	.005 - .010
.945	.249	.060 - .125
.945	.282	.040 - .060
.945	.314	.005 - .010
.945	.315	.010 - .020
.945	.317	.005 - .070
.945	.322	.010 - .020
.945	.331	.070 - .090
.945	.345	.020 - .040
.945	.378	.050 - .070
.945	.389	.050 - .075
.945	.393	.030 - .050
.945	.394	.010 - .020
.945	.411	.005 - .010
.945	.434	.156 - .187
.945	.453	.156 - .187
.945	.454	.156 - .187
.945	.472	.005 - .010
.945	.474	.010 - .020
.945	.477	.005 - .010
.945	.484	.050 - .075
.945	.502	.005 - .010
.945	.512	.005 - .010
.945	.514	.180 - .190
.945	.519	.040 - .110
.945	.554	.010 - .020
.945	.607	.005 - .010
.945	.610	.060 - .080
.945	.627	.032 - .042
.945	.669	.050 - .125
.945	.671	.005 - .010
.945	.673	.015 - .030
.945	.686	.060 - .105
.945	.708	.060 - .080
.945	.710	.030 - .050
.945	.714	.060 - .080
.945	.719	.070 - .090
.945	.737	.005 - .010
.945	.831	.015 - .030
.945	.845	.005 - .015
.946	.354	.005 - .010
.946	.386	.040 - .060
.946	.398	.010 - .020
.946	.473	.005 - .010
.946	.506	.050 - .070
.946	.513	.105 - .125
.946	.602	.025 - .042
.946	.678	.005 - .010
.946	.686	.062 - .070
.946	.717	.060 - .080
.946	.786	.050 - .070
.947	.128	.005 - .010
.947	.397	.010 - .020
.947	.463	.060 - .070
.947	.566	.030 - .048
.947	.599	.042 - .060
.947	.730	.030 - .050
.947	.757	.010 - .025
.947	.780	.020 - .040
.947	.783	.048 - .062
.947	.799	.010 - .020
.947	.821	.005 - .010
.948	.059	.005 - .010
.948	.245	.005 - .072
.948	.262	.060 - .080
.948	.390	.005 - .010
.948	.398	.005 - .010
.948	.413	.005 - .010
.948	.439	.010 - .020
.948	.448	.060 - .070
.948	.485	.090 - .100
.948	.493	.062 - .080
.948	.502	.006 - .015
.948	.503	.005 - .010
.948	.506	.005 - .010
.948	.514	.050 - .075
.948	.518	.030 - .060
.948	.576	.005 - .010
.948	.666	.035 - .050
.948	.763	.005 - .010
.948	.780	.020 - .040
.948	.864	.025 - .040
.949	.189	.005 - .010
.949	.380	.040 - .060
.949	.503	.005 - .010
.949	.505	.050 - .070
.949	.507	.005 - .020
.949	.511	.010 - .020
.949	.592	.072 - .090
.950	.102	.005 - .030
.950	.125	.005 - .010
.950	.131	.062 - .080
.950	.186	.020 - .035
.950	.189	.005 - .030
.950	.198	.047 - .070
.950	.204	.020 - .035
.950	.219	.015 - .030
.950	.234	.015 - .030
.950	.250	.015 - .030
.950	.328	.105 - .125
.950	.387	.005 - .010
.950	.395	.005 - .070
.950	.440	.090 - .105
.950	.500	.005 - .030
.950	.502	.005 - .020
.950	.503	.010 - .040
.950	.505	.010 - .020
.950	.512	.100 - .125
.950	.531	.060 - .080
.950	.567	.030 - .050
.950	.640	.030 - .125
.950	.645	.090 - .105
.950	.680	.110 - .130
.950	.696	.030 - .040
.950	.747	.005 - .010
.950	.760	.030 - .050
.950	.775	.020 - .035
.950	.807	.010 - .020
.950	.815	.005 - .010
.951	.104	.005 - .010
.951	.156	.015 - .030
.951	.376	.010 - .020
.951	.377	.020 - .030
.951	.380	.040 - .060
.951	.388	.010 - .020
.951	.500	.010 - .020
.951	.586	.015 - .025
.951	.661	.005 - .010
.951	.741	.020 - .030
.952	.125	.025 - .040
.952	.166	.060 - .080
.952	.198	.048 - .070
.952	.213	.048 - .070
.952	.376	.005 - .010
.952	.470	.005 - .010
.952	.502	.050 - .070
.952	.555	.060 - .070
.952	.570	.080 - .100
.952	.627	.005 - .010
.952	.685	.060 - .070
.952	.687	.005 - .010
.953	.693	.105 - .125
.953	.710	.105 - .135
.953	.742	.090 - .105
.954	.322	.005 - .010
.954	.630	.105 - .125
.954	.670	.060 - .070
.954	.753	.040 - .060
.954	.826	.005 - .010
.955	.510	.025 - .040
.955	.733	.020 - .040
.955	.825	.010 - .020
.955	.848	.005 - .010
.956	.439	.060 - .125
.956	.635	.005 - .050
.956	.781	.005 - .010
.956	.820	.005 - .010
.957	.295	.030 - .050
.957	.626	.040 - .060
.957	.734	.015 - .030
.957	.812	.005 - .010
.957	.841	.015 - .020
.958	.442	.005 - .010
.958	.606	.050 - .072
.958	.639	.020 - .030
.958	.779	.070 - .080
.959	.300	.015 - .025
.959	.328	.030 - .050
.959	.420	.030 - .050
.959	.641	.090 - .120
.959	.729	.020 - .040
.960	.125	.032 - .060
.960	.133	.010 - .025
.960	.155	.050 - .072
.960	.259	.005 - .010
.960	.315	.020 - .032
.960	.350	.032 - .050
.960	.398	.090 - .105
.960	.450	.032 - .050
.960	.500	.030 - .060
.960	.507	.080 - .104
.960	.537	.005 - .010
.960	.550	.032 - .050
.960	.572	.005 - .010
.960	.575	.005 - .010
.960	.640	.005 - .010
.960	.650	.032 - .050
.960	.705	.030 - .060
.960	.728	.040 - .060
.960	.740	.090 - .105
.960	.750	.030 - .060
.960	.751	.050 - .075
.960	.758	.005 - .010
.960	.774	.005 - .010
.960	.783	.020 - .030
.960	.820	.005 - .010
.961	.438	.050 - .070

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

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
.961	.500	.040 - .050	.970	.550	.010 - .020	.979	.285	.015 - .030	.983	.753	.020 - .030	.986	.700	.030 - .050	.991	.317	.090 - .125
.961	.621	.005 - .010	.970	.631	.156 - .187	.979	.393	.005 - .010	.984	.183	.050 - .075	.986	.710	.105 - .125	.991	.405	.005 - .010
.961	.676	.020 - .030	.970	.670	.005 - .010	.979	.405	.005 - .010	.984	.238	.005 - .010	.986	.779	.005 - .010	.991	.406	.090 - .125
.961	.730	.005 - .010	.970	.723	.005 - .010	.979	.517	.125 - .135	.984	.239	.005 - .010	.986	.859	.030 - .050	.991	.412	.005 - .010
.961	.820	.010 - .020	.970	.754	.040 - .060	.979	.563	.070 - .090	.984	.240	.015 - .030	.987	.348	.005 - .010	.991	.515	.005 - .010
.961	.844	.010 - .020	.970	.769	.005 - .010	.979	.630	.005 - .010	.984	.257	.105 - .125	.987	.397	.005 - .010	.991	.605	.005 - .010
.961	.878	.005 - .010	.970	.802	.030 - .048	.979	.674	.005 - .010	.984	.284	.005 - .010	.987	.516	.050 - .070	.991	.627	.105 - .135
.962	.045	.015 - .025	.970	.882	.010 - .020	.979	.678	.025 - .040	.984	.355	.080 - .104	.987	.748	.025 - .042	.991	.678	.030 - .050
.962	.055	.005 - .010	.971	.345	.105 - .135	.979	.705	.005 - .010	.984	.394	.005 - .010	.988	.255	.025 - .040	.991	.751	.030 - .040
.962	.766	.005 - .010	.971	.376	.060 - .080	.979	.710	.030 - .050	.984	.395	.100 - .125	.988	.354	.020 - .040	.991	.770	.015 - .030
.962	.769	.035 - .062	.971	.408	.050 - .075	.979	.837	.010 - .030	.984	.435	.005 - .010	.988	.499	.040 - .060	.991	.779	.040 - .060
.962	.789	.020 - .030	.971	.439	.020 - .040	.979	.840	.015 - .030	.984	.469	.080 - .100	.988	.505	.090 - .120	.991	.796	.020 - .030
.963	.271	.005 - .010	.971	.444	.020 - .030	.980	.198	.005 - .010	.984	.473	.005 - .010	.988	.506	.025 - .040	.991	.877	.005 - .010
.963	.283	.030 - .050	.971	.550	.030 - .050	.980	.246	.015 - .030	.984	.481	.040 - .060	.988	.597	.040 - .060	.991	.880	.015 - .060
.963	.400	.020 - .040	.971	.605	.005 - .010	.980	.302	.015 - .030	.984	.507	.070 - .090	.988	.703	.005 - .010	.991	.887	.005 - .010
.963	.451	.030 - .050	.971	.631	.080 - .104	.980	.347	.005 - .010	.984	.513	.105 - .125	.988	.736	.040 - .060	.992	.260	.005 - .010
.963	.500	.010 - .020	.971	.720	.104 - .125	.980	.395	.015 - .025	.984	.530	.042 - .062	.988	.758	.005 - .015	.992	.263	.005 - .010
.963	.504	.005 - .010	.971	.761	.005 - .020	.980	.407	.100 - .125	.984	.531	.005 - .010	.988	.759	.030 - .050	.992	.270	.005 - .015
.963	.659	.080 - .100	.971	.837	.040 - .060	.980	.445	.005 - .010	.984	.556	.005 - .010	.988	.760	.005 - .010	.992	.316	.110 - .130
.963	.758	.020 - .030	.971	.865	.030 - .050	.980	.458	.020 - .030	.984	.572	.040 - .060	.988	.877	.015 - .030	.992	.330	.110 - .130
.963	.800	.030 - .050	.972	.335	.040 - .060	.980	.481	.005 - .010	.984	.625	.040 - .060	.989	.176	.005 - .010	.992	.387	.020 - .040
.963	.885	.010 - .020	.972	.365	.010 - .020	.980	.500	.010 - .020	.984	.628	.035 - .060	.989	.201	.080 - .100	.992	.523	.025 - .040
.964	.376	.030 - .050	.972	.570	.100 - .130	.980	.501	.005 - .010	.984	.630	.015 - .025	.989	.253	.030 - .050	.992	.536	.005 - .010
.964	.500	.015 - .030	.972	.657	.015 - .105	.980	.514	.005 - .010	.984	.641	.080 - .105	.989	.259	.060 - .070	.992	.582	.030 - .050
.964	.652	.090 - .120	.972	.746	.050 - .070	.980	.521	.025 - .040	.984	.643	.060 - .080	.989	.282	.080 - .100	.992	.669	.005 - .010
.965	.264	.020 - .040	.972	.764	.050 - .075	.980	.522	.005 - .010	.984	.648	.015 - .030	.989	.400	.100 - .125	.992	.687	.105 - .135
.965	.423	.030 - .040	.973	.110	.050 - .072	.980	.600	.030 - .105	.984	.650	.100 - .125	.989	.506	.070 - .090	.992	.688	.050 - .070
.965	.506	.060 - .075	.973	.567	.005 - .010	.980	.640	.007 - .015	.984	.689	.020 - .030	.989	.515	.060 - .080	.992	.754	.040 - .060
.965	.514	.090 - .120	.973	.595	.005 - .075	.980	.647	.005 - .010	.984	.715	.050 - .075	.989	.560	.025 - .040	.992	.835	.010 - .015
.965	.580	.032 - .060	.974	.226	.050 - .075	.980	.648	.050 - .070	.984	.716	.025 - .042	.989	.640	.005 - .010	.993	.249	.040 - .050
.965	.610	.020 - .035	.974	.260	.050 - .070	.980	.664	.060 - .083	.984	.748	.010 - .020	.989	.736	.100 - .120	.993	.295	.062 - .120
.965	.620	.025 - .040	.974	.502	.005 - .010	.980	.668	.080 - .100	.984	.749	.040 - .060	.989	.739	.005 - .010	.993	.297	.062 - .120
.965	.644	.005 - .010	.974	.669	.015 - .025	.980	.719	.040 - .060	.984	.794	.070 - .090	.989	.771	.060 - .075	.993	.316	.005 - .010
.965	.669	.080 - .105	.974	.699	.025 - .040	.980	.740	.020 - .040	.984	.795	.025 - .042	.989	.789	.020 - .040	.993	.371	.070 - .090
.965	.709	.005 - .010	.974	.716	.120 - .135	.980	.757	.080 - .104	.984	.798	.070 - .090	.989	.830	.015 - .030	.993	.523	.040 - .060
.965	.754	.020 - .040	.974	.755	.050 - .070	.980	.841	.030 - .050	.984	.799	.040 - .060	.989	.844	.005 - .020	.993	.605	.020 - .040
.965	.783	.020 - .036	.974	.768	.030 - .050	.980	.851	.010 - .020	.984	.817	.005 - .010	.989	.879	.005 - .010	.993	.638	.040 - .060
.966	.391	.040 - .060	.975	.440	.005 - .010	.980	.860	.005 - .010	.984	.880	.015 - .030	.990	.125	.040 - .060	.993	.640	.062 - .090
.966	.542	.020 - .032	.975	.495	.005 - .010	.980	.875	.005 - .010	.985	.209	.060 - .080	.990	.126	.010 - .020	.993	.655	.070 - .090
.966	.643	.080 - .105	.975	.503	.015 - .030	.981	.396	.010 - .020	.985	.215	.040 - .060	.990	.355	.080 - .100	.993	.689	.010 - .040
.966	.703	.060 - .075	.975	.531	.010 - .020	.981	.467	.020 - .030	.985	.250	.040 - .050	.990	.437	.010 - .020	.994	.151	.005 - .010
.967	.265	.005 - .030	.975	.532	.025 - .040	.981	.504	.050 - .060	.985	.276	.060 - .080	.990	.438	.105 - .125	.994	.243	.025 - .042
.967	.375	.090 - .125	.975	.550	.050 - .060	.981	.512	.005 - .010	.985	.316	.005 - .010	.990	.442	.006 - .015	.994	.287	.090 - .110
.967	.542	.015 - .030	.975	.571	.050 - .110	.981	.525	.015 - .030	.985	.331	.070 - .090	.990	.443	.006 - .015	.994	.431	.010 - .020
.967	.567	.070 - .090	.975	.596	.030 - .040	.981	.565	.005 - .010	.985	.354	.005 - .010	.990	.454	.060 - .080	.994	.441	.090 - .110
.967	.593	.050 - .075	.975	.630	.010 - .020	.981	.577	.075 - .104	.985	.395	.005 - .010	.990	.456	.030 - .050	.994	.484	.005 - .010
.967	.719	.060 - .080	.975	.640	.005 - .020	.981	.586	.005 - .015	.985	.409	.120 - .140	.990	.469	.080 - .100	.994	.500	.090 - .100
.967	.761	.050 - .075	.975	.687	.090 - .100	.981	.730	.030 - .050	.985	.440	.020 - .040	.990	.510	.025 - .040	.994	.508	.090 - .105
.968	.517	.050 - .075	.975	.697	.062 - .075	.981	.752	.020 - .040	.985	.443	.005 - .010	.990	.512	.005 - .010	.994	.513	.130 - .150
.968	.625	.050 - .070	.975	.699	.005 - .010	.981	.840	.005 - .010	.985	.450	.025 - .035	.990	.516	.030 - .050	.994	.540	.005 - .010
.968	.634	.005 - .015	.975	.765	.040 - .050	.981	.845	.005 - .015	.985	.451	.070 - .090	.990	.526	.090 - .105	.994	.552	.040 - .050
.968	.636	.030 - .050	.975	.795	.005 - .012	.982	.286	.030 - .060	.985	.475	.010 - .015	.990	.560	.030 - .060	.994	.565	.040 - .060
.968	.655	.025 - .045	.975	.804	.030 - .060	.982	.345	.060 - .080	.985	.490	.120 - .156	.990	.562	.080 - .156	.994	.605	.005 - .010
.968	.675	.015 - .030	.975	.825	.005 - .010	.982	.501	.005 - .010	.985	.500	.020 - .032	.990	.595	.105 - .125	.994	.625	.050 - .075
.968	.687	.020 - .040	.975	.885	.010 - .020	.982	.502	.015 - .030	.985	.503	.008 - .015	.990	.605	.075 - .090	.994	.721	.005 - .010
.968	.718	.050 - .075	.976	.394	.035 - .050	.982	.503	.005 - .010	.985	.506	.100 - .120	.990	.625	.020 - .040	.994	.813	.005 - .010
.968	.729	.015 - .030	.976	.503	.030 - .050	.982	.504	.100 - .125	.985	.512	.030 - .050	.990	.626	.050 - .075	.994	.900	.005 - .010
.968	.741	.005 - .010	.976	.525	.010 - .020	.982	.562	.060 - .080	.985	.535	.040 - .060	.990	.631	.005 - .010	.995	.083	.005 - .010
.968	.869	.025 - .040	.976	.527	.015 - .030	.982	.620	.005 - .010	.985	.548	.010 - .015	.990	.635	.060 - .080	.995	.157	.032 - .042
.969	.250	.050 - .070	.976	.565	.005 - .010	.982	.704	.010 - .020	.985	.556	.040 - .060	.990	.645	.005 - .010	.995	.160	.015 - .030
.969	.391	.030 - .050	.976	.640	.005 - .020	.982	.752	.030 - .050	.985	.565	.062 - .105	.990	.661	.010 - .020	.995	.196	.005 - .010
.969	.436	.050 - .075	.976	.661	.005 - .010	.982	.801	.005 - .010	.985	.587	.020 - .032	.990	.693	.005 - .010	.995	.224	.005 - .010
.969	.559	.020 - .040	.976	.717	.005 - .010	.982	.875	.020 - .040	.985	.635	.060 - .080	.990	.703	.020 - .040	.995	.272	.005 - .010
.969	.565	.020 - .030	.976	.872	.010 - .020	.983	.090	.010 - .025	.985	.669	.005 - .010	.990	.735	.030 - .050	.995	.282	.025 - .050
.969	.582	.005 - .010	.977	.276	.015 - .030	.983	.242	.040 - .060	.985	.685	.100 - .125	.990	.758	.020 - .105	.995	.297	.100 - .125
.969	.638	.025 - .042	.977	.315	.015 - .040	.983	.257	.100 - .125	.985	.700	.005 - .015	.990	.759	.080 - .100	.995	.374	.050 - .070
.969	.641	.060 - .080	.977	.485	.005 - .010	.983	.280	.015 - .025	.985	.721	.040 - .105	.990	.760	.010 - .042	.995	.378	.005 - .030
.969	.656	.060 - .080	.977	.550	.020 - .030	.983	.315	.005 - .010	.985	.751	.005 - .010	.990	.770	.020 - .030	.995	.392	.050 - .070
.969	.661	.060 - .080	.977	.560	.020 - .040	.983	.319	.005 - .010	.985	.760	.042 - .062	.990	.780	.005 - .010	.995	.410	.005 - .010
.969	.750	.005 - .010	.977	.626	.070 - .090	.983	.323	.040 - .060	.985	.789	.005 - .025	.990	.800	.005 - .010	.995	.447	.005 - .010
.969	.770	.010 - .048	.977	.649	.010 - .020	.983	.381	.015 - .030	.985	.790	.005 - .010	.990	.810	.010 - .030	.995	.453	.008 - .016
.969	.792	.025 - .048	.977	.720	.010 - .040	.983	.396	.050 - .075	.985	.806	.005 - .010	.990	.813	.005 - .010	.995	.494	.005 - .010
.969	.802	.015 - .030	.977	.778	.070 - .090	.983	.398	.050 - .070	.985	.825	.010 - .020	.990	.820	.016 - .032	.995	.500	.070 - .090
.970	.092	.025 - .048	.978	.180	.020 - .040	.983	.434	.005 - .010	.986	.220	.070 - .090	.990	.842	.010 - .020	.995	.515	.070 - .090
.970	.262	.100 - .125	.978	.437	.050 - .075	.983	.471	.008 - .015	.986	.337	.030 - .050	.990	.858	.025 - .040	.995	.517	.040 - .060
.970	.345	.020 - .040	.978	.503	.025 - .040	.983	.502	.005 - .010	.986	.408	.020 - .040	.990	.910	.015 - .025	.995	.522	.005 - .010
.970	.380	.025 - .040	.978	.515	.005 - .120	.983	.659	.010 - .020	.986	.516	.050 - .070	.991	.071	.010 - .020	.995	.534	.083 - .105
.970	.418	.070 - .080	.978	.659	.015 - .020	.983	.670	.020 - .040	.986	.585	.050 - .070	.991	.267	.060 - .080	.995	.535	.062 - .120
.970	.440	.005 - .010	.978	.690	.010 - .020	.983	.678	.060 - .080	.986	.631	.010 - .020	.991	.303	.005 - .010	.995	.538	.015 - .030
.970	.515	.080 - .100	.979	.171	.015 - .035	.983	.719	.005 - .010	.986	.635	.060 - .080	.991	.316	.005 - .010	.995	.559	.125 - .187

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

Need Disks? All O.D. sizes available with no I.D. — (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
.995	.564	.040 - .060
.995	.566	.030 - .060
.995	.573	.050 - .070
.995	.630	.050 - .070
.995	.657	.025 - .048
.995	.665	.005 - .012
.995	.666	.015 - .030
.995	.694	.020 - .062
.995	.700	.020 - .040
.995	.717	.005 - .012
.995	.720	.030 - .060
.995	.740	.025 - .040
.995	.750	.005 - .010
.995	.763	.005 - .010
.995	.766	.005 - .010
.995	.873	.040 - .060
.995	.938	.010 - .020
.996	.120	.042 - .062
.996	.170	.005 - .010
.996	.255	.005 - .010
.996	.283	.090 - .125
.996	.318	.005 - .010
.996	.323	.005 - .010
.996	.395	.156 - .187
.996	.396	.100 - .125
.996	.441	.020 - .030
.996	.463	.060 - .080
.996	.511	.040 - .060
.996	.578	.075 - .090
.996	.630	.010 - .015
.996	.666	.040 - .060
.996	.692	.010 - .030
.996	.740	.050 - .070
.996	.758	.005 - .010
.996	.785	.050 - .075
.996	.788	.005 - .010
.996	.798	.040 - .050
.996	.808	.040 - .060
.996	.812	.060 - .080
.996	.813	.015 - .030
.996	.823	.005 - .060
.996	.859	.040 - .060
.996	.864	.040 - .060
.996	.877	.005 - .030
.996	.880	.020 - .030
.996	.881	.025 - .040
.997	.152	.050 - .075
.997	.171	.040 - .062
.997	.250	.005 - .010
.997	.266	.010 - .020
.997	.312	.005 - .010
.997	.315	.060 - .080
.997	.327	.005 - .010
.997	.456	.005 - .010
.997	.466	.080 - .100
.997	.503	.030 - .050
.997	.508	.050 - .070
.997	.533	.005 - .010
.997	.537	.040 - .062
.997	.541	.005 - .010
.997	.549	.020 - .040
.997	.563	.125 - .187
.997	.622	.005 - .010
.997	.640	.090 - .105
.997	.689	.050 - .070
.997	.718	.005 - .015
.997	.748	.030 - .050
.997	.756	.016 - .025
.997	.758	.005 - .010
.997	.769	.025 - .040
.998	.062	.030 - .050
.998	.111	.010 - .020
.998	.125	.040 - .060
.998	.131	.015 - .025
.998	.136	.015 - .030
.998	.138	.005 - .015
.998	.156	.050 - .075
.998	.190	.005 - .010
.998	.202	.050 - .075
.998	.230	.008 - .016
.998	.252	.005 - .020
.998	.270	.060 - .083
.998	.339	.005 - .010
.998	.347	.100 - .125
.998	.348	.075 - .090
.998	.378	.080 - .105
.998	.395	.010 - .030
.998	.435	.020 - .030
.998	.501	.040 - .060
.998	.503	.030 - .125
.998	.504	.030 - .060
.998	.506	.005 - .125
.998	.508	.090 - .110
.998	.509	.005 - .010
.998	.515	.080 - .100
.998	.516	.005 - .010
.998	.534	.030 - .050
.998	.562	.015 - .020
.998	.563	.075 - .100
.998	.573	.050 - .070
.998	.577	.005 - .010
.998	.578	.010 - .020
.998	.580	.157 - .187
.998	.629	.005 - .010
.998	.630	.010 - .020
.998	.637	.040 - .060
.998	.662	.050 - .070
.998	.672	.005 - .012
.998	.678	.032 - .042
.998	.694	.020 - .040
.998	.748	.035 - .060
.998	.793	.005 - .010
.998	.855	.005 - .010
.998	.877	.015 - .030
.998	.913	.005 - .010
.999	.036	.005 - .010
.999	.096	.010 - .020
.999	.122	.005 - .010
.999	.201	.050 - .070
.999	.206	.005 - .010
.999	.243	.030 - .050
.999	.252	.030 - .045
.999	.253	.005 - .010
.999	.267	.105 - .125
.999	.284	.005 - .010
.999	.344	.080 - .104
.999	.348	.080 - .104
.999	.356	.005 - .010
.999	.372	.030 - .060
.999	.375	.010 - .060
.999	.376	.080 - .104
.999	.382	.030 - .050
.999	.392	.030 - .050
.999	.401	.040 - .060
.999	.444	.030 - .050
.999	.453	.060 - .070
.999	.505	.005 - .010
.999	.518	.040 - .060
.999	.527	.090 - .105
.999	.563	.015 - .030
.999	.578	.010 - .020
.999	.626	.020 - .134
.999	.629	.050 - .070
.999	.633	.005 - .010
.999	.657	.080 - .100
.999	.674	.100 - .134
.999	.675	.100 - .134
.999	.680	.005 - .010
.999	.693	.005 - .010
.999	.700	.020 - .030
.999	.715	.010 - .020
.999	.754	.050 - .070
.999	.755	.090 - .105
.999	.763	.005 - .010
.999	.787	.025 - .040
.999	.790	.005 - .010
.999	.822	.050 - .070
.999	.832	.025 - .040
.999	.840	.005 - .010
.999	.878	.005 - .010

1.000

O.D.	I.D.	Choose Any Thickness* From To
1.000	.028	.010 - .015
1.000	.064	.010 - .020
1.000	.066	.005 - .010
1.000	.073	.020 - .035
1.000	.077	.015 - .030
1.000	.086	.005 - .010
1.000	.093	.010 - .020
1.000	.094	.030 - .060
1.000	.100	.050 - .070
1.000	.116	.010 - .062
1.000	.117	.040 - .060
1.000	.118	.040 - .060
1.000	.129	.005 - .010
1.000	.131	.015 - .030
1.000	.142	.010 - .062
1.000	.143	.030 - .050
1.000	.147	.005 - .010
1.000	.156	.020 - .040
1.000	.157	.070 - .090
1.000	.165	.020 - .072
1.000	.168	.050 - .070
1.000	.170	.030 - .050
1.000	.172	.090 - .120
1.000	.178	.005 - .010
1.000	.180	.030 - .125
1.000	.180	.050 - .060
1.000	.192	.050 - .075
1.000	.195	.010 - .110
1.000	.196	.025 - .090
1.000	.198	.070 - .090
1.000	.199	.008 - .080
1.000	.200	.134 - .160
1.000	.205	.050 - .075
1.000	.209	.105 - .125
1.000	.215	.050 - .075
1.000	.217	.025 - .125
1.000	.218	.015 - .048
1.000	.219	.005 - .125
1.000	.220	.010 - .020
1.000	.221	.005 - .050
1.000	.225	.050 - .070
1.000	.228	.005 - .010
1.000	.237	.060 - .080
1.000	.238	.010 - .020
1.000	.239	.015 - .030
1.000	.250	.008 - .070
1.000	.251	.105 - .125
1.000	.252	.005 - .080
1.000	.253	.030 - .120
1.000	.255	.060 - .070
1.000	.256	.020 - .040
1.000	.258	.030 - .050
1.000	.263	.005 - .010
1.000	.264	.042 - .062
1.000	.266	.005 - .030
1.000	.267	.050 - .075
1.000	.268	.030 - .050
1.000	.270	.005 - .010
1.000	.272	.030 - .050
1.000	.273	.135 - .190
1.000	.278	.050 - .075
1.000	.280	.040 - .060
1.000	.281	.005 - .125
1.000	.282	.006 - .070
1.000	.283	.040 - .060
1.000	.292	.005 - .010
1.000	.293	.080 - .104
1.000	.301	.005 - .010
1.000	.310	.062 - .090
1.000	.311	.150 - .180
1.000	.315	.031 - .042
1.000	.316	.005 - .020
1.000	.317	.005 - .012
1.000	.318	.050 - .105
1.000	.320	.010 - .125
1.000	.323	.050 - .070
1.000	.326	.090 - .120
1.000	.328	.010 - .060
1.000	.330	.105 - .125
1.000	.332	.005 - .010
1.000	.338	.100 - .125
1.000	.340	.032 - .048
1.000	.343	.050 - .070
1.000	.344	.010 - .020
1.000	.354	.100 - .125
1.000	.357	.010 - .020
1.000	.363	.005 - .010
1.000	.372	.010 - .020
1.000	.375	.060 - .187
1.000	.376	.005 - .010
1.000	.377	.005 - .010
1.000	.378	.005 - .050
1.000	.379	.042 - .134
1.000	.381	.005 - .020
1.000	.384	.060 - .090
1.000	.386	.050 - .075
1.000	.387	.007 - .016
1.000	.388	.005 - .010
1.000	.389	.048 - .075
1.000	.392	.075 - .125
1.000	.395	.010 - .020
1.000	.400	.010 - .020
1.000	.403	.105 - .125
1.000	.405	.042 - .100
1.000	.406	.020 - .030
1.000	.407	.156 - .187
1.000	.409	.120 - .134
1.000	.410	.005 - .010
1.000	.414	.100 - .125
1.000	.415	.025 - .040
1.000	.418	.050 - .070
1.000	.427	.110 - .120
1.000	.432	.005 - .010
1.000	.434	.104 - .125
1.000	.437	.050 - .125
1.000	.438	.020 - .040
1.000	.440	.005 - .010
1.000	.441	.100 - .120
1.000	.443	.135 - .170
1.000	.444	.005 - .010
1.000	.445	.060 - .080
1.000	.447	.010 - .020
1.000	.451	.005 - .010
1.000	.452	.010 - .020
1.000	.457	.100 - .125
1.000	.459	.005 - .010
1.000	.465	.030 - .050
1.000	.468	.100 - .125
1.000	.471	.050 - .070
1.000	.475	.020 - .040
1.000	.476	.100 - .125
1.000	.480	.005 - .125
1.000	.482	.005 - .010
1.000	.485	.040 - .135
1.000	.499	.005 - .010
1.000	.500	.005 - .062
1.000	.501	.030 - .105
1.000	.502	.005 - .187
1.000	.504	.010 - .110
1.000	.505	.030 - .050
1.000	.506	.010 - .020
1.000	.507	.020 - .187
1.000	.508	.005 - .190
1.000	.510	.060 - .083
1.000	.511	.032 - .060
1.000	.513	.140 - .160
1.000	.515	.005 - .187
1.000	.517	.005 - .010
1.000	.518	.015 - .125
1.000	.520	.100 - .125
1.000	.531	.120 - .140
1.000	.534	.050 - .070
1.000	.535	.010 - .060
1.000	.545	.150 - .190
1.000	.549	.100 - .125
1.000	.550	.030 - .110
1.000	.556	.025 - .040
1.000	.562	.050 - .075
1.000	.563	.005 - .020
1.000	.564	.030 - .050
1.000	.567	.010 - .020
1.000	.568	.005 - .010
1.000	.572	.005 - .080
1.000	.578	.100 - .125
1.000	.579	.020 - .040
1.000	.590	.020 - .125
1.000	.594	.156 - .187
1.000	.598	.060 - .070
1.000	.600	.005 - .010
1.000	.605	.010 - .020
1.000	.610	.005 - .120
1.000	.611	.030 - .060
1.000	.623	.030 - .050
1.000	.624	.005 - .187
1.000	.625	.015 - .030
1.000	.626	.050 - .075
1.000	.627	.105 - .125
1.000	.628	.005 - .030
1.000	.629	.005 - .010
1.000	.630	.030 - .060
1.000	.631	.134 - .156
1.000	.632	.090 - .110
1.000	.633	.015 - .030
1.000	.634	.025 - .060
1.000	.636	.060 - .075
1.000	.638	.100 - .125
1.000	.640	.020 - .080
1.000	.641	.005 - .156
1.000	.646	.040 - .080
1.000	.649	.005 - .010
1.000	.655	.030 - .050
1.000	.656	.005 - .010
1.000	.665	.050 - .070
1.000	.669	.005 - .032
1.000	.670	.105 - .125
1.000	.671	.060 - .090
1.000	.673	.080 - .100
1.000	.674	.100 - .125
1.000	.675	.005 - .030
1.000	.676	.020 - .030
1.000	.679	.050 - .070
1.000	.680	.005 - .125
1.000	.686	.030 - .060
1.000	.688	.008 - .016
1.000	.690	.025 - .048
1.000	.691	.005 - .010
1.000	.700	.005 - .060
1.000	.709	.015 - .030
1.000	.716	.005 - .010
1.000	.720	.010 - .020
1.000	.724	.040 - .060
1.000	.733	.025 - .040
1.000	.742	.005 - .010
1.000	.750	.005 - .125
1.000	.751	.100 - .125
1.000	.752	.040 - .105
1.000	.753	.050 - .070
1.000	.754	.020 - .075
1.000	.755	.005 - .125
1.000	.756	.030 - .050
1.000	.759	.005 - .040
1.000	.760	.060 - .080
1.000	.761	.035 - .050
1.000	.764	.105 - .125
1.000	.765	.030 - .050
1.000	.766	.100 - .125
1.000	.767	.050 - .075
1.000	.768	.010 - .020
1.000	.770	.005 - .060
1.000	.771	.015 - .030
1.000	.776	.070 - .090
1.000	.785	.100 - .125
1.000	.787	.060 - .070
1.000	.791	.005 - .020
1.000	.796	.010 - .015
1.000	.797	.025 - .125
1.000	.798	.005 - .010
1.000	.800	.012 - .025
1.000	.801	.025 - .040
1.000	.805	.005 - .010
1.000	.815	.005 - .010
1.000	.828	.015 - .025
1.000	.837	.040 - .060
1.000	.845	.030 - .050
1.000	.850	.005 - .010
1.000	.851	.070 - .080
1.000	.854	.010 - .020
1.000	.855	.005 - .010
1.000	.875	.016 - .025
1.000	.876	.005 - .010
1.000	.879	.030 - .060
1.000	.880	.010 - .020
1.000	.892	.030 - .050
1.000	.900	.005 - .010
1.000	.911	.020 - .035
1.000	.936	.005 - .010
1.000	.957	.015 - .025
1.000	.958	.005 - .010
1.001	.164	.005 - .010
1.001	.203	.025 - .040
1.001	.218	.005 - .010
1.001	.247	.090 - .105
1.001	.250	.062 - .120
1.001	.251	.005 - .010
1.001	.253	.010 - .020
1.001	.260	.080 - .100
1.001	.262	.005 - .010
1.001	.264	.090 - .120
1.001	.268	.005 - .010
1.001	.269	.050 - .070
1.001	.285	.105 - .135
1.001	.322	.080 - .100
1.001	.344	.015 - .030
1.001	.378	.005 - .125
1.001	.380	.025 - .040
1.001	.385	.005 - .010
1.001	.389	.030 - .050
1.001	.409	.005 - .010
1.001	.416	.070 - .090
1.001	.418	.050 - .070
1.001	.423	.050 - .070
1.001	.439	.170 - .190
1.001	.494	.005 - .010
1.001	.500	.010 - .020
1.001	.503	.005 - .100
1.001	.504	.005 - .030
1.001	.505	.015 - .025
1.001	.508	.005 - .105
1.001	.531	.170 - .190
1.001	.564	.170 - .190
1.001	.587	.020 - .040
1.001	.595	.050 - .070
1.001	.611	.040 - .062
1.001	.626	.005 - .020
1.001	.628	.040 - .062
1.001	.629	.050 - .070
1.001	.688	.006 - .016
1.001	.690	.050 - .070
1.001	.711	.080 - .090
1.001	.756	.025 - .050
1.001	.818	.080 - .105
1.001	.906	.005 - .010
1.002	.136	.050 - .070
1.002	.140	.042 - .060
1.002	.172	.010 - .025
1.002	.197	.005 - .010
1.002	.277	.010 - .020
1.002	.312	.135 - .160
1.002	.319	.060 - .080
1.002	.379	.005 - .010
1.002	.384	.090 - .125
1.002	.442	.050 - .070
1.002	.454	.025 - .042
1.002	.470	.005 - .075
1.002	.504	.100 - .125

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

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
1.002	.505	.005 - .010	1.008	.831	.030 - .040	1.020	.787	.030 - .048	1.025	.788	.010 - .020	1.033	.836	.015 - .030	1.047	.499	.006 - .015
1.002	.507	.010 - .020	1.008	.845	.050 - .070	1.020	.805	.060 - .075	1.025	.804	.040 - .050	1.033	.883	.015 - .030	1.047	.522	.005 - .010
1.002	.531	.035 - .090	1.009	.195	.025 - .042	1.020	.861	.025 - .048	1.025	.877	.010 - .020	1.033	.925	.032 - .050	1.047	.627	.070 - .090
1.002	.532	.005 - .010	1.009	.511	.030 - .050	1.020	.960	.015 - .030	1.025	.893	.020 - .040	1.034	.130	.005 - .015	1.047	.840	.010 - .020
1.002	.534	.025 - .040	1.010	.130	.060 - .070	1.020	.962	.005 - .020	1.025	.926	.020 - .040	1.034	.350	.020 - .040	1.047	.916	.005 - .010
1.002	.564	.062 - .083	1.010	.388	.005 - .010	1.021	.257	.050 - .075	1.026	.239	.005 - .010	1.034	.381	.075 - .090	1.048	.163	.005 - .010
1.002	.579	.015 - .030	1.010	.450	.005 - .010	1.021	.316	.040 - .060	1.026	.480	.030 - .050	1.034	.500	.070 - .090	1.048	.282	.090 - .105
1.002	.581	.050 - .070	1.010	.506	.005 - .010	1.021	.575	.005 - .010	1.026	.630	.060 - .080	1.034	.654	.005 - .010	1.048	.378	.100 - .125
1.002	.645	.015 - .030	1.010	.510	.015 - .030	1.021	.668	.015 - .020	1.026	.781	.040 - .060	1.034	.731	.015 - .030	1.048	.431	.042 - .062
1.002	.652	.015 - .030	1.010	.540	.015 - .030	1.021	.726	.005 - .010	1.026	.917	.005 - .010	1.034	.827	.005 - .010	1.048	.504	.006 - .012
1.002	.658	.100 - .125	1.010	.640	.050 - .060	1.021	.750	.025 - .040	1.027	.203	.005 - .010	1.034	.830	.005 - .012	1.048	.517	.020 - .040
1.002	.685	.060 - .083	1.010	.664	.025 - .040	1.021	.766	.015 - .030	1.027	.294	.070 - .090	1.035	.660	.070 - .090	1.048	.629	.008 - .015
1.002	.700	.125 - .135	1.010	.757	.015 - .025	1.021	.878	.020 - .030	1.027	.382	.005 - .010	1.035	.820	.020 - .030	1.048	.657	.010 - .020
1.002	.703	.050 - .070	1.011	.501	.015 - .030	1.021	.930	.015 - .030	1.027	.417	.075 - .090	1.035	.832	.030 - .050	1.048	.688	.005 - .010
1.002	.718	.020 - .040	1.012	.315	.030 - .040	1.022	.219	.005 - .010	1.027	.418	.070 - .090	1.035	.858	.040 - .060	1.048	.882	.005 - .015
1.002	.719	.062 - .083	1.012	.358	.010 - .020	1.022	.318	.005 - .010	1.027	.439	.005 - .010	1.035	.874	.060 - .080	1.048	.883	.015 - .030
1.002	.767	.020 - .040	1.012	.551	.030 - .040	1.022	.354	.005 - .010	1.027	.542	.070 - .090	1.035	.948	.010 - .020	1.049	.377	.010 - .020
1.002	.820	.020 - .040	1.012	.849	.015 - .030	1.022	.394	.005 - .010	1.027	.635	.020 - .070	1.035	.954	.020 - .030	1.049	.463	.060 - .090
1.002	.842	.030 - .050	1.012	.869	.020 - .040	1.022	.468	.030 - .050	1.027	.637	.010 - .030	1.036	.533	.050 - .083	1.049	.562	.010 - .020
1.002	.897	.025 - .040	1.012	.896	.010 - .020	1.022	.477	.010 - .020	1.027	.669	.075 - .100	1.036	.678	.005 - .010	1.049	.648	.040 - .060
1.003	.211	.010 - .020	1.013	.755	.005 - .010	1.022	.552	.005 - .010	1.027	.721	.040 - .060	1.036	.718	.090 - .105	1.049	.890	.030 - .050
1.003	.377	.005 - .015	1.013	.806	.040 - .060	1.022	.590	.015 - .030	1.027	.793	.060 - .083	1.036	.793	.075 - .090	1.049	.950	.005 - .010
1.003	.410	.005 - .020	1.013	.848	.042 - .060	1.022	.626	.030 - .050	1.027	.826	.020 - .040	1.037	.440	.015 - .030	1.050	.156	.025 - .042
1.003	.441	.030 - .050	1.014	.503	.060 - .080	1.022	.786	.100 - .125	1.027	.830	.060 - .080	1.037	.925	.030 - .048	1.050	.178	.025 - .040
1.003	.445	.010 - .020	1.014	.642	.020 - .040	1.022	.826	.030 - .050	1.027	.872	.050 - .060	1.038	.440	.025 - .042	1.050	.250	.015 - .030
1.003	.455	.062 - .080	1.014	.692	.040 - .060	1.022	.960	.030 - .042	1.028	.151	.090 - .105	1.038	.506	.050 - .075	1.050	.314	.005 - .020
1.003	.498	.005 - .015	1.014	.848	.005 - .010	1.023	.047	.020 - .030	1.028	.623	.060 - .080	1.038	.709	.030 - .050	1.050	.320	.170 - .190
1.003	.508	.005 - .010	1.014	.860	.005 - .010	1.023	.127	.005 - .010	1.028	.629	.032 - .048	1.038	.974	.010 - .020	1.050	.375	.062 - .120
1.003	.628	.045 - .060	1.014	.874	.015 - .030	1.023	.302	.030 - .040	1.028	.812	.020 - .040	1.038	.989	.015 - .025	1.050	.376	.005 - .010
1.003	.641	.005 - .012	1.014	.884	.005 - .040	1.023	.395	.005 - .010	1.028	.846	.050 - .070	1.039	.626	.030 - .060	1.050	.416	.020 - .030
1.003	.723	.025 - .040	1.015	.534	.050 - .075	1.023	.398	.005 - .015	1.029	.318	.005 - .010	1.039	.890	.010 - .020	1.050	.438	.015 - .030
1.003	.780	.010 - .020	1.015	.652	.060 - .080	1.023	.473	.020 - .030	1.029	.520	.120 - .135	1.039	.943	.020 - .040	1.050	.500	.005 - .030
1.003	.807	.030 - .048	1.015	.671	.010 - .020	1.023	.474	.005 - .010	1.029	.740	.030 - .050	1.040	.138	.005 - .010	1.050	.503	.005 - .020
1.003	.810	.005 - .010	1.015	.755	.005 - .010	1.023	.552	.060 - .080	1.029	.765	.050 - .070	1.040	.195	.005 - .010	1.050	.504	.005 - .008
1.004	.148	.080 - .105	1.015	.773	.020 - .030	1.023	.553	.005 - .010	1.030	.171	.050 - .070	1.040	.378	.005 - .010	1.050	.564	.005 - .020
1.004	.185	.005 - .010	1.015	.790	.005 - .010	1.023	.669	.060 - .080	1.030	.189	.075 - .090	1.040	.544	.090 - .120	1.050	.570	.015 - .030
1.004	.320	.020 - .040	1.015	.818	.100 - .125	1.023	.709	.010 - .020	1.030	.194	.030 - .050	1.040	.560	.030 - .050	1.050	.615	.020 - .040
1.004	.423	.005 - .010	1.015	.842	.050 - .070	1.023	.725	.050 - .070	1.030	.273	.060 - .075	1.040	.627	.020 - .040	1.050	.626	.005 - .050
1.004	.458	.050 - .070	1.015	.876	.015 - .030	1.023	.730	.005 - .010	1.030	.336	.156 - .187	1.040	.714	.120 - .140	1.050	.629	.005 - .010
1.004	.531	.005 - .010	1.016	.302	.100 - .125	1.023	.839	.005 - .010	1.030	.377	.020 - .030	1.040	.809	.012 - .025	1.050	.635	.005 - .010
1.004	.549	.005 - .010	1.016	.460	.015 - .030	1.023	.869	.010 - .020	1.030	.383	.015 - .030	1.040	.831	.025 - .035	1.050	.712	.032 - .060
1.004	.567	.100 - .125	1.016	.481	.020 - .040	1.023	.885	.010 - .020	1.030	.384	.010 - .015	1.040	.869	.005 - .010	1.050	.722	.032 - .042
1.004	.628	.062 - .120	1.016	.505	.050 - .070	1.023	.887	.010 - .020	1.030	.417	.030 - .050	1.040	.875	.025 - .040	1.050	.753	.005 - .010
1.004	.675	.100 - .125	1.016	.522	.015 - .030	1.023	.893	.015 - .030	1.030	.505	.050 - .070	1.040	.915	.010 - .020	1.050	.760	.030 - .050
1.004	.705	.040 - .060	1.016	.650	.005 - .010	1.023	.909	.005 - .010	1.030	.510	.062 - .080	1.040	.926	.020 - .030	1.050	.765	.010 - .020
1.004	.750	.090 - .105	1.016	.750	.005 - .010	1.024	.394	.010 - .020	1.030	.533	.110 - .130	1.041	.788	.015 - .030	1.050	.771	.110 - .120
1.004	.760	.090 - .125	1.016	.761	.015 - .030	1.024	.395	.005 - .010	1.030	.542	.015 - .030	1.041	.909	.005 - .010	1.050	.798	.025 - .048
1.004	.780	.010 - .020	1.016	.920	.005 - .010	1.024	.398	.005 - .010	1.030	.585	.005 - .010	1.041	.919	.005 - .010	1.050	.804	.005 - .010
1.004	.781	.005 - .010	1.016	.929	.005 - .010	1.024	.454	.040 - .060	1.030	.649	.005 - .010	1.042	.544	.090 - .120	1.050	.820	.030 - .050
1.004	.873	.050 - .070	1.017	.301	.050 - .075	1.024	.473	.005 - .010	1.030	.688	.050 - .060	1.042	.773	.015 - .030	1.050	.826	.005 - .010
1.005	.210	.030 - .042	1.017	.627	.005 - .008	1.024	.476	.005 - .010	1.030	.690	.090 - .125	1.043	.473	.105 - .135	1.050	.828	.005 - .010
1.005	.257	.100 - .125	1.017	.754	.005 - .015	1.024	.568	.050 - .070	1.030	.719	.100 - .125	1.043	.676	.070 - .090	1.050	.850	.005 - .010
1.005	.262	.010 - .020	1.017	.825	.005 - .060	1.024	.629	.005 - .010	1.030	.749	.040 - .060	1.044	.191	.032 - .060	1.050	.876	.005 - .010
1.005	.263	.100 - .125	1.017	.865	.005 - .010	1.024	.717	.070 - .090	1.030	.815	.020 - .030	1.044	.193	.007 - .015	1.050	.877	.050 - .070
1.005	.480	.060 - .075	1.017	.878	.048 - .062	1.024	.801	.030 - .050	1.030	.850	.030 - .050	1.044	.378	.020 - .040	1.050	.878	.010 - .090
1.005	.510	.025 - .040	1.018	.203	.008 - .015	1.024	.881	.010 - .020	1.030	.894	.050 - .075	1.044	.512	.020 - .030	1.050	.896	.005 - .010
1.005	.536	.100 - .125	1.018	.688	.050 - .070	1.025	.243	.005 - .010	1.030	.952	.005 - .015	1.044	.750	.100 - .125	1.050	.900	.030 - .050
1.005	.650	.080 - .100	1.018	.696	.050 - .070	1.025	.315	.005 - .010	1.030	.967	.020 - .030	1.044	.828	.025 - .042	1.050	.950	.030 - .040
1.005	.758	.005 - .010	1.018	.747	.048 - .062	1.025	.318	.005 - .010	1.031	.377	.015 - .030	1.044	.987	.010 - .020	1.050	.970	.005 - .010
1.005	.801	.010 - .020	1.018	.807	.010 - .020	1.025	.330	.020 - .040	1.031	.385	.005 - .010	1.045	.210	.030 - .042	1.050	.984	.005 - .010
1.005	.840	.005 - .010	1.018	.824	.020 - .040	1.025	.337	.060 - .080	1.031	.408	.105 - .135	1.045	.230	.008 - .016	1.051	.264	.090 - .110
1.005	.900	.005 - .010	1.018	.826	.005 - .010	1.025	.375	.030 - .040	1.031	.485	.020 - .040	1.045	.252	.005 - .010	1.051	.315	.008 - .015
1.005	.950	.005 - .010	1.018	.832	.020 - .040	1.025	.394	.010 - .020	1.031	.520	.005 - .010	1.045	.288	.030 - .042	1.051	.500	.010 - .020
1.006	.516	.080 - .105	1.019	.166	.015 - .030	1.025	.395	.005 - .010	1.031	.864	.080 - .100	1.045	.300	.005 - .010	1.051	.502	.015 - .030
1.006	.584	.040 - .060	1.019	.415	.020 - .030	1.025	.410	.036 - .060	1.031	.910	.010 - .020	1.045	.407	.030 - .050	1.051	.503	.015 - .025
1.006	.881	.015 - .030	1.019	.613	.015 - .030	1.025	.433	.050 - .070	1.031	.958	.010 - .020	1.045	.465	.005 - .010	1.051	.504	.005 - .010
1.007	.203	.050 - .075	1.019	.665	.030 - .050	1.025	.440	.090 - .110	1.032	.175	.100 - .125	1.045	.619	.010 - .020	1.051	.752	.110 - .130
1.007	.414	.015 - .025	1.019	.757	.005 - .010	1.025	.475	.005 - .010	1.032	.259	.062 - .090	1.045	.704	.030 - .050	1.051	.881	.060 - .080
1.007	.448	.015 - .025	1.019	.766	.010 - .030	1.025	.477	.005 - .010	1.032	.378	.010 - .020	1.045	.750	.005 - .032	1.051	.964	.005 - .010
1.007	.528	.080 - .105	1.019	.794	.010 - .020	1.025	.505	.005 - .020	1.032	.529	.100 - .125	1.045	.830	.005 - .010	1.051	.988	.005 - .010
1.007	.569	.135 - .160	1.020	.316	.050 - .075	1.025	.550	.005 - .012	1.032	.566	.010 - .020	1.045	.880	.025 - .040	1.052	.253	.010 - .020
1.007	.641	.015 - .030	1.020	.378	.015 - .030	1.025	.606	.048 - .062	1.032	.633	.080 - .100	1.045	.894	.050 - .060	1.052	.595	.005 - .010
1.007	.647	.100 - .125	1.020	.510	.135 - .160	1.025	.632	.010 - .020	1.032	.656	.100 - .125	1.046	.138	.005 - .010	1.052	.715	.005 - .010
1.007	.725	.062 - .075	1.020	.552	.134 - .156	1.025	.704	.032 - .042	1.032	.788	.020 - .030	1.046	.345	.070 - .090	1.052	.760	.105 - .125
1.007	.752	.036 - .050	1.020	.641	.005 - .010	1.025	.720	.035 - .050	1.032	.849	.070 - .090	1.046	.517	.035 - .050	1.052	.765	.060 - .070
1.007	.764	.005 - .010	1.020	.667	.010 - .020	1.025	.749	.005 - .035	1.032	.925	.015 - .030	1.046	.861	.010 - .020	1.052	.846	.040 - .060
1.008	.469	.015 - .030	1.020	.700	.005 - .008	1.025	.754	.040 - .060	1.032	.955	.020 - .040	1.046	.908	.005 - .010	1.052	.881	.050 - .075
1.008	.661	.060 - .080	1.020	.744	.010 - .020	1.025	.775	.010 - .020	1.033	.483	.080 - .100	1.046	.943	.020 - .035	1.053	.530	.075 - .090
1.008	.689	.050 - .060	1.020	.750	.040 - .060	1.025	.776	.020 - .040	1.033	.757	.005 - .010	1.047	.287	.005 - .010	1.053	.627	.070 - .090
1.008	.778	.015 - .030	1.020	.775	.050 - .070	1.025	.787	.030 - .050	1.033	.811	.050 - .075	1.047	.480	.005 - .010	1.053	.662	.025 - .050

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

For a size NOT listed, send specs or phone for quote — (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
1.053	.752	.110 - .130
1.053	.893	.005 - .020
1.054	.503	.005 - .010
1.054	.560	.030 - .050
1.054	.649	.005 - .010
1.054	.725	.015 - .030
1.054	.749	.005 - .010
1.054	.840	.008 - .012
1.054	.879	.015 - .025
1.055	.153	.050 - .070
1.055	.312	.020 - .040
1.055	.350	.030 - .050
1.055	.384	.020 - .035
1.055	.461	.005 - .010
1.055	.472	.010 - .025
1.055	.501	.020 - .040
1.055	.758	.010 - .020
1.055	.786	.015 - .030
1.055	.791	.005 - .010
1.055	.856	.005 - .020
1.055	.865	.050 - .060
1.055	.880	.040 - .060
1.055	.884	.035 - .050
1.055	.942	.020 - .035
1.055	.949	.010 - .020
1.055	.953	.010 - .020
1.055	.957	.010 - .020
1.056	.205	.005 - .010
1.056	.634	.050 - .075
1.056	.659	.005 - .010
1.056	.676	.040 - .060
1.056	.719	.032 - .060
1.056	.726	.005 - .010
1.056	.841	.005 - .040
1.056	.875	.010 - .020
1.056	.877	.015 - .030
1.057	.350	.005 - .010
1.057	.838	.005 - .010
1.058	.251	.005 - .010
1.058	.428	.040 - .050
1.058	.501	.010 - .020
1.058	.520	.040 - .060
1.058	.532	.060 - .075
1.058	.583	.090 - .110
1.058	.601	.005 - .010
1.058	.626	.005 - .030
1.058	.628	.005 - .010
1.058	.640	.050 - .070
1.058	.676	.005 - .030
1.058	.688	.105 - .125
1.058	.735	.050 - .083
1.058	.757	.030 - .050
1.058	.762	.075 - .100
1.058	.872	.050 - .070
1.058	.897	.060 - .080
1.059	.058	.010 - .020
1.059	.153	.015 - .030
1.059	.188	.040 - .060
1.059	.347	.060 - .070
1.059	.450	.090 - .120
1.059	.514	.015 - .030
1.059	.582	.030 - .050
1.059	.596	.050 - .070
1.059	.634	.005 - .010
1.059	.750	.050 - .070
1.059	.768	.020 - .040
1.059	.890	.040 - .060
1.059	.965	.015 - .025
1.060	.150	.060 - .080
1.060	.172	.010 - .020
1.060	.180	.030 - .050
1.060	.210	.010 - .020
1.060	.258	.025 - .035
1.060	.283	.156 - .187
1.060	.284	.040 - .062
1.060	.318	.005 - .010
1.060	.341	.010 - .020
1.060	.378	.105 - .135
1.060	.394	.100 - .125
1.060	.396	.025 - .048
1.060	.429	.005 - .010
1.060	.451	.105 - .125
1.060	.469	.105 - .125
1.060	.479	.005 - .010
1.060	.510	.020 - .035
1.060	.512	.156 - .188
1.060	.513	.105 - .135
1.060	.531	.010 - .020
1.060	.563	.015 - .030
1.060	.573	.060 - .080
1.060	.580	.062 - .120
1.060	.629	.015 - .050
1.060	.638	.090 - .105
1.060	.658	.005 - .040
1.060	.659	.035 - .060
1.060	.672	.060 - .083
1.060	.688	.010 - .020
1.060	.702	.005 - .010
1.060	.726	.060 - .080
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	.853	.005 - .030
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	.267	.125 - .135
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	.750	.030 - .050
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
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	.472	.015 - .030
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	.573	.005 - .010
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	.787	.050 - .070
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	.632	.005 - .010
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
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	.318	.020 - .040
1.070	.619	.005 - .010
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
1.075	.834	.005 - .020
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	.626	.010 - .020
1.076	.634	.075 - .090
1.076	.697	.030 - .040
1.076	.767	.005 - .010
1.076	.814	.042 - .060
1.076	.826	.040 - .060
1.076	.875	.010 - .025
1.076	.892	.030 - .050
1.076	.923	.032 - .042
1.076	.967	.005 - .010
1.077	.535	.050 - .075
1.077	.632	.005 - .010
1.077	.634	.075 - .100
1.077	.664	.005 - .010
1.077	.725	.020 - .030
1.077	.728	.105 - .135
1.077	.766	.030 - .060
1.077	.873	.030 - .060
1.077	.874	.030 - .050
1.077	.967	.005 - .010
1.077	.213	.030 - .050
1.077	.354	.060 - .080
1.077	.440	.005 - .010
1.077	.515	.080 - .100
1.077	.535	.050 - .075
1.077	.664	.010 - .020
1.077	.205	.030 - .050
1.077	.254	.010 - .020
1.077	.341	.100 - .125
1.077	.636	.090 - .105
1.077	.750	.040 - .050
1.077	.813	.030 - .050
1.077	.153	.005 - .010
1.077	.390	.005 - .010
1.077	.600	.170 - .190
1.077	.936	.025 - .040
1.077	.255	.105 - .125
1.077	.266	.020 - .030
1.077	.318	.020 - .040
1.077	.619	.005 - .010
1.077	.755	.030 - .040
1.077	.794	.070 - .080
1.077	.906	.005 - .010
1.077	.961	.020 - .035
1.077	.259	.040 - .062
1.077	.266	.010 - .030
1.077	.626	.005 - .010
1.077	.884	.015 - .030
1.077	.256	.005 - .010
1.077	.381	.005 - .010
1.077	.712	.005 - .010
1.077	.750	.075 - .100
1.077	1.001	.005 - .010
1.077	.347	.060 - .080
1.077	.474	.005 - .010
1.077	.510	.015 - .030
1.077	.572	.070 - .090
1.077	.656	.040 - .060
1.077	.672	.005 - .010
1.077	.890	.050 - .070
1.077	.680	.135 - .156
1.077	.720	.020 - .040
1.077	.971	.015 - .025
1.077	.350	.005 - .010
1.077	.525	.100 - .120
1.077	.689	.075 - .100
1.077	.694	.050 - .060
1.077	.804	.005 - .010
1.077	.810	.005 - .010
1.077	.814	.005 - .010
1.077	.834	.005 - .020
1.077	.348	.050 - .075
1.077	.367	.075 - .090
1.077	.398	.005 - .010
1.077	.499	.015 - .030
1.077	.508	.083 - .104
1.077	.515	.015 - .025
1.077	.535	.060 - .080
1.077	.536	.060 - .080
1.077	.626	.010 - .020
1.077	.634	.075 - .090
1.077	.697	.030 - .040
1.077	.767	.005 - .010
1.077	.814	.042 - .060
1.077	.826	.040 - .060
1.077	.875	.010 - .025
1.077	.892	.030 - .050
1.077	.923	.032 - .042
1.077	.967	.005 - .010
1.078	.535	.050 - .075
1.078	.632	.005 - .010
1.078	.634	.075 - .100
1.078	.664	.005 - .010
1.078	.725	.020 - .030
1.078	.728	.105 - .135
1.078	.766	.030 - .060
1.078	.873	.030 - .060
1.078	.874	.030 - .050
1.078	.967	.005 - .010
1.078	.213	.030 - .050
1.078	.354	.060 - .080
1.078	.440	.005 - .010
1.078	.515	.080 - .100
1.078	.535	.050 - .075
1.078	.664	.010 - .020
1.078	.205	.030 - .050
1.078	.254	.010 - .020
1.078	.341	.100 - .125
1.078	.636	.090 - .105
1.078	.750	.040 - .050
1.078	.813	.030 - .050
1.078	.153	.005 - .010
1.078	.390	.005 - .010
1.078	.600	.170 - .190
1.078	.936	.025 - .040
1.078	.255	.105 - .125
1.078	.266	.020 - .030
1.078	.318	.020 - .040
1.078	.619	.005 - .010
1.078	.755	.030 - .040
1.078	.794	.070 - .080
1.078	.906	.005 - .010
1.078	.961	.020 - .035
1.078	.259	.040 - .062
1.078	.266	.010 - .030
1.078	.626	.005 - .010
1.078	.884	.015 - .030
1.078	.256	.005 - .010
1.078	.381	.005 - .010
1.078	.712	.005 - .010
1.078	.750	.075 - .100
1.078	1.001	.005 - .010
1.078	.347	.060 - .080
1.078	.474	.005 - .010
1.078	.510	.015 - .030
1.078	.572	.070 - .090
1.078	.656	.040 - .060
1.078	.672	.005 - .010
1.078	.890	.050 - .070
1.078	.680	.135 - .156
1.078	.720	.020 - .040
1.078	.971	.015 - .025
1.078	.350	.005 - .010
1.078	.525	.100 - .120
1.078	.689	.075 - .100
1.078	.694	.050 - .060
1.078	.804	.005 - .010
1.078	.810	.005 - .010
1.078	.814	.005 - .010
1.078	.834	.005 - .020
1.078	.348	.050 - .075
1.078	.367	.075 - .090
1.078	.398	.005 - .010
1.078	.499	.015 - .030
1.078	.508	.083 - .104
1.078	.515	.015 - .025
1.078	.535	.060 - .080
1.078	.536	.060 - .080
1.078	.626	.010 - .020
1.078	.634	.075 - .090
1.078	.697	.030 - .040
1.078	.767	.005 - .010
1.078	.814	.042 - .060
1.078	.826	.040 - .060
1.078	.875	.010 - .025
1.078	.892	.030 - .050
1.078	.923	.032 - .042
1.078	.967	.005 - .010
1.079	.114	.005 - .010
1.079	.257	.005 - .010
1.079	.509	.030 - .050
1.079	.567	.025 - .040
1.079	.587	.025 - .040
1.079	.760	.025 - .040
1.079	.933	.005 - .010
1.079	.955	.005 - .010
1.080	.088	.005 - .010
1.080	.276	.020 - .040
1.080	.320	.040 - .060
1.080	.328	.015 - .030
1.080	.505	.005 - .020
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
1.080	.973	.030 - .050
1.081	.341	.030 - .050
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	.721	.050 - .070
1.084	.725	.040 - .060
1.084	.728	.040 - .050
1.084	.765	.040 - .060
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	.572	.070 - .090
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	.820	.010 - .020
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
1.088	.840	.080 - .100
1.089	.460	.020 - .030
1.089	.687	.110 - .130
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	.850	.070 - .090
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
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	.846	.030 - .050
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	.749	.040 - .060
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

*With BOKER'S precision 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
1.096	.675	.005 - .015	1.100	.566	.005 - .010	1.102	.590	.090 - .105	1.109	.488	.005 - .010	1.115	.664	.005 - .010	1.120	.496	.040 - .060
1.096	.690	.030 - .050	1.100	.578	.080 - .090	1.102	.598	.030 - .050	1.109	.504	.030 - .050	1.115	.700	.030 - .050	1.120	.500	.060 - .080
1.096	.754	.005 - .010	1.100	.607	.075 - .100	1.102	.632	.005 - .020	1.109	.506	.025 - .040	1.115	.760	.005 - .010	1.120	.507	.008 - .016
1.096	.803	.010 - .020	1.100	.626	.005 - .020	1.102	.666	.040 - .060	1.109	.556	.020 - .030	1.115	.780	.050 - .070	1.120	.512	.005 - .015
1.096	.872	.005 - .020	1.100	.627	.005 - .010	1.102	.667	.040 - .060	1.109	.830	.005 - .010	1.115	.807	.005 - .010	1.120	.522	.100 - .125
1.096	.922	.025 - .040	1.100	.629	.010 - .020	1.102	.670	.030 - .050	1.109	.835	.010 - .020	1.115	.818	.100 - .125	1.120	.573	.005 - .050
1.096	.935	.050 - .070	1.100	.630	.005 - .015	1.102	.689	.050 - .070	1.109	.917	.040 - .050	1.115	.875	.030 - .050	1.120	.578	.040 - .060
1.096	.937	.032 - .060	1.100	.632	.010 - .075	1.102	.766	.005 - .010	1.110	.094	.005 - .010	1.115	.876	.050 - .075	1.120	.591	.050 - .060
1.097	.079	.005 - .010	1.100	.635	.005 - .010	1.102	.771	.040 - .060	1.110	.097	.045 - .060	1.115	.930	.030 - .040	1.120	.601	.060 - .080
1.097	.598	.170 - .190	1.100	.641	.135 - .156	1.102	.787	.060 - .080	1.110	.228	.030 - .042	1.116	.163	.010 - .030	1.120	.603	.010 - .050
1.097	.627	.070 - .090	1.100	.643	.050 - .070	1.102	.827	.010 - .020	1.110	.238	.018 - .038	1.116	.381	.020 - .030	1.120	.620	.120 - .156
1.097	.638	.030 - .050	1.100	.672	.015 - .035	1.102	.849	.070 - .090	1.110	.282	.015 - .030	1.116	.547	.050 - .075	1.120	.625	.010 - .020
1.097	.782	.005 - .010	1.100	.675	.070 - .090	1.102	.854	.005 - .010	1.110	.326	.050 - .070	1.116	.688	.005 - .010	1.120	.628	.005 - .010
1.097	.830	.025 - .040	1.100	.693	.005 - .010	1.102	.866	.050 - .060	1.110	.467	.020 - .040	1.116	.757	.010 - .020	1.120	.640	.016 - .025
1.097	.873	.005 - .010	1.100	.695	.030 - .040	1.102	.948	.005 - .010	1.110	.517	.005 - .010	1.116	.782	.010 - .015	1.120	.644	.100 - .125
1.097	.883	.005 - .010	1.100	.696	.020 - .040	1.103	.316	.005 - .010	1.110	.607	.080 - .105	1.116	.786	.005 - .010	1.120	.646	.030 - .050
1.097	.900	.030 - .050	1.100	.700	.040 - .060	1.103	.395	.005 - .020	1.110	.626	.005 - .010	1.116	.809	.030 - .060	1.120	.668	.090 - .120
1.097	.901	.040 - .060	1.100	.716	.005 - .020	1.103	.396	.080 - .100	1.110	.684	.060 - .080	1.116	.816	.005 - .016	1.120	.669	.015 - .025
1.097	.949	.050 - .060	1.100	.718	.105 - .135	1.103	.397	.010 - .020	1.110	.700	.100 - .120	1.116	.862	.015 - .030	1.120	.688	.048 - .062
1.097	1.003	.010 - .030	1.100	.751	.005 - .010	1.103	.398	.005 - .020	1.110	.710	.005 - .010	1.116	.868	.062 - .083	1.120	.746	.005 - .015
1.098	.220	.005 - .010	1.100	.765	.030 - .050	1.103	.473	.005 - .010	1.110	.725	.030 - .040	1.116	.879	.005 - .010	1.120	.750	.005 - .010
1.098	.375	.070 - .090	1.100	.770	.010 - .020	1.103	.502	.010 - .020	1.110	.760	.005 - .008	1.116	.883	.016 - .025	1.120	.753	.030 - .050
1.098	.377	.010 - .020	1.100	.775	.032 - .042	1.103	.554	.005 - .010	1.110	.780	.020 - .035	1.116	1.002	.005 - .010	1.120	.760	.015 - .032
1.098	.396	.120 - .140	1.100	.781	.040 - .060	1.103	.560	.015 - .030	1.110	.805	.015 - .030	1.117	.159	.105 - .125	1.120	.761	.060 - .080
1.098	.420	.005 - .010	1.100	.782	.020 - .040	1.103	.632	.075 - .095	1.110	.834	.080 - .105	1.117	.340	.005 - .015	1.120	.765	.005 - .012
1.098	.504	.010 - .020	1.100	.794	.005 - .080	1.103	.638	.005 - .010	1.110	.835	.005 - .010	1.117	.372	.050 - .075	1.120	.779	.025 - .042
1.098	.597	.030 - .040	1.100	.797	.015 - .035	1.103	.692	.030 - .050	1.110	.868	.005 - .010	1.117	.392	.050 - .070	1.120	.780	.100 - .125
1.098	.600	.005 - .010	1.100	.827	.125 - .135	1.103	.811	.005 - .010	1.110	.875	.050 - .075	1.117	.410	.156 - .187	1.120	.800	.040 - .050
1.098	.660	.105 - .125	1.100	.858	.010 - .020	1.103	.820	.015 - .030	1.110	.880	.042 - .130	1.117	.566	.025 - .040	1.120	.811	.030 - .050
1.098	.671	.005 - .010	1.100	.863	.030 - .042	1.103	.827	.020 - .040	1.110	.893	.083 - .105	1.117	.620	.100 - .125	1.120	.816	.060 - .080
1.098	.752	.120 - .140	1.100	.875	.005 - .010	1.103	.845	.060 - .080	1.110	.940	.005 - .010	1.117	.750	.100 - .125	1.120	.832	.015 - .030
1.098	.754	.120 - .156	1.100	.877	.025 - .040	1.103	.857	.010 - .020	1.110	.965	.042 - .062	1.117	.756	.050 - .060	1.120	.870	.040 - .060
1.098	.761	.005 - .010	1.100	.882	.030 - .040	1.103	.886	.010 - .020	1.110	1.006	.010 - .020	1.117	.758	.135 - .156	1.120	.880	.020 - .030
1.098	.846	.110 - .130	1.100	.889	.015 - .030	1.103	.947	.015 - .030	1.110	1.011	.005 - .010	1.117	.760	.020 - .040	1.120	.882	.060 - .083
1.098	.929	.005 - .010	1.100	.905	.040 - .060	1.104	.097	.060 - .090	1.111	.391	.050 - .070	1.117	.813	.062 - .083	1.120	.890	.060 - .090
1.098	.939	.005 - .010	1.100	.926	.010 - .020	1.104	.396	.060 - .070	1.111	.556	.040 - .060	1.117	.889	.010 - .020	1.120	.920	.010 - .020
1.099	.253	.005 - .010	1.100	.941	.015 - .050	1.104	.496	.005 - .010	1.111	.567	.105 - .125	1.117	.896	.015 - .030	1.120	.945	.015 - .030
1.099	.318	.005 - .010	1.100	.952	.010 - .020	1.104	.552	.110 - .130	1.111	.711	.020 - .030	1.117	.929	.042 - .062	1.120	.997	.005 - .010
1.099	.377	.005 - .010	1.100	.961	.005 - .010	1.104	.633	.110 - .130	1.111	.751	.005 - .010	1.117	.930	.050 - .075	1.120	1.020	.005 - .010
1.099	.378	.010 - .015	1.100	.965	.030 - .050	1.104	.670	.080 - .105	1.111	.775	.100 - .125	1.117	.954	.060 - .080	1.121	.160	.010 - .020
1.099	.436	.020 - .040	1.100	.987	.005 - .035	1.104	.752	.050 - .075	1.112	.246	.060 - .090	1.117	1.010	.030 - .050	1.121	.260	.005 - .010
1.099	.440	.005 - .010	1.100	.992	.030 - .050	1.104	.826	.005 - .010	1.112	.288	.070 - .090	1.118	.138	.090 - .110	1.121	.275	.060 - .070
1.099	.500	.005 - .010	1.100	.994	.030 - .050	1.104	.945	.010 - .020	1.112	.312	.060 - .090	1.118	.506	.060 - .075	1.121	.344	.005 - .010
1.099	.508	.005 - .020	1.100	1.000	.005 - .010	1.105	.126	.005 - .010	1.112	.313	.080 - .100	1.118	.679	.025 - .040	1.121	.386	.050 - .070
1.099	.558	.010 - .020	1.100	1.007	.010 - .020	1.105	.252	.060 - .078	1.112	.413	.070 - .090	1.118	.754	.010 - .020	1.121	.472	.030 - .040
1.099	.633	.020 - .030	1.100	1.010	.010 - .020	1.105	.360	.100 - .134	1.112	.421	.025 - .040	1.118	.768	.005 - .010	1.121	.491	.080 - .100
1.099	.650	.110 - .130	1.101	.075	.005 - .010	1.105	.496	.030 - .050	1.112	.478	.050 - .075	1.118	.802	.005 - .010	1.121	.511	.050 - .070
1.099	.788	.010 - .050	1.101	.255	.110 - .130	1.105	.592	.030 - .050	1.112	.500	.060 - .090	1.118	.823	.110 - .130	1.121	.531	.105 - .125
1.099	.816	.015 - .025	1.101	.275	.060 - .070	1.105	.635	.010 - .020	1.112	.538	.070 - .090	1.118	.940	.005 - .010	1.121	.609	.134 - .156
1.099	.840	.015 - .025	1.101	.316	.020 - .030	1.105	.640	.010 - .020	1.112	.663	.070 - .090	1.118	1.000	.040 - .060	1.121	.628	.040 - .060
1.099	.902	.010 - .030	1.101	.317	.005 - .010	1.105	.703	.080 - .090	1.112	.760	.060 - .090	1.118	1.001	.050 - .060	1.121	.644	.100 - .125
1.100	.128	.005 - .010	1.101	.354	.005 - .010	1.105	.749	.030 - .070	1.112	.776	.020 - .040	1.119	.323	.050 - .075	1.121	.664	.105 - .125
1.100	.162	.030 - .042	1.101	.356	.015 - .030	1.105	.756	.030 - .050	1.112	.890	.030 - .050	1.119	.403	.005 - .010	1.121	.699	.005 - .010
1.100	.253	.005 - .010	1.101	.444	.010 - .020	1.105	.881	.070 - .090	1.112	.893	.090 - .120	1.119	.450	.030 - .050	1.121	.720	.005 - .010
1.100	.312	.010 - .020	1.101	.473	.005 - .010	1.105	.886	.020 - .030	1.112	1.017	.020 - .040	1.119	.602	.030 - .050	1.121	.721	.010 - .020
1.100	.316	.005 - .010	1.101	.502	.010 - .020	1.105	.900	.005 - .010	1.113	.330	.156 - .190	1.119	.628	.080 - .104	1.121	.761	.020 - .040
1.100	.346	.050 - .070	1.101	.505	.015 - .025	1.105	.916	.005 - .010	1.113	.500	.060 - .090	1.119	.658	.060 - .080	1.121	.770	.050 - .070
1.100	.354	.070 - .090	1.101	.630	.020 - .040	1.105	.954	.005 - .010	1.113	.757	.015 - .025	1.119	.678	.030 - .040	1.121	.871	.020 - .030
1.100	.377	.010 - .020	1.101	.719	.025 - .040	1.105	.960	.105 - .120	1.113	.760	.060 - .090	1.119	.851	.030 - .050	1.121	.878	.005 - .010
1.100	.378	.015 - .030	1.101	.788	.005 - .010	1.106	.317	.015 - .030	1.113	.879	.020 - .040	1.119	.880	.080 - .100	1.121	.880	.005 - .010
1.100	.380	.005 - .010	1.102	.070	.005 - .010	1.106	.633	.078 - .105	1.113	.888	.010 - .020	1.119	.885	.040 - .060	1.121	.925	.005 - .010
1.100	.416	.015 - .030	1.102	.237	.005 - .010	1.106	.656	.060 - .090	1.113	.910	.042 - .060	1.119	.918	.075 - .090	1.121	.998	.020 - .040
1.100	.426	.157 - .187	1.102	.239	.005 - .010	1.106	.782	.020 - .040	1.113	.940	.010 - .020	1.119	.921	.025 - .042	1.122	.195	.005 - .010
1.100	.439	.005 - .010	1.102	.245	.050 - .060	1.106	.790	.040 - .060	1.113	.943	.025 - .040	1.119	.926	.050 - .070	1.122	.329	.030 - .040
1.100	.440	.005 - .020	1.102	.251	.025 - .040	1.107	.691	.080 - .100	1.113	1.011	.020 - .030	1.119	1.041	.005 - .010	1.122	.383	.030 - .050
1.100	.452	.005 - .010	1.102	.276	.180 - .190	1.107	.892	.040 - .060	1.114	.186	.005 - .010	1.120	.100	.050 - .074	1.122	.441	.010 - .020
1.100	.454	.050 - .125	1.102	.305	.005 - .010	1.107	.912	.030 - .050	1.114	.209	.005 - .010	1.120	.132	.015 - .025	1.122	.442	.007 - .016
1.100	.478	.005 - .010	1.102	.334	.005 - .010	1.107	.955	.020 - .030	1.114	.312	.090 - .125	1.120	.158	.005 - .012	1.122	.468	.015 - .030
1.100	.485	.010 - .020	1.102	.335	.080 - .090	1.107	.983	.010 - .020	1.114	.436	.150 - .180	1.120	.160	.030 - .042	1.122	.505	.030 - .125
1.100	.500	.005 - .010	1.102	.394	.005 - .020	1.108	.407	.050 - .070	1.114	.551	.170 - .180	1.120	.220	.104 - .134	1.122	.510	.090 - .105
1.100	.502	.005 - .010	1.102	.395	.005 - .025	1.108	.525	.005 - .015	1.114	.665	.010 - .020	1.120	.255	.100 - .125	1.122	.531	.125 - .156
1.100	.503	.005 - .010	1.102	.396	.005 - .010	1.108	.563	.005 - .010	1.114	.749	.005 - .010	1.120	.313	.062 - .075	1.122	.595	.015 - .030
1.100	.504	.005 - .020	1.102	.401	.005 - .010	1.108	.636	.050 - .070	1.115	.204	.005 - .010	1.120	.359	.090 - .110	1.122	.627	.020 - .040
1.100	.505	.005 - .010	1.102	.473	.005 - .010	1.108	.714	.060 - .075	1.115	.224	.005 - .010	1.120	.380	.025 - .040	1.122	.629	.050 - .070
1.100	.506	.005 - .010	1.102	.474	.005 - .010	1.108	.778	.030 - .050	1.115	.256	.015 - .030	1.120	.390	.020 - .125	1.122	.750	.005 - .015
1.100	.515	.100 - .125	1.102	.476	.005 - .020	1.108	.786	.015 - .030	1.115	.500	.075 - .090	1.120	.391	.005 - .075	1.122	.755	.050 - .070
1.100	.525	.010 - .020	1.102	.477	.005 - .010	1.108	.801	.030 - .040	1.115	.642	.005 - .010	1.120	.420	.040 - .060	1.122	.758	.010 - .020
1.100	.560	.005 - .010	1.102	.511	.160 - .190	1.108	.832	.005 - .010	1.115	.644	.015 - .030	1.120	.439	.050 - .075	1.122	.771	.020 - .040
1.100	.562	.040 - .060	1.102	.541	.015 - .030	1.108	.844	.050 - .070	1.115	.645	.005 - .010	1.120	.450	.100 - .125	1.122	.877	.050 - .070
1.100	.563	.015 - .035	1.102	.564	.100 - .120	1.109	.318	.010 - .020	1.115	.663	.005 - .010	1.120	.472	.100 - .125	1.122	.889	.020 - .035

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

For non-metallic materials, contact BOKER'S — (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
1.122	.890	.005 - .010	1.124	1.087	.005 - .010	1.125	.645	.100 - .125	1.127	.885	.080 - .100	1.138	.781	.062 - .083	1.148	.941	.020 - .030
1.122	.891	.005 - .010	1.125	.080	.050 - .075	1.125	.654	.050 - .075	1.127	.931	.050 - .070	1.138	.872	.090 - .110	1.149	.187	.030 - .050
1.122	.893	.015 - .030	1.125	.125	.040 - .060	1.125	.656	.036 - .125	1.127	.937	.050 - .070	1.138	.912	.060 - .075	1.149	.313	.090 - .110
1.122	1.002	.015 - .025	1.125	.131	.010 - .025	1.125	.669	.010 - .020	1.127	.997	.005 - .010	1.138	.952	.030 - .050	1.149	.383	.010 - .015
1.122	1.024	.015 - .025	1.125	.155	.060 - .083	1.125	.685	.008 - .016	1.127	1.018	.005 - .020	1.138	.979	.030 - .050	1.149	.632	.060 - .080
1.123	.208	.008 - .016	1.125	.156	.025 - .040	1.125	.687	.090 - .105	1.128	.314	.075 - .090	1.138	1.042	.030 - .050	1.149	.851	.005 - .010
1.123	.314	.050 - .075	1.125	.162	.015 - .030	1.125	.702	.050 - .075	1.128	.347	.156 - .187	1.139	.320	.005 - .010	1.149	.943	.030 - .050
1.123	.344	.005 - .010	1.125	.169	.042 - .062	1.125	.711	.070 - .080	1.128	.358	.156 - .187	1.139	.778	.015 - .030	1.149	.999	.040 - .060
1.123	.385	.005 - .010	1.125	.172	.125 - .135	1.125	.715	.025 - .040	1.128	.366	.048 - .062	1.140	.134	.060 - .075	1.150	.125	.062 - .083
1.123	.399	.010 - .020	1.125	.177	.025 - .040	1.125	.718	.075 - .100	1.128	.747	.005 - .010	1.140	.195	.060 - .075	1.150	.186	.062 - .083
1.123	.405	.080 - .105	1.125	.189	.090 - .125	1.125	.719	.040 - .060	1.128	.749	.025 - .040	1.140	.210	.060 - .075	1.150	.187	.030 - .050
1.123	.409	.156 - .187	1.125	.202	.090 - .120	1.125	.741	.020 - .040	1.128	.751	.005 - .010	1.140	.260	.060 - .075	1.150	.203	.062 - .083
1.123	.417	.020 - .030	1.125	.203	.040 - .125	1.125	.745	.100 - .125	1.128	.877	.010 - .020	1.140	.320	.060 - .075	1.150	.250	.062 - .083
1.123	.501	.005 - .010	1.125	.206	.015 - .040	1.125	.749	.105 - .135	1.128	.889	.050 - .070	1.140	.357	.020 - .040	1.150	.252	.005 - .010
1.123	.503	.010 - .110	1.125	.255	.005 - .060	1.125	.750	.015 - .042	1.129	.500	.080 - .105	1.140	.383	.060 - .075	1.150	.313	.062 - .083
1.123	.516	.125 - .156	1.125	.260	.048 - .125	1.125	.751	.010 - .020	1.129	.503	.090 - .105	1.140	.570	.010 - .125	1.150	.375	.020 - .083
1.123	.524	.005 - .010	1.125	.267	.100 - .125	1.125	.753	.015 - .030	1.129	.506	.050 - .070	1.140	.627	.020 - .040	1.150	.376	.010 - .020
1.123	.528	.080 - .100	1.125	.268	.005 - .010	1.125	.754	.005 - .010	1.129	.620	.100 - .125	1.140	.629	.020 - .040	1.150	.377	.015 - .030
1.123	.534	.156 - .187	1.125	.283	.062 - .083	1.125	.755	.005 - .010	1.129	.705	.105 - .135	1.140	.642	.030 - .060	1.150	.381	.005 - .020
1.123	.636	.005 - .010	1.125	.289	.060 - .083	1.125	.760	.050 - .090	1.129	.804	.060 - .080	1.140	.657	.005 - .020	1.150	.382	.020 - .030
1.123	.691	.125 - .156	1.125	.296	.020 - .040	1.125	.768	.048 - .062	1.129	.957	.005 - .010	1.140	.690	.020 - .040	1.150	.383	.105 - .125
1.123	.696	.040 - .060	1.125	.298	.060 - .090	1.125	.781	.050 - .070	1.130	.163	.005 - .010	1.140	.722	.005 - .010	1.150	.450	.005 - .010
1.123	.703	.040 - .060	1.125	.313	.020 - .040	1.125	.795	.010 - .050	1.130	.171	.050 - .070	1.140	.723	.005 - .010	1.150	.503	.005 - .020
1.123	.750	.005 - .010	1.125	.314	.008 - .015	1.125	.796	.050 - .062	1.130	.200	.060 - .070	1.140	.742	.005 - .010	1.150	.505	.005 - .010
1.123	.765	.020 - .040	1.125	.317	.083 - .120	1.125	.802	.134 - .156	1.130	.302	.020 - .040	1.140	.753	.010 - .020	1.150	.553	.005 - .010
1.123	.770	.005 - .010	1.125	.318	.005 - .010	1.125	.812	.080 - .100	1.130	.340	.170 - .190	1.140	.780	.005 - .010	1.150	.628	.005 - .010
1.123	.784	.040 - .060	1.125	.321	.005 - .020	1.125	.813	.010 - .020	1.130	.376	.005 - .010	1.140	.809	.005 - .010	1.150	.630	.005 - .062
1.123	.807	.005 - .010	1.125	.327	.062 - .090	1.125	.815	.005 - .010	1.130	.410	.060 - .080	1.140	.812	.031 - .042	1.150	.736	.005 - .010
1.123	.815	.030 - .060	1.125	.338	.020 - .030	1.125	.823	.005 - .010	1.130	.500	.040 - .060	1.140	.936	.005 - .010	1.150	.750	.040 - .090
1.123	.853	.005 - .010	1.125	.344	.062 - .083	1.125	.840	.105 - .125	1.130	.506	.100 - .125	1.140	.950	.005 - .015	1.150	.763	.005 - .010
1.123	.880	.030 - .050	1.125	.362	.105 - .134	1.125	.845	.005 - .050	1.130	.589	.030 - .050	1.140	.961	.005 - .010	1.150	.803	.040 - .060
1.123	.884	.090 - .105	1.125	.373	.042 - .062	1.125	.848	.062 - .083	1.130	.751	.080 - .105	1.140	.970	.025 - .050	1.150	.814	.048 - .125
1.123	.890	.080 - .090	1.125	.375	.125 - .156	1.125	.872	.100 - .125	1.130	.759	.005 - .010	1.140	.990	.015 - .030	1.150	.830	.032 - .042
1.123	.893	.020 - .030	1.125	.376	.125 - .156	1.125	.875	.032 - .060	1.130	.791	.050 - .070	1.140	1.010	.005 - .010	1.150	.951	.025 - .040
1.123	.908	.005 - .030	1.125	.378	.005 - .090	1.125	.878	.005 - .010	1.130	.800	.005 - .010	1.140	1.020	.005 - .010	1.150	.986	.005 - .020
1.123	.966	.015 - .025	1.125	.380	.050 - .075	1.125	.880	.010 - .020	1.130	.821	.005 - .010	1.141	.162	.030 - .050	1.150	.988	.010 - .020
1.123	.999	.040 - .060	1.125	.383	.005 - .012	1.125	.900	.040 - .060	1.130	.855	.062 - .083	1.141	.394	.005 - .010	1.150	.993	.005 - .012
1.123	1.013	.005 - .040	1.125	.390	.005 - .070	1.125	.908	.070 - .090	1.130	.882	.005 - .010	1.141	.395	.005 - .015	1.150	1.045	.005 - .010
1.123	1.072	.005 - .010	1.125	.391	.100 - .125	1.125	.920	.050 - .075	1.130	.951	.070 - .090	1.141	.642	.090 - .105	1.150	1.050	.030 - .040
1.124	.188	.100 - .125	1.125	.406	.042 - .075	1.125	.935	.005 - .008	1.130	1.001	.030 - .050	1.141	.717	.015 - .025	1.151	.127	.020 - .040
1.124	.199	.010 - .020	1.125	.407	.020 - .030	1.125	.938	.015 - .030	1.130	1.070	.005 - .010	1.141	.787	.005 - .010	1.151	.157	.035 - .050
1.124	.251	.010 - .020	1.125	.408	.100 - .125	1.125	.939	.050 - .070	1.131	.251	.050 - .070	1.141	.818	.105 - .125	1.151	.249	.015 - .030
1.124	.265	.005 - .010	1.125	.410	.100 - .125	1.125	.940	.005 - .010	1.131	.515	.040 - .060	1.142	.132	.010 - .020	1.151	.633	.010 - .020
1.124	.273	.005 - .010	1.125	.421	.008 - .015	1.125	.950	.040 - .060	1.131	.664	.005 - .010	1.142	.472	.005 - .010	1.151	.700	.005 - .010
1.124	.317	.050 - .090	1.125	.425	.013 - .135	1.125	.958	.020 - .040	1.131	.751	.015 - .025	1.142	.532	.080 - .100	1.151	.729	.005 - .010
1.124	.319	.020 - .040	1.125	.438	.100 - .125	1.125	.959	.005 - .010	1.131	.758	.020 - .040	1.142	.552	.005 - .010	1.151	.755	.062 - .120
1.124	.330	.005 - .010	1.125	.439	.070 - .090	1.125	.967	.005 - .010	1.131	.855	.060 - .080	1.142	.638	.030 - .040	1.151	.900	.010 - .020
1.124	.437	.060 - .080	1.125	.441	.090 - .105	1.125	1.005	.010 - .025	1.131	.956	.025 - .042	1.142	.751	.005 - .020	1.151	1.046	.005 - .010
1.124	.469	.015 - .030	1.125	.450	.025 - .062	1.126	.170	.050 - .075	1.131	1.034	.025 - .042	1.142	.753	.090 - .110	1.152	.305	.020 - .030
1.124	.500	.005 - .010	1.125	.455	.090 - .125	1.126	.270	.025 - .040	1.132	.170	.060 - .075	1.142	.790	.005 - .010	1.152	.380	.005 - .010
1.124	.502	.005 - .010	1.125	.468	.105 - .125	1.126	.385	.050 - .070	1.132	.955	.025 - .050	1.142	.826	.080 - .104	1.152	.563	.040 - .060
1.124	.509	.100 - .125	1.125	.480	.040 - .060	1.126	.406	.100 - .130	1.133	.191	.030 - .050	1.142	.945	.040 - .080	1.152	.673	.120 - .135
1.124	.519	.005 - .010	1.125	.500	.032 - .042	1.126	.452	.005 - .010	1.133	.199	.050 - .060	1.143	.187	.060 - .075	1.152	.781	.090 - .105
1.124	.562	.105 - .135	1.125	.503	.005 - .010	1.126	.546	.060 - .080	1.133	.946	.030 - .050	1.143	.206	.040 - .060	1.152	1.048	.010 - .020
1.124	.563	.010 - .020	1.125	.504	.015 - .025	1.126	.563	.015 - .030	1.133	.971	.005 - .010	1.143	.250	.060 - .075	1.152	1.053	.010 - .020
1.124	.592	.005 - .010	1.125	.512	.005 - .187	1.126	.639	.005 - .010	1.134	.530	.030 - .050	1.143	.313	.060 - .075	1.153	.062	.025 - .042
1.124	.607	.100 - .120	1.125	.515	.040 - .050	1.126	.677	.015 - .025	1.134	.545	.015 - .030	1.143	.314	.062 - .080	1.153	.626	.010 - .032
1.124	.627	.005 - .010	1.125	.516	.020 - .040	1.126	.728	.030 - .050	1.134	.555	.010 - .020	1.143	.375	.060 - .075	1.153	.731	.100 - .125
1.124	.629	.080 - .100	1.125	.523	.020 - .040	1.126	.755	.040 - .060	1.134	.791	.050 - .070	1.143	.376	.020 - .035	1.153	.843	.015 - .030
1.124	.632	.060 - .080	1.125	.525	.120 - .135	1.126	.781	.010 - .020	1.134	.904	.040 - .060	1.143	.504	.005 - .020	1.154	.159	.030 - .060
1.124	.634	.135 - .156	1.125	.530	.006 - .012	1.126	.851	.005 - .125	1.135	.201	.050 - .060	1.143	.651	.140 - .160	1.154	.375	.100 - .125
1.124	.639	.030 - .050	1.125	.532	.156 - .187	1.126	.880	.005 - .010	1.135	.375	.010 - .020	1.143	.739	.005 - .010	1.154	.387	.005 - .008
1.124	.663	.015 - .030	1.125	.535	.020 - .040	1.126	.938	.015 - .025	1.135	.376	.015 - .030	1.143	.812	.100 - .120	1.154	.499	.050 - .075
1.124	.687	.040 - .060	1.125	.546	.060 - .080	1.126	.990	.005 - .010	1.135	.483	.005 - .050	1.143	.848	.015 - .040	1.154	.584	.030 - .060
1.124	.693	.005 - .010	1.125	.563	.005 - .010	1.127	.063	.020 - .035	1.135	.507	.090 - .120	1.143	.952	.050 - .070	1.154	.609	.005 - .010
1.124	.704	.025 - .040	1.125	.564	.080 - .104	1.127	.125	.020 - .040	1.135	.770	.020 - .040	1.145	.210	.005 - .010	1.154	.710	.005 - .010
1.124	.750	.005 - .010	1.125	.566	.005 - .010	1.127	.159	.025 - .042	1.135	.775	.040 - .060	1.145	.355	.135 - .156	1.154	.787	.090 - .100
1.124	.753	.110 - .130	1.125	.570	.060 - .080	1.127	.237	.025 - .042	1.135	.812	.100 - .125	1.145	.856	.005 - .010	1.154	.803	.030 - .050
1.124	.755	.110 - .130	1.125	.571	.100 - .125	1.127	.253	.075 - .090	1.136	.946	.030 - .050	1.145	.896	.030 - .060	1.154	.856	.025 - .040
1.124	.789	.015 - .030	1.125	.573	.100 - .125	1.127	.267	.048 - .062	1.136	.961	.060 - .075	1.145	1.006	.030 - .050	1.154	.875	.010 - .020
1.124	.794	.020 - .030	1.125	.590	.100 - .125	1.127	.375	.020 - .030	1.137	.253	.125 - .135	1.146	.289	.015 - .030	1.154	.877	.005 - .010
1.124	.860	.104 - .125	1.125	.594	.050 - .075	1.127	.410	.100 - .125	1.137	.693	.005 - .010	1.146	1.000	.005 - .010	1.154	.921	.020 - .040
1.124	.870	.020 - .030	1.125	.609	.040 - .060	1.127	.438	.005 - .010	1.137	.814	.040 - .060	1.146	1.010	.005 - .020	1.154	1.033	.005 - .010
1.124	.879	.005 - .010	1.125	.625	.005 - .010	1.127	.507	.005 - .010	1.137	.907	.030 - .050	1.146	1.035	.010 - .020	1.155	.250	.040 - .060
1.124	.891	.030 - .060	1.125	.626	.020 - .105	1.127	.521	.025 - .042	1.137	.953	.030 - .050	1.147	.316	.050 - .070	1.155	.266	.050 - .075
1.124	.905	.005 - .010	1.125	.628	.090 - .125	1.127	.531	.060 - .083	1.138	.126	.025 - .040	1.147	.775	.070 - .090	1.155	.437	.050 - .075
1.124	.914	.060 - .080	1.125	.630	.020 - .040	1.127	.626	.005 - .080	1.138	.568	.070 - .090	1.148	.221	.070 - .090	1.155	.501	.075 - .090
1.124	.916	.005 - .010	1.125	.632	.090 - .105	1.127	.643	.015 - .025	1.138	.570	.025 - .040	1.148	.251	.105 - .135	1.155	.510	.030 - .040
1.124	.961	.040 - .060	1.125	.638	.010 - .020	1.127	.695	.012 - .018	1.138	.692	.156 - .190	1.148	.630	.020 - .030	1.155	.567	.020 - .040
1.124	.967	.005 - .010	1.125	.640	.156 - .187	1.127	.773	.075 - .090	1.138	.738	.025 - .050	1.148	.809	.005 - .010	1.155	.594	.080 - .105

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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
1.155	.766	.020	.030	1.168	.229	.020	.040	1.174	.891	.060	.080	1.179	1.041	.020	.040	1.181	.885	.040	.050	1.186	.781	.005	.010
1.155	.775	.030	.050	1.168	.458	.005	.010	1.174	.921	.020	.040	1.180	.140	.016	.032	1.181	.891	.060	.070	1.186	.826	.010	.020
1.155	.823	.010	.020	1.168	.600	.135	.156	1.174	.963	.015	.030	1.180	.156	.060	.080	1.181	.943	.030	.080	1.186	.852	.050	.070
1.155	.967	.025	.042	1.168	.697	.025	.040	1.175	.054	.020	.040	1.180	.238	.005	.010	1.181	.945	.010	.025	1.186	.975	.010	.030
1.156	.125	.005	.010	1.168	.704	.135	.156	1.175	.063	.020	.032	1.180	.239	.105	.125	1.181	.950	.005	.010	1.186	1.015	.025	.040
1.156	.188	.100	.125	1.168	.750	.005	.010	1.175	.260	.090	.125	1.180	.251	.156	.187	1.181	.965	.012	.040	1.186	1.016	.030	.050
1.156	.379	.040	.060	1.168	.843	.005	.010	1.175	.438	.015	.030	1.180	.315	.025	.040	1.181	1.000	.010	.030	1.186	1.063	.015	.030
1.156	.532	.025	.040	1.168	.922	.005	.010	1.175	.514	.020	.035	1.180	.317	.090	.110	1.181	1.020	.005	.010	1.187	.142	.005	.030
1.156	.562	.010	.020	1.168	.985	.005	.020	1.175	.625	.010	.020	1.180	.319	.005	.010	1.182	.315	.005	.010	1.187	.156	.050	.062
1.156	.565	.100	.130	1.168	.996	.005	.015	1.175	.715	.010	.020	1.180	.331	.140	.160	1.182	.316	.010	.020	1.187	.212	.040	.062
1.156	.582	.050	.075	1.168	1.000	.005	.010	1.175	.716	.005	.010	1.180	.354	.010	.020	1.182	.317	.005	.020	1.187	.283	.080	.104
1.156	.765	.105	.135	1.169	.126	.010	.025	1.175	.726	.005	.010	1.180	.357	.150	.170	1.182	.395	.010	.020	1.187	.313	.010	.025
1.156	.794	.040	.062	1.169	.390	.060	.083	1.175	.750	.005	.010	1.180	.383	.048	.075	1.182	.398	.005	.010	1.187	.374	.042	.062
1.156	.812	.005	.012	1.169	.410	.070	.090	1.175	.814	.020	.040	1.180	.398	.005	.020	1.182	.429	.060	.070	1.187	.378	.005	.010
1.156	.893	.005	.020	1.169	.419	.090	.125	1.175	.840	.005	.010	1.180	.409	.005	.010	1.182	.506	.005	.020	1.187	.390	.134	.187
1.156	.906	.025	.040	1.169	.691	.090	.110	1.175	.868	.005	.010	1.180	.438	.050	.070	1.182	.550	.050	.060	1.187	.404	.020	.040
1.156	.911	.020	.040	1.169	.698	.030	.050	1.175	.905	.030	.050	1.180	.472	.005	.010	1.182	.558	.080	.100	1.187	.477	.100	.125
1.156	.966	.005	.010	1.169	.878	.080	.100	1.175	.910	.005	.010	1.180	.474	.005	.010	1.182	.561	.030	.050	1.187	.512	.060	.080
1.156	.968	.010	.030	1.169	.880	.040	.060	1.175	.925	.020	.030	1.180	.475	.005	.010	1.182	.635	.100	.125	1.187	.516	.065	.080
1.157	.378	.050	.070	1.169	.883	.005	.010	1.175	.947	.015	.030	1.180	.476	.025	.040	1.182	.714	.048	.062	1.187	.519	.010	.020
1.157	.570	.020	.040	1.169	.995	.005	.010	1.175	.985	.080	.100	1.180	.485	.010	.020	1.182	.750	.090	.120	1.187	.550	.025	.040
1.157	.748	.015	.030	1.169	1.119	.010	.020	1.175	.999	.015	.020	1.180	.499	.015	.025	1.182	.752	.100	.125	1.187	.594	.080	.100
1.157	.785	.020	.030	1.170	.224	.005	.010	1.175	1.031	.005	.010	1.180	.512	.005	.010	1.182	.753	.005	.010	1.187	.625	.030	.050
1.158	.237	.020	.040	1.170	.256	.020	.030	1.175	1.112	.010	.020	1.180	.521	.070	.090	1.182	.801	.010	.020	1.187	.632	.006	.020
1.158	.408	.010	.030	1.170	.378	.005	.020	1.176	.127	.025	.040	1.180	.540	.015	.025	1.182	.867	.010	.020	1.187	.636	.115	.135
1.158	.476	.005	.010	1.170	.440	.090	.105	1.176	.371	.040	.060	1.180	.563	.010	.020	1.182	.879	.060	.080	1.187	.640	.040	.060
1.158	.504	.005	.010	1.170	.524	.005	.010	1.176	.439	.005	.010	1.180	.635	.040	.060	1.182	.906	.005	.010	1.187	.656	.048	.062
1.158	.505	.010	.020	1.170	.611	.020	.040	1.176	.443	.005	.020	1.180	.638	.005	.010	1.182	.960	.005	.010	1.187	.674	.090	.120
1.158	.588	.020	.030	1.170	.675	.032	.050	1.176	.500	.070	.090	1.180	.671	.150	.170	1.182	.993	.005	.010	1.187	.686	.060	.075
1.158	.971	.050	.060	1.170	.710	.005	.010	1.176	.506	.005	.010	1.180	.694	.080	.104	1.183	.405	.010	.020	1.187	.687	.050	.083
1.158	1.052	.015	.030	1.170	.758	.050	.070	1.176	.589	.020	.030	1.180	.714	.120	.135	1.183	.771	.060	.080	1.187	.688	.060	.080
1.159	.298	.025	.040	1.170	.793	.030	.050	1.176	.625	.040	.105	1.180	.747	.030	.050	1.183	.807	.006	.015	1.187	.753	.050	.060
1.159	.393	.015	.030	1.170	.815	.005	.010	1.176	.682	.005	.010	1.180	.773	.015	.030	1.183	.810	.105	.125	1.187	.755	.020	.040
1.159	.687	.020	.040	1.170	.860	.020	.040	1.176	.756	.030	.050	1.180	.787	.010	.020	1.183	.933	.070	.090	1.187	.757	.100	.125
1.159	.901	.005	.010	1.170	.870	.010	.020	1.177	.271	.005	.015	1.180	.788	.090	.105	1.183	1.000	.040	.060	1.187	.765	.025	.083
1.159	1.008	.015	.025	1.170	.880	.030	.050	1.177	.445	.005	.030	1.180	.789	.010	.050	1.184	.127	.060	.083	1.187	.812	.062	.083
1.160	.130	.025	.035	1.170	.919	.025	.040	1.177	.525	.010	.020	1.180	.793	.105	.125	1.184	.325	.050	.060	1.187	.823	.032	.120
1.160	.269	.035	.050	1.170	.920	.005	.010	1.177	.759	.050	.070	1.180	.808	.020	.040	1.184	.585	.010	.020	1.187	.825	.005	.010
1.160	.655	.100	.125	1.170	.936	.010	.025	1.177	.782	.005	.010	1.180	.890	.010	.020	1.184	.626	.050	.074	1.187	.874	.010	.020
1.160	.710	.030	.050	1.170	.985	.040	.062	1.177	.790	.030	.050	1.180	.895	.005	.010	1.184	.635	.062	.083	1.187	.880	.010	.020
1.160	.750	.042	.062	1.170	1.000	.020	.032	1.177	.823	.093	.125	1.180	.903	.005	.010	1.184	.730	.025	.040	1.187	.881	.005	.010
1.160	.752	.030	.048	1.170	1.002	.005	.020	1.177	.865	.062	.090	1.180	.947	.010	.020	1.184	.753	.005	.010	1.187	.882	.010	.025
1.160	.759	.030	.050	1.171	.259	.010	.015	1.177	.875	.025	.040	1.180	.981	.005	.010	1.184	.807	.005	.010	1.187	.944	.005	.010
1.160	.800	.050	.062	1.171	.659	.025	.040	1.177	.878	.105	.135	1.180	.995	.005	.040	1.184	.995	.005	.010	1.187	.954	.005	.010
1.160	.829	.060	.080	1.171	.778	.040	.060	1.177	.883	.105	.120	1.180	1.015	.040	.060	1.184	1.073	.005	.010	1.187	1.017	.005	.012
1.160	.889	.025	.040	1.171	.853	.050	.070	1.177	.893	.005	.010	1.180	1.029	.005	.010	1.185	.089	.060	.090	1.187	1.025	.050	.060
1.160	.942	.050	.075	1.171	.965	.070	.090	1.177	.911	.050	.070	1.181	.239	.005	.010	1.185	.252	.040	.060	1.187	1.029	.005	.010
1.160	.955	.030	.060	1.171	1.005	.060	.080	1.177	.954	.060	.080	1.181	.252	.005	.010	1.185	.313	.100	.125	1.187	1.031	.005	.010
1.160	.989	.032	.050	1.171	1.050	.005	.010	1.177	.989	.070	.090	1.181	.265	.030	.050	1.185	.315	.050	.075	1.188	.094	.020	.030
1.161	.408	.005	.030	1.171	1.105	.005	.010	1.177	.990	.025	.040	1.181	.326	.005	.010	1.185	.328	.100	.125	1.188	.128	.020	.035
1.161	.753	.060	.080	1.172	.190	.040	.060	1.177	.992	.005	.010	1.181	.335	.060	.078	1.185	.365	.075	.125	1.188	.195	.040	.062
1.161	.770	.010	.020	1.172	.356	.090	.110	1.177	1.000	.005	.010	1.181	.379	.005	.010	1.185	.375	.100	.125	1.188	.240	.050	.070
1.161	.794	.080	.100	1.172	.473	.120	.135	1.178	.380	.090	.125	1.181	.394	.015	.030	1.185	.435	.100	.125	1.188	.254	.050	.070
1.161	.922	.040	.060	1.172	.523	.005	.010	1.178	.395	.100	.125	1.181	.395	.005	.060	1.185	.437	.060	.080	1.188	.310	.050	.070
1.162	.443	.070	.090	1.172	.600	.050	.187	1.178	.442	.060	.080	1.181	.396	.080	.100	1.185	.568	.005	.010	1.188	.312	.005	.010
1.162	.600	.075	.100	1.172	.628	.040	.060	1.178	.631	.005	.020	1.181	.414	.090	.105	1.185	.609	.030	.040	1.188	.326	.062	.083
1.162	.906	.060	.080	1.172	.632	.030	.040	1.178	.636	.005	.010	1.181	.472	.010	.020	1.185	.645	.010	.040	1.188	.439	.060	.080
1.162	.955	.040	.060	1.172	.694	.050	.075	1.178	.663	.090	.110	1.181	.473	.005	.010	1.185	.700	.005	.015	1.188	.508	.020	.040
1.163	.408	.010	.020	1.172	.800	.010	.020	1.178	.709	.005	.010	1.181	.474	.005	.010	1.185	.709	.100	.125	1.188	.515	.040	.060
1.163	.419	.135	.156	1.172	.816	.050	.075	1.178	.753	.015	.030	1.181	.477	.005	.010	1.185	.753	.005	.010	1.188	.530	.048	.075
1.163	.480	.040	.060	1.172	.819	.005	.010	1.178	1.041	.020	.040	1.181	.482	.030	.060	1.185	.755	.030	.050	1.188	.563	.005	.075
1.163	.800	.030	.042	1.172	.897	.030	.050	1.179	.170	.010	.020	1.181	.512	.105	.125	1.185	.768	.005	.010	1.188	.621	.080	.100
1.163	.846	.040	.060	1.172	.917	.080	.090	1.179	.381	.170	.190	1.181	.518	.135	.156	1.185	.783	.050	.125	1.188	.623	.040	.060
1.163	1.010	.010	.020	1.172	.958	.050	.062	1.179	.473	.010	.020	1.181	.531	.010	.020	1.185	.875	.050	.083	1.188	.626	.105	.125
1.164	.351	.005	.010	1.172	1.000	.050	.075	1.179	.502	.005	.010	1.181	.552	.105	.125	1.185	.880	.012	.025	1.188	.656	.025	.040
1.164	.787	.083	.120	1.173	.063	.015	.025	1.179	.569	.030	.060	1.181	.560	.100	.125	1.185	.908	.005	.020	1.188	.688	.040	.060
1.164	.801	.060	.080	1.173	.412	.130	.150	1.179	.632	.010	.020	1.181	.577	.070	.090	1.185	.940	.030	.062	1.188	.720	.030	.050
1.164	.802	.040	.060	1.173	.413	.156	.190	1.179	.641	.050	.070	1.181	.607	.005	.015	1.185	.973	.005	.010	1.188	.759	.156	.187
1.164	.946	.031	.048	1.173	.600	.090	.105	1.179	.648	.015	.030	1.181	.627	.020	.040	1.185	.990	.080	.104	1.188	.763	.005	.105
1.165	.315	.070	.090	1.173	.710	.005	.010	1.179	.687	.030	.060	1.181	.628	.025	.083	1.185	1.024	.040	.060	1.188	.765	.070	.090
1.165	.735	.010	.020	1.173	.722	.005	.010	1.179	.721	.060	.080	1.181	.640	.090	.125	1.185	1.048	.005	.010	1.188	.799	.050	.070
1.165	.781	.070	.090	1.173	.804	.030	.050	1.179	.829	.030	.060	1.181	.649	.160	.190	1.185	1.067	.015	.030	1.188	.880	.005	.160
1.165	1.010	.005	.015	1.173	.851	.025	.040	1.179	.874	.005	.010	1.181	.669	.070	.090	1.186	.189	.105	.125	1.188	.920	.010	.020
1.165	1.065	.005	.010	1.173	.891	.020	.030	1.179	.875	.005	.010	1.181	.696	.010	.020	1.186	.378	.156	.190	1.188	.922	.040	.060
1.165	1.100	.005	.010	1.173	.940	.070	.090	1.179	.911	.040	.062	1.181	.708	.005	.010	1.186	.437	.010	.100	1.188	.940	.005	.010
1.165	1.122	.005	.010	1.173	.998	.020	.030	1.179	.914	.035	.050	1.181	.787	.135	.160	1.186	.506	.060	.090	1.188	1.000	.062	.089
1.166	.689	.010	.020	1.174	.207	.100	.125	1.179	.931	.040	.060	1.181	.801	.005	.010	1.186	.559	.090	.125	1.188	1.001	.005	.010
1.166	.957	.025	.035	1.174	.261	.125	.156	1.179	.936	.040	.060	1.181	.802	.025	.040	1.186	.685	.020	.040	1.188	1.010	.015	.025
1.167	.990	.060	.080	1.174	.419	.090	.105	1.179	.996	.040	.060	1.181	.829	.025	.040	1.186	.710	.020	.040	1.188	1.038	.025	.040
1.168	.194	.020	.030	1.174	.876	.030	.050	1.179	1.015	.025	.040	1.181	.877	.040	.060	1.186	.740	.040	.060	1.189	.140	.015	.030

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

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

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To
1.189	.309	.025 - .040
1.189	.346	.030 - .050
1.189	.380	.110 - .130
1.189	.627	.160 - .190
1.189	.751	.040 - .060
1.189	.798	.005 - .010
1.189	.828	.005 - .010
1.189	.999	.010 - .020
1.189	1.032	.005 - .010
1.190	.128	.030 - .050
1.190	.250	.100 - .125
1.190	.265	.062 - .090
1.190	.317	.100 - .125
1.190	.392	.090 - .110
1.190	.410	.010 - .020
1.190	.500	.032 - .050
1.190	.531	.050 - .070
1.190	.543	.060 - .080
1.190	.564	.020 - .035
1.190	.626	.025 - .070
1.190	.656	.110 - .120
1.190	.738	.050 - .070
1.190	.752	.042 - .060
1.190	.753	.015 - .040
1.190	.787	.080 - .104
1.190	.817	.048 - .062
1.190	.830	.040 - .125
1.190	.881	.025 - .040
1.190	.890	.050 - .060
1.190	.918	.010 - .020
1.190	1.000	.030 - .040
1.190	1.125	.005 - .010
1.191	.459	.010 - .020
1.191	.460	.020 - .040
1.191	.560	.170 - .190
1.191	.646	.005 - .010
1.191	.731	.030 - .050
1.191	.882	.005 - .010
1.191	.900	.070 - .090
1.191	.934	.050 - .075
1.192	.739	.030 - .050
1.192	.778	.040 - .060
1.192	1.004	.015 - .025
1.192	1.014	.020 - .040
1.193	.159	.005 - .010
1.193	.282	.050 - .060
1.193	.445	.060 - .078
1.193	.640	.040 - .060
1.193	.940	.060 - .080
1.193	1.003	.010 - .020
1.194	.760	.050 - .070
1.194	.932	.030 - .050
1.194	1.002	.050 - .070
1.194	1.012	.005 - .010
1.194	1.014	.060 - .080
1.194	1.072	.005 - .010
1.194	1.073	.005 - .010
1.195	.057	.005 - .010
1.195	.312	.005 - .010
1.195	.379	.040 - .050
1.195	.575	.120 - .135
1.195	.641	.040 - .060
1.195	.692	.008 - .020
1.195	.730	.030 - .050
1.195	.795	.050 - .070
1.195	.865	.015 - .030
1.195	.872	.005 - .010
1.195	.912	.010 - .020
1.195	.915	.005 - .010
1.195	.964	.032 - .048
1.195	.980	.005 - .015
1.195	.983	.010 - .020
1.195	1.007	.060 - .080
1.195	1.026	.010 - .030
1.195	1.116	.010 - .020
1.195	1.120	.015 - .030
1.196	.081	.005 - .010
1.196	.264	.025 - .042
1.196	.378	.005 - .010
1.196	.859	.040 - .060
1.196	1.013	.005 - .010
1.196	1.020	.020 - .030
1.197	.362	.005 - .010
1.197	.376	.005 - .010
1.197	.500	.030 - .050
1.197	.570	.005 - .010
1.197	.637	.005 - .010
1.197	.880	.005 - .010
1.197	1.120	.020 - .035
1.198	.398	.105 - .125
1.198	.441	.010 - .020
1.198	.500	.005 - .010
1.198	.522	.005 - .010
1.198	.552	.025 - .040
1.198	.632	.030 - .050
1.198	.640	.070 - .090
1.198	.875	.025 - .042
1.198	.890	.025 - .040
1.198	1.053	.010 - .030
1.198	1.068	.020 - .040
1.199	.187	.020 - .040
1.199	.379	.020 - .040
1.199	.503	.005 - .010
1.199	.510	.005 - .010
1.199	.550	.005 - .010
1.199	.562	.015 - .030
1.199	.679	.005 - .010
1.199	.735	.050 - .070
1.199	.737	.020 - .040
1.199	.830	.040 - .060
1.199	.985	.020 - .030
1.199	1.012	.015 - .030
1.199	1.050	.040 - .060
1.199	1.053	.005 - .010
1.200	.086	.010 - .020
1.200	.138	.050 - .070
1.200	.168	.030 - .050
1.200	.186	.020 - .040
1.200	.213	.040 - .060
1.200	.220	.005 - .010
1.200	.250	.080 - .100
1.200	.314	.005 - .020
1.200	.327	.010 - .020
1.200	.350	.005 - .010
1.200	.376	.005 - .020
1.200	.377	.100 - .125
1.200	.378	.005 - .125
1.200	.383	.090 - .125
1.200	.408	.050 - .070
1.200	.440	.005 - .020
1.200	.444	.010 - .020
1.200	.500	.005 - .020
1.200	.501	.005 - .020
1.200	.502	.005 - .020
1.200	.503	.005 - .020
1.200	.504	.005 - .030
1.200	.520	.050 - .070
1.200	.562	.005 - .020
1.200	.600	.105 - .125
1.200	.626	.005 - .020
1.200	.629	.010 - .020
1.200	.642	.015 - .030
1.200	.650	.025 - .042
1.200	.751	.030 - .050
1.200	.755	.010 - .020
1.200	.760	.020 - .040
1.200	.761	.120 - .135
1.200	.786	.080 - .090
1.200	.796	.005 - .010
1.200	.817	.080 - .105
1.200	.829	.005 - .010
1.200	.865	.135 - .156
1.200	.900	.030 - .050
1.200	.935	.005 - .010
1.200	.952	.030 - .040
1.200	.990	.005 - .020
1.200	1.000	.005 - .060
1.200	1.013	.015 - .030
1.200	1.048	.005 - .010
1.200	1.050	.025 - .040
1.200	1.057	.010 - .020
1.200	1.063	.005 - .010
1.200	1.073	.005 - .010
1.200	1.074	.015 - .025
1.200	1.144	.010 - .020
1.201	.255	.005 - .010
1.201	.314	.030 - .050
1.201	.395	.005 - .030
1.201	.562	.020 - .030
1.201	.721	.050 - .070
1.201	.755	.005 - .010
1.201	.760	.050 - .070
1.201	.763	.050 - .075
1.201	.774	.025 - .040
1.201	.800	.015 - .030
1.201	1.003	.010 - .020
1.201	1.050	.050 - .062
1.202	.439	.040 - .060
1.202	.793	.015 - .030
1.202	.937	.025 - .040
1.202	.996	.025 - .040
1.202	1.057	.010 - .020
1.202	1.065	.010 - .020
1.203	.138	.020 - .040
1.203	.353	.060 - .080
1.203	.439	.050 - .075
1.203	.502	.100 - .125
1.203	.627	.005 - .010
1.203	.793	.015 - .030
1.203	.822	.015 - .025
1.203	.961	.015 - .030
1.203	1.004	.030 - .050
1.204	.757	.005 - .015
1.204	1.030	.005 - .010
1.205	.508	.040 - .060
1.205	.870	.005 - .090
1.205	.922	.015 - .030
1.206	.920	.025 - .040
1.206	1.072	.005 - .010
1.207	.258	.050 - .070
1.207	.381	.160 - .190
1.207	.707	.005 - .010
1.207	.974	.050 - .070
1.208	.259	.005 - .010
1.208	.390	.010 - .050
1.209	.893	.020 - .030
1.210	.312	.015 - .030
1.210	.383	.050 - .075
1.210	.674	.050 - .062
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	.997	.015 - .030
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	.569	.050 - .070
1.214	.860	.030 - .050
1.214	.879	.015 - .025
1.214	1.144	.010 - .020
1.215	.260	.040 - .060
1.215	.410	.010 - .020
1.215	.474	.005 - .010
1.215	.753	.030 - .050
1.215	.875	.062 - .090
1.215	.906	.010 - .020
1.216	.377	.060 - .083
1.216	1.000	.005 - .010
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	1.000	.005 - .030
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	.642	.005 - .010
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	.258	.050 - .070
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	.564	.010 - .020
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	.809	.050 - .070
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
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	.985	.074 - .090
1.221	.986	.020 - .040
1.221	1.094	.010 - .020
1.221	1.098	.035 - .050
1.222	.194	.020 - .040
1.222	.691	.020 - .040
1.222	.835	.020 - .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	.386	.060 - .078
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	1.001	.005 - .025
1.223	1.013	.020 - .040
1.223	1.069	.010 - .020
1.223	1.085	.005 - .010
1.224	.754	.070 - .090
1.224	1.020	.020 - .040
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	.562	.110 - .130
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	1.005	.030 - .050
1.230	1.053	.020 - .040
1.230	1.080	.005 - .010
1.231	.625	.060 - .080
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	.751	.005 - .010
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	.279	.005 - .010
1.234	.392	.134 - .156
1.234	.505	.070 - .090
1.234	.849	.020 - .040
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
1.235	1.007	.020 - .040
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 - .020
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	.581	.010 - .020
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	.851	.030 - .050
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	.970	.020 - .030
1.241	.994	.020 - .030
1.241	1.063	.020 - .035
1.241	1.110	.050 - .070
1.242	.436	.020 - .030
1.242	.452	.020 - .030
1.242	.535	.090 - .100
1.242	.641	.062 - .090
1.242	.879	.042 - .062
1.242	.897	.015 - .030
1.242	.944	.040 - .060
1.242	1.000	.005 - .010
1.242	1.021	.015 - .030
1.243	.220	.035 - .060

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

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
1.243	.405	.030 - .050	1.246	1.035	.075 - .090	1.249	.140	.005 - .050	1.250	.254	.005 - .012	1.250	.662	.105 - .125	1.250	1.036	.080 - .105
1.243	.491	.125 - .156	1.246	1.046	.020 - .040	1.249	.188	.015 - .030	1.250	.255	.005 - .010	1.250	.665	.030 - .040	1.250	1.051	.010 - .020
1.243	.613	.005 - .010	1.246	1.060	.020 - .040	1.249	.203	.005 - .105	1.250	.259	.005 - .010	1.250	.669	.005 - .010	1.250	1.058	.072 - .093
1.243	.614	.005 - .010	1.247	.064	.015 - .030	1.249	.250	.030 - .050	1.250	.260	.040 - .060	1.250	.675	.015 - .030	1.250	1.061	.025 - .040
1.243	.699	.005 - .010	1.247	.125	.040 - .060	1.249	.253	.005 - .010	1.250	.262	.050 - .075	1.250	.680	.105 - .125	1.250	1.067	.030 - .050
1.243	.855	.070 - .090	1.247	.254	.060 - .080	1.249	.318	.170 - .190	1.250	.264	.010 - .020	1.250	.683	.010 - .020	1.250	1.115	.010 - .020
1.243	.965	.090 - .105	1.247	.263	.050 - .075	1.249	.319	.036 - .060	1.250	.266	.120 - .134	1.250	.688	.090 - .125	1.250	1.123	.025 - .040
1.243	1.012	.005 - .010	1.247	.354	.100 - .125	1.249	.320	.105 - .125	1.250	.273	.005 - .010	1.250	.689	.010 - .040	1.250	1.140	.015 - .025
1.243	1.025	.030 - .040	1.247	.378	.005 - .010	1.249	.327	.015 - .030	1.250	.280	.062 - .083	1.250	.690	.005 - .010	1.250	1.145	.020 - .040
1.243	1.037	.015 - .030	1.247	.392	.005 - .010	1.249	.328	.090 - .125	1.250	.283	.060 - .083	1.250	.701	.015 - .105	1.250	1.167	.010 - .025
1.243	1.100	.042 - .060	1.247	.450	.020 - .030	1.249	.380	.105 - .125	1.250	.286	.050 - .075	1.250	.707	.020 - .040	1.250	1.180	.005 - .015
1.244	.150	.015 - .030	1.247	.503	.030 - .050	1.249	.391	.042 - .060	1.250	.295	.025 - .042	1.250	.710	.050 - .070	1.250	1.181	.005 - .015
1.244	.543	.005 - .010	1.247	.572	.030 - .048	1.249	.401	.100 - .125	1.250	.311	.020 - .040	1.250	.711	.005 - .010	1.250	1.187	.005 - .010
1.244	.768	.060 - .125	1.247	.684	.110 - .120	1.249	.427	.020 - .040	1.250	.311	.050 - .062	1.250	.715	.005 - .010	1.251	.131	.050 - .070
1.244	.770	.020 - .083	1.247	.699	.005 - .010	1.249	.444	.036 - .060	1.250	.312	.005 - .010	1.250	.723	.050 - .080	1.251	.132	.070 - .090
1.244	.782	.070 - .090	1.247	.754	.050 - .070	1.249	.450	.005 - .010	1.250	.314	.105 - .125	1.250	.750	.012 - .125	1.251	.187	.005 - .010
1.244	.793	.005 - .010	1.247	.816	.005 - .050	1.249	.455	.005 - .010	1.250	.320	.005 - .010	1.250	.751	.180 - .188	1.251	.215	.010 - .020
1.244	.801	.025 - .040	1.247	.850	.070 - .090	1.249	.495	.005 - .010	1.250	.327	.020 - .030	1.250	.753	.040 - .060	1.251	.257	.070 - .090
1.244	.878	.105 - .135	1.247	.874	.015 - .030	1.249	.510	.070 - .090	1.250	.329	.070 - .090	1.250	.754	.032 - .042	1.251	.312	.090 - .105
1.244	.967	.080 - .100	1.247	.937	.016 - .025	1.249	.516	.030 - .050	1.250	.340	.005 - .010	1.250	.755	.070 - .090	1.251	.330	.156 - .190
1.244	1.000	.025 - .040	1.247	.978	.050 - .070	1.249	.532	.156 - .187	1.250	.341	.020 - .040	1.250	.758	.070 - .125	1.251	.332	.105 - .125
1.244	1.018	.070 - .090	1.247	.992	.062 - .083	1.249	.549	.005 - .010	1.250	.343	.080 - .100	1.250	.762	.005 - .070	1.251	.335	.020 - .040
1.244	1.178	.005 - .010	1.247	1.011	.020 - .030	1.249	.578	.060 - .070	1.250	.354	.005 - .010	1.250	.763	.005 - .010	1.251	.378	.005 - .010
1.245	.205	.005 - .075	1.247	1.034	.035 - .050	1.249	.605	.005 - .010	1.250	.356	.015 - .030	1.250	.764	.040 - .060	1.251	.384	.170 - .190
1.245	.315	.156 - .187	1.248	.145	.050 - .075	1.249	.623	.040 - .060	1.250	.359	.060 - .090	1.250	.765	.104 - .134	1.251	.401	.015 - .030
1.245	.340	.005 - .010	1.248	.147	.030 - .040	1.249	.635	.005 - .010	1.250	.365	.020 - .062	1.250	.770	.040 - .060	1.251	.410	.015 - .031
1.245	.501	.100 - .125	1.248	.178	.100 - .125	1.249	.650	.020 - .030	1.250	.375	.090 - .105	1.250	.771	.030 - .050	1.251	.417	.135 - .160
1.245	.527	.005 - .010	1.248	.202	.050 - .070	1.249	.651	.020 - .040	1.250	.377	.005 - .010	1.250	.781	.050 - .070	1.251	.440	.040 - .060
1.245	.528	.050 - .070	1.248	.219	.040 - .060	1.249	.660	.020 - .040	1.250	.378	.005 - .030	1.250	.783	.050 - .075	1.251	.471	.045 - .060
1.245	.550	.015 - .035	1.248	.255	.005 - .010	1.249	.663	.060 - .080	1.250	.379	.012 - .040	1.250	.784	.050 - .070	1.251	.480	.030 - .050
1.245	.560	.005 - .010	1.248	.262	.005 - .010	1.249	.689	.050 - .075	1.250	.382	.100 - .134	1.250	.785	.005 - .060	1.251	.482	.160 - .190
1.245	.565	.050 - .083	1.248	.263	.050 - .075	1.249	.690	.080 - .100	1.250	.383	.030 - .050	1.250	.789	.105 - .135	1.251	.500	.005 - .010
1.245	.595	.080 - .100	1.248	.325	.030 - .050	1.249	.721	.030 - .050	1.250	.390	.005 - .080	1.250	.791	.010 - .020	1.251	.531	.156 - .187
1.245	.631	.015 - .025	1.248	.333	.050 - .070	1.249	.723	.010 - .020	1.250	.397	.005 - .010	1.250	.795	.007 - .015	1.251	.532	.120 - .135
1.245	.636	.050 - .070	1.248	.344	.042 - .060	1.249	.752	.090 - .110	1.250	.406	.100 - .187	1.250	.796	.110 - .125	1.251	.551	.015 - .030
1.245	.741	.015 - .025	1.248	.354	.100 - .125	1.249	.756	.036 - .060	1.250	.407	.005 - .050	1.250	.798	.015 - .030	1.251	.559	.105 - .125
1.245	.754	.050 - .075	1.248	.375	.005 - .010	1.249	.758	.005 - .010	1.250	.413	.100 - .120	1.250	.803	.080 - .100	1.251	.561	.060 - .120
1.245	.756	.010 - .020	1.248	.377	.020 - .040	1.249	.797	.030 - .050	1.250	.436	.100 - .125	1.250	.808	.010 - .020	1.251	.574	.010 - .020
1.245	.758	.040 - .060	1.248	.378	.042 - .062	1.249	.800	.030 - .050	1.250	.437	.010 - .020	1.250	.812	.010 - .104	1.251	.579	.100 - .125
1.245	.760	.060 - .080	1.248	.451	.005 - .010	1.249	.812	.050 - .070	1.250	.440	.040 - .125	1.250	.814	.005 - .010	1.251	.640	.005 - .010
1.245	.768	.015 - .025	1.248	.453	.005 - .010	1.249	.850	.015 - .030	1.250	.441	.005 - .012	1.250	.828	.020 - .030	1.251	.658	.040 - .062
1.245	.773	.005 - .010	1.248	.455	.090 - .120	1.249	.905	.015 - .030	1.250	.442	.040 - .060	1.250	.829	.090 - .120	1.251	.669	.050 - .070
1.245	.788	.025 - .040	1.248	.471	.005 - .010	1.249	.920	.005 - .010	1.250	.443	.105 - .135	1.250	.839	.120 - .135	1.251	.692	.090 - .110
1.245	.836	.030 - .050	1.248	.500	.135 - .187	1.249	.925	.105 - .125	1.250	.445	.100 - .134	1.250	.843	.005 - .030	1.251	.695	.025 - .040
1.245	.852	.005 - .010	1.248	.505	.005 - .020	1.249	.951	.005 - .010	1.250	.455	.015 - .030	1.250	.844	.010 - .020	1.251	.725	.020 - .040
1.245	.880	.015 - .030	1.248	.508	.105 - .125	1.249	.961	.007 - .015	1.250	.480	.040 - .060	1.250	.845	.020 - .080	1.251	.752	.020 - .030
1.245	.887	.050 - .070	1.248	.510	.005 - .010	1.249	1.001	.030 - .050	1.250	.500	.005 - .062	1.250	.855	.040 - .060	1.251	.755	.015 - .030
1.245	.906	.100 - .120	1.248	.517	.005 - .125	1.249	1.027	.030 - .050	1.250	.501	.070 - .090	1.250	.874	.090 - .105	1.251	.759	.105 - .135
1.245	.921	.030 - .050	1.248	.532	.005 - .010	1.249	1.037	.025 - .040	1.250	.503	.005 - .020	1.250	.875	.120 - .135	1.251	.814	.075 - .100
1.245	.945	.005 - .020	1.248	.535	.005 - .010	1.249	1.100	.075 - .090	1.250	.504	.006 - .015	1.250	.876	.030 - .050	1.251	.834	.005 - .010
1.245	.947	.080 - .104	1.248	.550	.050 - .070	1.249	1.110	.010 - .020	1.250	.505	.005 - .020	1.250	.878	.040 - .060	1.251	.874	.050 - .075
1.245	.948	.070 - .090	1.248	.559	.156 - .187	1.249	1.134	.005 - .010	1.250	.507	.005 - .010	1.250	.879	.050 - .070	1.251	.876	.005 - .010
1.245	.990	.100 - .125	1.248	.627	.010 - .020	1.249	1.156	.015 - .030	1.250	.508	.015 - .062	1.250	.880	.005 - .030	1.251	.879	.005 - .010
1.245	1.010	.020 - .105	1.248	.636	.110 - .130				1.250	.510	.090 - .120	1.250	.882	.090 - .125	1.251	.907	.040 - .062
1.245	1.107	.010 - .020	1.248	.651	.090 - .105				1.250	.512	.135 - .156	1.250	.887	.005 - .010	1.251	.928	.025 - .040
1.245	1.123	.005 - .010	1.248	.656	.005 - .010				1.250	.518	.005 - .010	1.250	.888	.012 - .025	1.251	.942	.090 - .105
1.245	1.126	.005 - .010	1.248	.689	.050 - .070				1.250	.520	.020 - .060	1.250	.889	.060 - .090	1.251	.950	.080 - .100
1.245	1.130	.005 - .010	1.248	.695	.005 - .010				1.250	.531	.135 - .156	1.250	.890	.005 - .090	1.251	.984	.010 - .020
1.245	1.143	.005 - .015	1.248	.723	.005 - .010				1.250	.534	.036 - .090	1.250	.893	.015 - .030	1.251	.999	.005 - .010
1.246	.252	.080 - .104	1.248	.742	.100 - .125				1.250	.540	.005 - .125	1.250	.895	.025 - .070	1.251	1.003	.005 - .010
1.246	.254	.015 - .030	1.248	.749	.050 - .070	1.250	.082	.025 - .040	1.250	.562	.050 - .125	1.250	.901	.050 - .070	1.251	1.005	.090 - .105
1.246	.261	.075 - .090	1.248	.750	.005 - .010	1.250	.125	.050 - .075	1.250	.563	.005 - .030	1.250	.902	.005 - .010	1.251	1.050	.005 - .010
1.246	.384	.050 - .083	1.248	.752	.008 - .015	1.250	.127	.031 - .048	1.250	.564	.104 - .134	1.250	.907	.040 - .060	1.251	1.081	.070 - .090
1.246	.566	.005 - .010	1.248	.760	.025 - .040	1.250	.140	.020 - .125	1.250	.571	.040 - .060	1.250	.937	.100 - .125	1.251	1.082	.020 - .040
1.246	.701	.110 - .130	1.248	.780	.080 - .104	1.250	.148	.008 - .016	1.250	.572	.040 - .050	1.250	.939	.100 - .125	1.251	1.099	.010 - .020
1.246	.741	.015 - .030	1.248	.810	.005 - .010	1.250	.164	.005 - .010	1.250	.580	.135 - .156	1.250	.953	.015 - .083	1.251	1.110	.020 - .030
1.246	.750	.010 - .015	1.248	.811	.040 - .100	1.250	.165	.060 - .083	1.250	.586	.015 - .030	1.250	.962	.015 - .020	1.252	.268	.030 - .050
1.246	.753	.050 - .070	1.248	.813	.040 - .062	1.250	.170	.030 - .060	1.250	.595	.015 - .135	1.250	.986	.090 - .105	1.252	.280	.105 - .135
1.246	.754	.060 - .090	1.248	.877	.005 - .010	1.250	.182	.005 - .010	1.250	.625	.020 - .125	1.250	.990	.030 - .040	1.252	.316	.025 - .070
1.246	.755	.020 - .040	1.248	.878	.005 - .025	1.250	.187	.040 - .083	1.250	.630	.050 - .100	1.250	.995	.060 - .080	1.252	.317	.135 - .156
1.246	.761	.070 - .090	1.248	.909	.010 - .015	1.250	.192	.040 - .062	1.250	.636	.005 - .010	1.250	1.000	.093 - .125	1.252	.319	.050 - .070
1.246	.768	.015 - .030	1.248	.932	.005 - .010	1.250	.193	.030 - .060	1.250	.637	.005 - .010	1.250	1.007	.042 - .062	1.252	.329	.048 - .062
1.246	.769	.040 - .060	1.248	.950	.030 - .050	1.250	.195	.090 - .135	1.250	.640	.030 - .080	1.250	1.010	.010 - .020	1.252	.343	.156 - .190
1.246	.781	.020 - .040	1.248	.984	.010 - .020	1.250	.203	.016 - .125	1.250	.641	.100 - .125	1.250	1.011	.005 - .010	1.252	.376	.005 - .020
1.246	.783	.020 - .040	1.248	1.000	.062 - .083	1.250	.208	.005 - .010	1.250	.646	.005 - .015	1.250	1.012	.050 - .070	1.252	.396	.040 - .060
1.246	.839	.060 - .080	1.248	1.004	.062 - .083	1.250	.213	.010 - .020	1.250	.647	.090 - .125	1.250	1.015	.020 - .040	1.252	.407	.090 - .110
1.246	.880	.005 - .010	1.248	1.020	.005 - .010	1.250	.217	.015 - .030	1.250	.650	.005 - .010	1.250	1.017	.060 - .083	1.252	.408	.025 - .042
1.246	.909	.050 - .075	1.248	1.045	.015 - .030	1.250	.227	.005 - .015	1.250	.656	.070 - .187	1.250	1.020	.100 - .120	1.252	.426	.100 - .125
1.246	.937	.005 - .010	1.248	1.060	.005 - .015	1.250	.250	.020 - .030	1.250	.658	.005 - .010	1.250	1.033	.005 - .010	1.252	.437	.060 - .075
1.246	.952	.050 - .067	1.248	1.145	.040 - .060	1.250	.252	.012 - .125	1.250	.660	.020 - .040	1.250	1.035	.050 - .070	1.252	.442	.125 - .156

1.250

*With BOKER'S precision 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
1.252	.506	.005 - .010
1.252	.585	.030 - .050
1.252	.625	.005 - .010
1.252	.629	.020 - .030
1.252	.630	.105 - .125
1.252	.633	.050 - .075
1.252	.640	.008 - .016
1.252	.725	.060 - .070
1.252	.753	.005 - .010
1.252	.755	.005 - .010
1.252	.765	.005 - .010
1.252	.779	.005 - .015
1.252	.789	.050 - .075
1.252	.790	.050 - .075
1.252	.797	.010 - .020
1.252	.882	.008 - .016
1.252	.932	.100 - .125
1.252	.961	.007 - .040
1.252	.965	.020 - .030
1.252	.998	.008 - .016
1.252	1.002	.016 - .025
1.252	1.004	.025 - .040
1.252	1.015	.100 - .125
1.252	1.020	.032 - .060
1.252	1.030	.020 - .040
1.252	1.037	.050 - .070
1.252	1.040	.005 - .010
1.252	1.092	.010 - .020
1.252	1.107	.005 - .010
1.252	1.122	.005 - .010
1.252	1.125	.010 - .030
1.252	1.127	.005 - .010
1.253	.390	.100 - .120
1.253	.410	.060 - .080
1.253	.573	.030 - .050
1.253	.633	.060 - .080
1.253	.656	.015 - .030
1.253	.766	.156 - .187
1.253	.768	.030 - .050
1.253	.780	.156 - .187
1.253	.782	.008 - .020
1.253	.814	.100 - .120
1.253	.886	.050 - .070
1.253	.914	.020 - .030
1.253	1.000	.025 - .040
1.253	1.025	.030 - .050
1.253	1.110	.010 - .020
1.253	1.123	.005 - .010
1.254	.058	.030 - .050
1.254	.516	.048 - .075
1.254	.542	.010 - .020
1.254	.630	.050 - .070
1.254	.748	.040 - .060
1.254	.765	.050 - .075
1.254	.766	.134 - .156
1.254	.840	.050 - .075
1.254	.990	.005 - .010
1.254	1.069	.020 - .040
1.254	1.083	.030 - .050
1.254	1.130	.015 - .030
1.255	.501	.060 - .080
1.255	.656	.010 - .120
1.255	.664	.090 - .105
1.255	.714	.110 - .125
1.255	.754	.070 - .080
1.255	.756	.020 - .040
1.255	.843	.135 - .187
1.255	.845	.005 - .010
1.255	.872	.030 - .050
1.255	.911	.105 - .125
1.255	.960	.040 - .060
1.255	1.031	.020 - .030
1.255	1.079	.020 - .030
1.256	.139	.050 - .083
1.256	.329	.075 - .100
1.256	.507	.050 - .070
1.256	.519	.100 - .125
1.256	.613	.015 - .030
1.256	.941	.125 - .156
1.256	1.080	.062 - .080
1.257	.605	.005 - .010
1.257	.673	.020 - .030
1.257	.787	.120 - .135
1.257	.933	.030 - .048
1.257	.941	.125 - .156
1.257	.956	.005 - .010
1.257	1.014	.005 - .010
1.257	1.100	.005 - .015
1.257	1.120	.010 - .020
1.257	1.166	.025 - .040
1.258	.380	.005 - .010
1.258	.473	.005 - .010
1.258	.474	.005 - .010
1.258	.478	.005 - .010
1.258	.538	.010 - .020
1.258	.632	.015 - .030
1.258	.643	.005 - .010
1.258	.677	.030 - .050
1.258	.686	.005 - .010
1.258	.722	.030 - .050
1.258	.984	.010 - .015
1.258	1.004	.015 - .030
1.258	1.010	.010 - .020
1.258	1.116	.005 - .010
1.258	1.129	.010 - .015
1.259	.232	.020 - .040
1.259	.239	.005 - .010
1.259	.316	.010 - .030
1.259	.395	.010 - .020
1.259	.425	.156 - .187
1.259	.473	.015 - .030
1.259	.475	.005 - .010
1.259	.501	.005 - .010
1.259	.502	.005 - .010
1.259	.566	.005 - .010
1.259	.633	.090 - .125
1.259	.641	.110 - .135
1.259	.679	.070 - .090
1.259	.748	.005 - .010
1.259	.882	.010 - .020
1.259	.927	.040 - .050
1.259	.991	.005 - .010
1.259	1.020	.025 - .040
1.259	1.024	.015 - .020
1.259	1.114	.005 - .010
1.259	1.181	.030 - .050
1.260	.237	.005 - .010
1.260	.301	.100 - .125
1.260	.319	.005 - .010
1.260	.395	.005 - .010
1.260	.398	.005 - .020
1.260	.415	.020 - .040
1.260	.440	.005 - .010
1.260	.449	.010 - .020
1.260	.474	.005 - .010
1.260	.475	.005 - .010
1.260	.477	.005 - .010
1.260	.501	.005 - .030
1.260	.503	.100 - .125
1.260	.505	.005 - .020
1.260	.512	.080 - .105
1.260	.553	.010 - .020
1.260	.625	.005 - .010
1.260	.630	.005 - .010
1.260	.632	.005 - .010
1.260	.675	.010 - .020
1.260	.682	.060 - .080
1.260	.683	.060 - .080
1.260	.689	.020 - .030
1.260	.750	.062 - .120
1.260	.826	.005 - .010
1.260	.827	.040 - .060
1.260	.984	.025 - .040
1.260	1.002	.080 - .100
1.260	1.050	.015 - .025
1.260	1.055	.010 - .015
1.260	1.080	.040 - .060
1.260	1.100	.040 - .060
1.260	1.130	.010 - .020
1.260	1.135	.010 - .020
1.261	.126	.010 - .012
1.261	.195	.005 - .010
1.261	.217	.105 - .135
1.261	.316	.090 - .125
1.261	.411	.090 - .104
1.261	.411	.130 - .160
1.261	.414	.005 - .010
1.261	.505	.070 - .090
1.261	.509	.105 - .125
1.261	.632	.005 - .010
1.261	1.004	.070 - .090
1.261	1.016	.005 - .010
1.261	1.063	.030 - .042
1.262	.187	.020 - .035
1.262	.295	.020 - .040
1.262	.535	.005 - .010
1.262	.951	.030 - .050
1.263	.882	.105 - .135
1.263	1.075	.090 - .105
1.263	1.085	.010 - .020
1.263	1.089	.025 - .035
1.264	.548	.030 - .050
1.265	.354	.120 - .134
1.265	.376	.060 - .080
1.265	.504	.005 - .010
1.265	.533	.100 - .125
1.265	.866	.080 - .100
1.265	.875	.040 - .060
1.265	.930	.010 - .020
1.265	.990	.100 - .125
1.265	1.000	.060 - .075
1.265	1.206	.005 - .010
1.266	.668	.070 - .090
1.266	.680	.050 - .070
1.266	.761	.005 - .010
1.266	.779	.050 - .075
1.266	.791	.005 - .010
1.266	1.047	.060 - .080
1.267	.624	.016 - .032
1.267	.798	.075 - .100
1.267	1.049	.075 - .090
1.267	1.120	.020 - .040
1.268	.711	.080 - .100
1.268	.918	.080 - .104
1.268	.980	.060 - .080
1.268	1.155	.005 - .010
1.269	.161	.020 - .035
1.269	.668	.060 - .080
1.269	.890	.070 - .080
1.269	.980	.025 - .040
1.269	1.004	.005 - .010
1.270	.166	.050 - .075
1.270	.460	.135 - .156
1.270	.527	.156 - .187
1.270	.651	.020 - .040
1.270	.700	.040 - .060
1.270	.764	.090 - .100
1.270	.793	.100 - .125
1.270	.976	.040 - .060
1.271	.886	.005 - .010
1.271	.940	.006 - .012
1.271	1.005	.025 - .040
1.271	1.080	.020 - .035
1.272	.525	.050 - .070
1.272	.643	.090 - .120
1.272	.800	.040 - .060
1.273	.780	.080 - .105
1.273	.907	.030 - .050
1.273	.920	.020 - .030
1.274	.711	.030 - .050
1.274	.938	.015 - .025
1.274	.969	.080 - .105
1.274	1.125	.005 - .010
1.275	.255	.015 - .030
1.275	.297	.025 - .042
1.275	.313	.060 - .090
1.275	.409	.050 - .070
1.275	.410	.025 - .042
1.275	.411	.025 - .040
1.275	.500	.075 - .090
1.275	.672	.025 - .042
1.275	.797	.025 - .042
1.275	.980	.020 - .040
1.275	1.009	.090 - .110
1.275	1.045	.025 - .042
1.275	1.060	.005 - .008
1.275	1.092	.005 - .010
1.276	.105	.025 - .040
1.276	.821	.050 - .070
1.277	.657	.083 - .105
1.277	.964	.020 - .030
1.277	1.059	.050 - .070
1.278	.250	.005 - .015
1.278	.500	.100 - .125
1.278	.529	.100 - .125
1.278	.571	.005 - .010
1.278	.750	.015 - .030
1.278	.821	.030 - .050
1.278	.924	.005 - .010
1.279	.438	.005 - .010
1.279	.506	.005 - .010
1.279	.633	.050 - .060
1.280	.155	.005 - .015
1.280	.170	.100 - .125
1.280	.221	.070 - .090
1.280	.318	.050 - .062
1.280	.438	.030 - .040
1.280	.505	.010 - .020
1.280	.515	.040 - .070
1.280	.518	.020 - .040
1.280	.530	.015 - .025
1.280	.628	.040 - .060
1.280	.668	.062 - .120
1.280	.677	.030 - .050
1.280	.760	.040 - .060
1.280	.888	.070 - .090
1.280	.893	.005 - .010
1.280	.915	.007 - .012
1.280	1.000	.060 - .090
1.280	1.017	.025 - .040
1.280	1.020	.070 - .090
1.280	1.031	.010 - .020
1.280	1.041	.040 - .050
1.280	1.045	.040 - .060
1.280	1.066	.010 - .060
1.280	1.070	.050 - .070
1.280	1.074	.030 - .050
1.280	1.139	.020 - .040
1.280	1.140	.020 - .040
1.281	.248	.060 - .090
1.281	.264	.010 - .020
1.281	.408	.005 - .030
1.281	.442	.060 - .080
1.281	.530	.015 - .030
1.281	.538	.010 - .020
1.281	.550	.156 - .187
1.281	.608	.020 - .030
1.281	.891	.080 - .100
1.281	.892	.040 - .060
1.281	1.000	.010 - .020
1.281	1.012	.015 - .030
1.282	.103	.005 - .010
1.282	.248	.060 - .075
1.282	.310	.075 - .090
1.282	.408	.005 - .010
1.282	.409	.005 - .010
1.282	.580	.010 - .020
1.282	.625	.005 - .010
1.282	.942	.010 - .020
1.282	1.020	.005 - .010
1.282	1.043	.030 - .050
1.282	1.066	.040 - .060
1.282	1.162	.010 - .020
1.282	1.164	.010 - .020
1.283	.104	.005 - .010
1.283	.375	.020 - .035
1.283	.409	.010 - .020
1.283	.650	.080 - .090
1.283	.671	.015 - .025
1.283	.890	.015 - .030
1.283	.929	.030 - .040
1.283	1.126	.040 - .060
1.283	1.167	.005 - .010
1.284	.192	.050 - .070
1.284	.324	.080 - .104
1.284	.787	.050 - .070
1.284	1.019	.010 - .020
1.284	1.089	.015 - .030
1.284	1.208	.005 - .010
1.285	.409	.120 - .135
1.285	.505	.120 - .135
1.285	.724	.005 - .010
1.285	1.000	.020 - .040
1.285	1.136	.005 - .010
1.286	.251	.060 - .090
1.286	.509	.156 - .187
1.286	.809	.005 - .010
1.286	.811	.090 - .105
1.286	.918	.010 - .020
1.287	.178	.050 - .083
1.287	.251	.060 - .090
1.287	.254	.050 - .062
1.287	.264	.010 - .020
1.287	1.142	.005 - .010
1.288	.614	.050 - .070
1.288	.761	.030 - .050
1.288	.777	.100 - .120
1.288	.969	.005 - .010
1.288	1.023	.015 - .030
1.288	1.111	.020 - .035
1.288	1.113	.075 - .090
1.288	1.128	.040 - .060
1.288	1.150	.015 - .030
1.289	1.113	.075 - .090
1.290	.128	.020 - .030
1.290	.231	.105 - .135
1.290	.264	.005 - .010
1.290	.377	.020 - .030
1.290	.627	.020 - .030
1.290	.760	.030 - .060
1.290	1.000	.050 - .070
1.290	1.146	.050 - .060
1.290	1.204	.005 - .010
1.291	.966	.020 - .040
1.291	1.180	.005 - .010
1.292	1.000	.005 - .010
1.292	1.121	.010 - .020
1.292	1.132	.060 - .080
1.293	.378	.005 - .010
1.293	1.200	.005 - .010
1.293	1.223	.015 - .030
1.294	1.058	.100 - .120
1.294	1.135	.010 - .020
1.295	.377	.010 - .020
1.295	.511	.135 - .156
1.295	.588	.040 - .060
1.295	.881	.010 - .020
1.295	.901	.060 - .080
1.295	1.015	.050 - .075
1.295	1.141	.005 - .010
1.295	1.170	.005 - .010
1.295	1.228	.010 - .020
1.296	1.111	.015 - .030
1.297	.247	.050 - .083
1.297	.571	.015 - .030
1.297	.736	.005 - .010
1.297	.825	.010 - .020
1.297	.845	.050 - .070
1.297	.852	.010 - .020
1.297	.860	.010 - .020
1.297	.945	.062 - .090
1.297	1.058	.090 - .105
1.297	1.150	.020 - .040
1.297	1.169	.020 - .050
1.298	.220	.060 - .080
1.298	.275	.050 - .075
1.298	.395	.010 - .020
1.298	.441	.010 - .020
1.298	.479	.105 - .125
1.298	.496	.030 - .050
1.298	.504	.090 - .110
1.298	.630	.005 - .010
1.298	.640	.005 - .010
1.298	.880	.070 - .090
1.298	.906	.015 - .025
1.299	.140	.020 - .040
1.299	.245	.005 - .010
1.299	.253	.030 - .040
1.299	.385	.005 - .010
1.299	.395	.005 - .020
1.299	.396	.005 - .010
1.299	.471	.030 - .050
1.299	.473	.005 - .010
1.299	.553	.005 - .015
1.299	.626	.010 - .020
1.299	.812	.025 - .040
1.299	.922	.040 - .060
1.299	.958	.050 - .070
1.299	.960	.005 - .010
1.299	1.019	.025 - .042
1.299	1.030	.016 - .025
1.299	1.068	.005 - .010
1.300	.147	.080 - .104
1.300	.298	.020 - .030
1.300	.312	.005 - .010
1.300	.316	.105 - .125
1.300	.318	.005 - .010
1.300	.368	.025 - .040
1.300	.377	.005 - .020
1.300	.378	.005 - .020
1.300	.380	.005 - .020
1.300	.382	.010 - .020
1.300	.383	.020 - .030
1.300	.394	.005 - .020
1.300	.397	.010 - .020
1.300	.437	.005 - .010
1.300	.438	.010 - .020
1.300	.440	.005 - .020
1.300	.444	.010 - .020
1.300	.511	.010 - .020
1.300	.518	.010 - .020
1.300	.558	.010 - .020
1.300	.628	.020 - .035
1.300	.629	.005 - .030
1.300	.630	.050 - .075
1.300	.635	.010 - .020
1.300	.650	.080 - .105
1.300	.677	.030 - .050
1.300	.681	.005 - .010
1.300	.754	.005 - .010
1.300	.755	.010 - .030
1.300	.760	.015 - .030
1.300	.812	.015 - .030
1.300	.830	.005 - .010
1.300	.887	.010 - .020
1.300	.900	.060 - .080
1.300	.905	.005 - .050
1.300	.960	.062 - .083
1.300	.962	.010 - .020
1.300	.963	.020 - .060
1.300	.980	.100 - .125
1.300	.984	.050 - .070
1.300	.988	.005 - .015
1.300	.996	.050 - .070
1.300	1.006	.010 - .020
1.300	1.012	.005 - .015
1.300	1.020	.035 - .050
1.300	1.060	.006 - .016
1.300	1.062	.070 - .090
1.300	1.067	.050 - .060
1.300	1.087	.010 - .020
1.300	1.093	.005 - .010
1.300	1.136	.030 - .040
1.300	1.182	.005 - .010
1.300	1.126	.010 - .020
1.301	.377	.015 - .030
1.301	.504	.005 - .020
1.301	.698	.005 - .010
1.301	.756	.018 - .025
1.301	.820	.040 - .060

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

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
1.301	.901	.080 - .110	1.310	.751	.100 - .120	1.312	1.001	.080 - .105	1.320	.765	.005 - .010	1.330	.910	.025 - .040	1.340	.677	.042 - .072
1.301	.945	.080 - .105	1.310	.753	.105 - .125	1.312	1.008	.050 - .125	1.320	.849	.005 - .010	1.330	.985	.050 - .070	1.340	.726	.105 - .120
1.301	.962	.105 - .125	1.310	.755	.005 - .010	1.312	1.027	.005 - .010	1.320	.867	.005 - .010	1.330	1.100	.030 - .050	1.340	.751	.045 - .060
1.301	1.068	.030 - .050	1.310	.768	.040 - .060	1.312	1.031	.080 - .105	1.320	.880	.005 - .010	1.331	.635	.070 - .090	1.340	.766	.042 - .062
1.302	.441	.100 - .125	1.310	.770	.005 - .010	1.312	1.190	.015 - .025	1.320	.931	.020 - .035	1.331	.776	.050 - .070	1.340	1.000	.105 - .125
1.302	.477	.050 - .070	1.310	.772	.020 - .040	1.312	1.251	.105 - .125	1.320	1.000	.090 - .125	1.331	.910	.005 - .010	1.340	1.004	.042 - .060
1.302	.628	.100 - .125	1.310	.812	.030 - .042	1.313	.268	.035 - .050	1.320	1.024	.015 - .030	1.331	1.123	.005 - .010	1.340	1.034	.005 - .010
1.302	.774	.060 - .090	1.310	.868	.156 - .187	1.313	.375	.100 - .125	1.320	1.130	.040 - .050	1.331	1.128	.010 - .020	1.340	1.104	.070 - .080
1.302	.787	.100 - .125	1.310	.878	.015 - .030	1.313	.456	.005 - .010	1.321	.780	.050 - .070	1.332	.770	.125 - .156	1.340	1.118	.050 - .083
1.302	.788	.005 - .010	1.310	.944	.005 - .010	1.313	.563	.005 - .030	1.321	.804	.005 - .010	1.333	.397	.040 - .060	1.340	1.143	.005 - .020
1.302	1.007	.012 - .020	1.310	1.006	.005 - .010	1.313	.635	.090 - .100	1.322	.758	.080 - .104	1.333	.950	.005 - .010	1.341	.479	.005 - .010
1.302	1.200	.005 - .010	1.310	1.049	.005 - .010	1.313	.657	.050 - .075	1.322	1.175	.040 - .060	1.334	.239	.015 - .030	1.341	.537	.105 - .135
1.303	.194	.005 - .010	1.310	1.130	.005 - .015	1.313	.660	.090 - .125	1.323	.212	.005 - .010	1.334	.325	.005 - .010	1.341	.871	.010 - .020
1.303	.504	.005 - .010	1.310	1.250	.010 - .020	1.313	.687	.105 - .125	1.323	.244	.020 - .040	1.334	.771	.010 - .020	1.341	.893	.040 - .060
1.303	.734	.020 - .030	1.311	.189	.040 - .060	1.313	.751	.025 - .040	1.323	.351	.005 - .015	1.334	.886	.105 - .125	1.342	.380	.120 - .156
1.303	.787	.070 - .090	1.311	.202	.020 - .040	1.313	.759	.080 - .100	1.323	.394	.015 - .030	1.334	.906	.060 - .075	1.342	.457	.100 - .125
1.303	.899	.040 - .060	1.311	.261	.020 - .040	1.313	.874	.020 - .040	1.323	.551	.050 - .070	1.335	.380	.020 - .035	1.342	.876	.125 - .156
1.304	.250	.040 - .050	1.311	.335	.080 - .100	1.313	.951	.070 - .090	1.323	.640	.060 - .075	1.335	.632	.035 - .060	1.342	.922	.040 - .060
1.304	.470	.075 - .125	1.311	.380	.030 - .050	1.313	1.015	.060 - .083	1.323	.666	.100 - .125	1.335	.650	.050 - .070	1.342	1.015	.005 - .010
1.304	.504	.090 - .120	1.311	.389	.025 - .040	1.313	1.063	.040 - .060	1.323	1.001	.015 - .030	1.335	.906	.020 - .030	1.343	.630	.025 - .040
1.304	1.189	.005 - .016	1.311	.500	.025 - .040	1.313	1.118	.015 - .035	1.323	1.063	.050 - .070	1.335	1.106	.062 - .080	1.343	.871	.050 - .075
1.305	.080	.005 - .008	1.311	.573	.005 - .010	1.313	1.148	.020 - .030	1.323	1.194	.020 - .040	1.335	1.131	.050 - .075	1.343	.907	.042 - .062
1.305	.255	.040 - .050	1.311	.593	.075 - .090	1.313	1.164	.025 - .040	1.324	.320	.010 - .020	1.335	1.134	.005 - .010	1.343	1.100	.080 - .105
1.305	.514	.100 - .120	1.311	.635	.005 - .010	1.314	.268	.030 - .060	1.324	.529	.105 - .135	1.335	1.146	.005 - .010	1.343	1.126	.030 - .050
1.305	.705	.062 - .120	1.311	.655	.090 - .110	1.314	.341	.060 - .080	1.324	.687	.005 - .030	1.336	1.004	.005 - .010	1.343	1.150	.072 - .090
1.305	.734	.020 - .030	1.311	.676	.005 - .010	1.314	.392	.040 - .060	1.324	.808	.105 - .125	1.336	1.006	.030 - .050	1.343	1.261	.020 - .040
1.305	.803	.040 - .060	1.311	.688	.156 - .187	1.314	.439	.050 - .075	1.324	1.001	.020 - .040	1.336	1.038	.080 - .100	1.344	.258	.100 - .135
1.305	.825	.040 - .060	1.311	.858	.005 - .010	1.314	.441	.105 - .135	1.325	.125	.010 - .020	1.336	1.131	.040 - .062	1.344	.260	.060 - .090
1.305	.826	.100 - .125	1.311	.875	.020 - .040	1.314	.522	.015 - .030	1.325	.139	.040 - .060	1.337	.319	.005 - .010	1.344	.376	.100 - .120
1.305	.942	.020 - .040	1.311	.884	.050 - .135	1.314	.593	.015 - .030	1.325	.141	.010 - .020	1.337	.396	.005 - .010	1.344	.752	.100 - .125
1.305	1.006	.015 - .030	1.311	.890	.030 - .050	1.314	.626	.100 - .125	1.325	.157	.010 - .020	1.337	.440	.042 - .062	1.344	.812	.040 - .062
1.305	1.011	.005 - .010	1.311	.905	.020 - .040	1.314	.673	.015 - .025	1.325	.171	.005 - .015	1.337	.475	.005 - .010	1.344	1.000	.015 - .030
1.305	1.016	.060 - .070	1.311	.947	.020 - .040	1.314	.827	.010 - .020	1.325	.172	.010 - .020	1.337	.500	.100 - .125	1.344	1.002	.050 - .075
1.305	1.140	.070 - .080	1.311	.995	.030 - .050	1.314	.885	.070 - .100	1.325	.204	.010 - .020	1.337	.502	.005 - .020	1.344	1.050	.005 - .010
1.305	1.201	.010 - .020	1.311	1.001	.005 - .010	1.314	.969	.040 - .060	1.325	.218	.010 - .020	1.337	.747	.025 - .040	1.344	1.068	.015 - .030
1.305	1.205	.010 - .020	1.311	1.005	.030 - .048	1.314	1.062	.006 - .016	1.325	.251	.010 - .020	1.337	.748	.010 - .020	1.345	.341	.090 - .105
1.306	.758	.040 - .060	1.311	1.009	.030 - .040	1.314	1.090	.042 - .062	1.325	.270	.010 - .020	1.337	.856	.010 - .020	1.345	.408	.005 - .010
1.306	.970	.015 - .025	1.311	1.057	.005 - .010	1.314	1.188	.005 - .010	1.325	.281	.040 - .060	1.337	.884	.005 - .010	1.345	.661	.050 - .070
1.306	.996	.007 - .015	1.311	1.190	.005 - .010	1.315	.177	.005 - .010	1.325	.295	.080 - .104	1.337	.945	.060 - .080	1.345	.818	.050 - .070
1.306	1.007	.050 - .090	1.312	.197	.025 - .040	1.315	.253	.080 - .104	1.325	.301	.012 - .025	1.337	.984	.005 - .040	1.345	.836	.005 - .010
1.306	1.070	.015 - .030	1.312	.234	.050 - .075	1.315	.522	.010 - .020	1.325	.350	.010 - .020	1.337	1.001	.070 - .090	1.345	.907	.060 - .090
1.306	1.167	.005 - .010	1.312	.251	.050 - .070	1.315	.560	.005 - .010	1.325	.381	.010 - .020	1.337	1.094	.005 - .010	1.345	.967	.100 - .125
1.306	1.184	.005 - .010	1.312	.314	.075 - .090	1.315	.626	.100 - .125	1.325	.410	.010 - .015	1.338	.255	.005 - .010	1.345	1.001	.010 - .020
1.307	.502	.010 - .020	1.312	.320	.030 - .050	1.315	.703	.010 - .020	1.325	.440	.010 - .134	1.338	.259	.005 - .010	1.345	1.039	.025 - .040
1.307	.655	.005 - .010	1.312	.374	.020 - .040	1.315	.923	.020 - .030	1.325	.500	.010 - .015	1.338	.320	.005 - .010	1.345	1.040	.015 - .030
1.307	1.068	.075 - .090	1.312	.377	.020 - .030	1.315	1.177	.005 - .010	1.325	.600	.010 - .015	1.338	.394	.005 - .020	1.345	1.173	.015 - .030
1.308	.125	.040 - .062	1.312	.392	.030 - .060	1.316	.655	.005 - .010	1.325	.640	.010 - .015	1.338	.396	.010 - .020	1.345	1.174	.015 - .025
1.308	.220	.050 - .070	1.312	.505	.010 - .015	1.316	.745	.080 - .100	1.325	.669	.040 - .060	1.338	.434	.100 - .120	1.346	.201	.060 - .080
1.308	.251	.005 - .010	1.312	.507	.042 - .062	1.316	.881	.020 - .040	1.325	.700	.010 - .015	1.338	.473	.005 - .010	1.346	.443	.005 - .025
1.308	.619	.005 - .010	1.312	.553	.005 - .010	1.316	.885	.025 - .050	1.325	.750	.010 - .015	1.338	.475	.010 - .020	1.347	.441	.005 - .010
1.308	.751	.050 - .075	1.312	.563	.005 - .010	1.316	.940	.010 - .015	1.325	.810	.010 - .020	1.338	.477	.005 - .010	1.347	.500	.005 - .010
1.308	.762	.070 - .090	1.312	.564	.020 - .040	1.316	.978	.042 - .060	1.325	.900	.050 - .075	1.338	.505	.005 - .020	1.347	.502	.005 - .010
1.308	.902	.005 - .010	1.312	.565	.090 - .110	1.317	.502	.030 - .050	1.325	.920	.010 - .015	1.338	.552	.005 - .015	1.347	1.075	.015 - .030
1.309	.311	.105 - .125	1.312	.566	.005 - .010	1.317	.744	.005 - .010	1.325	1.055	.080 - .104	1.338	.582	.005 - .010	1.347	1.140	.015 - .030
1.309	.377	.005 - .015	1.312	.594	.075 - .090	1.317	1.051	.010 - .020	1.325	1.118	.015 - .030	1.338	.751	.100 - .134	1.348	.441	.005 - .010
1.309	.392	.030 - .048	1.312	.625	.100 - .125	1.317	1.115	.080 - .100	1.325	1.179	.080 - .100	1.338	.867	.020 - .030	1.348	.500	.005 - .015
1.309	.607	.025 - .040	1.312	.634	.040 - .062	1.317	1.198	.020 - .035	1.326	.314	.025 - .040	1.338	.937	.025 - .040	1.348	.566	.080 - .100
1.309	.635	.010 - .020	1.312	.655	.015 - .030	1.317	1.250	.020 - .032	1.326	.570	.015 - .070	1.338	.983	.010 - .020	1.348	.677	.030 - .050
1.309	.751	.050 - .070	1.312	.687	.025 - .035	1.318	.180	.005 - .010	1.326	.751	.010 - .020	1.338	1.121	.020 - .030	1.348	.700	.005 - .010
1.309	.791	.005 - .010	1.312	.689	.050 - .060	1.318	.746	.050 - .075	1.326	1.022	.005 - .010	1.339	.220	.040 - .060	1.348	.717	.075 - .090
1.309	.813	.020 - .035	1.312	.703	.100 - .125	1.318	1.005	.040 - .125	1.327	.680	.030 - .050	1.339	.272	.015 - .030	1.348	.818	.005 - .015
1.309	.816	.007 - .016	1.312	.720	.050 - .070	1.318	1.006	.015 - .030	1.328	.126	.016 - .025	1.339	.274	.010 - .020	1.348	1.095	.010 - .025
1.309	.878	.060 - .083	1.312	.748	.050 - .062	1.319	.387	.090 - .125	1.328	.415	.156 - .187	1.339	.316	.005 - .010	1.348	1.145	.010 - .025
1.309	.883	.050 - .080	1.312	.755	.105 - .125	1.319	.715	.005 - .010	1.328	1.020	.025 - .040	1.339	.474	.005 - .010	1.349	.471	.040 - .060
1.309	1.000	.020 - .040	1.312	.765	.090 - .120	1.319	.716	.005 - .010	1.329	.175	.050 - .083	1.339	.640	.100 - .125	1.349	.501	.005 - .010
1.309	1.031	.100 - .120	1.312	.766	.050 - .075	1.319	.851	.040 - .060	1.329	.680	.015 - .030	1.339	.762	.005 - .010	1.349	.504	.005 - .020
1.309	1.128	.030 - .050	1.312	.781	.020 - .125	1.319	1.070	.015 - .030	1.329	.791	.105 - .125	1.339	.828	.105 - .125	1.349	.593	.060 - .080
1.310	.190	.050 - .070	1.312	.782	.060 - .083	1.319	1.075	.050 - .070	1.329	.900	.050 - .075	1.339	.983	.005 - .010	1.349	.749	.050 - .070
1.310	.205	.040 - .060	1.312	.783	.040 - .070	1.319	1.104	.030 - .040	1.329	.990	.105 - .134	1.339	1.181	.005 - .010	1.349	.984	.050 - .070
1.310	.231	.080 - .100	1.312	.812	.070 - .090	1.319	1.130	.005 - .010	1.329	1.001	.080 - .100	1.339	1.202	.005 - .010	1.349	1.057	.010 - .020
1.310	.379	.005 - .010	1.312	.843	.005 - .010	1.320	.183	.005 - .010	1.329	1.142	.005 - .010	1.339	1.205	.005 - .010	1.349	1.294	.005 - .010
1.310	.385	.170 - .190	1.312	.878	.060 - .080	1.320	.210	.005 - .010	1.329	1.174	.060 - .070	1.339	1.213	.015 - .030	1.350	.089	.005 - .010
1.310	.407	.090 - .120	1.312	.890	.090 - .125	1.320	.318	.105 - .125	1.329	1.180	.005 - .010	1.340	.250	.062 - .120	1.350	.090	.025 - .040
1.310	.416	.110 - .130	1.312	.892	.020 - .040	1.320	.476	.010 - .020	1.329	1.190	.030 - .050	1.340	.260	.005 - .010	1.350	.240	.120 - .130
1.310	.505	.010 - .020	1.312	.906	.062 - .080	1.320	.495	.062 - .135	1.330	.328	.005 - .010	1.340	.261	.005 - .010	1.350	.252	.015 - .125
1.310	.510	.012 - .020	1.312	.938	.005 - .010	1.320	.552	.100 - .120	1.330	.385	.005 - .010	1.340	.284	.015 - .030	1.350	.312	.050 - .060
1.310	.516	.040 - .060	1.312	.941	.030 - .040	1.320	.715	.005 - .010	1.330	.391	.156 - .190	1.340	.288	.040 - .060	1.350	.314	.005 - .020
1.310	.529	.040 - .060	1.312	.948	.070 - .090	1.320	.753	.005 - .010	1.330	.744	.030 - .060	1.340	.289	.005 - .010	1.350	.390	.105 - .125
1.310	.619	.015 - .030	1.312	.986	.005 - .010	1.320	.758	.080 - .104	1.330	.851	.040 - .060	1.340	.630	.020 - .040	1.350	.441	.010 - .020
1.310	.711	.015 - .030	1.312	1.000	.010 - .020	1.320	.761	.015 - .060	1.330	.897	.015 - .030	1.340	.632	.010 - .020	1.350	.457	.005 - .010

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

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
1.350	.500	.005 - .020	1.359	1.126	.060 - .080	1.366	.761	.005 - .010	1.370	1.065	.005 - .015	1.373	.750	.005 - .010	1.375	.343	.100 - .125
1.350	.503	.005 - .025	1.360	.204	.050 - .075	1.366	.763	.005 - .010	1.370	1.126	.005 - .010	1.373	.765	.010 - .020	1.375	.355	.070 - .100
1.350	.504	.006 - .020	1.360	.338	.005 - .010	1.366	.883	.080 - .100	1.370	1.127	.040 - .060	1.373	.785	.005 - .010	1.375	.373	.100 - .125
1.350	.505	.006 - .015	1.360	.344	.050 - .070	1.366	.892	.005 - .020	1.370	1.130	.005 - .020	1.373	.890	.030 - .050	1.375	.375	.062 - .120
1.350	.508	.005 - .020	1.360	.629	.010 - .020	1.366	.997	.025 - .040	1.370	1.136	.020 - .030	1.373	.906	.005 - .020	1.375	.382	.050 - .075
1.350	.562	.005 - .010	1.360	.639	.015 - .030	1.366	1.028	.070 - .090	1.370	1.163	.040 - .060	1.373	.912	.040 - .090	1.375	.391	.090 - .105
1.350	.564	.010 - .020	1.360	.656	.100 - .125	1.366	1.030	.050 - .075	1.370	1.188	.060 - .070	1.373	.996	.005 - .010	1.375	.395	.062 - .080
1.350	.626	.005 - .020	1.360	.791	.090 - .105	1.366	1.070	.030 - .105	1.370	1.199	.005 - .010	1.373	1.000	.008 - .060	1.375	.420	.048 - .062
1.350	.634	.020 - .040	1.360	.878	.050 - .070	1.366	1.133	.050 - .070	1.370	1.245	.010 - .020	1.373	1.095	.042 - .062	1.375	.422	.060 - .070
1.350	.669	.090 - .110	1.360	.928	.080 - .105	1.366	1.140	.020 - .030	1.370	1.255	.010 - .015	1.373	1.126	.020 - .040	1.375	.439	.170 - .190
1.350	.675	.005 - .010	1.360	.986	.060 - .080	1.366	1.144	.005 - .010	1.371	.148	.005 - .010	1.373	1.207	.025 - .040	1.375	.440	.075 - .090
1.350	.700	.030 - .060	1.360	1.003	.005 - .010	1.366	1.153	.010 - .020	1.371	.234	.090 - .125	1.373	1.209	.030 - .060	1.375	.444	.050 - .070
1.350	.750	.005 - .030	1.360	1.026	.050 - .075	1.366	1.221	.005 - .010	1.371	.281	.005 - .010	1.373	1.218	.040 - .060	1.375	.445	.015 - .030
1.350	.751	.005 - .010	1.360	1.060	.090 - .105	1.367	.758	.070 - .090	1.371	.525	.020 - .030	1.373	1.236	.010 - .020	1.375	.452	.156 - .187
1.350	.760	.005 - .040	1.360	1.128	.015 - .035	1.367	.760	.110 - .130	1.371	.595	.010 - .020	1.373	1.255	.005 - .020	1.375	.500	.100 - .125
1.350	.777	.025 - .040	1.360	1.146	.030 - .060	1.367	.763	.110 - .130	1.371	.627	.050 - .075	1.374	.155	.005 - .010	1.375	.502	.005 - .060
1.350	.779	.040 - .060	1.361	.219	.060 - .080	1.367	.884	.080 - .104	1.371	.641	.105 - .125	1.374	.190	.060 - .080	1.375	.505	.030 - .050
1.350	.819	.050 - .070	1.361	.875	.075 - .125	1.367	.885	.040 - .060	1.371	.651	.030 - .050	1.374	.245	.050 - .070	1.375	.515	.060 - .080
1.350	.860	.015 - .030	1.361	.884	.075 - .100	1.367	.911	.010 - .020	1.371	.698	.040 - .062	1.374	.251	.160 - .180	1.375	.526	.070 - .090
1.350	.863	.005 - .030	1.361	.890	.050 - .075	1.367	1.010	.040 - .060	1.371	.759	.100 - .125	1.374	.253	.083 - .104	1.375	.530	.005 - .075
1.350	.905	.050 - .070	1.361	1.032	.005 - .010	1.367	1.030	.060 - .080	1.371	.760	.005 - .010	1.374	.318	.050 - .060	1.375	.556	.005 - .060
1.350	.910	.015 - .030	1.362	.230	.005 - .010	1.367	1.067	.040 - .060	1.371	.820	.008 - .040	1.374	.341	.090 - .110	1.375	.560	.005 - .010
1.350	.977	.036 - .048	1.362	.439	.015 - .030	1.367	1.112	.025 - .040	1.371	.886	.005 - .025	1.374	.378	.050 - .070	1.375	.563	.120 - .135
1.350	.978	.010 - .020	1.362	.525	.010 - .020	1.367	1.153	.020 - .030	1.371	1.000	.120 - .135	1.374	.389	.060 - .070	1.375	.564	.010 - .020
1.350	1.000	.050 - .070	1.362	.641	.062 - .090	1.367	1.180	.005 - .015	1.371	1.020	.005 - .010	1.374	.518	.134 - .187	1.375	.571	.060 - .070
1.350	1.054	.012 - .020	1.362	.656	.100 - .125	1.368	.498	.005 - .010	1.371	1.073	.005 - .010	1.374	.562	.015 - .025	1.375	.590	.105 - .125
1.350	1.067	.015 - .030	1.362	.750	.010 - .060	1.368	.510	.075 - .090	1.371	1.102	.005 - .010	1.374	.563	.005 - .010	1.375	.619	.020 - .040
1.350	1.108	.050 - .070	1.362	.762	.100 - .125	1.368	.596	.030 - .050	1.371	1.123	.020 - .040	1.374	.568	.005 - .010	1.375	.630	.005 - .007
1.350	1.139	.005 - .010	1.362	1.002	.005 - .025	1.368	.635	.005 - .010	1.371	1.138	.070 - .090	1.374	.575	.090 - .110	1.375	.634	.005 - .010
1.350	1.209	.010 - .020	1.362	1.203	.005 - .010	1.368	.792	.040 - .060	1.371	1.178	.070 - .090	1.374	.577	.020 - .042	1.375	.636	.010 - .020
1.351	.561	.010 - .030	1.362	1.262	.015 - .030	1.368	.874	.050 - .070	1.371	1.200	.010 - .020	1.374	.641	.050 - .070	1.375	.641	.157 - .187
1.351	.750	.020 - .030	1.363	.941	.060 - .080	1.368	.918	.100 - .125	1.371	1.212	.005 - .015	1.374	.700	.156 - .187	1.375	.644	.005 - .010
1.351	1.026	.060 - .080	1.363	1.004	.015 - .030	1.368	.980	.050 - .070	1.371	1.257	.005 - .010	1.374	.701	.005 - .010	1.375	.656	.040 - .062
1.351	1.049	.010 - .020	1.363	1.190	.030 - .050	1.368	1.044	.030 - .050	1.372	.141	.070 - .090	1.374	.710	.005 - .010	1.375	.700	.120 - .135
1.351	1.091	.025 - .040	1.363	1.249	.015 - .025	1.368	1.069	.070 - .090	1.372	.191	.070 - .090	1.374	.717	.005 - .010	1.375	.709	.050 - .070
1.351	1.164	.015 - .030	1.364	.414	.070 - .090	1.368	1.072	.030 - .080	1.372	.378	.030 - .050	1.374	.750	.100 - .125	1.375	.719	.010 - .020
1.351	1.209	.010 - .020	1.364	.505	.025 - .040	1.368	1.073	.080 - .090	1.372	.564	.080 - .125	1.374	.756	.020 - .030	1.375	.750	.020 - .050
1.351	1.212	.010 - .020	1.364	.539	.070 - .090	1.368	1.112	.025 - .040	1.372	.637	.020 - .032	1.374	.762	.070 - .090	1.375	.751	.050 - .060
1.351	1.214	.005 - .010	1.364	.664	.005 - .010	1.368	1.113	.050 - .075	1.372	.690	.010 - .030	1.374	.770	.040 - .060	1.375	.753	.100 - .125
1.351	1.253	.005 - .010	1.364	.665	.070 - .090	1.368	1.174	.040 - .062	1.372	.730	.105 - .187	1.374	.800	.010 - .020	1.375	.754	.060 - .080
1.352	.670	.180 - .190	1.364	.701	.040 - .060	1.369	.312	.025 - .040	1.372	.750	.020 - .032	1.374	.807	.090 - .100	1.375	.757	.090 - .110
1.352	.776	.050 - .075	1.364	.780	.135 - .156	1.369	.329	.010 - .020	1.372	.812	.020 - .032	1.374	.825	.040 - .060	1.375	.758	.048 - .062
1.353	.988	.075 - .090	1.364	.788	.070 - .090	1.369	.505	.065 - .080	1.372	.891	.070 - .090	1.374	.829	.010 - .020	1.375	.762	.005 - .010
1.353	1.070	.050 - .070	1.364	.911	.070 - .090	1.369	.670	.090 - .105	1.372	.908	.050 - .075	1.374	.880	.025 - .040	1.375	.763	.156 - .187
1.354	.315	.020 - .040	1.364	.912	.080 - .100	1.369	.761	.010 - .020	1.372	.940	.030 - .050	1.374	.881	.110 - .135	1.375	.770	.005 - .010
1.354	.538	.005 - .010	1.364	1.002	.008 - .016	1.369	.803	.040 - .060	1.372	.948	.005 - .010	1.374	.884	.025 - .040	1.375	.782	.156 - .187
1.355	.263	.090 - .120	1.364	1.011	.030 - .050	1.369	.832	.005 - .010	1.372	.949	.090 - .125	1.374	.901	.030 - .050	1.375	.803	.090 - .100
1.355	.501	.110 - .130	1.364	1.042	.080 - .100	1.369	.885	.005 - .015	1.372	.973	.005 - .015	1.374	.905	.010 - .020	1.375	.812	.005 - .120
1.355	.687	.015 - .025	1.364	1.182	.005 - .010	1.369	.893	.125 - .156	1.372	.983	.025 - .040	1.374	.912	.010 - .025	1.375	.824	.005 - .020
1.355	.746	.015 - .030	1.364	1.184	.005 - .010	1.369	1.001	.015 - .030	1.372	1.003	.040 - .060	1.374	.942	.050 - .070	1.375	.827	.105 - .135
1.355	.795	.090 - .105	1.364	1.191	.010 - .020	1.369	1.145	.090 - .105	1.372	1.011	.105 - .120	1.374	.999	.025 - .040	1.375	.829	.048 - .075
1.355	.899	.050 - .070	1.364	1.193	.050 - .070	1.369	1.188	.010 - .015	1.372	1.065	.012 - .025	1.374	1.011	.090 - .120	1.375	.860	.006 - .100
1.355	1.010	.060 - .105	1.364	1.194	.030 - .060	1.369	1.207	.005 - .010	1.372	1.135	.050 - .070	1.374	1.049	.005 - .010	1.375	.875	.100 - .125
1.355	1.064	.015 - .030	1.364	1.237	.010 - .025	1.370	.144	.030 - .050	1.372	1.145	.050 - .105	1.374	1.059	.030 - .050	1.375	.876	.032 - .048
1.355	1.073	.005 - .010	1.364	1.252	.005 - .010	1.370	.192	.030 - .050	1.372	1.153	.030 - .050	1.374	1.078	.010 - .020	1.375	.877	.005 - .020
1.355	1.129	.050 - .060	1.364	1.281	.005 - .010	1.370	.234	.100 - .125	1.372	1.189	.030 - .050	1.374	1.125	.050 - .075	1.375	.878	.090 - .120
1.356	.444	.025 - .042	1.364	1.282	.005 - .012	1.370	.282	.080 - .100	1.372	1.191	.005 - .010	1.374	1.128	.010 - .020	1.375	.883	.010 - .020
1.356	1.000	.015 - .030	1.365	.281	.090 - .110	1.370	.300	.075 - .125	1.372	1.210	.010 - .020	1.374	1.145	.005 - .010	1.375	.892	.015 - .030
1.356	1.030	.015 - .030	1.365	.354	.060 - .080	1.370	.316	.005 - .010	1.372	1.213	.020 - .035	1.374	1.209	.040 - .060	1.375	.922	.015 - .030
1.357	.190	.020 - .040	1.365	.376	.100 - .120	1.370	.333	.010 - .020	1.372	1.285	.015 - .030	1.374	1.265	.030 - .050	1.375	.936	.020 - .032
1.357	.350	.005 - .010	1.365	.435	.050 - .083	1.370	.505	.100 - .125	1.373	.218	.040 - .062	1.375	.100	.025 - .045	1.375	.940	.060 - .090
1.357	.500	.100 - .125	1.365	.562	.030 - .050	1.370	.538	.008 - .016	1.373	.234	.105 - .125	1.375	.125	.070 - .090	1.375	.941	.010 - .020
1.357	.666	.080 - .100	1.365	.584	.030 - .060	1.370	.568	.005 - .010	1.373	.250	.016 - .032	1.375	.129	.015 - .030	1.375	.953	.005 - .010
1.357	.845	.032 - .060	1.365	.585	.025 - .042	1.370	.628	.005 - .010	1.373	.255	.040 - .060	1.375	.131	.005 - .010	1.375	.962	.035 - .060
1.357	.890	.020 - .040	1.365	.595	.030 - .050	1.370	.685	.075 - .125	1.373	.380	.120 - .135	1.375	.144	.040 - .060	1.375	.977	.062 - .083
1.357	.968	.005 - .010	1.365	.808	.040 - .060	1.370	.696	.015 - .030	1.373	.409	.005 - .010	1.375	.207	.040 - .062	1.375	.995	.005 - .010
1.357	.996	.005 - .010	1.365	.940	.030 - .050	1.370	.698	.050 - .075	1.373	.410	.100 - .125	1.375	.210	.100 - .125	1.375	1.000	.025 - .125
1.357	1.030	.015 - .040	1.365	1.131	.005 - .010	1.370	.751	.080 - .100	1.373	.462	.020 - .040	1.375	.250	.080 - .104	1.375	1.005	.120 - .156
1.358	.125	.030 - .050	1.365	1.150	.050 - .075	1.370	.793	.020 - .030	1.373	.463	.015 - .030	1.375	.252	.040 - .060	1.375	1.006	.100 - .125
1.358	.209	.120 - .135	1.365	1.160	.020 - .030	1.370	.794	.005 - .010	1.373	.500	.105 - .135	1.375	.255	.040 - .060	1.375	1.008	.060 - .080
1.358	.601	.040 - .060	1.365	1.187	.025 - .040	1.370	.886	.070 - .090	1.373	.563	.070 - .090	1.375	.260	.015 - .030	1.375	1.015	.005 - .010
1.358	.803	.005 - .010	1.365	1.192	.005 - .020	1.370	.890	.100 - .125	1.373	.568	.170 - .190	1.375	.270	.005 - .010	1.375	1.022	.016 - .032
1.358	1.026	.050 - .075	1.365	1.194	.020 - .040	1.370	.900	.005 - .007	1.373	.570	.006 - .015	1.375	.281	.100 - .125	1.375	1.031	.080 - .105
1.358	1.037	.008 - .015	1.365	1.262	.020 - .030	1.370	.940	.080 - .100	1.373	.575	.050 - .075	1.375	.310	.062 - .080	1.375	1.045	.025 - .040
1.358	1.130	.005 - .010	1.365	1.095	.110 - .130	1.370	.948	.062 - .080	1.373	.625	.020 - .190	1.375	.312	.050 - .083	1.375	1.065	.035 - .050
1.359	.689	.005 - .010	1.366	.070	.015 - .030	1.370	.950	.005 - .015	1.373	.627	.010 - .020	1.375	.316	.050 - .100	1.375	1.078	.040 - .060
1.359	.860	.130 - .150	1.366	.191	.105 - .125	1.370	.960	.032 - .050	1.373	.639	.040 - .050	1.375	.318	.100 - .125	1.375	1.110	.005 - .010
1.359	.888	.005 - .010	1.366	.542	.025 - .050	1.370	.990	.020 - .040	1.373	.641	.125 - .156	1.375	.321	.060 - .080	1.375	1.124	.005 - .010
1.359	1.025	.100 - .125	1.366	.690	.078 - .105	1.370	1.000	.042 - .062	1.373	.737	.010 - .020	1.375	.328	.025 - .070	1.375	1.130	.015 - .080
1.359	1.028	.100 - .125	1.366	.760	.020 - .030	1.370	1.056	.005 - .015	1.373	.749	.005 - .010	1.375	.329	.105 - .134	1.375	1.131	.005 - .010

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

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
1.375	1.136	.050 - .070	1.378	.736	.100 - .125	1.387	1.212	.020 - .040	1.400	1.258	.020 - .030	1.414	.595	.090 - .110	1.420	.405	.010 - .020
1.375	1.146	.025 - .040	1.378	.754	.005 - .010	1.388	.662	.120 - .134	1.400	1.260	.030 - .042	1.414	.794	.005 - .010	1.420	.487	.005 - .010
1.375	1.154	.005 - .010	1.378	.780	.025 - .050	1.388	.785	.015 - .030	1.401	.195	.005 - .010	1.415	.319	.005 - .010	1.420	.504	.105 - .134
1.375	1.159	.005 - .010	1.378	.783	.040 - .060	1.388	.825	.020 - .040	1.401	.986	.045 - .060	1.415	.320	.005 - .020	1.420	.507	.012 - .020
1.375	1.188	.005 - .010	1.378	.787	.100 - .120	1.388	1.016	.090 - .110	1.401	1.102	.010 - .020	1.415	.382	.040 - .062	1.420	.611	.075 - .090
1.375	1.189	.030 - .050	1.378	.858	.032 - .050	1.389	.474	.080 - .105	1.401	1.169	.010 - .020	1.415	.396	.005 - .020	1.420	.679	.005 - .010
1.375	1.195	.005 - .025	1.378	.861	.080 - .100	1.389	1.052	.030 - .050	1.401	1.186	.015 - .025	1.415	.398	.005 - .010	1.420	.690	.050 - .070
1.375	1.200	.020 - .032	1.378	.865	.100 - .125	1.389	1.073	.005 - .010	1.401	1.258	.005 - .030	1.415	.477	.005 - .010	1.420	.752	.080 - .100
1.375	1.201	.025 - .040	1.378	.876	.090 - .125	1.390	.368	.060 - .083	1.401	1.295	.005 - .010	1.415	.521	.020 - .030	1.420	.853	.050 - .060
1.375	1.251	.010 - .020	1.378	.878	.060 - .120	1.390	.430	.080 - .134	1.402	.295	.030 - .050	1.415	.567	.010 - .025	1.420	1.004	.005 - .010
1.375	1.253	.005 - .030	1.378	.957	.105 - .125	1.390	.552	.010 - .020	1.402	.504	.005 - .010	1.415	.896	.060 - .070	1.420	1.005	.010 - .020
1.375	1.265	.005 - .010	1.378	.984	.010 - .020	1.390	.780	.005 - .010	1.402	.505	.008 - .015	1.415	1.000	.005 - .010	1.420	1.100	.005 - .010
1.375	1.247	.040 - .060	1.378	1.060	.005 - .010	1.390	1.094	.005 - .008	1.402	.509	.105 - .135	1.415	1.044	.015 - .030	1.420	1.137	.050 - .070
1.376	.258	.005 - .010	1.378	1.061	.012 - .020	1.390	1.147	.015 - .030	1.402	.518	.005 - .008	1.415	1.100	.010 - .020	1.420	1.199	.080 - .100
1.376	.267	.134 - .187	1.378	1.075	.030 - .050	1.390	1.187	.015 - .030	1.402	.760	.005 - .015	1.415	1.122	.030 - .042	1.420	1.252	.030 - .050
1.376	.383	.005 - .015	1.378	1.143	.050 - .070	1.391	.888	.010 - .035	1.402	1.224	.050 - .070	1.415	1.126	.005 - .010	1.420	1.270	.010 - .020
1.376	.406	.050 - .075	1.378	1.186	.060 - .080	1.391	.983	.040 - .060	1.402	1.341	.015 - .030	1.416	.169	.030 - .050	1.420	1.271	.032 - .050
1.376	.503	.090 - .125	1.378	1.201	.005 - .010	1.391	1.056	.005 - .010	1.403	.250	.042 - .075	1.416	.324	.135 - .156	1.420	1.280	.030 - .050
1.376	.513	.005 - .010	1.379	.203	.020 - .040	1.392	1.055	.100 - .120	1.403	.430	.100 - .125	1.416	.473	.005 - .010	1.421	.495	.080 - .100
1.376	.530	.156 - .187	1.379	.453	.010 - .040	1.393	.611	.060 - .080	1.403	.672	.110 - .130	1.416	.474	.020 - .030	1.421	.518	.090 - .120
1.376	.534	.010 - .020	1.379	.510	.070 - .080	1.393	.719	.080 - .104	1.403	1.022	.010 - .020	1.416	.502	.005 - .030	1.421	1.186	.100 - .120
1.376	.620	.005 - .010	1.379	.564	.005 - .010	1.393	1.281	.005 - .010	1.404	.128	.050 - .070	1.416	.505	.005 - .020	1.421	1.190	.010 - .020
1.376	.650	.100 - .125	1.379	.599	.015 - .030	1.394	.654	.005 - .010	1.404	.508	.090 - .120	1.416	.567	.005 - .010	1.422	.408	.005 - .020
1.376	.657	.005 - .010	1.379	.787	.070 - .090	1.394	.724	.070 - .090	1.404	1.196	.020 - .040	1.416	.590	.160 - .190	1.422	.697	.065 - .080
1.376	.700	.010 - .020	1.379	.812	.005 - .010	1.395	.132	.025 - .035	1.405	.610	.010 - .020	1.416	.629	.005 - .010	1.422	.880	.060 - .090
1.376	.703	.005 - .010	1.379	.835	.005 - .010	1.395	.420	.105 - .125	1.405	.630	.005 - .010	1.416	.635	.050 - .070	1.422	.945	.090 - .105
1.376	.760	.060 - .140	1.379	1.069	.090 - .120	1.395	.550	.050 - .083	1.405	1.008	.015 - .030	1.416	.709	.040 - .060	1.422	1.058	.042 - .060
1.376	.761	.090 - .105	1.379	1.075	.015 - .025	1.395	1.157	.040 - .060	1.405	1.265	.005 - .010	1.416	.793	.005 - .010	1.423	.156	.030 - .050
1.376	.765	.090 - .105	1.379	1.089	.030 - .050	1.396	.563	.060 - .080	1.406	.139	.030 - .048	1.416	1.030	.100 - .120	1.423	.157	.080 - .104
1.376	.780	.110 - .130	1.380	.254	.040 - .060	1.396	.611	.105 - .125	1.406	.390	.005 - .010	1.416	1.039	.040 - .060	1.423	.864	.020 - .040
1.376	.815	.060 - .080	1.380	.282	.062 - .190	1.396	1.190	.015 - .025	1.406	.954	.050 - .070	1.416	1.111	.005 - .030	1.423	.880	.010 - .020
1.376	.847	.005 - .010	1.380	.300	.005 - .008	1.396	1.220	.010 - .020	1.406	1.010	.060 - .070	1.416	1.141	.040 - .060	1.423	.882	.005 - .030
1.376	.903	.025 - .040	1.380	.339	.005 - .010	1.397	.381	.115 - .130	1.406	1.091	.025 - .040	1.416	1.226	.025 - .040	1.423	1.000	.031 - .042
1.376	.906	.030 - .060	1.380	.346	.120 - .134	1.397	.419	.060 - .125	1.406	1.249	.020 - .030	1.416	1.338	.010 - .020	1.423	1.288	.005 - .010
1.376	.984	.030 - .050	1.380	.398	.005 - .010	1.397	.545	.005 - .010	1.407	.290	.025 - .040	1.417	.125	.010 - .020	1.423	1.289	.010 - .030
1.376	1.003	.010 - .020	1.380	.405	.100 - .125	1.397	.705	.060 - .090	1.407	.390	.005 - .030	1.417	.413	.060 - .080	1.424	.440	.060 - .070
1.376	1.016	.050 - .070	1.380	.596	.100 - .125	1.397	.710	.050 - .075	1.407	.624	.005 - .010	1.417	.474	.010 - .020	1.424	.505	.005 - .010
1.376	1.022	.005 - .010	1.380	.694	.120 - .135	1.397	.815	.005 - .020	1.407	.634	.060 - .090	1.417	.511	.105 - .125	1.424	.506	.010 - .020
1.376	1.135	.080 - .105	1.380	.752	.020 - .030	1.397	.981	.015 - .030	1.407	.705	.005 - .010	1.417	.519	.080 - .104	1.425	.316	.015 - .030
1.376	1.157	.010 - .020	1.380	.880	.020 - .040	1.397	1.068	.005 - .030	1.407	1.112	.015 - .030	1.417	.548	.050 - .070	1.425	.377	.005 - .020
1.376	1.225	.025 - .040	1.380	.901	.005 - .060	1.397	1.201	.020 - .040	1.407	1.125	.005 - .010	1.417	.580	.075 - .090	1.425	.438	.010 - .020
1.376	1.247	.005 - .010	1.380	.902	.080 - .100	1.398	.505	.005 - .015	1.407	1.188	.020 - .030	1.417	.632	.005 - .010	1.425	.440	.070 - .090
1.376	1.246	.050 - .070	1.380	1.004	.005 - .010	1.398	.717	.005 - .010	1.407	1.195	.005 - .010	1.417	.825	.050 - .070	1.425	.502	.005 - .020
1.377	.269	.040 - .060	1.380	1.009	.105 - .125	1.398	.872	.025 - .040	1.407	1.252	.005 - .010	1.417	.912	.135 - .187	1.425	.504	.005 - .020
1.377	.318	.100 - .125	1.380	1.021	.050 - .075	1.398	.906	.030 - .050	1.408	.902	.032 - .050	1.417	.983	.060 - .080	1.425	.505	.010 - .020
1.377	.336	.075 - .090	1.380	1.105	.005 - .010	1.398	1.160	.010 - .020	1.408	1.004	.005 - .010	1.417	.997	.050 - .070	1.425	.515	.005 - .010
1.377	.346	.100 - .125	1.380	1.180	.005 - .010	1.398	1.161	.030 - .050	1.408	1.256	.040 - .060	1.417	1.006	.030 - .040	1.425	1.155	.005 - .010
1.377	.376	.105 - .125	1.380	1.186	.080 - .100	1.399	.377	.005 - .020	1.408	1.285	.030 - .050	1.417	1.031	.050 - .060	1.425	1.161	.040 - .050
1.377	.377	.080 - .105	1.380	1.253	.005 - .010	1.399	.524	.005 - .060	1.408	1.332	.005 - .010	1.417	1.070	.020 - .040	1.425	1.188	.010 - .020
1.377	.383	.005 - .010	1.381	.561	.080 - .100	1.399	.654	.010 - .020	1.409	.502	.005 - .010	1.417	1.182	.050 - .070	1.425	1.251	.060 - .075
1.377	.384	.030 - .050	1.381	.689	.050 - .070	1.399	.719	.010 - .060	1.409	.503	.005 - .010	1.418	.204	.040 - .060	1.425	1.040	.005 - .020
1.377	.505	.005 - .020	1.381	1.200	.025 - .040	1.399	.890	.025 - .040	1.409	.766	.015 - .070	1.418	.322	.010 - .020	1.426	.888	.005 - .020
1.377	.515	.050 - .075	1.382	.542	.010 - .030	1.399	.906	.050 - .070	1.409	1.187	.005 - .010	1.418	.375	.070 - .090	1.426	1.055	.005 - .010
1.377	.517	.060 - .080	1.382	.543	.040 - .070	1.399	1.160	.030 - .050	1.409	1.189	.050 - .060	1.418	.473	.005 - .010	1.426	1.100	.005 - .010
1.377	.531	.100 - .125	1.382	.633	.020 - .030	1.399	1.203	.005 - .010	1.409	1.333	.005 - .010	1.418	.474	.010 - .020	1.426	1.110	.005 - .010
1.377	.754	.060 - .080	1.382	1.093	.005 - .010	1.400	.140	.020 - .040	1.410	.265	.060 - .080	1.418	.477	.005 - .010	1.426	1.188	.025 - .040
1.377	.756	.050 - .075	1.382	1.137	.060 - .080	1.400	.269	.050 - .070	1.410	.500	.015 - .030	1.418	.478	.100 - .120	1.426	1.261	.005 - .020
1.377	.790	.020 - .040	1.382	1.138	.005 - .010	1.400	.379	.080 - .100	1.410	.660	.015 - .030	1.418	.504	.005 - .010	1.426	1.291	.005 - .015
1.377	.860	.005 - .010	1.382	1.192	.020 - .040	1.400	.380	.105 - .125	1.410	.690	.105 - .135	1.418	.505	.010 - .020	1.427	.250	.050 - .075
1.377	.895	.032 - .048	1.383	.629	.090 - .125	1.400	.500	.040 - .060	1.410	.855	.030 - .050	1.418	.807	.080 - .104	1.427	1.141	.060 - .070
1.377	.983	.060 - .080	1.383	1.000	.030 - .050	1.400	.503	.005 - .015	1.410	.897	.060 - .090	1.418	.880	.010 - .020	1.427	1.218	.020 - .040
1.377	.985	.005 - .010	1.384	.314	.090 - .110	1.400	.505	.080 - .100	1.410	1.030	.020 - .040	1.418	.886	.030 - .050	1.427	1.253	.075 - .093
1.377	.997	.030 - .050	1.384	.543	.020 - .030	1.400	.549	.020 - .040	1.410	1.110	.030 - .050	1.418	.887	.005 - .010	1.427	1.257	.025 - .040
1.377	1.001	.025 - .090	1.384	.758	.005 - .010	1.400	.564	.010 - .020	1.410	1.143	.010 - .020	1.418	.889	.010 - .020	1.428	1.014	.060 - .080
1.377	1.018	.030 - .050	1.384	1.171	.012 - .025	1.400	.627	.015 - .030	1.410	1.147	.080 - .100	1.418	.945	.030 - .050	1.428	1.066	.015 - .032
1.377	1.029	.040 - .060	1.384	1.318	.005 - .010	1.400	.696	.020 - .032	1.410	1.187	.005 - .010	1.418	.983	.120 - .135	1.428	1.249	.005 - .010
1.377	1.100	.005 - .010	1.385	.567	.080 - .105	1.400	.754	.015 - .030	1.410	1.189	.005 - .008	1.418	.985	.015 - .030	1.429	.418	.005 - .010
1.377	1.241	.005 - .010	1.385	.578	.031 - .042	1.400	.755	.005 - .010	1.410	1.202	.005 - .010	1.418	1.181	.100 - .125	1.429	.783	.010 - .020
1.378	.206	.050 - .075	1.385	.796	.005 - .010	1.400	.756	.050 - .070	1.411	.836	.005 - .010	1.418	1.188	.070 - .090	1.429	1.100	.020 - .030
1.378	.208	.005 - .010	1.385	.920	.015 - .020	1.400	.822	.005 - .010	1.411	1.265	.010 - .025	1.419	.253	.005 - .010	1.429	1.126	.020 - .040
1.378	.240	.105 - .125	1.385	1.010	.030 - .060	1.400	.879	.005 - .010	1.412	.201	.040 - .060	1.419	.407	.156 - .187	1.429	1.194	.040 - .060
1.378	.313	.020 - .032	1.385	1.015	.075 - .090	1.400	.885	.005 - .020	1.412	.836	.105 - .120	1.419	.435	.160 - .180	1.430	.192	.030 - .050
1.378	.315	.010 - .020	1.385	1.220	.005 - .010	1.400	.887	.010 - .020	1.412	1.070	.040 - .060	1.419	.677	.080 - .100	1.430	.376	.015 - .030
1.378	.316	.005 - .010	1.385	1.269	.005 - .010	1.400	1.000	.010 - .105	1.412	1.193	.030 - .050	1.419	.797	.005 - .010	1.430	.519	.005 - .010
1.378	.324	.005 - .010	1.385	1.339	.005 - .010	1.400	1.017	.090 - .105	1.412	1.246	.005 - .010	1.419	.800	.005 - .010	1.430	.640	.100 - .125
1.378	.402	.156 - .187	1.386	.474	.080 - .105	1.400	1.050	.070 - .080	1.413	.634	.100 - .125	1.419	1.003	.005 - .010	1.430	.698	.005 - .010
1.378	.492	.005 - .010	1.386	.655	.170 - .190	1.400	1.076	.025 - .042	1.413	.995	.005 - .010	1.419	1.070	.090 - .125	1.430	.716	.010 - .020
1.378	.500	.010 - .020	1.386	1.084	.060 - .080	1.400	1.150	.005 - .010	1.413	1.118	.005 - .010	1.420	.285	.110 - .135	1.430	.749	.010 - .020
1.378	.657	.060 - .080	1.386	1.124	.005 - .010	1.400	1.158	.005 - .010	1.414	.434	.170 - .190	1.420	.378	.010 - .020	1.430	.755	.015 - .030
1.378	.660	.105 - .135	1.386	1.187	.030 - .045	1.400	1.200	.080 - .090	1.414	.563	.160 - .190	1.420	.380	.030 - .050	1.430	.827	.010 - .020

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

For a size NOT listed, send specs or phone for quote — (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
1.430	1.063	.060 - .070
1.430	1.065	.005 - .010
1.430	1.128	.050 - .075
1.430	1.129	.050 - .070
1.430	1.148	.075 - .090
1.430	1.186	.005 - .010
1.431	.716	.005 - .010
1.431	1.129	.010 - .020
1.431	1.253	.060 - .080
1.432	.936	.090 - .105
1.432	.995	.100 - .125
1.432	1.045	.030 - .050
1.432	1.094	.050 - .060
1.432	1.139	.040 - .060
1.432	1.160	.020 - .062
1.433	.316	.005 - .010
1.433	.510	.008 - .030
1.433	.563	.005 - .010
1.433	.760	.040 - .060
1.433	1.039	.005 - .010
1.433	1.050	.040 - .060
1.433	1.095	.020 - .030
1.433	1.350	.010 - .020
1.434	.361	.005 - .010
1.434	.751	.100 - .125
1.434	.873	.120 - .135
1.434	.936	.090 - .120
1.434	1.125	.015 - .030
1.434	1.315	.010 - .020
1.435	.207	.100 - .125
1.435	.270	.005 - .010
1.435	.316	.015 - .030
1.435	.377	.005 - .010
1.435	.379	.020 - .040
1.435	.500	.005 - .010
1.435	.563	.010 - .020
1.435	.665	.005 - .010
1.435	.750	.020 - .030
1.435	.875	.005 - .010
1.435	1.082	.070 - .090
1.435	1.107	.020 - .040
1.435	1.192	.040 - .060
1.435	1.257	.005 - .010
1.435	1.315	.010 - .020
1.436	.125	.008 - .016
1.436	.195	.025 - .050
1.436	.377	.010 - .040
1.436	.383	.010 - .040
1.436	.504	.050 - .075
1.436	.555	.005 - .010
1.436	.563	.015 - .030
1.436	.643	.005 - .010
1.436	.886	.008 - .012
1.436	.940	.005 - .010
1.436	1.001	.050 - .075
1.436	1.134	.030 - .050
1.436	1.154	.015 - .025
1.436	1.195	.032 - .050
1.436	1.198	.005 - .010
1.436	1.250	.040 - .060
1.436	1.265	.020 - .030
1.436	1.320	.005 - .010
1.437	.186	.010 - .020
1.437	.206	.025 - .125
1.437	.255	.005 - .010
1.437	.297	.070 - .090
1.437	.356	.040 - .060
1.437	.376	.005 - .025
1.437	.378	.015 - .035
1.437	.383	.005 - .060
1.437	.397	.020 - .040
1.437	.410	.005 - .010
1.437	.420	.080 - .104
1.437	.493	.156 - .187
1.437	.500	.032 - .048
1.437	.504	.062 - .080
1.437	.552	.005 - .015
1.437	.639	.015 - .025
1.437	.680	.100 - .125
1.437	.761	.105 - .125
1.437	.764	.020 - .030
1.437	.765	.050 - .075
1.437	.766	.015 - .025
1.437	.783	.005 - .010
1.437	.792	.100 - .125
1.437	.795	.020 - .040
1.437	.850	.075 - .090
1.437	.873	.156 - .190
1.437	.879	.070 - .090
1.437	.886	.050 - .075
1.437	.895	.040 - .060
1.437	.950	.050 - .070
1.437	1.000	.030 - .040
1.437	1.001	.156 - .187
1.437	1.008	.075 - .104
1.437	1.031	.050 - .070
1.437	1.093	.035 - .048
1.437	1.103	.080 - .100
1.437	1.123	.005 - .030
1.437	1.132	.030 - .050
1.437	1.172	.005 - .010
1.437	1.185	.015 - .070
1.437	1.201	.060 - .080
1.437	1.250	.005 - .010
1.437	1.281	.025 - .040
1.438	.258	.105 - .125
1.438	.281	.120 - .135
1.438	.345	.040 - .060
1.438	.377	.010 - .030
1.438	.562	.005 - .010
1.438	.669	.020 - .030
1.438	.682	.060 - .080
1.438	.751	.100 - .125
1.438	.765	.005 - .010
1.438	.811	.125 - .156
1.438	.881	.080 - .100
1.438	.938	.040 - .060
1.438	.998	.005 - .010
1.438	1.039	.030 - .050
1.438	1.065	.036 - .050
1.438	1.100	.050 - .070
1.438	1.150	.005 - .010
1.438	1.171	.025 - .040
1.438	1.188	.020 - .040
1.438	1.190	.015 - .030
1.439	.115	.020 - .040
1.439	.466	.005 - .010
1.439	.515	.125 - .135
1.439	.636	.015 - .030
1.439	.757	.040 - .060
1.439	.811	.040 - .060
1.439	.812	.005 - .020
1.439	1.125	.070 - .085
1.439	1.265	.015 - .030
1.440	.235	.020 - .035
1.440	.250	.060 - .070
1.440	.332	.005 - .010
1.440	.375	.090 - .120
1.440	.377	.005 - .010
1.440	.392	.005 - .010
1.440	.395	.005 - .010
1.440	.438	.040 - .060
1.440	.504	.005 - .020
1.440	.610	.005 - .010
1.440	.762	.005 - .010
1.440	.891	.015 - .025
1.440	1.015	.020 - .040
1.440	1.070	.020 - .030
1.440	1.083	.005 - .010
1.440	1.120	.050 - .075
1.440	1.137	.005 - .010
1.441	.720	.050 - .083
1.441	1.140	.050 - .075
1.441	1.142	.050 - .075
1.441	1.258	.005 - .010
1.441	1.311	.020 - .040
1.442	.411	.062 - .080
1.442	.541	.005 - .010
1.442	.881	.080 - .105
1.442	1.002	.006 - .012
1.442	1.130	.030 - .040
1.442	.948	.040 - .060
1.443	.626	.015 - .030
1.443	.880	.070 - .090
1.443	.948	.040 - .060
1.443	1.179	.040 - .050
1.444	.136	.005 - .010
1.444	1.006	.030 - .050
1.444	1.055	.005 - .010
1.445	.132	.040 - .062
1.445	.312	.010 - .020
1.445	.322	.060 - .090
1.445	.350	.032 - .060
1.445	.690	.090 - .120
1.445	.934	.050 - .060
1.445	1.044	.045 - .060
1.446	.179	.005 - .010
1.446	.240	.090 - .120
1.446	.250	.050 - .070
1.446	.253	.105 - .135
1.446	.254	.100 - .125
1.446	.315	.100 - .125
1.446	.318	.105 - .125
1.446	1.062	.005 - .015
1.447	.406	.100 - .125
1.447	.596	.005 - .010
1.447	.837	.100 - .125
1.447	1.064	.080 - .100
1.447	1.136	.105 - .125
1.447	1.203	.032 - .060
1.448	.125	.030 - .050
1.448	.390	.040 - .050
1.448	.441	.010 - .020
1.448	.575	.050 - .070
1.448	.630	.005 - .010
1.448	1.031	.075 - .090
1.448	1.052	.030 - .050
1.448	1.053	.040 - .060
1.448	1.057	.005 - .010
1.448	1.091	.010 - .020
1.448	1.126	.090 - .105
1.448	1.190	.080 - .100
1.448	1.193	.050 - .070
1.449	.522	.105 - .125
1.449	.629	.010 - .020
1.449	.966	.040 - .060
1.449	.990	.010 - .020
1.449	1.028	.045 - .060
1.449	1.057	.040 - .060
1.449	1.198	.005 - .010
1.449	1.322	.010 - .020
1.450	.157	.020 - .035
1.450	.201	.025 - .040
1.450	.208	.050 - .075
1.450	.220	.020 - .030
1.450	.262	.020 - .030
1.450	.282	.040 - .060
1.450	.380	.005 - .020
1.450	.441	.005 - .010
1.450	.444	.010 - .020
1.450	.449	.010 - .020
1.450	.450	.005 - .010
1.450	.531	.080 - .100
1.450	.626	.010 - .020
1.450	.631	.005 - .010
1.450	.650	.050 - .062
1.450	.760	.030 - .060
1.450	.830	.020 - .040
1.450	.952	.040 - .060
1.450	1.019	.105 - .135
1.450	1.031	.083 - .120
1.450	1.085	.050 - .075
1.450	1.100	.005 - .010
1.450	1.140	.005 - .010
1.450	1.225	.030 - .040
1.450	1.265	.010 - .020
1.450	1.379	.010 - .020
1.451	.503	.005 - .010
1.451	1.016	.050 - .070
1.451	1.140	.005 - .015
1.451	1.196	.010 - .020
1.451	1.271	.036 - .060
1.452	.266	.020 - .040
1.452	.441	.010 - .020
1.453	.104	.005 - .010
1.453	.760	.030 - .050
1.453	1.234	.010 - .020
1.454	.568	.080 - .100
1.454	.756	.020 - .030
1.454	1.014	.015 - .030
1.454	1.102	.005 - .010
1.454	1.282	.050 - .070
1.455	.475	.125 - .135
1.455	.637	.040 - .050
1.455	.638	.085 - .100
1.455	.754	.005 - .010
1.455	1.000	.015 - .030
1.455	1.065	.040 - .060
1.455	1.101	.040 - .050
1.456	.315	.020 - .030
1.456	.826	.105 - .135
1.456	1.066	.030 - .050
1.456	1.082	.015 - .030
1.457	.502	.005 - .010
1.457	.505	.005 - .020
1.457	.675	.050 - .070
1.457	1.022	.005 - .010
1.457	1.200	.015 - .025
1.457	1.295	.020 - .030
1.458	.670	.100 - .120
1.458	.873	.030 - .050
1.458	.984	.005 - .010
1.458	1.124	.042 - .062
1.458	1.254	.020 - .040
1.459	.239	.015 - .030
1.459	.630	.005 - .010
1.459	.841	.040 - .050
1.459	.951	.030 - .050
1.459	1.143	.015 - .030
1.459	1.189	.015 - .030
1.460	.180	.035 - .050
1.460	.500	.025 - .040
1.460	.569	.050 - .070
1.460	.667	.050 - .070
1.460	.761	.010 - .020
1.460	.950	.040 - .060
1.460	1.189	.035 - .050
1.460	1.394	.020 - .025
1.461	.180	.070 - .080
1.461	.875	.030 - .050
1.461	1.172	.050 - .070
1.461	1.362	.020 - .030
1.461	1.340	.005 - .010
1.462	.502	.080 - .100
1.462	.563	.048 - .062
1.462	1.070	.080 - .100
1.462	1.247	.008 - .075
1.463	.480	.090 - .110
1.463	.813	.090 - .110
1.463	1.211	.015 - .025
1.463	1.224	.015 - .030
1.464	.590	.005 - .010
1.464	.741	.042 - .062
1.464	1.189	.015 - .025
1.465	.377	.030 - .060
1.465	.378	.010 - .050
1.465	.812	.105 - .134
1.465	1.095	.050 - .075
1.465	1.190	.025 - .040
1.465	1.262	.060 - .080
1.465	1.306	.035 - .050
1.465	1.325	.015 - .030
1.466	.379	.030 - .050
1.466	.596	.005 - .010
1.466	1.064	.005 - .010
1.466	1.072	.030 - .050
1.466	1.155	.020 - .040
1.466	1.268	.030 - .050
1.467	.841	.015 - .030
1.467	.939	.075 - .090
1.467	1.038	.030 - .050
1.467	1.126	.075 - .100
1.468	.310	.010 - .020
1.468	.384	.080 - .105
1.468	.391	.050 - .070
1.468	.440	.010 - .020
1.468	.640	.050 - .075
1.468	.820	.005 - .010
1.468	.988	.005 - .010
1.468	1.235	.010 - .020
1.468	1.310	.020 - .032
1.469	.665	.100 - .120
1.469	.750	.080 - .090
1.469	.808	.005 - .010
1.470	.171	.005 - .010
1.470	.203	.010 - .020
1.470	.610	.100 - .125
1.470	.752	.005 - .010
1.470	.782	.100 - .125
1.470	.820	.010 - .020
1.470	.833	.100 - .156
1.470	1.062	.048 - .075
1.470	1.094	.015 - .030
1.470	1.111	.040 - .050
1.470	1.150	.025 - .042
1.470	1.226	.040 - .060
1.470	1.375	.005 - .010
1.471	.688	.062 - .080
1.471	.758	.090 - .120
1.471	.759	.100 - .125
1.471	.810	.050 - .070
1.471	.821	.057 - .088
1.471	.877	.100 - .125
1.471	.938	.105 - .125
1.471	1.331	.005 - .040
1.472	.438	.015 - .030
1.472	.501	.005 - .010
1.472	.762	.010 - .020
1.472	.765	.080 - .100
1.472	.829	.010 - .020
1.472	1.001	.070 - .090
1.472	1.230	.090 - .125
1.473	.130	.042 - .062
1.473	.609	.010 - .030
1.474	.318	.010 - .020
1.474	1.010	.040 - .060
1.474	1.180	.005 - .010
1.474	1.357	.005 - .010
1.474	1.358	.015 - .025
1.475	.499	.005 - .010
1.475	.500	.110 - .130
1.475	.504	.006 - .015
1.475	.526	.080 - .100
1.475	.620	.005 - .010
1.475	.626	.005 - .020
1.475	.751	.005 - .020
1.475	.828	.062 - .090
1.475	.834	.005 - .010
1.475	1.169	.040 - .060
1.475	1.360	.010 - .020
1.476	.255	.005 - .010
1.476	.500	.005 - .030
1.476	.650	.005 - .010
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	.470	.080 - .110
1.479	.600	.020 - .030
1.479	.786	.134 - .156
1.479	1.133	.015 - .030
1.479	1.147	.005 - .010
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	.769	.005 - .010
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
1.480	1.134	.110 - .125
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
1.485	1.166	.015 - .030
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
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	.630	.010 - .020
1.490	.688	.080 - .100
1.490	.760	.020 - .030

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

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
1.490	.764	.030 - .050	1.495	.500	.105 - .125	1.497	1.060	.100 - .125	1.499	.420	.005 - .010	1.500	.311	.104 - .134	1.500	.749	.010 - .025
1.490	.820	.040 - .060	1.495	.510	.070 - .090	1.497	1.119	.040 - .060	1.499	.474	.005 - .010	1.500	.312	.160 - .190	1.500	.753	.010 - .125
1.490	.875	.100 - .125	1.495	.545	.010 - .020	1.497	1.126	.135 - .156	1.499	.485	.050 - .075	1.500	.313	.062 - .080	1.500	.754	.040 - .060
1.490	1.004	.005 - .010	1.495	.629	.040 - .050	1.497	1.137	.005 - .010	1.499	.504	.005 - .020	1.500	.315	.008 - .110	1.500	.758	.105 - .125
1.490	1.063	.080 - .100	1.495	.682	.010 - .020	1.497	1.150	.090 - .110	1.499	.533	.005 - .010	1.500	.325	.048 - .075	1.500	.760	.030 - .050
1.490	1.125	.005 - .010	1.495	1.010	.015 - .030	1.497	1.154	.025 - .040	1.499	.561	.005 - .010	1.500	.327	.005 - .010	1.500	.761	.100 - .125
1.490	1.130	.010 - .025	1.495	1.028	.060 - .080	1.497	1.242	.030 - .050	1.499	.562	.015 - .025	1.500	.330	.120 - .135	1.500	.765	.020 - .080
1.490	1.140	.025 - .050	1.495	1.058	.005 - .010	1.497	1.252	.005 - .012	1.499	.563	.010 - .020	1.500	.340	.005 - .010	1.500	.768	.020 - .030
1.490	1.190	.005 - .010	1.495	1.086	.005 - .010	1.497	1.267	.040 - .062	1.499	.574	.050 - .060	1.500	.345	.050 - .070	1.500	.781	.015 - .110
1.490	1.193	.010 - .020	1.495	1.116	.090 - .104	1.497	1.283	.005 - .010	1.499	.599	.030 - .050	1.500	.346	.105 - .135	1.500	.782	.050 - .075
1.490	1.242	.090 - .125	1.495	1.120	.005 - .010	1.497	1.352	.010 - .020	1.499	.626	.005 - .010	1.500	.349	.005 - .010	1.500	.783	.156 - .187
1.490	1.272	.060 - .080	1.495	1.182	.060 - .080	1.498	.128	.015 - .030	1.499	.643	.005 - .010	1.500	.364	.005 - .010	1.500	.785	.030 - .040
1.490	1.280	.005 - .010	1.495	1.185	.020 - .030	1.498	.142	.040 - .060	1.499	.676	.030 - .060	1.500	.372	.040 - .060	1.500	.786	.005 - .010
1.490	1.290	.040 - .060	1.495	1.201	.010 - .025	1.498	.176	.010 - .015	1.499	.710	.030 - .050	1.500	.375	.060 - .187	1.500	.788	.105 - .135
1.490	1.295	.005 - .010	1.495	1.255	.010 - .020	1.498	.252	.100 - .125	1.499	.750	.070 - .090	1.500	.376	.015 - .025	1.500	.792	.005 - .040
1.490	1.345	.010 - .020	1.495	1.257	.060 - .080	1.498	.253	.042 - .062	1.499	.759	.060 - .080	1.500	.377	.005 - .010	1.500	.804	.005 - .012
1.490	1.360	.005 - .025	1.495	1.260	.005 - .010	1.498	.262	.005 - .010	1.499	.760	.060 - .080	1.500	.379	.030 - .050	1.500	.806	.080 - .104
1.490	1.361	.040 - .060	1.495	1.275	.005 - .010	1.498	.266	.100 - .125	1.499	.763	.040 - .060	1.500	.384	.010 - .025	1.500	.810	.025 - .040
1.490	1.170	.015 - .030	1.495	1.339	.005 - .010	1.498	.313	.040 - .060	1.499	.765	.005 - .125	1.500	.385	.005 - .010	1.500	.812	.050 - .100
1.491	.063	.005 - .010	1.495	1.354	.005 - .010	1.498	.360	.005 - .010	1.499	.768	.010 - .020	1.500	.391	.050 - .070	1.500	.813	.050 - .100
1.491	.875	.100 - .125	1.495	1.400	.020 - .040	1.498	.379	.005 - .010	1.499	.813	.090 - .105	1.500	.392	.010 - .020	1.500	.817	.005 - .135
1.491	.994	.105 - .120	1.495	1.318	.005 - .010	1.498	.380	.120 - .135	1.499	.835	.030 - .050	1.500	.395	.050 - .083	1.500	.820	.020 - .040
1.491	1.001	.005 - .010	1.496	.250	.030 - .050	1.498	.390	.105 - .130	1.499	.876	.005 - .010	1.500	.397	.030 - .050	1.500	.830	.015 - .135
1.491	1.063	.080 - .100	1.496	.256	.005 - .010	1.498	.400	.170 - .190	1.499	.880	.040 - .060	1.500	.398	.005 - .015	1.500	.841	.040 - .050
1.491	1.210	.010 - .020	1.496	.296	.010 - .020	1.498	.406	.050 - .125	1.499	.881	.040 - .060	1.500	.406	.005 - .187	1.500	.853	.080 - .104
1.491	1.312	.005 - .010	1.496	.438	.040 - .060	1.498	.412	.005 - .010	1.499	.967	.105 - .125	1.500	.411	.020 - .030	1.500	.871	.010 - .020
1.492	.394	.005 - .010	1.496	.473	.005 - .020	1.498	.500	.005 - .015	1.499	.995	.005 - .010	1.500	.413	.075 - .090	1.500	.873	.170 - .190
1.492	.803	.016 - .025	1.496	.474	.005 - .010	1.498	.502	.005 - .010	1.499	1.003	.005 - .012	1.500	.437	.040 - .125	1.500	.874	.020 - .040
1.492	.886	.020 - .032	1.496	.512	.170 - .190	1.498	.521	.015 - .025	1.499	1.011	.110 - .130	1.500	.440	.005 - .080	1.500	.876	.100 - .125
1.492	1.011	.020 - .040	1.496	.620	.015 - .050	1.498	.607	.005 - .010	1.499	1.046	.050 - .075	1.500	.441	.005 - .020	1.500	.877	.100 - .125
1.492	1.062	.100 - .125	1.496	.625	.050 - .080	1.498	.625	.040 - .060	1.499	1.047	.040 - .060	1.500	.443	.010 - .032	1.500	.880	.010 - .020
1.492	1.118	.005 - .010	1.496	.630	.005 - .075	1.498	.687	.030 - .125	1.499	1.052	.050 - .070	1.500	.450	.100 - .125	1.500	.882	.110 - .134
1.492	1.130	.015 - .030	1.496	.720	.010 - .020	1.498	.688	.105 - .125	1.499	1.059	.070 - .090	1.500	.451	.005 - .010	1.500	.883	.040 - .125
1.493	.433	.105 - .125	1.496	.762	.005 - .010	1.498	.690	.100 - .125	1.499	1.098	.030 - .050	1.500	.453	.170 - .190	1.500	.886	.156 - .187
1.493	.521	.005 - .010	1.496	.767	.010 - .020	1.498	.754	.020 - .030	1.499	1.117	.040 - .060	1.500	.454	.100 - .125	1.500	.892	.105 - .120
1.493	.748	.015 - .030	1.496	.783	.100 - .125	1.498	.757	.040 - .060	1.499	1.123	.080 - .100	1.500	.479	.156 - .187	1.500	.893	.062 - .090
1.493	.758	.032 - .060	1.496	.900	.005 - .010	1.498	.771	.005 - .048	1.499	1.135	.040 - .060	1.500	.497	.105 - .125	1.500	.900	.040 - .060
1.493	.776	.020 - .030	1.496	.946	.005 - .010	1.498	.819	.005 - .010	1.499	1.142	.005 - .012	1.500	.498	.070 - .090	1.500	.904	.104 - .125
1.493	.810	.005 - .010	1.496	.994	.010 - .020	1.498	.825	.005 - .010	1.499	1.150	.040 - .060	1.500	.500	.005 - .060	1.500	.908	.026 - .048
1.493	1.008	.050 - .070	1.496	1.003	.040 - .060	1.498	.844	.100 - .125	1.499	1.202	.005 - .015	1.500	.502	.005 - .030	1.500	.910	.140 - .160
1.493	1.062	.030 - .050	1.496	1.007	.005 - .010	1.498	.867	.005 - .010	1.499	1.250	.050 - .075	1.500	.505	.005 - .050	1.500	.934	.040 - .060
1.493	1.136	.010 - .025	1.496	1.014	.060 - .080	1.498	.902	.025 - .040	1.499	1.256	.030 - .040	1.500	.506	.005 - .125	1.500	.935	.030 - .040
1.493	1.191	.030 - .050	1.496	1.017	.050 - .075	1.498	.979	.050 - .070	1.499	1.260	.040 - .060	1.500	.512	.060 - .156	1.500	.937	.050 - .075
1.493	1.229	.005 - .010	1.496	1.060	.005 - .010	1.498	.997	.030 - .050	1.499	1.000	.015 - .030	1.500	.513	.100 - .125	1.500	.938	.093 - .109
1.493	1.242	.005 - .010	1.496	1.066	.005 - .010	1.498	1.000	.060 - .080				1.500	.515	.100 - .125	1.500	.942	.105 - .134
1.493	1.259	.010 - .020	1.496	1.114	.010 - .020	1.498	1.014	.100 - .125				1.500	.519	.080 - .104	1.500	.954	.050 - .070
1.493	1.273	.060 - .070	1.496	1.162	.005 - .010	1.498	1.015	.005 - .015				1.500	.521	.105 - .125	1.500	.970	.080 - .100
1.493	1.299	.005 - .010	1.496	1.181	.010 - .020	1.498	1.021	.005 - .010				1.500	.530	.015 - .125	1.500	.975	.005 - .010
1.493	1.314	.005 - .010	1.496	1.189	.005 - .010	1.498	1.032	.020 - .040				1.500	.536	.006 - .134	1.500	.993	.025 - .040
1.494	.271	.015 - .030	1.496	1.221	.040 - .060	1.498	1.033	.005 - .010				1.500	.537	.030 - .048	1.500	.996	.050 - .070
1.494	.330	.005 - .020	1.496	1.245	.020 - .040	1.498	1.040	.105 - .135	1.500	.084	.020 - .035	1.500	.550	.090 - .125	1.500	1.001	.005 - .015
1.494	.474	.005 - .010	1.496	1.253	.050 - .070	1.498	1.065	.005 - .012	1.500	.094	.005 - .010	1.500	.560	.005 - .015	1.500	1.002	.040 - .090
1.494	.477	.005 - .010	1.496	1.255	.040 - .060	1.498	1.066	.030 - .050	1.500	.126	.040 - .060	1.500	.562	.050 - .190	1.500	1.003	.005 - .156
1.494	.637	.005 - .010	1.496	1.260	.005 - .075	1.498	1.071	.015 - .030	1.500	.130	.020 - .032	1.500	.563	.015 - .030	1.500	1.004	.015 - .050
1.494	.650	.007 - .020	1.496	1.270	.005 - .010	1.498	1.072	.110 - .130	1.500	.135	.090 - .104	1.500	.564	.100 - .120	1.500	1.005	.010 - .070
1.494	.760	.060 - .080	1.496	1.311	.010 - .020	1.498	1.098	.030 - .060	1.500	.150	.040 - .062	1.500	.571	.025 - .040	1.500	1.009	.040 - .140
1.494	.857	.080 - .104	1.496	1.216	.010 - .020	1.498	1.125	.090 - .120	1.500	.156	.030 - .125	1.500	.577	.010 - .015	1.500	1.010	.005 - .020
1.494	.937	.030 - .050	1.497	.145	.020 - .040	1.498	1.130	.100 - .120	1.500	.157	.030 - .050	1.500	.579	.110 - .130	1.500	1.011	.010 - .020
1.494	1.024	.030 - .050	1.497	.195	.025 - .042	1.498	1.169	.025 - .040	1.500	.161	.100 - .125	1.500	.605	.050 - .070	1.500	1.015	.040 - .190
1.494	1.057	.080 - .104	1.497	.375	.050 - .083	1.498	1.178	.010 - .020	1.500	.163	.010 - .040	1.500	.625	.030 - .050	1.500	1.018	.100 - .125
1.494	1.060	.064 - .078	1.497	.377	.105 - .125	1.498	1.268	.040 - .060	1.500	.185	.050 - .083	1.500	.626	.010 - .125	1.500	1.019	.005 - .012
1.494	1.075	.050 - .060	1.497	.379	.042 - .062	1.498	1.305	.030 - .050	1.500	.188	.005 - .010	1.500	.634	.005 - .010	1.500	1.020	.005 - .125
1.494	1.092	.040 - .060	1.497	.386	.062 - .080	1.498	1.321	.030 - .048	1.500	.194	.025 - .042	1.500	.636	.060 - .180	1.500	1.022	.020 - .040
1.494	1.175	.015 - .025	1.497	.421	.156 - .187	1.498	1.378	.005 - .010	1.500	.195	.048 - .075	1.500	.638	.020 - .040	1.500	1.023	.005 - .010
1.494	1.201	.035 - .050	1.497	.477	.005 - .010	1.498	1.396	.015 - .025	1.500	.200	.010 - .030	1.500	.640	.110 - .130	1.500	1.025	.105 - .125
1.494	1.265	.005 - .010	1.497	.515	.100 - .125	1.498	1.012	.040 - .060	1.500	.209	.105 - .125	1.500	.655	.005 - .020	1.500	1.032	.048 - .134
1.494	1.270	.010 - .015	1.497	.559	.100 - .125	1.499	.098	.050 - .075	1.500	.219	.050 - .070	1.500	.656	.075 - .130	1.500	1.036	.008 - .105
1.494	1.305	.005 - .010	1.497	.612	.020 - .030	1.499	.127	.080 - .090	1.500	.245	.032 - .060	1.500	.660	.040 - .060	1.500	1.041	.005 - .010
1.494	1.338	.010 - .020	1.497	.620	.010 - .060	1.499	.167	.005 - .010	1.500	.250	.010 - .020	1.500	.665	.005 - .010	1.500	1.043	.005 - .010
1.494	1.342	.008 - .015	1.497	.632	.010 - .020	1.499	.187	.020 - .040	1.500	.259	.060 - .083	1.500	.687	.030 - .050	1.500	1.050	.156 - .187
1.494	1.414	.015 - .025	1.497	.655	.075 - .100	1.499	.197	.125 - .156	1.500	.265	.100 - .125	1.500	.688	.050 - .070	1.500	1.062	.050 - .075
1.494	1.425	.025 - .040	1.497	.723	.060 - .083	1.499	.213	.005 - .010	1.500	.266	.015 - .025	1.500	.690	.120 - .135	1.500	1.063	.020 - .040
1.495	.263	.005 - .010	1.497	.753	.025 - .040	1.499	.268	.070 - .090	1.500	.267	.005 - .010	1.500	.694	.005 - .010	1.500	1.065	.010 - .060
1.495	.276	.005 - .010	1.497	.755	.025 - .042	1.499	.281	.100 - .125	1.500	.269	.030 - .048	1.500	.700	.070 - .090	1.500	1.092	.005 - .030
1.495	.294	.020 - .032	1.497	.757	.010 - .030	1.499	.303	.040 - .060	1.500	.275	.080 - .090	1.500	.701	.050 - .070	1.500	1.093	.005 - .062
1.495	.295	.100 - .125	1.497	.763	.005 - .015	1.499	.314	.010 - .020	1.500	.280	.040 - .060	1.500	.703	.005 - .010	1.500	1.115	.005 - .010
1.495	.354	.105 - .135	1.497	.772	.030 - .048	1.499	.374	.030 - .050	1.500	.281	.156 - .187	1.500	.713	.005 - .010	1.500	1.122	.032 - .048
1.495	.355	.005 - .010	1.497	.810	.005 - .010	1.499	.385	.135 - .156	1.500	.282	.008 - .015	1.500	.715	.005 - .020	1.500	1.127	.005 - .010
1.495	.375	.030 - .050	1.497	.891	.005 - .010	1.499	.391	.156 - .190	1.500	.283	.005 - .010	1.500	.721	.104 - .125	1.500	1.129	.060 - .083
1.495	.459	.156 - .187	1.497	.906	.100 - .120	1.499	.399	.005 - .010	1.500	.303	.005 - .010	1.500	.725	.070 - .090	1.500	1.136	.105 - .125

1.500

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

For non-metallic materials, contact BOKER'S — (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
1.500	1.156	.015 - .030	1.502	.877	.080 - .100	1.520	.811	.080 - .100	1.532	.098	.030 - .050	1.548	.951	.090 - .110	1.558	.749	.020 - .040
1.500	1.157	.025 - .042	1.502	.885	.005 - .010	1.520	.816	.060 - .080	1.532	.765	.005 - .010	1.548	1.005	.010 - .020	1.558	.770	.105 - .125
1.500	1.171	.070 - .090	1.502	.891	.025 - .040	1.520	.821	.040 - .060	1.532	1.047	.015 - .025	1.548	1.038	.031 - .048	1.558	1.004	.025 - .040
1.500	1.175	.030 - .050	1.502	.960	.060 - .080	1.520	.838	.060 - .080	1.532	1.306	.070 - .090	1.548	1.100	.040 - .050	1.558	1.433	.005 - .010
1.500	1.178	.020 - .040	1.502	1.015	.020 - .030	1.520	.850	.080 - .090	1.533	1.003	.040 - .060	1.548	1.270	.015 - .030	1.559	.776	.005 - .010
1.500	1.180	.060 - .080	1.502	1.067	.100 - .125	1.520	.890	.050 - .070	1.533	1.379	.050 - .060	1.549	.361	.050 - .070	1.559	.875	.110 - .130
1.500	1.186	.105 - .135	1.502	1.110	.025 - .040	1.520	.891	.040 - .060	1.534	.325	.080 - .104	1.549	.444	.005 - .020	1.559	1.071	.005 - .010
1.500	1.187	.015 - .125	1.502	1.119	.120 - .135	1.520	1.015	.005 - .010	1.534	.505	.005 - .020	1.549	.503	.015 - .030	1.559	1.288	.010 - .020
1.500	1.190	.005 - .010	1.502	1.125	.005 - .010	1.520	1.264	.020 - .050	1.534	1.026	.105 - .125	1.549	.505	.005 - .020	1.559	1.315	.006 - .040
1.500	1.191	.105 - .125	1.502	1.150	.090 - .125	1.520	1.420	.005 - .010	1.534	1.046	.015 - .030	1.549	.754	.040 - .062	1.559	1.439	.005 - .020
1.500	1.195	.050 - .070	1.502	1.380	.005 - .010	1.521	.326	.030 - .050	1.534	1.097	.020 - .040	1.549	1.003	.050 - .070	1.560	.191	.020 - .040
1.500	1.199	.005 - .040	1.503	.509	.005 - .010	1.521	.390	.040 - .060	1.534	1.397	.020 - .035	1.549	1.005	.040 - .060	1.560	.242	.015 - .030
1.500	1.200	.090 - .105	1.503	.701	.050 - .070	1.521	.706	.060 - .080	1.535	.322	.050 - .075	1.549	1.007	.005 - .010	1.560	.381	.125 - .156
1.500	1.202	.031 - .048	1.503	.845	.025 - .040	1.521	.889	.050 - .070	1.535	.330	.156 - .187	1.549	1.226	.030 - .050	1.560	.391	.080 - .105
1.500	1.204	.035 - .048	1.503	1.008	.005 - .010	1.521	1.024	.040 - .060	1.535	.635	.025 - .040	1.550	.245	.042 - .075	1.560	.392	.080 - .105
1.500	1.212	.015 - .030	1.503	1.016	.015 - .030	1.522	.966	.090 - .110	1.535	.697	.156 - .164	1.550	.368	.020 - .035	1.560	.455	.100 - .125
1.500	1.215	.005 - .010	1.503	1.020	.050 - .075	1.523	.346	.050 - .070	1.535	.710	.005 - .010	1.550	.438	.005 - .030	1.560	.508	.100 - .125
1.500	1.225	.020 - .030	1.504	.687	.010 - .020	1.523	.503	.005 - .010	1.535	.710	.020 - .040	1.550	.440	.005 - .010	1.560	.563	.015 - .030
1.500	1.249	.005 - .010	1.504	.764	.020 - .040	1.523	.507	.005 - .020	1.535	.788	.050 - .070	1.550	.449	.010 - .020	1.560	.619	.005 - .010
1.500	1.251	.025 - .040	1.504	.784	.042 - .062	1.523	.584	.050 - .070	1.535	.867	.105 - .125	1.550	.500	.050 - .070	1.560	.772	.005 - .010
1.500	1.252	.105 - .125	1.504	.789	.005 - .010	1.523	1.467	.005 - .010	1.535	.904	.100 - .125	1.550	.502	.005 - .010	1.560	.839	.050 - .070
1.500	1.264	.020 - .030	1.504	.811	.100 - .125	1.524	.329	.110 - .130	1.535	1.064	.080 - .104	1.550	.505	.010 - .020	1.560	.845	.025 - .048
1.500	1.265	.005 - .010	1.504	1.036	.120 - .135	1.524	.432	.100 - .125	1.535	1.138	.005 - .020	1.550	.626	.005 - .020	1.560	.891	.020 - .040
1.500	1.266	.010 - .020	1.504	1.230	.062 - .090	1.524	.435	.040 - .060	1.535	1.140	.030 - .040	1.550	.629	.005 - .010	1.560	1.063	.135 - .156
1.500	1.274	.010 - .020	1.504	1.287	.040 - .060	1.524	.560	.040 - .060	1.535	1.290	.005 - .010	1.550	.635	.015 - .035	1.560	1.100	.005 - .010
1.500	1.275	.008 - .018	1.504	1.378	.010 - .020	1.524	1.274	.042 - .060	1.535	1.300	.060 - .080	1.550	.704	.005 - .010	1.560	1.140	.005 - .010
1.500	1.277	.090 - .125	1.505	.408	.015 - .030	1.524	1.416	.040 - .060	1.535	1.344	.012 - .025	1.550	.750	.020 - .040	1.560	1.207	.010 - .020
1.500	1.282	.008 - .016	1.505	.440	.156 - .187	1.525	.250	.050 - .070	1.535	1.378	.020 - .035	1.550	.752	.105 - .125	1.560	1.261	.070 - .080
1.500	1.298	.010 - .025	1.505	.510	.105 - .125	1.525	.265	.005 - .010	1.536	.188	.090 - .120	1.550	1.221	.005 - .010	1.560	1.315	.015 - .025
1.500	1.300	.050 - .075	1.505	.845	.025 - .035	1.525	.268	.005 - .010	1.536	.501	.010 - .020	1.550	1.235	.050 - .075	1.560	1.319	.005 - .010
1.500	1.301	.050 - .070	1.505	1.003	.015 - .030	1.525	.501	.005 - .010	1.536	.576	.015 - .030	1.550	1.250	.005 - .010	1.560	1.320	.015 - .025
1.500	1.316	.010 - .020	1.505	1.109	.040 - .060	1.525	.617	.050 - .060	1.536	.651	.015 - .030	1.550	1.255	.015 - .025	1.560	1.331	.050 - .070
1.500	1.332	.025 - .040	1.505	1.310	.015 - .025	1.525	.657	.005 - .010	1.536	.694	.015 - .020	1.550	1.321	.010 - .020	1.560	1.353	.005 - .010
1.500	1.358	.050 - .070	1.506	1.249	.050 - .075	1.525	.685	.040 - .060	1.536	.710	.005 - .010	1.550	1.415	.005 - .010	1.560	1.376	.025 - .040
1.500	1.376	.015 - .060	1.507	1.324	.005 - .010	1.525	.800	.010 - .020	1.536	.712	.030 - .050	1.550	1.416	.015 - .020	1.561	.161	.020 - .030
1.500	1.389	.030 - .050	1.508	.315	.105 - .125	1.525	1.231	.005 - .010	1.536	.811	.005 - .010	1.550	1.439	.005 - .010	1.561	.251	.040 - .060
1.501	.125	.075 - .090	1.508	.910	.080 - .105	1.525	1.310	.025 - .040	1.536	1.009	.050 - .070	1.551	.289	.050 - .070	1.561	.259	.083 - .125
1.501	.188	.020 - .040	1.509	.301	.090 - .120	1.525	1.316	.070 - .090	1.536	1.024	.135 - .156	1.551	.438	.010 - .020	1.561	.562	.005 - .010
1.501	.190	.005 - .010	1.509	.781	.090 - .105	1.525	1.335	.040 - .060	1.537	.407	.075 - .125	1.551	.440	.010 - .020	1.561	.629	.075 - .105
1.501	.200	.100 - .125	1.510	.510	.060 - .080	1.526	1.280	.040 - .060	1.537	.501	.010 - .020	1.551	1.026	.060 - .080	1.561	.766	.100 - .125
1.501	.280	.060 - .090	1.510	.900	.030 - .050	1.526	1.310	.025 - .042	1.537	.670	.005 - .010	1.551	1.140	.010 - .020	1.561	.768	.025 - .040
1.501	.336	.105 - .125	1.510	1.089	.015 - .030	1.526	1.345	.005 - .010	1.537	1.288	.042 - .062	1.551	1.189	.105 - .125	1.561	.883	.005 - .010
1.501	.372	.050 - .070	1.510	1.236	.005 - .010	1.527	1.317	.060 - .078	1.537	1.296	.005 - .010	1.551	1.278	.060 - .080	1.561	.952	.030 - .050
1.501	.382	.005 - .012	1.510	1.258	.005 - .010	1.527	1.418	.020 - .030	1.539	.562	.010 - .020	1.552	1.460	.005 - .010	1.561	1.039	.030 - .050
1.501	.385	.090 - .125	1.510	1.312	.060 - .070	1.528	.187	.025 - .040	1.539	1.206	.015 - .030	1.553	.854	.075 - .105	1.561	1.040	.010 - .015
1.501	.437	.005 - .010	1.510	1.032	.015 - .030	1.528	.195	.050 - .100	1.539	1.220	.015 - .030	1.553	.859	.080 - .100	1.561	1.158	.040 - .060
1.501	.508	.030 - .050	1.511	.213	.090 - .100	1.528	.250	.010 - .030	1.539	1.359	.030 - .050	1.553	1.158	.125 - .156	1.561	1.231	.040 - .060
1.501	.514	.005 - .010	1.511	.630	.080 - .105	1.528	.728	.005 - .010	1.540	.512	.105 - .125	1.554	.765	.080 - .104	1.561	1.261	.040 - .060
1.501	.626	.010 - .020	1.511	.792	.090 - .105	1.528	1.009	.050 - .070	1.540	.563	.005 - .010	1.554	.883	.010 - .015	1.561	1.390	.005 - .010
1.501	.715	.005 - .010	1.511	.823	.170 - .190	1.528	1.276	.010 - .020	1.540	.910	.015 - .030	1.554	1.000	.060 - .080	1.561	1.433	.005 - .012
1.501	.755	.010 - .020	1.511	1.015	.005 - .010	1.528	1.285	.020 - .040	1.540	1.102	.025 - .040	1.554	1.193	.060 - .080	1.561	1.439	.005 - .010
1.501	.773	.100 - .125	1.511	1.112	.050 - .075	1.529	.466	.005 - .010	1.540	1.200	.020 - .030	1.554	1.460	.005 - .010	1.562	.201	.020 - .030
1.501	.817	.100 - .125	1.511	1.113	.040 - .060	1.529	.791	.030 - .050	1.540	1.290	.050 - .070	1.555	.166	.080 - .104	1.562	.251	.090 - .104
1.501	.820	.040 - .060	1.511	1.351	.005 - .010	1.529	.984	.080 - .105	1.541	.318	.020 - .030	1.555	.650	.007 - .012	1.562	.317	.008 - .016
1.501	.840	.010 - .020	1.514	.940	.125 - .135	1.529	1.052	.080 - .100	1.541	1.008	.025 - .070	1.555	1.060	.032 - .060	1.562	.351	.075 - .105
1.501	.876	.040 - .060	1.514	1.126	.062 - .080	1.529	1.117	.100 - .110	1.541	1.030	.005 - .010	1.555	1.100	.090 - .120	1.562	.378	.048 - .075
1.501	.909	.050 - .070	1.515	.583	.120 - .134	1.529	1.259	.020 - .040	1.541	1.250	.050 - .070	1.555	1.112	.080 - .105	1.562	.406	.105 - .125
1.501	1.008	.080 - .100	1.515	.765	.050 - .070	1.529	1.360	.020 - .040	1.542	.833	.020 - .030	1.555	1.133	.090 - .105	1.562	.408	.015 - .030
1.501	1.009	.005 - .010	1.515	.892	.045 - .060	1.529	1.416	.020 - .030	1.542	.998	.005 - .010	1.555	1.196	.015 - .030	1.562	.447	.040 - .060
1.501	1.010	.005 - .010	1.515	1.360	.040 - .060	1.529	1.453	.005 - .010	1.542	1.193	.005 - .010	1.555	1.250	.060 - .080	1.562	.562	.032 - .050
1.501	1.121	.020 - .030	1.515	1.375	.020 - .040	1.530	.251	.015 - .030	1.543	.431	.075 - .105	1.556	.164	.050 - .062	1.562	.563	.156 - .187
1.501	1.132	.025 - .050	1.515	1.378	.010 - .020	1.530	.282	.060 - .080	1.543	1.200	.020 - .030	1.556	.511	.080 - .105	1.562	.564	.005 - .020
1.501	1.133	.060 - .080	1.515	1.360	.010 - .015	1.530	.312	.030 - .050	1.543	1.255	.050 - .075	1.556	1.192	.050 - .070	1.562	.656	.156 - .187
1.501	1.188	.050 - .070	1.516	.293	.050 - .075	1.530	.536	.005 - .010	1.543	1.257	.025 - .040	1.556	1.260	.015 - .030	1.562	.746	.075 - .105
1.501	1.251	.020 - .030	1.516	.915	.050 - .070	1.530	.548	.005 - .010	1.543	1.261	.030 - .050	1.556	1.262	.020 - .040	1.562	.750	.010 - .100
1.501	1.290	.005 - .010	1.516	1.194	.005 - .010	1.530	.832	.020 - .030	1.544	1.169	.030 - .050	1.556	1.405	.010 - .020	1.562	.762	.005 - .010
1.501	1.012	.030 - .050	1.516	1.199	.005 - .010	1.530	1.031	.075 - .090	1.544	1.182	.025 - .040	1.556	1.437	.032 - .050	1.562	.765	.090 - .120
1.502	.185	.105 - .135	1.517	.755	.090 - .104	1.530	1.141	.050 - .070	1.544	1.191	.005 - .010	1.557	.396	.005 - .015	1.562	.781	.083 - .105
1.502	.220	.060 - .080	1.518	.770	.050 - .070	1.530	1.202	.010 - .030	1.544	1.481	.010 - .020	1.557	.407	.060 - .080	1.562	.782	.080 - .104
1.502	.345	.080 - .104	1.518	1.195	.050 - .070	1.530	1.280	.050 - .060	1.545	.264	.030 - .050	1.557	.770	.110 - .130	1.562	.812	.062 - .080
1.502	.349	.030 - .048	1.518	1.405	.005 - .010	1.531	.333	.005 - .010	1.545	.437	.020 - .040	1.557	1.002	.075 - .090	1.562	.864	.120 - .140
1.502	.375	.060 - .125	1.519	.623	.005 - .010	1.531	.390	.100 - .125	1.545	1.060	.005 - .010	1.557	1.038	.040 - .060	1.562	.874	.020 - .040
1.502	.411	.005 - .010	1.519	.689	.060 - .080	1.531	.516	.060 - .080	1.545	1.156	.020 - .030	1.557	1.314	.105 - .125	1.562	.875	.015 - .030
1.502	.441	.030 - .050	1.520	.195	.035 - .050	1.531	.625	.005 - .010	1.545	1.191	.005 - .010	1.557	1.355	.025 - .040	1.562	.904	.040 - .050
1.502	.444	.120 - .135	1.520	.328	.015 - .020	1.531	.689	.060 - .080	1.545	1.391	.050 - .070	1.557	1.358	.005 - .010	1.562	.906	.040 - .050
1.502	.562	.134 - .187	1.520	.753	.060 - .080	1.531	.776	.025 - .040	1.545	1.457	.025 - .035	1.558	.157	.015 - .030	1.562	.925	.030 - .060
1.502	.563	.005 - .010	1.520	.760	.100 - .110	1.531	.808	.030 - .050	1.546	1.182	.025 - .040	1.558	.256	.075 - .100	1.562	.932	.050 - .075
1.502	.648	.100 - .120	1.520	.801	.030 - .050	1.531	1.000	.020 - .032	1.546	1.184	.025 - .040	1.558	.375	.075 - .090	1.562	.937	.100 - .125
1.502	.656	.156 - .188	1.520	.804	.050 - .070	1.531	1.015	.025 - .042	1.547	1.007	.040 - .064	1.558	.378	.060 - .080	1.562	.938	.015 - .025
1.502	.752	.105 - .125	1.520	.808	.040 - .070	1.531	1.223	.010 - .020	1.548	.441	.010 - .020	1.558	.410	.090 - .105	1.562	.939	.030 - .050

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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
1.562	.945	.070 - .090	1.569	.756	.105 - .125	1.575	.643	.070 - .090	1.590	.490	.090 - .125	1.600	1.101	.020 - .030	1.613	.778	.020 - .040
1.562	.996	.062 - .090	1.569	.807	.090 - .105	1.575	.708	.105 - .125	1.590	.594	.100 - .125	1.600	1.125	.015 - .025	1.613	1.124	.090 - .100
1.562	.997	.020 - .030	1.569	.884	.105 - .125	1.575	.709	.015 - .030	1.590	1.299	.020 - .035	1.600	1.128	.010 - .020	1.613	1.312	.015 - .030
1.562	1.001	.120 - .134	1.569	1.030	.025 - .040	1.575	.712	.040 - .060	1.590	1.345	.010 - .060	1.600	1.175	.090 - .125	1.614	.145	.070 - .090
1.562	1.002	.120 - .134	1.569	1.140	.070 - .090	1.575	.789	.025 - .040	1.590	1.362	.060 - .080	1.600	1.205	.010 - .020	1.614	.329	.005 - .010
1.562	1.008	.040 - .060	1.569	1.187	.040 - .060	1.575	.794	.005 - .010	1.590	1.028	.005 - .010	1.600	1.220	.050 - .070	1.614	.694	.020 - .030
1.562	1.032	.083 - .105	1.569	1.285	.010 - .020	1.575	.827	.040 - .060	1.592	.407	.048 - .062	1.600	1.260	.030 - .050	1.614	.884	.040 - .060
1.562	1.063	.015 - .025	1.569	1.320	.015 - .030	1.575	.879	.005 - .010	1.592	1.171	.040 - .060	1.600	1.271	.110 - .130	1.614	1.001	.005 - .010
1.562	1.128	.030 - .048	1.569	1.331	.040 - .060	1.575	.953	.090 - .100	1.592	1.222	.010 - .020	1.600	1.300	.050 - .060	1.614	1.189	.025 - .040
1.562	1.155	.015 - .032	1.570	.168	.008 - .012	1.575	.985	.010 - .156	1.593	.515	.010 - .020	1.600	1.310	.015 - .060	1.614	1.251	.005 - .010
1.562	1.187	.005 - .010	1.570	.256	.080 - .100	1.575	.986	.050 - .070	1.593	.900	.060 - .080	1.600	1.312	.005 - .010	1.614	1.280	.020 - .040
1.562	1.188	.020 - .040	1.570	.346	.010 - .020	1.575	1.025	.030 - .050	1.593	1.034	.010 - .020	1.600	1.357	.005 - .015	1.614	1.281	.010 - .020
1.562	1.203	.025 - .048	1.570	.526	.080 - .100	1.575	1.063	.040 - .060	1.593	1.171	.100 - .125	1.600	1.375	.010 - .020	1.614	1.339	.015 - .030
1.562	1.313	.005 - .010	1.570	.720	.005 - .010	1.575	1.110	.005 - .010	1.593	1.172	.050 - .075	1.600	1.435	.010 - .020	1.614	1.381	.010 - .020
1.562	1.320	.060 - .080	1.570	.813	.030 - .050	1.575	1.178	.156 - .187	1.593	1.194	.062 - .080	1.600	1.439	.005 - .010	1.615	.316	.010 - .020
1.562	1.323	.105 - .125	1.570	.870	.005 - .010	1.575	1.200	.040 - .050	1.593	1.239	.010 - .020	1.600	1.260	.060 - .080	1.615	.500	.050 - .070
1.562	1.346	.030 - .050	1.570	.906	.100 - .125	1.575	1.220	.005 - .015	1.593	1.322	.060 - .080	1.600	1.290	.020 - .040	1.615	.629	.090 - .100
1.562	1.347	.040 - .060	1.570	1.003	.035 - .060	1.575	1.240	.030 - .050	1.594	.657	.030 - .060	1.601	.631	.005 - .010	1.615	.877	.050 - .075
1.562	1.348	.062 - .075	1.570	1.031	.080 - .105	1.575	1.338	.005 - .010	1.594	.814	.015 - .025	1.601	.770	.005 - .010	1.615	1.000	.050 - .075
1.562	1.354	.005 - .010	1.570	1.032	.100 - .125	1.575	1.389	.070 - .090	1.594	1.278	.080 - .100	1.601	1.436	.005 - .010	1.615	1.407	.020 - .040
1.562	1.374	.025 - .040	1.570	1.190	.032 - .042	1.575	1.474	.005 - .010	1.594	1.303	.010 - .020	1.601	1.460	.005 - .010	1.615	1.417	.040 - .060
1.562	1.375	.020 - .040	1.570	1.191	.125 - .156	1.575	1.110	.060 - .080	1.594	1.416	.005 - .015	1.602	.630	.100 - .125	1.615	1.450	.005 - .010
1.562	1.376	.005 - .010	1.570	1.220	.050 - .070	1.576	.414	.160 - .190	1.594	1.451	.030 - .050	1.602	.772	.010 - .020	1.615	1.456	.010 - .020
1.562	1.437	.010 - .020	1.570	1.250	.005 - .010	1.576	.477	.010 - .020	1.594	1.504	.015 - .030	1.602	.973	.100 - .125	1.616	.752	.075 - .100
1.563	.439	.005 - .010	1.570	1.259	.030 - .040	1.576	.630	.005 - .010	1.595	.551	.105 - .125	1.602	1.432	.005 - .010	1.616	1.382	.005 - .010
1.563	.638	.005 - .010	1.571	.379	.080 - .100	1.576	.670	.015 - .030	1.596	.880	.010 - .020	1.602	1.492	.005 - .010	1.616	1.390	.100 - .120
1.563	.690	.032 - .060	1.571	.870	.100 - .120	1.576	.826	.125 - .156	1.597	.200	.050 - .070	1.603	.341	.100 - .125	1.617	.417	.005 - .010
1.563	.762	.005 - .010	1.571	1.018	.100 - .125	1.576	.828	.010 - .020	1.597	.755	.010 - .020	1.603	.800	.075 - .090	1.617	.498	.080 - .120
1.563	.878	.025 - .040	1.571	1.038	.005 - .015	1.576	.926	.005 - .010	1.597	.881	.090 - .125	1.603	1.012	.025 - .040	1.617	.500	.010 - .020
1.563	.892	.075 - .100	1.571	1.146	.070 - .090	1.576	1.092	.050 - .070	1.598	.199	.080 - .090	1.603	1.500	.020 - .030	1.617	.626	.048 - .062
1.563	.999	.105 - .125	1.572	.476	.005 - .010	1.576	1.245	.025 - .040	1.598	.320	.080 - .090	1.604	.674	.115 - .130	1.617	.751	.020 - .040
1.563	1.005	.110 - .130	1.572	.569	.050 - .060	1.576	1.474	.005 - .010	1.598	.505	.005 - .010	1.604	1.007	.005 - .010	1.617	.805	.040 - .060
1.563	1.062	.005 - .010	1.572	.625	.050 - .070	1.577	.632	.040 - .060	1.598	.516	.050 - .070	1.605	.378	.030 - .050	1.617	1.060	.050 - .070
1.563	1.131	.050 - .070	1.572	.754	.005 - .010	1.577	.771	.030 - .060	1.598	.625	.030 - .050	1.605	.390	.005 - .010	1.617	1.258	.025 - .042
1.563	1.347	.040 - .062	1.572	.761	.020 - .040	1.577	.994	.015 - .030	1.598	.630	.010 - .020	1.605	.694	.020 - .040	1.617	1.390	.030 - .050
1.563	1.402	.020 - .040	1.572	1.254	.030 - .050	1.577	1.072	.090 - .110	1.598	.720	.005 - .010	1.605	.881	.015 - .030	1.618	.107	.110 - .130
1.564	.375	.048 - .075	1.572	1.255	.025 - .040	1.577	1.341	.070 - .090	1.598	1.000	.080 - .125	1.605	1.009	.105 - .125	1.618	.256	.100 - .125
1.564	.501	.025 - .040	1.572	1.258	.007 - .016	1.578	.771	.025 - .040	1.598	1.058	.005 - .010	1.605	1.134	.010 - .030	1.618	.651	.040 - .060
1.564	.511	.020 - .040	1.572	1.452	.005 - .010	1.578	1.063	.030 - .050	1.598	1.269	.050 - .070	1.605	1.348	.030 - .050	1.618	.690	.015 - .030
1.564	.700	.020 - .030	1.573	.504	.090 - .135	1.578	1.292	.020 - .030	1.599	.378	.005 - .020	1.606	.465	.105 - .125	1.618	.899	.030 - .050
1.564	.767	.010 - .020	1.573	.641	.060 - .083	1.578	1.298	.010 - .015	1.599	.489	.090 - .110	1.606	.516	.105 - .125	1.618	.963	.110 - .130
1.564	1.123	.020 - .040	1.573	.648	.010 - .020	1.579	.570	.005 - .010	1.599	.503	.005 - .010	1.606	1.000	.105 - .125	1.618	1.010	.105 - .125
1.564	1.135	.050 - .075	1.573	.731	.040 - .062	1.579	1.232	.010 - .020	1.599	.505	.005 - .020	1.607	.562	.125 - .156	1.618	1.035	.060 - .090
1.564	1.189	.005 - .010	1.573	.812	.015 - .030	1.579	1.378	.030 - .040	1.599	.626	.015 - .025	1.607	.630	.092 - .125	1.618	1.134	.005 - .010
1.564	1.309	.005 - .010	1.573	.990	.005 - .010	1.580	.785	.050 - .060	1.599	.630	.005 - .010	1.607	1.022	.030 - .060	1.618	1.180	.060 - .080
1.564	1.393	.015 - .030	1.573	1.013	.005 - .010	1.580	.795	.020 - .040	1.599	.689	.060 - .080	1.607	1.271	.025 - .040	1.618	1.382	.020 - .030
1.564	1.434	.005 - .010	1.573	1.102	.060 - .080	1.580	.829	.090 - .105	1.599	1.243	.015 - .035	1.607	1.332	.010 - .020	1.619	.838	.040 - .060
1.565	.122	.020 - .040	1.573	1.221	.030 - .050	1.580	.850	.050 - .060	1.599	1.437	.010 - .020	1.608	.811	.030 - .050	1.619	.937	.060 - .070
1.565	.562	.030 - .048	1.573	1.224	.135 - .156	1.580	.953	.110 - .130	1.600	.170	.050 - .062	1.608	1.130	.100 - .125	1.619	1.470	.010 - .020
1.565	1.192	.050 - .075	1.573	1.264	.005 - .010	1.580	1.081	.010 - .020	1.600	.253	.005 - .010	1.608	1.444	.015 - .030	1.620	.297	.080 - .105
1.565	1.228	.030 - .050	1.573	1.374	.005 - .010	1.580	1.310	.005 - .010	1.600	.281	.050 - .075	1.609	.411	.040 - .060	1.620	.408	.005 - .010
1.565	1.270	.030 - .042	1.574	.344	.105 - .125	1.580	1.472	.005 - .010	1.600	.310	.030 - .050	1.609	.594	.040 - .060	1.620	.418	.005 - .010
1.565	1.369	.050 - .075	1.574	.410	.005 - .010	1.581	.119	.005 - .010	1.600	.377	.005 - .015	1.609	.633	.090 - .120	1.620	.443	.005 - .010
1.566	.257	.070 - .090	1.574	.434	.150 - .170	1.582	.405	.040 - .060	1.600	.378	.005 - .015	1.609	.810	.025 - .040	1.620	.530	.005 - .010
1.566	.502	.105 - .125	1.574	.474	.005 - .010	1.582	.450	.010 - .020	1.600	.415	.075 - .100	1.609	.845	.012 - .020	1.620	.585	.090 - .120
1.566	.980	.005 - .010	1.574	.475	.010 - .020	1.582	.530	.040 - .060	1.600	.441	.100 - .125	1.609	1.015	.016 - .025	1.620	.592	.012 - .020
1.566	1.330	.050 - .070	1.574	.502	.010 - .020	1.582	.634	.010 - .020	1.600	.478	.090 - .120	1.609	1.260	.050 - .075	1.620	.644	.005 - .010
1.566	1.347	.035 - .050	1.574	.631	.010 - .020	1.582	1.250	.083 - .105	1.600	.502	.005 - .010	1.609	1.275	.100 - .125	1.620	.647	.005 - .010
1.566	1.416	.040 - .060	1.574	.828	.060 - .080	1.582	1.301	.005 - .010	1.600	.503	.006 - .012	1.609	1.400	.020 - .032	1.620	.713	.005 - .010
1.567	.729	.030 - .048	1.574	.984	.035 - .045	1.583	1.089	.020 - .040	1.600	.504	.005 - .020	1.609	1.468	.048 - .062	1.620	.759	.040 - .060
1.567	.935	.050 - .075	1.574	1.071	.090 - .100	1.584	.834	.005 - .010	1.600	.505	.005 - .010	1.609	1.475	.005 - .010	1.620	.812	.005 - .010
1.567	.978	.007 - .015	1.574	1.103	.015 - .030	1.584	1.009	.040 - .060	1.600	.508	.010 - .135	1.610	1.110	.015 - .030	1.620	.884	.005 - .010
1.567	.992	.010 - .020	1.574	1.130	.012 - .020	1.585	.140	.042 - .060	1.600	.510	.010 - .020	1.610	1.148	.090 - .105	1.620	.909	.005 - .010
1.567	1.004	.105 - .125	1.574	1.188	.005 - .010	1.585	.375	.070 - .090	1.600	.515	.010 - .020	1.610	1.200	.020 - .030	1.620	.920	.010 - .020
1.567	1.232	.030 - .050	1.574	1.221	.010 - .020	1.585	1.000	.032 - .050	1.600	.625	.020 - .040	1.610	1.259	.005 - .010	1.620	.940	.100 - .125
1.567	1.248	.062 - .090	1.574	1.320	.005 - .010	1.585	1.007	.010 - .030	1.600	.627	.005 - .020	1.610	1.275	.100 - .125	1.620	.963	.120 - .134
1.567	1.260	.005 - .010	1.574	1.337	.020 - .030	1.585	1.120	.005 - .015	1.600	.630	.010 - .020	1.610	1.309	.005 - .010	1.620	1.120	.110 - .135
1.567	1.311	.015 - .030	1.574	1.373	.062 - .090	1.585	1.209	.025 - .040	1.600	.634	.105 - .125	1.610	1.358	.050 - .070	1.620	1.122	.010 - .020
1.567	1.346	.015 - .030	1.574	1.416	.005 - .010	1.585	1.256	.025 - .040	1.600	.715	.105 - .120	1.610	1.404	.070 - .090	1.620	1.140	.070 - .095
1.567	1.380	.040 - .062	1.575	.355	.100 - .125	1.585	1.260	.015 - .030	1.600	.751	.005 - .010	1.610	1.422	.020 - .035	1.620	1.144	.050 - .070
1.568	.060	.040 - .050	1.575	.393	.120 - .135	1.585	1.359	.050 - .062	1.600	.754	.010 - .020	1.610	1.325	.030 - .050	1.620	1.190	.060 - .090
1.568	.675	.005 - .010	1.575	.473	.005 - .010	1.586	.141	.060 - .090	1.600	.765	.050 - .060	1.611	1.135	.005 - .010	1.620	1.261	.015 - .030
1.568	.692	.060 - .080	1.575	.477	.005 - .010	1.586	1.265	.020 - .030	1.600	.800	.005 - .010	1.611	1.410	.010 - .020	1.620	1.311	.005 - .010
1.568	1.031	.110 - .130	1.575	.502	.020 - .030	1.586	1.290	.005 - .010	1.600	.827	.005 - .010	1.612	1.135	.005 - .020	1.620	1.383	.005 - .010
1.568	1.110	.050 - .070	1.575	.503	.005 - .010	1.587	.469	.010 - .020	1.600	.874	.040 - .060	1.612	1.280	.015 - .035	1.620	1.385	.050 - .070
1.568	1.347	.005 - .010	1.575	.504	.100 - .125	1.588	.700	.050 - .070	1.600	.878	.025 - .040	1.612	1.316	.030 - .050	1.620	1.470	.020 - .030
1.568	1.420	.005 - .010	1.575	.564	.010 - .020	1.588	1.006	.005 - .010	1.600	.885	.030 - .040	1.612	1.468	.010 - .020	1.621	.319	.025 - .036
1.569	.361	.040 - .060	1.575	.591	.050 - .060	1.588	1.118	.105 - .120	1.600	.925	.080 - .100	1.612	1.499	.005 - .010	1.621	.758	.050 - .075
1.569	.504	.070 - .090	1.575	.599	.005 - .010	1.588	1.248	.020 - .035	1.600	1.000	.005 - .010	1.612	1.510	.005 - .010	1.621	1.265	.005 - .010
1.569	.589	.005 - .030	1.575	.630	.005 - .010	1.589	.505	.025 - .040	1.600	1.070	.025 - .125	1.613	.315	.025 - .040	1.621	1.275	.020 - .040

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

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

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To
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	.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	.626	.010 - .040
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
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	.231	.105 - .125
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	.536	.080 - .100
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	.768	.020 - .040
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	.937	.070 - .090
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 - .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
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
1.625	1.000	.080 - .090
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
1.626	1.134	.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	1.260	.005 - .010
1.627	1.267	.005 - .030
1.627	1.278	.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
1.631	1.503	.050 - .070
1.632	.513	.040 - .060
1.632	.565	.005 - .010
1.632	1.202	.030 - .050
1.633	.501	.015 - .030
1.633	.828	.005 - .010
1.634	1.202	.030 - .050
1.635	.787	.020 - .030
1.635	.998	.050 - .075
1.635	1.162	.050 - .070
1.635	1.326	.020 - .040
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
1.638	1.515	.015 - .030
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	1.000	.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
1.640	1.399	.015 - .030
1.640	1.440	.015 - .030
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
1.643	1.329	.050 - .070
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	1.073	.005 - .010
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	.722	.005 - .010
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	.449	.010 - .020
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
1.650	.629	.005 - .010
1.650	.630	.010 - .020
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
1.650	1.430	.070 - .090
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	.886	.070 - .090
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	.985	.015 - .030
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
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	1.291	.020 - .040
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
1.669	.987	.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
1.676	.096	.030 - .050
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	.605	.040 - .060
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

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

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
1.680	1.430	.005 - .010	1.694	.984	.005 - .010	1.708	.381	.060 - .080	1.728	1.509	.060 - .080	1.740	.503	.070 - .090	1.747	.282	.025 - .040
1.680	1.450	.032 - .060	1.694	1.260	.090 - .110	1.708	1.247	.005 - .020	1.729	.870	.020 - .040	1.740	.765	.032 - .060	1.747	.286	.005 - .010
1.681	.196	.005 - .010	1.694	1.499	.025 - .040	1.708	1.311	.030 - .050	1.729	1.361	.020 - .040	1.740	.878	.100 - .125	1.747	.314	.100 - .125
1.681	.894	.050 - .070	1.694	1.500	.005 - .015	1.708	1.312	.050 - .075	1.729	1.475	.005 - .010	1.740	1.008	.050 - .060	1.747	.333	.090 - .110
1.681	1.034	.105 - .125	1.695	.203	.040 - .060	1.709	.391	.005 - .015	1.730	.632	.005 - .010	1.740	1.058	.060 - .080	1.747	.502	.032 - .048
1.681	1.193	.020 - .040	1.695	.314	.040 - .060	1.709	.761	.156 - .187	1.730	.748	.005 - .010	1.740	1.199	.025 - .040	1.747	.515	.005 - .010
1.681	1.300	.040 - .060	1.695	.998	.005 - .010	1.710	.760	.100 - .125	1.730	1.000	.080 - .105	1.740	1.236	.105 - .125	1.747	.531	.015 - .030
1.681	1.372	.005 - .020	1.695	1.010	.100 - .125	1.710	1.093	.015 - .035	1.730	1.300	.060 - .070	1.740	1.244	.005 - .010	1.747	.543	.100 - .125
1.681	1.400	.005 - .010	1.695	1.537	.060 - .075	1.710	1.345	.005 - .010	1.730	1.330	.010 - .050	1.740	1.260	.010 - .060	1.747	.565	.050 - .075
1.682	1.016	.060 - .080	1.696	1.002	.060 - .083	1.711	1.143	.156 - .187	1.730	1.390	.040 - .060	1.740	1.261	.006 - .012	1.747	.620	.050 - .075
1.683	.819	.010 - .020	1.696	1.200	.020 - .040	1.711	1.300	.050 - .070	1.730	1.478	.010 - .020	1.740	1.313	.062 - .093	1.747	.626	.032 - .060
1.683	.918	.010 - .020	1.696	1.397	.005 - .010	1.711	1.497	.020 - .040	1.730	1.498	.040 - .060	1.740	1.380	.090 - .110	1.747	.701	.125 - .134
1.683	1.006	.050 - .075	1.696	1.452	.080 - .105	1.712	.905	.025 - .040	1.730	1.541	.015 - .030	1.740	1.530	.005 - .010	1.747	.815	.010 - .020
1.683	1.298	.090 - .105	1.697	.453	.100 - .125	1.712	1.617	.005 - .010	1.731	.476	.005 - .010	1.740	1.531	.015 - .030	1.747	.885	.100 - .125
1.684	1.188	.005 - .010	1.697	.861	.090 - .125	1.713	1.500	.050 - .070	1.731	.748	.015 - .030	1.740	1.535	.040 - .060	1.747	.892	.075 - .105
1.684	1.389	.025 - .040	1.697	1.308	.105 - .125	1.714	1.408	.050 - .062	1.731	.828	.090 - .105	1.740	1.600	.005 - .010	1.747	.906	.120 - .140
1.684	1.442	.005 - .010	1.697	1.328	.005 - .010	1.714	1.409	.050 - .070	1.731	.854	.070 - .090	1.740	1.609	.020 - .040	1.747	.908	.010 - .020
1.684	1.525	.015 - .030	1.697	1.338	.010 - .020	1.714	1.513	.025 - .042	1.731	.866	.080 - .100	1.741	1.010	.025 - .040	1.747	.918	.070 - .090
1.684	1.562	.040 - .050	1.698	.131	.015 - .030	1.714	1.541	.040 - .060	1.731	.881	.040 - .060	1.741	1.239	.030 - .050	1.747	1.006	.110 - .130
1.685	.340	.025 - .042	1.698	.453	.100 - .125	1.714	1.613	.005 - .010	1.731	1.135	.005 - .010	1.742	.198	.050 - .075	1.747	1.030	.020 - .040
1.685	.425	.050 - .083	1.698	.502	.015 - .030	1.715	.185	.060 - .080	1.731	1.195	.025 - .040	1.742	1.020	.020 - .060	1.747	1.253	.005 - .010
1.685	.495	.032 - .060	1.698	.626	.010 - .020	1.715	.188	.020 - .030	1.731	1.255	.040 - .050	1.742	1.459	.010 - .020	1.747	1.255	.005 - .025
1.685	.782	.020 - .040	1.698	.715	.090 - .105	1.715	.950	.050 - .080	1.731	1.497	.030 - .050	1.742	1.512	.060 - .070	1.747	1.309	.050 - .075
1.685	1.065	.032 - .060	1.698	.753	.060 - .090	1.715	1.033	.060 - .080	1.731	1.585	.010 - .020	1.742	1.555	.050 - .070	1.747	1.315	.060 - .070
1.685	1.070	.040 - .050	1.698	.760	.080 - .100	1.715	1.513	.015 - .030	1.732	.186	.010 - .020	1.743	.315	.010 - .032	1.747	1.340	.005 - .010
1.685	1.190	.010 - .020	1.698	1.449	.005 - .010	1.715	1.551	.005 - .010	1.732	.473	.005 - .010	1.743	.505	.015 - .020	1.747	1.376	.020 - .030
1.685	1.269	.062 - .080	1.699	.625	.015 - .030	1.716	.405	.090 - .120	1.732	.545	.005 - .010	1.743	.511	.005 - .010	1.747	1.394	.042 - .062
1.685	1.300	.050 - .060	1.699	.754	.010 - .020	1.716	.720	.050 - .075	1.732	.630	.005 - .010	1.743	.532	.100 - .125	1.747	1.395	.005 - .010
1.685	1.360	.020 - .030	1.699	.949	.050 - .060	1.716	.953	.050 - .070	1.732	.631	.010 - .020	1.743	1.220	.020 - .030	1.747	1.449	.005 - .010
1.685	1.567	.032 - .050	1.699	1.404	.005 - .010	1.716	1.312	.020 - .040	1.732	.695	.007 - .012	1.743	1.225	.015 - .030	1.747	1.451	.015 - .025
1.685	1.568	.040 - .060	1.699	1.503	.015 - .030	1.717	.410	.075 - .090	1.732	.748	.005 - .030	1.743	1.339	.090 - .105	1.747	1.499	.015 - .030
1.686	.317	.020 - .040	1.700	.125	.100 - .125	1.717	.758	.040 - .060	1.732	.750	.070 - .080	1.743	1.503	.020 - .030	1.747	1.222	.005 - .010
1.686	.345	.050 - .070	1.700	.204	.100 - .125	1.717	1.186	.015 - .030	1.732	.993	.005 - .010	1.743	1.536	.040 - .060	1.748	.116	.015 - .030
1.686	.350	.005 - .010	1.700	.206	.100 - .120	1.717	1.619	.015 - .030	1.732	1.257	.040 - .060	1.744	1.254	.020 - .040	1.748	.256	.010 - .020
1.686	1.070	.005 - .012	1.700	.364	.100 - .125	1.718	.360	.050 - .070	1.732	1.338	.040 - .060	1.744	1.322	.010 - .020	1.748	.266	.042 - .060
1.686	1.190	.015 - .030	1.700	.500	.005 - .020	1.718	.630	.015 - .030	1.732	1.387	.025 - .040	1.744	1.398	.020 - .040	1.748	.267	.030 - .042
1.686	1.270	.015 - .030	1.700	.502	.005 - .010	1.718	.656	.100 - .125	1.732	1.420	.020 - .040	1.744	1.447	.030 - .050	1.748	.278	.005 - .010
1.686	1.383	.016 - .025	1.700	.505	.010 - .020	1.718	.705	.135 - .156	1.732	1.429	.010 - .020	1.744	1.503	.020 - .040	1.748	.281	.048 - .062
1.686	1.560	.005 - .010	1.700	.578	.005 - .010	1.718	1.130	.060 - .083	1.732	1.630	.010 - .020	1.744	1.505	.030 - .105	1.748	.315	.062 - .083
1.687	.255	.080 - .104	1.700	.579	.090 - .100	1.718	1.187	.100 - .125	1.733	.634	.010 - .020	1.744	1.567	.005 - .010	1.748	.395	.010 - .025
1.687	.375	.030 - .050	1.700	.585	.135 - .156	1.718	1.402	.005 - .010	1.733	.992	.015 - .030	1.745	.125	.032 - .060	1.748	.495	.020 - .030
1.687	.406	.105 - .135	1.700	.726	.005 - .010	1.719	.481	.090 - .110	1.733	1.257	.030 - .050	1.745	.162	.015 - .030	1.748	.562	.100 - .125
1.687	.484	.060 - .080	1.700	.860	.090 - .105	1.719	1.063	.030 - .050	1.733	1.357	.040 - .050	1.745	.195	.005 - .012	1.748	.627	.060 - .080
1.687	.562	.005 - .020	1.700	.938	.135 - .156	1.719	1.133	.100 - .125	1.733	1.506	.050 - .075	1.745	.315	.060 - .080	1.748	.752	.005 - .030
1.687	.634	.030 - .050	1.700	.990	.030 - .040	1.719	1.275	.070 - .090	1.733	1.575	.010 - .020	1.745	.503	.100 - .125	1.748	.756	.005 - .050
1.687	.756	.030 - .050	1.700	1.000	.060 - .083	1.719	1.378	.050 - .070	1.734	.253	.105 - .125	1.745	.505	.105 - .125	1.748	.759	.020 - .030
1.687	.893	.005 - .010	1.700	1.190	.020 - .080	1.719	1.400	.020 - .030	1.734	.924	.005 - .010	1.745	.636	.005 - .010	1.748	.765	.050 - .070
1.687	1.226	.030 - .050	1.700	1.192	.100 - .125	1.719	1.555	.005 - .010	1.734	1.257	.100 - .115	1.745	.640	.020 - .030	1.748	.767	.100 - .125
1.687	1.312	.030 - .040	1.700	1.223	.050 - .075	1.719	1.592	.030 - .050	1.734	1.382	.070 - .090	1.745	.647	.005 - .010	1.748	.770	.010 - .020
1.687	1.520	.060 - .070	1.700	1.250	.005 - .012	1.720	.217	.040 - .070	1.734	1.399	.005 - .010	1.745	.695	.100 - .125	1.748	.781	.050 - .075
1.687	1.534	.005 - .010	1.700	1.340	.005 - .010	1.720	.250	.042 - .062	1.734	1.451	.005 - .010	1.745	.885	.050 - .070	1.748	.785	.100 - .125
1.688	.635	.015 - .030	1.700	1.380	.005 - .010	1.720	.257	.070 - .080	1.734	1.536	.015 - .030	1.745	1.073	.010 - .020	1.748	.875	.020 - .040
1.688	.686	.100 - .125	1.700	1.385	.040 - .060	1.720	.265	.052 - .083	1.735	.113	.030 - .050	1.745	1.101	.015 - .030	1.748	.878	.005 - .010
1.688	1.090	.070 - .090	1.700	1.389	.005 - .010	1.720	.503	.005 - .010	1.735	.378	.030 - .050	1.745	1.109	.010 - .020	1.748	.906	.050 - .070
1.688	1.097	.030 - .050	1.700	1.451	.005 - .010	1.720	.655	.025 - .040	1.735	.896	.080 - .105	1.745	1.133	.010 - .020	1.748	1.019	.060 - .083
1.688	1.262	.050 - .075	1.700	1.504	.030 - .050	1.720	.718	.005 - .010	1.735	1.259	.125 - .156	1.745	1.165	.005 - .010	1.748	1.029	.005 - .010
1.688	1.432	.030 - .050	1.700	1.515	.012 - .020	1.720	.760	.105 - .125	1.735	1.265	.015 - .030	1.745	1.196	.020 - .040	1.748	1.060	.010 - .020
1.688	1.507	.040 - .060	1.700	1.542	.010 - .020	1.720	1.000	.060 - .083	1.735	1.399	.005 - .010	1.745	1.370	.025 - .040	1.748	1.072	.005 - .010
1.689	.517	.075 - .105	1.700	1.187	.010 - .020	1.720	1.225	.008 - .015	1.735	1.438	.075 - .090	1.745	1.375	.005 - .010	1.748	1.136	.075 - .090
1.689	.940	.090 - .125	1.701	.560	.010 - .020	1.720	1.400	.015 - .030	1.735	1.513	.093 - .105	1.745	1.448	.020 - .030	1.748	1.161	.040 - .060
1.689	1.230	.100 - .125	1.701	1.266	.015 - .030	1.720	1.464	.010 - .020	1.735	1.565	.005 - .010	1.745	1.511	.005 - .010	1.748	1.264	.015 - .030
1.689	1.376	.020 - .030	1.701	1.385	.030 - .050	1.721	1.306	.050 - .075	1.736	.475	.005 - .010	1.745	1.560	.010 - .020	1.748	1.293	.070 - .090
1.690	.125	.020 - .040	1.701	1.450	.040 - .060	1.721	1.408	.005 - .010	1.736	1.149	.030 - .060	1.745	1.561	.015 - .025	1.748	1.299	.005 - .010
1.690	.410	.105 - .125	1.702	.208	.040 - .060	1.721	1.514	.020 - .030	1.736	1.253	.060 - .080	1.746	.373	.060 - .080	1.748	1.316	.070 - .090
1.690	.711	.050 - .070	1.702	.820	.080 - .100	1.722	.417	.005 - .010	1.737	.350	.015 - .030	1.746	.443	.005 - .010	1.748	1.320	.040 - .060
1.690	.890	.080 - .104	1.702	.825	.156 - .190	1.722	.752	.045 - .060	1.737	.401	.005 - .010	1.746	.497	.025 - .040	1.748	1.374	.100 - .125
1.690	1.163	.040 - .050	1.702	1.000	.010 - .020	1.722	1.515	.060 - .080	1.737	1.501	.040 - .060	1.746	.595	.005 - .010	1.748	1.380	.020 - .040
1.690	1.187	.020 - .040	1.702	1.120	.050 - .070	1.723	.265	.050 - .083	1.737	1.502	.005 - .010	1.746	.781	.100 - .125	1.748	1.499	.015 - .030
1.690	1.303	.030 - .050	1.703	.114	.005 - .015	1.723	.354	.060 - .080	1.738	.771	.015 - .025	1.746	.906	.100 - .125	1.748	1.511	.062 - .083
1.690	1.378	.030 - .060	1.703	1.320	.050 - .075	1.723	.686	.110 - .130	1.738	.882	.090 - .105	1.746	1.001	.040 - .062	1.748	1.650	.005 - .010
1.690	1.559	.005 - .010	1.703	1.386	.005 - .010	1.723	1.415	.020 - .040	1.738	.991	.010 - .020	1.746	1.046	.075 - .090	1.749	.100	.025 - .040
1.691	.772	.010 - .020	1.704	.114	.005 - .010	1.723	1.513	.070 - .090	1.738	1.249	.005 - .010	1.746	1.066	.005 - .010	1.749	.141	.060 - .080
1.691	1.083	.005 - .010	1.704	.169	.010 - .025	1.724	.375	.040 - .060	1.738	1.257	.005 - .020	1.746	1.133	.040 - .060	1.749	.211	.105 - .125
1.691	1.300	.050 - .060	1.705	1.250	.005 - .012	1.724	1.195	.060 - .080	1.738	1.260	.070 - .090	1.746	1.141	.005 - .010	1.749	.270	.075 - .090
1.691	1.477	.005 - .010	1.705	1.418	.015 - .030	1.725	1.350	.040 - .062	1.738	1.548	.005 - .015	1.746	1.169	.060 - .080	1.749	.281	.050 - .075
1.691	1.563	.005 - .010	1.706	.439	.040 - .060	1.725	1.410	.005 - .010	1.739	1.114	.030 - .050	1.746	1.190	.090 - .125	1.749	.335	.005 - .010
1.692	.885	.080 - .100	1.706	.586	.070 - .090	1.726	1.134	.050 - .070	1.739	1.302	.020 - .040	1.746	1.254	.100 - .125	1.749	.350	.060 - .080
1.693	.803	.040 - .060	1.706	.776	.070 - .090	1.726	1.385	.030 - .050	1.739	1.446	.040 - .060	1.746	1.320	.005 - .010	1.749	.375	.005 - .010
1.693	1.122	.010 - .020	1.707	.780	.005 - .010	1.727	1.623	.020 - .035	1.740	.362	.050 - .070	1.746	1.448	.050 - .075	1.749	.381	.005 - .010
1.694	.723	.005 - .010	1.707	1.002	.105 - .135	1.728	.878	.100 - .125	1.740	.501	.025 - .040	1.746	1.535	.060 - .080	1.749	.389	.156 - .187

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

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
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
1.749	1.400	.010 - .020
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	.204	.105 - .125
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	.320	.100 - .120
1.750	.342	.050 - .080
1.750	.343	.100 - .125
1.750	.365	.105 - .125
1.750	.375	.090 - .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	.500	.120 - .140
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	.551	.060 - .080
1.750	.562	.005 - .187
1.750	.564	.010 - .020
1.750	.566	.105 - .125
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	.631	.005 - .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
1.750	.812	.042 - .156
1.750	.815	.005 - .030
1.750	.820	.100 - .125
1.750	.825	.090 - .105
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	1.193	.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 - .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	1.438	.040 - .060
1.750	1.443	.090 - .105
1.750	1.450	.040 - .060
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
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
1.750	1.141	.060 - .080
1.750	1.261	.040 - .060
1.750	1.615	.020 - .040
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	1.302	.005 - .010
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	1.051	.020 - .040
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	1.323	.005 - .010
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	.186	.060 - .080
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	.445	.015 - .030
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
1.761	.699	.080 - .105
1.762	.408	.015 - .030
1.762	.538	.090 - .110
1.762	.950	.140 - .160
1.762	1.388	.060 - .080
1.763	.505	.030 - .040
1.763	.547	.090 - .105
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	.394	.005 - .010
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
1.765	1.569	.020 - .040
1.766	1.382	.060 - .080
1.767	1.607	.015 - .030
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	.439	.005 - .010
1.770	.781	.050 - .070
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
1.770	1.569	.020 - .040
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	.010 - .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
1.773	1.500	.010 - .020
1.774	.127	.015 - .030
1.774	1.182	.040 - .060
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
1.778	1.682	.030 - .050
1.779	.999	.050 - .070
1.779	1.057	.005 - .010
1.779	1.380	.010 - .020
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
1.780	1.250	.015 - .030
1.780	1.379	.040 - .060
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	.308	.050 - .070
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	.508	.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	.900	.135 - .156
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	1.251	.010 - .020
1.800	1.268	.020 - .030
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	.502	.005 - .010
1.801	.505	.010 - .020
1.801	.751	.005 - .010
1.801	1.501	.050 - .070

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

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
1.801	1.610	.020 - .030	1.812	1.436	.040 - .060	1.835	1.620	.010 - .020	1.850	.502	.010 - .020	1.870	.505	.100 - .125	1.874	1.202	.015 - .025
1.801	1.611	.010 - .020	1.812	1.444	.040 - .060	1.836	1.646	.005 - .010	1.850	.505	.010 - .020	1.870	.642	.005 - .010	1.874	1.257	.070 - .090
1.802	.425	.040 - .060	1.812	1.445	.020 - .040	1.837	1.343	.005 - .010	1.850	.510	.005 - .010	1.870	.661	.105 - .125	1.874	1.282	.010 - .070
1.802	1.257	.005 - .010	1.812	1.480	.050 - .075	1.837	1.345	.005 - .015	1.850	.561	.170 - .190	1.870	.696	.060 - .080	1.874	1.331	.005 - .010
1.803	.712	.070 - .090	1.812	1.498	.010 - .020	1.838	.126	.030 - .050	1.850	.625	.030 - .040	1.870	.698	.050 - .075	1.874	1.443	.050 - .070
1.803	.760	.060 - .080	1.812	1.510	.005 - .010	1.838	.419	.005 - .010	1.850	.626	.010 - .020	1.870	.795	.040 - .060	1.874	1.450	.150 - .170
1.803	.906	.020 - .032	1.812	1.522	.020 - .040	1.838	1.371	.040 - .060	1.850	.967	.100 - .120	1.870	.880	.042 - .062	1.874	1.479	.020 - .030
1.803	1.362	.040 - .060	1.812	1.523	.030 - .050	1.838	1.571	.030 - .050	1.850	1.071	.060 - .080	1.870	.901	.005 - .010	1.874	1.515	.010 - .020
1.804	1.270	.010 - .020	1.812	1.524	.015 - .030	1.839	1.251	.025 - .030	1.850	1.107	.005 - .010	1.870	.909	.015 - .030	1.874	1.595	.030 - .045
1.804	1.366	.005 - .010	1.812	1.563	.015 - .030	1.839	1.382	.005 - .010	1.850	1.122	.005 - .020	1.870	.911	.005 - .010	1.874	1.625	.015 - .030
1.805	.338	.005 - .010	1.813	.251	.083 - .104	1.840	.249	.060 - .075	1.850	1.199	.040 - .050	1.870	1.004	.020 - .030	1.874	1.627	.025 - .040
1.805	.375	.090 - .105	1.813	.751	.025 - .040	1.840	.509	.050 - .070	1.850	1.310	.005 - .007	1.870	1.032	.105 - .125	1.874	1.752	.010 - .020
1.805	.550	.025 - .040	1.813	.754	.030 - .040	1.840	.679	.050 - .070	1.850	1.391	.010 - .020	1.870	1.196	.010 - .020	1.874	1.588	.020 - .040
1.805	1.117	.020 - .040	1.813	.906	.025 - .040	1.840	.700	.030 - .040	1.850	1.438	.100 - .120	1.870	1.273	.010 - .020	1.875	.125	.030 - .050
1.805	1.375	.030 - .060	1.813	.938	.005 - .010	1.840	1.000	.020 - .040	1.850	1.570	.020 - .050	1.870	1.392	.010 - .015	1.875	.159	.010 - .020
1.805	1.398	.005 - .010	1.813	1.140	.156 - .187	1.840	1.005	.005 - .010	1.850	1.581	.005 - .010	1.870	1.418	.005 - .010	1.875	.204	.100 - .125
1.805	1.565	.010 - .020	1.813	1.266	.090 - .105	1.840	1.008	.090 - .105	1.850	1.651	.120 - .135	1.870	1.419	.010 - .020	1.875	.250	.050 - .105
1.805	1.584	.015 - .030	1.813	1.323	.010 - .020	1.840	1.336	.050 - .075	1.850	1.685	.015 - .025	1.870	1.504	.025 - .040	1.875	.317	.015 - .030
1.805	1.591	.070 - .090	1.813	1.394	.040 - .060	1.840	1.343	.010 - .020	1.851	1.505	.025 - .040	1.870	1.513	.060 - .090	1.875	.320	.105 - .125
1.805	1.718	.005 - .010	1.813	1.585	.010 - .020	1.840	1.424	.050 - .075	1.851	1.590	.005 - .012	1.870	1.713	.050 - .060	1.875	.375	.040 - .060
1.806	.206	.040 - .050	1.814	1.000	.100 - .125	1.840	1.425	.065 - .080	1.851	1.630	.005 - .025	1.871	1.009	.005 - .010	1.875	.408	.060 - .080
1.806	.350	.005 - .010	1.814	1.300	.025 - .050	1.840	1.479	.040 - .060	1.852	.290	.020 - .030	1.871	1.260	.156 - .187	1.875	.409	.090 - .120
1.806	1.344	.015 - .030	1.815	.323	.005 - .016	1.840	1.519	.040 - .060	1.852	.560	.070 - .090	1.871	1.377	.050 - .070	1.875	.437	.005 - .010
1.806	1.655	.030 - .050	1.815	.410	.070 - .110	1.840	1.600	.010 - .020	1.852	.629	.005 - .010	1.871	1.417	.060 - .080	1.875	.450	.105 - .125
1.806	1.660	.005 - .010	1.815	.523	.010 - .020	1.841	.377	.110 - .130	1.852	1.165	.035 - .045	1.871	1.770	.015 - .030	1.875	.510	.090 - .125
1.806	1.690	.030 - .050	1.815	.772	.100 - .125	1.841	.402	.040 - .060	1.852	1.378	.005 - .010	1.872	.626	.050 - .075	1.875	.620	.062 - .075
1.807	.166	.035 - .050	1.815	.775	.125 - .135	1.841	.551	.105 - .125	1.852	1.590	.008 - .015	1.872	.632	.156 - .187	1.875	.626	.015 - .030
1.807	.461	.050 - .075	1.815	1.024	.020 - .040	1.841	1.189	.015 - .040	1.854	1.658	.020 - .030	1.872	.756	.005 - .010	1.875	.629	.040 - .060
1.807	1.007	.050 - .070	1.815	1.192	.080 - .100	1.841	1.404	.005 - .010	1.855	1.416	.030 - .050	1.872	.891	.005 - .010	1.875	.632	.104 - .135
1.807	1.209	.090 - .105	1.815	1.523	.015 - .030	1.841	1.407	.005 - .010	1.855	1.500	.125 - .135	1.872	.909	.010 - .025	1.875	.718	.062 - .075
1.807	1.223	.005 - .010	1.816	.751	.010 - .020	1.841	1.569	.005 - .010	1.856	1.263	.105 - .125	1.872	1.260	.075 - .135	1.875	.757	.005 - .010
1.807	1.438	.040 - .060	1.816	1.338	.020 - .030	1.842	.378	.100 - .125	1.857	.586	.020 - .030	1.872	1.318	.040 - .060	1.875	.781	.075 - .090
1.807	1.518	.030 - .060	1.818	.631	.020 - .030	1.842	.640	.025 - .040	1.857	.710	.090 - .125	1.872	1.387	.005 - .010	1.875	.875	.015 - .030
1.808	.690	.030 - .050	1.818	1.065	.015 - .030	1.842	.828	.005 - .010	1.857	1.435	.005 - .012	1.872	1.509	.005 - .010	1.875	.876	.010 - .020
1.808	1.534	.010 - .020	1.818	1.404	.025 - .040	1.842	1.098	.080 - .100	1.858	1.340	.020 - .030	1.872	1.513	.005 - .010	1.875	.890	.110 - .130
1.809	.096	.040 - .060	1.818	1.406	.020 - .030	1.842	1.251	.090 - .125	1.858	1.360	.025 - .040	1.873	.177	.050 - .070	1.875	.891	.040 - .060
1.809	.463	.025 - .040	1.818	1.498	.040 - .060	1.842	1.531	.040 - .060	1.859	.389	.050 - .075	1.873	.252	.005 - .015	1.875	.906	.105 - .125
1.809	1.063	.093 - .113	1.818	1.502	.020 - .030	1.842	1.643	.025 - .040	1.859	.818	.005 - .010	1.873	.386	.090 - .125	1.875	.936	.105 - .135
1.809	1.121	.105 - .120	1.818	1.572	.005 - .010	1.843	.316	.015 - .030	1.859	1.435	.005 - .010	1.873	.478	.005 - .010	1.875	1.061	.050 - .070
1.809	1.437	.005 - .008	1.819	.450	.010 - .020	1.843	.816	.025 - .035	1.859	1.642	.060 - .080	1.873	.625	.100 - .125	1.875	1.072	.070 - .090
1.810	.100	.020 - .050	1.819	1.580	.005 - .008	1.843	.880	.005 - .040	1.860	.201	.050 - .075	1.873	.750	.100 - .125	1.875	1.093	.025 - .040
1.810	.167	.093 - .125	1.820	.447	.010 - .020	1.843	1.188	.020 - .050	1.860	.620	.105 - .125	1.873	.844	.105 - .135	1.875	1.113	.080 - .104
1.810	.180	.015 - .030	1.820	.630	.010 - .020	1.843	1.381	.005 - .010	1.860	.631	.010 - .020	1.873	.882	.015 - .030	1.875	1.135	.050 - .070
1.810	.756	.156 - .190	1.820	1.013	.005 - .010	1.843	1.455	.038 - .060	1.860	1.268	.025 - .050	1.873	1.140	.100 - .125	1.875	1.140	.010 - .042
1.810	.824	.005 - .010	1.820	1.450	.020 - .090	1.843	1.456	.030 - .050	1.860	1.345	.030 - .040	1.873	1.260	.065 - .080	1.875	1.142	.007 - .016
1.810	.875	.040 - .060	1.820	1.515	.005 - .010	1.843	1.706	.020 - .040	1.860	1.445	.050 - .075	1.873	1.349	.030 - .050	1.875	1.152	.005 - .010
1.810	1.059	.090 - .120	1.821	1.006	.050 - .075	1.844	.260	.105 - .125	1.861	1.446	.005 - .010	1.873	1.381	.090 - .125	1.875	1.156	.032 - .125
1.810	1.066	.040 - .060	1.821	1.585	.020 - .040	1.844	.418	.010 - .020	1.862	1.510	.012 - .025	1.873	1.386	.100 - .134	1.875	1.171	.100 - .125
1.810	1.130	.100 - .125	1.822	1.270	.040 - .060	1.844	.816	.005 - .010	1.863	.650	.005 - .010	1.873	1.437	.100 - .125	1.875	1.188	.015 - .070
1.810	1.464	.005 - .010	1.822	1.586	.030 - .050	1.844	1.098	.050 - .075	1.863	.819	.005 - .010	1.873	1.444	.062 - .075	1.875	1.244	.040 - .062
1.810	1.518	.040 - .062	1.823	.434	.050 - .070	1.844	1.100	.030 - .050	1.863	1.361	.110 - .130	1.873	1.508	.005 - .020	1.875	1.250	.020 - .040
1.810	1.583	.005 - .060	1.823	1.066	.020 - .040	1.844	1.263	.005 - .010	1.863	1.375	.090 - .110	1.873	1.533	.005 - .010	1.875	1.254	.005 - .010
1.811	.275	.005 - .010	1.823	1.135	.010 - .100	1.844	1.624	.005 - .010	1.863	1.501	.105 - .125	1.873	1.639	.005 - .010	1.875	1.258	.030 - .050
1.811	.313	.050 - .060	1.823	1.205	.020 - .030	1.845	.140	.040 - .060	1.863	1.577	.005 - .010	1.873	1.671	.005 - .015	1.875	1.259	.020 - .040
1.811	.501	.030 - .050	1.823	1.250	.035 - .050	1.845	.391	.050 - .070	1.864	1.482	.005 - .010	1.873	1.734	.010 - .020	1.875	1.260	.060 - .090
1.811	1.013	.100 - .125	1.824	1.083	.060 - .080	1.845	.661	.105 - .125	1.865	.354	.070 - .090	1.874	.219	.100 - .134	1.875	1.310	.040 - .062
1.811	1.144	.020 - .030	1.825	1.140	.005 - .010	1.845	1.190	.105 - .125	1.865	.770	.050 - .070	1.874	.252	.005 - .010	1.875	1.355	.070 - .090
1.811	1.314	.100 - .125	1.827	1.320	.062 - .090	1.845	1.201	.020 - .030	1.865	.888	.050 - .062	1.874	.266	.070 - .090	1.875	1.359	.015 - .030
1.811	1.379	.005 - .010	1.827	1.481	.015 - .025	1.845	1.250	.040 - .060	1.865	1.023	.100 - .125	1.874	.281	.020 - .050	1.875	1.370	.060 - .083
1.811	1.521	.025 - .040	1.828	1.420	.050 - .060	1.845	1.312	.048 - .075	1.865	1.123	.100 - .125	1.874	.282	.015 - .060	1.875	1.375	.006 - .030
1.811	1.540	.090 - .120	1.829	1.520	.005 - .010	1.845	1.384	.015 - .030	1.865	1.134	.075 - .100	1.874	.375	.100 - .125	1.875	1.379	.005 - .075
1.811	1.203	.050 - .070	1.830	.975	.010 - .020	1.845	1.568	.025 - .035	1.865	1.390	.040 - .060	1.874	.376	.070 - .125	1.875	1.384	.042 - .062
1.812	.213	.010 - .125	1.830	1.059	.105 - .125	1.845	1.569	.005 - .010	1.865	1.502	.025 - .040	1.874	.381	.005 - .010	1.875	1.386	.030 - .050
1.812	.246	.005 - .010	1.830	1.083	.080 - .100	1.845	1.623	.005 - .010	1.867	.315	.100 - .125	1.874	.398	.030 - .040	1.875	1.394	.090 - .105
1.812	.251	.005 - .010	1.830	1.530	.050 - .070	1.846	.792	.080 - .120	1.867	.334	.040 - .060	1.874	.409	.100 - .120	1.875	1.453	.040 - .060
1.812	.328	.156 - .187	1.830	1.627	.042 - .060	1.846	1.312	.020 - .030	1.867	1.387	.040 - .060	1.874	.440	.170 - .190	1.875	1.502	.105 - .125
1.812	.456	.060 - .080	1.830	1.460	.005 - .010	1.846	1.401	.050 - .070	1.867	1.438	.100 - .125	1.874	.625	.015 - .030	1.875	1.503	.005 - .032
1.812	.629	.005 - .010	1.831	1.200	.020 - .030	1.846	1.441	.125 - .156	1.868	.897	.040 - .060	1.874	.628	.040 - .060	1.875	1.505	.040 - .083
1.812	.751	.156 - .187	1.832	.156	.030 - .048	1.847	.375	.005 - .010	1.868	1.063	.040 - .060	1.874	.631	.105 - .125	1.875	1.512	.105 - .125
1.812	.792	.035 - .048	1.832	.764	.015 - .030	1.847	1.442	.120 - .135	1.869	.380	.040 - .060	1.874	.713	.005 - .012	1.875	1.550	.020 - .050
1.812	1.062	.075 - .100	1.833	1.382	.050 - .070	1.848	.258	.005 - .010	1.869	.405	.020 - .040	1.874	.749	.070 - .090	1.875	1.568	.060 - .090
1.812	1.124	.050 - .075	1.833	1.589	.015 - .030	1.848	.332	.050 - .070	1.869	.501	.110 - .135	1.874	.822	.050 - .062	1.875	1.585	.010 - .020
1.812	1.130	.090 - .125	1.834	.764	.020 - .032	1.848	.485	.020 - .040	1.869	1.136	.005 - .010	1.874	.875	.110 - .130	1.875	1.640	.050 - .070
1.812	1.156	.080 - .104	1.834	1.382	.005 - .010	1.849	.375	.090 - .105	1.869	1.277	.050 - .105	1.874	.879	.005 - .020	1.875	1.681	.050 - .070
1.812	1.188	.050 - .080	1.834	1.384	.005 - .010	1.849	1.081	.060 - .070	1.869	1.283	.090 - .105	1.874	.883	.005 - .010	1.875	1.688	.005 - .015
1.812	1.300	.030 - .050	1.834	1.574	.015 - .030	1.849	1.333	.083 - .100	1.869	1.438	.050 - .062	1.874	.907	.080 - .105	1.875	1.707	.025 - .040
1.812	1.312	.010 - .015	1.835	.255	.020 - .030	1.849	1.731	.010 - .020	1.869	1.567	.025 - .040	1.874	.951	.050 - .070	1.876	.512	.105 - .125
1.812	1.381	.050 - .075	1.835	.430	.005 - .010	1.850	.252	.030 - .050	1.870	.080	.020 - .040	1.874	1.031	.020 - .040	1.876	.533	.105 - .125
1.812	1.402	.015 - .030	1.835	1.382	.030 - .060	1.850	.366	.050 - .070	1.870	.315	.105 - .125	1.874	1.045	.025 - .040	1.876	.659	.080 - .100
1.812	1.410	.030 - .050	1.835	1.501	.005 - .010	1.850	.440	.005 - .020	1.870	.500	.100 - .125	1.874	1.180	.030 - .050	1.876	.669	.100 - .125

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Need Disks? All O.D. sizes available with no I.D. — (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
1.876	.754	.062 - .083
1.876	.765	.125 - .156
1.876	1.007	.015 - .032
1.876	1.129	.015 - .030
1.876	1.156	.105 - .135
1.876	1.257	.105 - .135
1.876	1.260	.005 - .040
1.876	1.265	.025 - .040
1.876	1.380	.010 - .020
1.876	1.381	.015 - .040
1.876	1.382	.020 - .040
1.876	1.438	.100 - .125
1.876	1.508	.020 - .060
1.876	1.592	.090 - .105
1.876	1.645	.020 - .040
1.876	1.752	.020 - .030
1.876	1.764	.010 - .020
1.877	.320	.100 - .125
1.877	.525	.015 - .030
1.877	1.008	.015 - .030
1.877	1.376	.005 - .010
1.877	1.505	.070 - .090
1.877	1.525	.015 - .030
1.877	1.527	.050 - .070
1.877	1.563	.025 - .040
1.877	1.637	.030 - .040
1.878	.621	.005 - .020
1.878	.655	.090 - .120
1.878	.690	.005 - .010
1.878	.754	.125 - .156
1.878	.812	.105 - .125
1.878	1.053	.005 - .010
1.878	1.500	.060 - .080
1.878	1.505	.010 - .020
1.878	1.650	.030 - .040
1.879	.523	.005 - .010
1.879	1.029	.120 - .135
1.879	1.130	.005 - .010
1.879	1.140	.005 - .010
1.879	1.255	.070 - .090
1.879	1.431	.060 - .070
1.879	1.463	.015 - .030
1.879	1.501	.015 - .030
1.879	1.563	.025 - .040
1.879	1.605	.025 - .040
1.879	1.687	.010 - .020
1.880	.585	.156 - .187
1.880	.960	.005 - .010
1.880	1.000	.050 - .070
1.880	1.131	.025 - .040
1.880	1.193	.015 - .030
1.880	1.272	.040 - .060
1.880	1.392	.070 - .080
1.880	1.465	.005 - .010
1.880	1.759	.005 - .010
1.880	1.774	.010 - .020
1.880	1.814	.015 - .030
1.880	1.020	.020 - .040
1.880	1.745	.010 - .020
1.881	.786	.010 - .025
1.881	1.204	.015 - .030
1.881	1.281	.040 - .060
1.881	1.424	.005 - .010
1.882	.887	.060 - .100
1.883	1.035	.060 - .080
1.883	1.585	.040 - .060
1.884	1.010	.015 - .040
1.884	1.494	.050 - .075
1.884	1.577	.040 - .050
1.884	1.585	.030 - .060
1.885	.327	.025 - .035
1.885	.376	.060 - .080
1.885	.956	.062 - .090
1.885	.985	.080 - .105
1.885	1.060	.042 - .062
1.885	1.136	.060 - .080
1.885	1.157	.062 - .090
1.885	1.380	.062 - .090
1.886	.763	.110 - .130
1.886	.985	.100 - .125
1.886	1.188	.005 - .010
1.886	1.382	.060 - .080
1.886	1.397	.005 - .010
1.886	1.398	.005 - .010
1.886	1.446	.050 - .075
1.887	.670	.040 - .060
1.887	1.186	.010 - .020
1.887	1.300	.040 - .060
1.888	.755	.005 - .010
1.888	.788	.050 - .070
1.889	.760	.015 - .030
1.890	.380	.105 - .135
1.890	.512	.005 - .010
1.890	.630	.005 - .010
1.890	.648	.105 - .125
1.890	1.023	.010 - .025
1.890	1.220	.040 - .090
1.890	1.256	.040 - .060
1.890	1.378	.030 - .050
1.890	1.384	.005 - .010
1.890	1.389	.010 - .020
1.890	1.496	.020 - .040
1.890	1.510	.010 - .020
1.890	1.562	.005 - .010
1.890	1.614	.040 - .060
1.891	1.000	.008 - .015
1.891	1.719	.010 - .020
1.891	1.339	.040 - .060
1.892	.989	.005 - .010
1.892	1.367	.100 - .125
1.892	1.719	.005 - .010
1.893	.508	.104 - .125
1.893	.535	.100 - .125
1.894	.868	.020 - .030
1.894	1.180	.005 - .010
1.894	1.535	.050 - .070
1.895	.378	.100 - .125
1.895	1.159	.005 - .010
1.895	1.582	.015 - .030
1.896	.508	.105 - .135
1.896	.752	.005 - .010
1.896	.761	.005 - .010
1.897	.309	.005 - .010
1.897	1.414	.005 - .010
1.898	.305	.005 - .010
1.898	.511	.120 - .135
1.898	.629	.010 - .020
1.898	.636	.120 - .135
1.898	.754	.005 - .010
1.898	.910	.050 - .075
1.899	.194	.005 - .010
1.899	.340	.156 - .190
1.899	.380	.030 - .050
1.899	.437	.156 - .190
1.899	.629	.015 - .030
1.899	.630	.005 - .010
1.899	1.015	.040 - .060
1.900	.253	.050 - .060
1.900	.378	.030 - .075
1.900	.500	.005 - .010
1.900	.502	.005 - .010
1.900	.626	.005 - .020
1.900	.630	.005 - .010
1.900	.755	.010 - .020
1.900	.855	.005 - .010
1.900	.870	.060 - .080
1.900	.881	.090 - .125
1.900	1.002	.075 - .105
1.900	1.006	.040 - .060
1.900	1.095	.040 - .060
1.900	1.256	.080 - .104
1.900	1.320	.040 - .060
1.900	1.321	.040 - .060
1.900	1.375	.050 - .075
1.900	1.453	.020 - .040
1.900	1.500	.006 - .060
1.900	1.501	.090 - .105
1.900	1.530	.010 - .020
1.900	1.600	.030 - .050
1.900	1.626	.015 - .030
1.900	1.628	.030 - .050
1.900	1.650	.025 - .060
1.900	1.651	.080 - .100
1.900	1.660	.005 - .010
1.900	1.375	.010 - .020
1.901	.626	.025 - .040
1.901	.726	.105 - .125
1.901	.760	.120 - .140
1.901	.781	.105 - .125
1.901	1.501	.010 - .020
1.902	.631	.005 - .010
1.902	1.101	.040 - .062
1.902	1.139	.090 - .125
1.902	1.256	.083 - .104
1.902	1.420	.020 - .040
1.902	1.570	.005 - .010
1.903	.485	.025 - .040
1.903	.719	.010 - .125
1.903	1.031	.050 - .070
1.903	1.404	.015 - .025
1.904	1.510	.025 - .040
1.904	1.565	.010 - .020
1.905	1.160	.005 - .010
1.905	1.510	.005 - .010
1.905	1.590	.010 - .030
1.905	1.627	.025 - .040
1.906	1.640	.080 - .100
1.906	.194	.070 - .090
1.906	.316	.060 - .080
1.906	.381	.090 - .120
1.906	.409	.050 - .070
1.906	1.314	.080 - .105
1.906	1.557	.015 - .030
1.906	1.590	.015 - .025
1.907	.365	.060 - .080
1.907	1.157	.120 - .134
1.907	1.485	.070 - .090
1.908	.877	.010 - .020
1.909	.802	.080 - .100
1.909	1.250	.020 - .040
1.909	1.275	.005 - .010
1.909	1.348	.005 - .010
1.910	1.159	.040 - .060
1.910	1.437	.100 - .125
1.910	1.438	.105 - .125
1.910	1.610	.010 - .020
1.910	1.640	.105 - .125
1.911	1.631	.005 - .010
1.912	1.758	.030 - .050
1.912	1.801	.020 - .030
1.913	1.096	.005 - .010
1.913	1.337	.015 - .030
1.913	1.755	.005 - .010
1.913	1.779	.005 - .010
1.915	.255	.020 - .030
1.915	1.259	.100 - .125
1.915	1.346	.040 - .060
1.915	1.586	.007 - .015
1.915	1.675	.010 - .020
1.916	.966	.050 - .070
1.917	1.258	.125 - .156
1.918	1.385	.015 - .025
1.918	1.410	.062 - .083
1.918	1.519	.050 - .070
1.918	1.632	.005 - .010
1.919	1.390	.060 - .080
1.919	1.501	.010 - .020
1.919	1.595	.060 - .080
1.919	1.754	.015 - .030
1.919	1.263	.040 - .060
1.920	.859	.080 - .104
1.920	1.000	.070 - .090
1.920	1.263	.062 - .083
1.920	1.410	.060 - .090
1.920	1.411	.090 - .105
1.920	1.471	.080 - .100
1.920	1.635	.030 - .040
1.920	1.826	.010 - .020
1.920	1.264	.040 - .060
1.921	.438	.090 - .110
1.921	.566	.015 - .030
1.921	1.500	.010 - .020
1.921	1.671	.062 - .083
1.922	.317	.015 - .030
1.922	.565	.150 - .170
1.922	.972	.080 - .104
1.922	1.079	.080 - .104
1.922	1.176	.080 - .104
1.922	1.341	.080 - .104
1.922	1.410	.080 - .104
1.923	.390	.015 - .030
1.923	.881	.105 - .135
1.923	1.181	.025 - .040
1.923	1.262	.080 - .104
1.923	1.533	.050 - .070
1.923	1.714	.010 - .020
1.924	.315	.015 - .030
1.924	.691	.050 - .070
1.924	.860	.062 - .083
1.924	.973	.062 - .083
1.924	1.068	.025 - .040
1.924	1.080	.062 - .083
1.924	1.177	.062 - .083
1.924	1.180	.062 - .083
1.924	1.261	.050 - .070
1.924	1.263	.062 - .083
1.924	1.265	.005 - .010
1.924	1.341	.062 - .083
1.924	1.410	.062 - .083
1.925	.328	.030 - .040
1.925	.564	.010 - .020
1.925	.573	.015 - .030
1.925	.690	.050 - .070
1.925	.754	.060 - .080
1.925	1.253	.005 - .010
1.925	1.317	.020 - .040
1.925	1.391	.025 - .040
1.925	1.510	.010 - .020
1.925	1.554	.050 - .075
1.925	1.715	.062 - .083
1.926	1.554	.020 - .040
1.926	1.684	.032 - .060
1.926	1.691	.030 - .042
1.927	.480	.005 - .010
1.927	.810	.005 - .010
1.928	.533	.008 - .020
1.928	1.265	.025 - .040
1.928	1.585	.005 - .010
1.928	1.664	.070 - .090
1.929	1.550	.015 - .025
1.930	.375	.032 - .048
1.930	.451	.015 - .025
1.930	1.181	.050 - .070
1.930	1.478	.010 - .020
1.930	1.532	.010 - .020
1.930	1.600	.025 - .042
1.930	1.650	.005 - .010
1.930	1.824	.005 - .030
1.930	1.880	.010 - .020
1.931	.181	.015 - .025
1.931	.566	.156 - .190
1.931	1.595	.005 - .020
1.932	1.126	.130 - .150
1.932	1.626	.040 - .060
1.932	1.695	.025 - .040
1.932	1.779	.005 - .010
1.933	.750	.130 - .150
1.933	1.504	.015 - .030
1.933	1.556	.050 - .060
1.933	1.565	.030 - .050
1.934	1.002	.030 - .050
1.934	1.562	.050 - .062
1.935	.473	.060 - .085
1.935	.500	.060 - .083
1.935	.651	.020 - .040
1.935	1.032	.156 - .187
1.935	1.190	.005 - .010
1.935	1.309	.105 - .125
1.935	1.500	.090 - .100
1.935	1.555	.060 - .083
1.935	1.656	.010 - .020
1.935	1.661	.032 - .048
1.935	1.687	.090 - .105
1.936	.688	.025 - .040
1.936	.780	.060 - .080
1.936	.818	.005 - .060
1.936	1.186	.050 - .075
1.936	1.564	.060 - .080
1.936	1.579	.015 - .042
1.936	1.586	.090 - .100
1.936	1.656	.050 - .070
1.936	1.719	.005 - .010
1.936	1.740	.005 - .010
1.936	1.757	.010 - .020
1.937	.651	.105 - .125
1.937	1.015	.075 - .090
1.937	1.021	.156 - .187
1.937	1.079	.005 - .010
1.937	1.157	.020 - .040
1.937	1.260	.040 - .062
1.937	1.283	.005 - .010
1.937	1.284	.015 - .030
1.937	1.399	.030 - .050
1.937	1.436	.030 - .050
1.937	1.498	.025 - .040
1.937	1.527	.005 - .010
1.937	1.528	.050 - .075
1.937	1.657	.010 - .020
1.937	1.665	.050 - .070
1.937	1.733	.040 - .060
1.937	1.809	.005 - .010
1.938	.319	.015 - .030
1.938	1.314	.050 - .070
1.938	1.395	.005 - .010
1.938	1.468	.030 - .050
1.938	1.502	.025 - .040
1.938	1.505	.060 - .080
1.938	1.758	.005 - .010
1.938	1.809	.005 - .010
1.939	.126	.030 - .050
1.939	1.062	.060 - .070
1.939	1.380	.110 - .130
1.939	1.578	.030 - .050
1.939	1.664	.020 - .030
1.940	.687	.090 - .105
1.940	.880	.065 - .080
1.940	1.155	.080 - .100
1.940	1.260	.005 - .010
1.940	1.261	.030 - .070
1.940	1.402	.015 - .030
1.940	1.410	.040 - .060
1.940	1.769	.005 - .010
1.941	1.627	.065 - .080
1.941	1.629	.075 - .090
1.942	.314	.105 - .125
1.942	1.157	.080 - .100
1.942	1.746	.015 - .030
1.942	1.787	.005 - .010
1.943	.764	.105 - .125
1.944	.393	.030 - .050
1.944	.800	.156 - .187
1.944	1.628	.025 - .040
1.945	.426	.050 - .070
1.945	1.063	.105 - .125
1.945	1.477	.010 - .020
1.945	1.792	.005 - .020
1.946	1.780	.005 - .010
1.947	1.661	.005 - .010
1.948	1.083	.070 - .090
1.948	1.578	.005 - .010
1.948	1.749	.010 - .020
1.948	1.820	.005 - .020
1.949	.459	.020 - .030
1.949	.820	.005 - .010
1.949	1.062	.030 - .050
1.949	1.119	.080 - .100
1.949	1.526	.005 - .010
1.949	1.555	.015 - .030
1.949	1.620	.030 - .040
1.949	1.664	.035 - .050
1.950	.190	.015 - .040
1.950	.320	.005 - .010
1.950	.490	.005 - .010
1.950	.505	.125 - .156
1.950	.810	.005 - .010
1.950	.878	.125 - .135
1.950	1.408	.005 - .010
1.950	1.600	.005 - .050
1.950	1.820	.025 - .035
1.950	1.321	.005 - .010
1.950	1.500	.050 - .070
1.950	1.617	.010 - .020
1.951	.504	.110 - .130
1.951	1.000	.105 - .135
1.951	1.201	.030 - .050
1.951	1.781	.005 - .010
1.952	.812	.040 - .060
1.952	1.055	.020 - .040
1.952	1.069	.090 - .110
1.952	1.592	.030 - .050
1.953	1.375	.040 - .060
1.953	1.421	.005 - .010
1.954	.377	.050 - .075
1.954	.421	.050 - .070
1.954	1.108	.125 - .156
1.954	1.627	.005 - .010
1.955	.421	.050 - .070
1.955	1.004	.140 - .160
1.955	1.513	.020 - .042
1.955	1.519	.080 - .104
1.955	1.780	.005 - .010
1.956	.995	.050 - .090
1.956	1.020	.050 - .070
1.956	1.520	.005 - .010
1.956	1.564	.010 - .015
1.957	1.415	.030 - .050
1.958	.390	.135 - .156
1.959	1.861	.005 - .010
1.960	.754	.120 - .134
1.960	.870	.150 - .170
1.960	1.011	.105 - .120
1.960	1.065	.070 - .090
1.960	1.500	.020 - .040
1.960	1.584	.010 - .020
1.960	1.619	.020 - .040
1.960	1.642	.005 - .010
1.960	1.674	.005 - .010
1.960	1.712	.005 - .010
1.960	1.862	.005 - .010
1.961	1.188	.010 - .020
1.961	1.300	.020 - .030
1.961	1.312	.050 - .083
1.961	1.584	.090 - .125
1.962	1.735	.008 - .020
1.963	.281	.005 - .010
1.963	.481	.005 - .010
1.963	1.565	.025 - .040
1.964	.281	.015 - .030
1.964	1.576	.015 - .025
1.964	1.579	.005 - .040
1.964	1.756	.020 - .030
1.964	1.790	.012 - .020
1.964	1.740	.005 - .010
1.965	.281	.005 - .010
1.965	.815	.060 - .080
1.965	1.427	.030 - .050
1.965	1.491	.015 - .030
1.965	1.498	.048 - .062
1.965	1.503	.005 - .010
1.965	1.513	.005 - .010
1.965	1.586	.020 - .030
1.965	1.694	.005 - .010
1.965	1.860	.007 - .030
1.966	1.006	.005 - .010
1.966	1.206	.005 - .010
1.966	1.438	.060 - .080
1.967	.394	.080 - .100
1.967	.502	.010 - .020
1.967	1.113	.025 - .040
1.967	1.519	.005 - .010

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

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
1.967	1.596	.030 - .050	1.980	1.546	.005 - .010	1.994	1.662	.010 - .020	1.998	1.664	.030 - .050	2.000	.451	.090 - .125	2.000	1.281	.040 - .060
1.967	1.654	.005 - .010	1.980	1.601	.010 - .020	1.994	1.789	.005 - .010	1.998	1.734	.050 - .070	2.000	.484	.170 - .190	2.000	1.282	.005 - .010
1.967	1.687	.010 - .020	1.980	1.778	.005 - .010	1.994	1.885	.020 - .040	1.998	1.748	.080 - .100	2.000	.503	.105 - .125	2.000	1.285	.025 - .040
1.968	.283	.050 - .070	1.980	1.850	.005 - .010	1.994	1.933	.005 - .010	1.998	1.750	.050 - .070	2.000	.504	.010 - .060	2.000	1.290	.157 - .187
1.968	.315	.040 - .060	1.981	.831	.156 - .187	1.994	1.489	.030 - .050	1.998	1.789	.005 - .010	2.000	.505	.005 - .010	2.000	1.291	.005 - .010
1.968	.386	.110 - .135	1.981	1.519	.040 - .060	1.995	.147	.005 - .010	1.999	.193	.005 - .010	2.000	.506	.020 - .030	2.000	1.311	.005 - .010
1.968	.505	.005 - .010	1.981	1.736	.005 - .010	1.995	.395	.005 - .010	1.999	.238	.005 - .015	2.000	.507	.100 - .125	2.000	1.321	.080 - .100
1.968	.625	.005 - .010	1.982	.760	.015 - .030	1.995	.404	.005 - .010	1.999	.280	.120 - .135	2.000	.509	.156 - .187	2.000	1.330	.080 - .104
1.968	.630	.105 - .125	1.982	1.609	.083 - .104	1.995	.405	.040 - .060	1.999	.310	.005 - .010	2.000	.516	.090 - .120	2.000	1.332	.005 - .010
1.968	.827	.105 - .125	1.983	.515	.030 - .050	1.995	.453	.060 - .080	1.999	.313	.050 - .070	2.000	.522	.005 - .010	2.000	1.350	.010 - .020
1.968	.866	.170 - .190	1.983	.914	.005 - .010	1.995	.634	.005 - .010	1.999	.318	.090 - .110	2.000	.530	.060 - .080	2.000	1.375	.050 - .090
1.968	.984	.005 - .010	1.983	1.628	.020 - .040	1.995	.750	.105 - .125	1.999	.388	.105 - .135	2.000	.536	.005 - .010	2.000	1.376	.015 - .030
1.968	.995	.005 - .010	1.984	.229	.005 - .010	1.995	.886	.090 - .120	1.999	.406	.160 - .190	2.000	.570	.005 - .010	2.000	1.380	.135 - .156
1.968	1.008	.030 - .050	1.984	.395	.005 - .190	1.995	1.000	.030 - .050	1.999	.407	.100 - .125	2.000	.591	.025 - .040	2.000	1.386	.030 - .060
1.968	1.026	.090 - .100	1.984	1.544	.005 - .015	1.995	1.128	.120 - .135	1.999	.452	.100 - .125	2.000	.594	.170 - .190	2.000	1.389	.015 - .080
1.968	1.028	.005 - .010	1.984	1.329	.040 - .060	1.995	1.500	.048 - .062	1.999	.484	.070 - .090	2.000	.619	.015 - .030	2.000	1.402	.105 - .125
1.968	1.150	.005 - .010	1.985	1.206	.070 - .090	1.995	1.636	.015 - .030	1.999	.515	.156 - .187	2.000	.620	.040 - .060	2.000	1.450	.005 - .010
1.968	1.183	.005 - .010	1.985	1.398	.010 - .030	1.995	1.663	.020 - .040	1.999	.562	.100 - .125	2.000	.625	.100 - .125	2.000	1.499	.005 - .010
1.968	1.253	.030 - .050	1.985	1.590	.010 - .020	1.995	1.758	.015 - .030	1.999	.667	.030 - .040	2.000	.626	.015 - .030	2.000	1.500	.005 - .125
1.968	1.394	.005 - .010	1.985	1.693	.005 - .010	1.995	1.818	.015 - .030	1.999	.687	.156 - .187	2.000	.627	.040 - .060	2.000	1.502	.010 - .020
1.968	1.401	.060 - .070	1.985	1.695	.040 - .060	1.996	.269	.005 - .010	1.999	.691	.120 - .140	2.000	.628	.020 - .040	2.000	1.511	.030 - .125
1.968	1.501	.015 - .030	1.985	1.860	.010 - .020	1.996	.381	.005 - .010	1.999	.749	.025 - .040	2.000	.632	.010 - .020	2.000	1.513	.015 - .030
1.968	1.578	.015 - .125	1.985	1.520	.015 - .030	1.996	.391	.105 - .125	1.999	.750	.156 - .187	2.000	.636	.005 - .010	2.000	1.515	.005 - .060
1.968	1.625	.015 - .030	1.986	.540	.005 - .010	1.996	.451	.005 - .010	1.999	.753	.020 - .030	2.000	.644	.090 - .105	2.000	1.536	.005 - .010
1.968	1.692	.040 - .060	1.986	1.205	.135 - .156	1.996	.647	.005 - .010	1.999	.797	.020 - .040	2.000	.657	.100 - .125	2.000	1.589	.005 - .010
1.968	1.731	.005 - .010	1.986	1.546	.005 - .010	1.996	.768	.005 - .010	1.999	.813	.135 - .156	2.000	.670	.090 - .125	2.000	1.625	.050 - .060
1.969	.502	.005 - .010	1.987	.671	.100 - .120	1.996	.821	.005 - .010	1.999	.937	.075 - .090	2.000	.685	.080 - .105	2.000	1.626	.105 - .125
1.969	.881	.015 - .030	1.987	.888	.050 - .070	1.996	1.045	.005 - .010	1.999	.977	.015 - .030	2.000	.692	.090 - .120	2.000	1.635	.005 - .015
1.969	1.339	.050 - .060	1.987	1.313	.030 - .040	1.996	1.120	.135 - .156	1.999	1.000	.030 - .040	2.000	.700	.020 - .030	2.000	1.649	.005 - .020
1.969	1.380	.070 - .090	1.988	.880	.050 - .070	1.996	1.404	.005 - .010	1.999	1.015	.005 - .010	2.000	.750	.105 - .125	2.000	1.654	.005 - .105
1.969	1.440	.010 - .020	1.988	.899	.005 - .010	1.996	1.504	.010 - .020	1.999	1.033	.160 - .190	2.000	.752	.010 - .020	2.000	1.670	.025 - .040
1.969	1.468	.010 - .020	1.988	1.497	.005 - .010	1.996	1.666	.005 - .010	1.999	1.034	.005 - .010	2.000	.753	.005 - .010	2.000	1.695	.005 - .010
1.969	1.469	.030 - .070	1.988	1.575	.050 - .075	1.996	1.751	.050 - .070	1.999	1.143	.005 - .010	2.000	.754	.110 - .130	2.000	1.749	.010 - .060
1.969	1.470	.105 - .125	1.988	1.586	.020 - .042	1.996	1.850	.010 - .020	1.999	1.289	.025 - .040	2.000	.758	.005 - .010	2.000	1.755	.080 - .100
1.969	1.628	.015 - .030	1.989	.750	.020 - .030	1.997	.310	.080 - .100	1.999	1.308	.005 - .020	2.000	.761	.090 - .110	2.000	1.780	.015 - .040
1.969	1.657	.050 - .070	1.989	.786	.105 - .135	1.997	.407	.050 - .070	1.999	1.504	.025 - .042	2.000	.779	.005 - .010	2.000	1.810	.005 - .020
1.969	1.692	.030 - .050	1.989	.875	.100 - .125	1.997	.500	.105 - .125	1.999	1.560	.005 - .010	2.000	.780	.015 - .030	2.000	1.843	.010 - .025
1.970	.413	.105 - .125	1.989	1.753	.030 - .050	1.997	.561	.005 - .010	1.999	1.655	.040 - .060	2.000	.781	.005 - .060	2.000	2.064	.015 - .030
1.970	.556	.030 - .050	1.990	.222	.005 - .010	1.997	.623	.156 - .190	1.999	1.685	.020 - .030	2.000	.786	.005 - .010	2.000	1.394	.005 - .010
1.970	.594	.010 - .020	1.990	.245	.005 - .010	1.997	.700	.005 - .010	1.999	1.692	.030 - .040	2.000	.797	.020 - .040	2.000	1.780	.005 - .010
1.970	.938	.090 - .110	1.990	.281	.125 - .135	1.997	.720	.020 - .035	1.999	1.475	.005 - .010	2.000	.812	.080 - .105	2.001	.198	.010 - .020
1.970	1.427	.005 - .010	1.990	.317	.005 - .010	1.997	.766	.010 - .020				2.000	.875	.010 - .020	2.001	.245	.005 - .010
1.970	1.428	.020 - .040	1.990	.318	.007 - .012	1.997	.913	.005 - .010				2.000	.876	.105 - .125	2.001	.250	.100 - .125
1.970	1.500	.050 - .070	1.990	.526	.005 - .010	1.997	1.021	.030 - .050				2.000	.880	.010 - .020	2.001	.315	.105 - .120
1.970	1.630	.005 - .010	1.990	.651	.105 - .135	1.997	1.061	.050 - .075				2.000	.906	.015 - .060	2.001	.345	.125 - .135
1.970	1.654	.040 - .060	1.990	.688	.050 - .070	1.997	1.071	.005 - .010				2.000	.977	.025 - .040	2.001	.375	.105 - .125
1.970	1.692	.010 - .020	1.990	.754	.005 - .010	1.997	1.254	.005 - .010				2.000	.979	.020 - .040	2.001	.381	.020 - .030
1.970	1.814	.015 - .030	1.990	.893	.005 - .010	1.997	1.414	.005 - .010				2.000	1.000	.055 - .070	2.001	.447	.005 - .010
1.971	1.268	.093 - .125	1.990	1.376	.040 - .060	1.997	1.503	.080 - .105				2.000	1.005	.005 - .010	2.001	.499	.170 - .190
1.971	1.541	.005 - .030	1.990	1.379	.093 - .125	1.997	1.584	.005 - .010				2.000	1.006	.083 - .105	2.001	.501	.015 - .030
1.972	.379	.015 - .030	1.990	1.519	.060 - .080	1.997	1.849	.005 - .010	2.000	.160	.005 - .015	2.000	1.014	.035 - .060	2.001	.592	.120 - .135
1.972	.505	.015 - .030	1.990	1.779	.015 - .030	1.997	1.777	.005 - .010	2.000	.165	.050 - .070	2.000	1.015	.050 - .075	2.001	.750	.005 - .010
1.972	.875	.105 - .125	1.991	.317	.105 - .130	1.998	.251	.105 - .125	2.000	.180	.005 - .010	2.000	1.020	.015 - .030	2.001	.755	.005 - .010
1.972	1.130	.015 - .030	1.991	.653	.090 - .120	1.998	.328	.005 - .010	2.000	.194	.036 - .050	2.000	1.030	.010 - .125	2.001	.813	.005 - .010
1.972	1.250	.093 - .125	1.991	.687	.030 - .050	1.998	.426	.005 - .010	2.000	.205	.060 - .125	2.000	1.031	.050 - .070	2.001	.814	.060 - .080
1.972	1.579	.030 - .040	1.991	.998	.015 - .050	1.998	.441	.120 - .135	2.000	.210	.105 - .135	2.000	1.060	.015 - .030	2.001	.942	.105 - .135
1.974	.408	.015 - .030	1.991	1.325	.020 - .040	1.998	.500	.020 - .050	2.000	.221	.030 - .050	2.000	1.062	.100 - .125	2.001	1.020	.015 - .030
1.974	1.170	.005 - .010	1.992	.419	.005 - .010	1.998	.531	.120 - .135	2.000	.250	.025 - .125	2.000	1.064	.100 - .125	2.001	1.105	.080 - .104
1.974	1.284	.005 - .010	1.992	.560	.010 - .020	1.998	.562	.040 - .060	2.000	.253	.005 - .010	2.000	1.075	.015 - .030	2.001	1.155	.105 - .125
1.974	1.503	.005 - .010	1.992	.999	.020 - .030	1.998	.647	.005 - .010	2.000	.253	.050 - .070	2.000	1.090	.005 - .010	2.001	1.282	.105 - .125
1.975	.755	.025 - .040	1.992	1.182	.020 - .040	1.998	.662	.005 - .010	2.000	.255	.030 - .060	2.000	1.108	.040 - .060	2.001	1.312	.050 - .070
1.975	1.821	.020 - .030	1.992	1.267	.005 - .030	1.998	.690	.050 - .075	2.000	.261	.060 - .080	2.000	1.125	.015 - .062	2.001	1.397	.015 - .025
1.975	1.879	.010 - .020	1.992	1.313	.040 - .060	1.998	.755	.135 - .156	2.000	.266	.040 - .060	2.000	1.131	.030 - .062	2.001	1.505	.005 - .010
1.976	.759	.030 - .050	1.993	.406	.030 - .040	1.998	.881	.015 - .030	2.000	.270	.080 - .100	2.000	1.158	.025 - .042	2.001	1.522	.005 - .010
1.976	1.289	.020 - .060	1.993	.410	.010 - .015	1.998	.882	.020 - .030	2.000	.282	.060 - .080	2.000	1.165	.020 - .040	2.001	1.583	.025 - .040
1.976	1.385	.015 - .030	1.993	.474	.030 - .050	1.998	1.021	.070 - .090	2.000	.291	.050 - .075	2.000	1.166	.005 - .010	2.001	1.602	.030 - .050
1.976	1.673	.030 - .050	1.993	.499	.090 - .110	1.998	1.029	.005 - .010	2.000	.298	.005 - .010	2.000	1.190	.080 - .187	2.002	.101	.005 - .010
1.977	1.775	.005 - .010	1.993	.520	.005 - .010	1.998	1.077	.005 - .010	2.000	.299	.020 - .040	2.000	1.199	.005 - .010	2.002	.380	.090 - .134
1.977	1.798	.010 - .020	1.993	1.017	.005 - .010	1.998	1.093	.025 - .040	2.000	.316	.005 - .010	2.000	1.201	.080 - .100	2.002	.437	.050 - .075
1.978	1.550	.015 - .030	1.993	1.501	.010 - .020	1.998	1.124	.030 - .070	2.000	.317	.015 - .030	2.000	1.208	.050 - .075	2.002	.510	.005 - .010
1.978	1.694	.020 - .030	1.993	1.664	.005 - .010	1.998	1.126	.005 - .010	2.000	.328	.070 - .090	2.000	1.217	.005 - .010	2.002	.533	.156 - .187
1.978	1.776	.050 - .070	1.993	1.933	.005 - .010	1.998	1.136	.110 - .135	2.000	.344	.060 - .075	2.000	1.220	.035 - .060	2.002	.665	.105 - .120
1.979	.395	.160 - .190	1.994	.268	.005 - .010	1.998	1.248	.125 - .156	2.000	.376	.050 - .060	2.000	1.248	.156 - .187	2.002	.855	.005 - .010
1.979	1.660	.005 - .010	1.994	.412	.005 - .010	1.998	1.409	.025 - .040	2.000	.380	.160 - .190	2.000	1.250	.008 - .040	2.002	1.276	.050 - .070
1.979	1.775	.020 - .030	1.994	.885	.110 - .135	1.998	1.417	.030 - .050	2.000	.398	.010 - .020	2.000	1.253	.010 - .156	2.002	1.381	.020 - .030
1.980	.267	.125 - .135	1.994	1.284	.010 - .020	1.998	1.501	.050 - .060	2.000	.399	.020 - .040	2.000	1.256	.050 - .070	2.002	1.390	.010 - .020
1.980	1.060	.010 - .020	1.994	1.382	.040 - .060	1.998	1.506	.020 - .030	2.000	.405	.100 - .135	2.000	1.262	.083 - .104	2.002	1.501	.050 - .075
1.980	1.478	.050 - .070	1.994	1.475	.010 - .020	1.998	1.508	.010 - .020	2.000	.415	.090 - .105	2.000	1.263	.050 - .075	2.002	1.530	.025 - .035
1.980	1.500	.050 - .070	1.994	1.476	.010 - .020	1.998	1.531	.156 - .187	2.000	.437	.050 - .070	2.000	1.264	.090 - .120	2.002	1.560	.105 - .135
1.980	1.507	.005 - .010	1.994	1.629	.010 - .020	1.998	1.635	.010 - .020	2.000	.438	.156 - .190	2.000	1.280	.040 - .090	2.002	1.630	.050 - .070

2.000

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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
2.002	1.733	.080 - .105	2.033	1.745	.010 - .020	2.050	1.425	.030 - .050	2.081	1.060	.010 - .020	2.118	1.641	.060 - .080	2.125	1.781	.025 - .040
2.002	1.758	.005 - .010	2.033	1.845	.040 - .060	2.050	1.660	.075 - .090	2.082	1.883	.005 - .010	2.118	1.887	.025 - .040	2.125	1.852	.015 - .030
2.002	1.812	.070 - .090	2.033	1.790	.020 - .040	2.050	1.708	.040 - .060	2.082	1.942	.020 - .030	2.119	1.061	.075 - .090	2.125	1.876	.050 - .070
2.002	1.828	.005 - .010	2.034	1.574	.020 - .040	2.052	.626	.025 - .040	2.083	1.440	.005 - .010	2.119	1.503	.005 - .010	2.125	1.891	.005 - .010
2.003	.161	.025 - .040	2.035	.423	.030 - .050	2.054	1.274	.010 - .020	2.085	1.429	.040 - .060	2.119	1.512	.005 - .010	2.125	1.978	.005 - .020
2.003	.752	.075 - .090	2.035	.788	.105 - .125	2.054	1.384	.025 - .040	2.085	1.801	.025 - .040	2.119	1.587	.050 - .070	2.125	1.500	.005 - .010
2.003	.843	.005 - .010	2.035	1.002	.090 - .110	2.054	1.632	.015 - .030	2.086	.787	.020 - .035	2.119	1.414	.020 - .040	2.125	1.811	.015 - .030
2.003	1.077	.050 - .070	2.035	1.690	.040 - .060	2.055	1.570	.005 - .010	2.086	1.674	.005 - .010	2.120	.628	.050 - .075	2.126	.439	.010 - .030
2.003	1.126	.070 - .090	2.035	1.750	.050 - .075	2.056	.528	.048 - .062	2.089	1.508	.050 - .070	2.120	.810	.015 - .030	2.126	.631	.005 - .010
2.003	1.481	.005 - .015	2.035	1.834	.025 - .042	2.057	.390	.040 - .060	2.090	.815	.070 - .090	2.120	.875	.040 - .062	2.126	.755	.050 - .105
2.003	1.557	.020 - .040	2.035	1.933	.020 - .030	2.058	.482	.048 - .062	2.090	.941	.110 - .135	2.120	.927	.156 - .187	2.126	1.950	.040 - .060
2.003	1.694	.020 - .030	2.036	1.557	.040 - .062	2.058	.519	.156 - .190	2.092	1.801	.010 - .020	2.120	1.014	.015 - .030	2.127	.385	.005 - .010
2.003	1.781	.010 - .020	2.037	1.588	.005 - .010	2.058	.630	.105 - .135	2.093	.223	.100 - .125	2.120	1.187	.015 - .025	2.127	.406	.100 - .120
2.004	.756	.040 - .060	2.037	1.676	.050 - .070	2.058	1.010	.010 - .020	2.093	1.001	.060 - .080	2.120	1.265	.040 - .060	2.127	.754	.040 - .060
2.004	.843	.100 - .125	2.038	.989	.080 - .100	2.058	1.196	.050 - .070	2.093	1.656	.005 - .010	2.120	1.305	.030 - .050	2.127	.999	.010 - .020
2.004	1.131	.010 - .020	2.038	1.875	.015 - .030	2.058	1.515	.020 - .040	2.095	.473	.080 - .100	2.120	1.490	.090 - .105	2.127	1.021	.080 - .105
2.005	.204	.080 - .104	2.039	.281	.030 - .050	2.058	1.671	.050 - .060	2.095	.636	.005 - .010	2.120	1.506	.050 - .070	2.127	1.260	.005 - .010
2.005	1.260	.025 - .040	2.039	1.527	.105 - .135	2.059	.402	.030 - .060	2.095	.688	.105 - .135	2.120	1.615	.050 - .075	2.127	1.625	.005 - .010
2.005	1.261	.070 - .090	2.039	1.781	.005 - .010	2.059	1.671	.030 - .060	2.095	.875	.105 - .135	2.120	1.698	.010 - .020	2.127	1.673	.040 - .060
2.005	1.515	.010 - .020	2.040	.990	.015 - .030	2.059	1.750	.050 - .075	2.095	1.890	.005 - .010	2.120	1.785	.050 - .075	2.128	1.122	.050 - .075
2.006	1.280	.105 - .135	2.040	1.383	.005 - .010	2.059	1.759	.005 - .010	2.095	1.901	.005 - .010	2.120	1.811	.080 - .105	2.128	1.374	.060 - .080
2.006	1.775	.005 - .010	2.040	1.410	.005 - .007	2.060	.221	.050 - .075	2.095	1.946	.005 - .010	2.120	1.819	.025 - .040	2.128	1.505	.050 - .070
2.007	.826	.005 - .010	2.040	1.620	.070 - .105	2.060	.254	.005 - .130	2.096	.202	.015 - .020	2.120	1.273	.030 - .050	2.128	1.626	.005 - .010
2.007	1.533	.040 - .060	2.040	1.625	.005 - .010	2.060	.312	.005 - .010	2.096	1.186	.015 - .030	2.121	1.903	.010 - .020	2.128	1.668	.005 - .010
2.008	.765	.105 - .125	2.040	1.787	.050 - .070	2.060	.390	.005 - .010	2.097	1.013	.110 - .125	2.122	1.507	.020 - .030	2.129	.251	.050 - .070
2.008	1.254	.135 - .156	2.041	1.500	.040 - .060	2.060	.443	.005 - .010	2.098	.253	.025 - .040	2.122	1.631	.020 - .030	2.129	.533	.105 - .135
2.008	1.319	.005 - .010	2.041	1.773	.020 - .030	2.060	.530	.050 - .075	2.098	.760	.015 - .030	2.122	1.877	.005 - .010	2.129	.735	.020 - .040
2.008	1.392	.005 - .012	2.042	.331	.040 - .060	2.060	.762	.090 - .110	2.098	1.013	.010 - .020	2.122	1.878	.020 - .040	2.129	1.282	.050 - .070
2.008	1.676	.070 - .090	2.042	1.312	.050 - .070	2.060	.800	.025 - .036	2.098	1.635	.010 - .020	2.123	.890	.090 - .105	2.129	1.500	.010 - .020
2.008	1.801	.010 - .020	2.042	1.630	.040 - .060	2.060	.890	.080 - .104	2.098	1.909	.020 - .040	2.123	.906	.090 - .125	2.129	1.524	.100 - .125
2.009	.239	.040 - .060	2.042	1.795	.050 - .075	2.060	1.141	.040 - .060	2.099	1.200	.010 - .020	2.123	1.008	.050 - .070	2.130	.293	.050 - .070
2.009	1.783	.070 - .090	2.042	1.940	.020 - .030	2.060	1.438	.030 - .050	2.099	1.638	.005 - .010	2.123	1.645	.105 - .125	2.130	.516	.040 - .060
2.009	1.804	.030 - .050	2.043	1.825	.015 - .030	2.060	1.450	.025 - .042	2.100	.753	.025 - .040	2.123	1.659	.105 - .125	2.130	.532	.134 - .156
2.010	.567	.105 - .125	2.043	1.940	.010 - .020	2.060	1.511	.005 - .010	2.100	.794	.010 - .020	2.123	1.811	.005 - .010	2.130	.549	.040 - .060
2.010	.664	.030 - .050	2.044	1.025	.050 - .070	2.060	1.520	.040 - .060	2.100	1.391	.020 - .030	2.124	.312	.080 - .100	2.130	.860	.100 - .125
2.010	.792	.120 - .140	2.044	1.826	.010 - .020	2.060	1.629	.015 - .030	2.100	1.406	.050 - .070	2.124	1.127	.015 - .030	2.130	1.030	.015 - .030
2.010	1.084	.005 - .010	2.045	.344	.040 - .060	2.060	1.672	.020 - .040	2.100	1.640	.005 - .015	2.124	1.250	.010 - .020	2.130	1.057	.005 - .010
2.010	1.470	.050 - .070	2.045	.722	.005 - .030	2.060	1.805	.005 - .010	2.100	1.656	.105 - .125	2.124	1.580	.040 - .060	2.130	1.625	.040 - .060
2.010	1.699	.050 - .070	2.045	.724	.005 - .050	2.061	1.291	.060 - .080	2.100	1.825	.005 - .010	2.124	1.815	.070 - .090	2.130	1.762	.005 - .010
2.010	1.705	.005 - .010	2.045	1.256	.050 - .070	2.061	1.734	.020 - .035	2.100	1.830	.010 - .020	2.124	1.974	.015 - .030	2.130	1.869	.025 - .040
2.012	1.250	.020 - .040	2.045	1.344	.040 - .060	2.062	.372	.005 - .010	2.100	1.900	.050 - .075	2.125	.346	.050 - .075	2.130	1.871	.010 - .020
2.013	1.003	.015 - .030	2.045	1.703	.005 - .010	2.062	.515	.100 - .125	2.100	1.933	.005 - .010	2.125	.380	.100 - .125	2.131	1.658	.015 - .030
2.013	1.502	.020 - .040	2.045	1.730	.010 - .020	2.062	.625	.005 - .032	2.100	1.971	.010 - .020	2.125	.500	.080 - .100	2.131	1.878	.080 - .105
2.013	1.658	.005 - .010	2.045	1.881	.005 - .010	2.062	.630	.050 - .070	2.100	1.675	.005 - .010	2.125	.507	.005 - .010	2.131	2.031	.030 - .050
2.015	1.383	.030 - .040	2.046	1.536	.060 - .080	2.062	.766	.040 - .060	2.100	1.700	.040 - .060	2.125	.562	.100 - .125	2.132	.250	.090 - .110
2.016	1.687	.005 - .010	2.046	1.611	.070 - .090	2.062	1.371	.070 - .090	2.101	.564	.010 - .020	2.125	.565	.010 - .020	2.132	1.190	.060 - .080
2.017	1.614	.020 - .040	2.046	1.730	.020 - .030	2.062	1.381	.015 - .040	2.101	1.731	.025 - .040	2.125	.626	.015 - .030	2.134	1.410	.015 - .030
2.018	1.510	.030 - .050	2.046	1.871	.040 - .060	2.063	.392	.050 - .070	2.102	.792	.030 - .040	2.125	.655	.075 - .100	2.134	1.729	.060 - .080
2.019	.502	.030 - .050	2.047	.551	.060 - .080	2.063	.751	.030 - .050	2.103	1.781	.010 - .020	2.125	.695	.090 - .105	2.134	1.752	.005 - .012
2.019	.508	.050 - .070	2.047	.747	.015 - .030	2.063	1.062	.005 - .010	2.104	1.250	.060 - .080	2.125	.705	.005 - .010	2.134	1.898	.020 - .040
2.019	1.623	.015 - .030	2.047	.807	.070 - .090	2.063	1.312	.005 - .010	2.104	1.680	.040 - .060	2.125	.761	.060 - .090	2.135	1.120	.100 - .120
2.020	.280	.100 - .125	2.047	.828	.025 - .040	2.063	1.628	.005 - .010	2.106	1.808	.015 - .030	2.125	.813	.110 - .135	2.136	1.578	.060 - .080
2.020	1.551	.080 - .100	2.047	.965	.025 - .040	2.063	1.454	.040 - .060	2.106	1.814	.050 - .075	2.125	.895	.005 - .010	2.137	1.969	.005 - .010
2.020	1.682	.015 - .030	2.047	.985	.070 - .080	2.065	1.564	.040 - .070	2.107	.314	.105 - .125	2.125	.907	.020 - .030	2.138	1.897	.005 - .010
2.021	.604	.005 - .010	2.047	1.102	.060 - .080	2.065	1.570	.050 - .070	2.108	1.801	.075 - .090	2.125	1.015	.105 - .125	2.138	1.968	.025 - .040
2.021	1.014	.005 - .010	2.047	1.274	.005 - .010	2.065	1.722	.015 - .030	2.109	1.726	.025 - .040	2.125	1.070	.005 - .010	2.139	1.417	.080 - .104
2.021	1.669	.015 - .030	2.047	1.417	.060 - .080	2.065	1.857	.075 - .090	2.109	1.829	.080 - .100	2.125	1.075	.010 - .020	2.139	1.454	.005 - .010
2.022	1.184	.010 - .020	2.047	1.692	.060 - .080	2.066	1.718	.030 - .050	2.110	1.929	.005 - .010	2.125	1.100	.030 - .050	2.139	1.818	.005 - .010
2.024	.810	.030 - .050	2.047	1.773	.015 - .030	2.070	1.180	.080 - .104	2.111	1.436	.010 - .020	2.125	1.123	.060 - .080	2.139	1.821	.025 - .040
2.025	1.531	.050 - .070	2.047	1.811	.025 - .040	2.070	1.530	.020 - .030	2.112	1.260	.080 - .105	2.125	1.251	.050 - .075	2.139	1.896	.030 - .040
2.025	1.600	.010 - .020	2.048	.296	.005 - .010	2.070	1.780	.090 - .105	2.112	1.509	.020 - .040	2.125	1.252	.090 - .105	2.140	1.730	.025 - .040
2.026	1.874	.040 - .060	2.048	.626	.005 - .010	2.071	1.749	.010 - .020	2.112	1.831	.050 - .070	2.125	1.260	.075 - .090	2.140	2.012	.040 - .060
2.027	1.575	.015 - .030	2.048	.631	.005 - .010	2.072	1.277	.015 - .030	2.113	.256	.006 - .016	2.125	1.308	.025 - .050	2.142	1.545	.030 - .050
2.029	1.222	.005 - .010	2.048	1.260	.070 - .090	2.074	.628	.005 - .010	2.113	.876	.015 - .030	2.125	1.339	.080 - .105	2.142	1.941	.005 - .010
2.029	1.626	.050 - .070	2.048	1.378	.030 - .050	2.074	1.500	.040 - .060	2.113	1.497	.070 - .090	2.125	1.376	.015 - .030	2.142	2.003	.005 - .010
2.029	1.755	.005 - .010	2.048	1.387	.005 - .010	2.075	1.969	.030 - .050	2.113	1.535	.010 - .020	2.125	1.408	.030 - .050	2.143	1.621	.005 - .010
2.030	.936	.050 - .070	2.048	1.393	.070 - .090	2.076	1.629	.050 - .070	2.113	1.735	.040 - .060	2.125	1.439	.015 - .030	2.143	1.730	.020 - .040
2.030	1.060	.050 - .070	2.048	1.748	.020 - .040	2.077	1.155	.080 - .104	2.113	1.890	.020 - .040	2.125	1.500	.015 - .104	2.143	1.791	.010 - .020
2.030	1.184	.050 - .070	2.049	1.209	.005 - .010	2.077	1.380	.080 - .104	2.113	1.916	.005 - .010	2.125	1.504	.040 - .060	2.144	1.890	.005 - .010
2.030	1.310	.050 - .070	2.049	1.854	.005 - .010	2.077	1.639	.030 - .050	2.114	1.190	.025 - .040	2.125	1.507	.005 - .060	2.144	1.831	.050 - .070
2.030	1.434	.050 - .070	2.050	.140	.060 - .080	2.077	1.719	.030 - .050	2.114	1.900	.015 - .030	2.125	1.526	.040 - .060	2.145	.845	.005 - .010
2.030	1.500	.005 - .010	2.050	.253	.005 - .010	2.078	1.237	.005 - .010	2.115	.986	.080 - .100	2.125	1.562	.050 - .070	2.145	1.730	.005 - .010
2.030	1.715	.016 - .030	2.050	.406	.105 - .125	2.078	1.620	.005 - .010	2.115	1.762	.020 - .030	2.125	1.580	.005 - .010	2.145	1.967	.005 - .010
2.031	.936	.005 - .010	2.050	.506	.005 - .010	2.078	1.691	.050 - .060	2.116	1.330	.030 - .050	2.125	1.625	.015 - .030	2.146	1.645	.070 - .090
2.031	1.755	.005 - .030	2.050	.626	.010 - .020	2.079	1.750	.060 - .080	2.117	1.152	.005 - .010	2.125	1.641	.010 - .040	2.146	1.654	.075 - .090
2.032	.489	.005 - .010	2.050	.627	.010 - .020	2.080	.834	.070 - .090	2.117	1.764	.005 - .010	2.125	1.642	.040 - .060	2.146	1.743	.005 - .020
2.032	.880	.005 - .010	2.050	.629	.005 - .010	2.080	1.600	.005 - .040	2.118	1.382	.070 - .090	2.125	1.671	.010 - .020	2.147	1.671	.030 - .050
2.033	.877	.025 - .040	2.050	.630	.005 - .020	2.080	1.695	.090 - .105	2.118	1.508	.105 - .125	2.125	1.750	.010 - .020	2.148	.626	.015 - .030
2.033	1.525	.010 - .030	2.050	.651	.080 - .100	2.080	1.719	.030 - .040	2.118	1.537	.005 - .010	2.125	1.751	.090 - .105	2.148	.690	.105 - .135
2.033	1.562	.020 - .030	2.050	.731	.010 - .020	2.081	.820	.042 - .060	2.118	1.610	.070 - .080	2.125	1.757	.025 - .050	2.148	.878	.105 - .135

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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
2.148	1.003	.010 - .020	2.167	1.772	.070 - .090	2.200	1.885	.060 - .080	2.240	.782	.156 - .188	2.249	1.217	.005 - .010	2.250	1.620	.040 - .060
2.148	1.764	.030 - .040	2.169	.720	.020 - .030	2.200	1.920	.020 - .030	2.240	1.115	.020 - .030	2.249	1.640	.005 - .020	2.250	1.628	.110 - .130
2.148	1.778	.050 - .070	2.170	.536	.005 - .010	2.201	.505	.005 - .020	2.240	1.200	.016 - .032	2.249	1.711	.040 - .060	2.250	1.630	.005 - .020
2.148	1.988	.060 - .075	2.170	.597	.005 - .010	2.201	.755	.005 - .010	2.240	1.384	.080 - .105				2.250	1.631	.005 - .020
2.150	.505	.010 - .020	2.170	1.520	.015 - .030	2.201	1.520	.040 - .060	2.240	1.440	.105 - .135				2.250	1.668	.020 - .075
2.150	.631	.010 - .020	2.170	1.556	.005 - .010	2.201	2.010	.010 - .020	2.240	1.631	.015 - .030				2.250	1.687	.025 - .040
2.150	.813	.100 - .125	2.171	.662	.005 - .010	2.201	2.039	.005 - .010	2.240	1.762	.040 - .060				2.250	1.751	.005 - .020
2.150	1.250	.100 - .125	2.171	1.900	.010 - .020	2.202	.752	.015 - .030	2.240	2.010	.005 - .040				2.250	1.768	.050 - .075
2.150	1.379	.020 - .040	2.171	1.969	.005 - .010	2.202	1.887	.005 - .010	2.240	2.025	.005 - .010				2.250	1.780	.005 - .010
2.150	1.778	.015 - .050	2.172	.476	.005 - .010	2.203	.255	.100 - .125	2.241	.698	.020 - .040				2.250	1.781	.050 - .070
2.150	1.900	.005 - .010	2.172	1.760	.020 - .030	2.203	1.026	.010 - .020	2.241	.880	.030 - .050	2.250	.125	.050 - .070	2.250	1.782	.090 - .105
2.151	.629	.005 - .010	2.173	1.393	.005 - .010	2.203	1.582	.050 - .075	2.241	1.578	.100 - .125	2.250	.136	.015 - .025	2.250	1.801	.100 - .134
2.151	.687	.100 - .125	2.173	1.709	.005 - .010	2.203	1.884	.030 - .050	2.241	1.700	.015 - .030	2.250	.164	.010 - .020	2.250	1.810	.125 - .135
2.151	.874	.100 - .125	2.175	1.710	.020 - .040	2.205	1.122	.050 - .070	2.242	.644	.005 - .010	2.250	.216	.060 - .080	2.250	1.844	.040 - .075
2.151	1.379	.025 - .040	2.176	.942	.050 - .070	2.205	1.127	.040 - .060	2.242	1.565	.005 - .010	2.250	.257	.020 - .040	2.250	1.875	.050 - .075
2.152	.630	.005 - .010	2.176	2.068	.010 - .020	2.205	1.772	.070 - .090	2.242	1.726	.080 - .105	2.250	.325	.075 - .104	2.250	1.912	.070 - .090
2.153	.724	.100 - .134	2.177	.500	.120 - .140	2.205	1.912	.070 - .090	2.242	1.761	.050 - .070	2.250	.370	.050 - .070	2.250	1.920	.020 - .040
2.153	.875	.100 - .125	2.177	1.545	.010 - .020	2.206	.631	.005 - .010	2.242	1.844	.080 - .105	2.250	.378	.050 - .075	2.250	1.969	.010 - .015
2.153	1.725	.050 - .070	2.177	2.051	.040 - .060	2.206	1.791	.005 - .010	2.243	.762	.030 - .050	2.250	.394	.030 - .050	2.250	2.025	.020 - .040
2.153	2.013	.040 - .060	2.178	.362	.050 - .070	2.206	1.980	.050 - .100	2.243	1.009	.060 - .080	2.250	.400	.100 - .125	2.250	2.082	.005 - .010
2.154	.132	.016 - .030	2.179	1.208	.005 - .010	2.208	1.928	.060 - .070	2.243	1.551	.010 - .020	2.250	.439	.100 - .125	2.250	1.287	.040 - .060
2.154	1.780	.040 - .060	2.179	1.500	.030 - .050	2.209	1.219	.010 - .020	2.244	1.857	.015 - .030	2.250	.478	.030 - .050	2.250	1.761	.040 - .060
2.154	1.957	.010 - .020	2.180	.780	.005 - .010	2.210	1.015	.050 - .060	2.245	.330	.005 - .010	2.250	.500	.105 - .120	2.250	1.900	.040 - .060
2.155	1.097	.050 - .070	2.180	.781	.015 - .030	2.210	1.215	.090 - .125	2.245	.633	.005 - .010	2.250	.507	.030 - .050	2.250	1.980	.005 - .010
2.155	1.325	.005 - .010	2.180	1.133	.070 - .090	2.210	1.625	.040 - .125	2.245	.886	.105 - .125	2.250	.517	.005 - .110	2.251	.266	.005 - .010
2.155	1.957	.015 - .030	2.180	1.200	.005 - .075	2.211	.127	.040 - .060	2.245	1.005	.060 - .070	2.250	.519	.170 - .190	2.251	.378	.025 - .040
2.156	.345	.030 - .060	2.180	1.662	.080 - .100	2.211	1.933	.010 - .020	2.245	1.192	.005 - .010	2.250	.531	.050 - .060	2.251	.540	.134 - .156
2.156	.877	.110 - .130	2.181	.499	.015 - .030	2.213	1.657	.010 - .020	2.245	1.259	.090 - .105	2.250	.562	.135 - .156	2.251	.579	.090 - .105
2.156	1.312	.050 - .070	2.181	1.507	.025 - .040	2.215	.880	.050 - .075	2.245	1.319	.025 - .040	2.250	.620	.030 - .050	2.251	.812	.005 - .010
2.156	2.006	.015 - .030	2.182	1.511	.050 - .070	2.215	.913	.005 - .040	2.245	1.343	.025 - .042	2.250	.626	.015 - .030	2.251	.905	.030 - .050
2.157	.344	.050 - .075	2.182	2.067	.010 - .020	2.215	.916	.005 - .010	2.245	1.375	.080 - .105	2.250	.629	.040 - .060	2.251	1.083	.120 - .140
2.157	.350	.005 - .010	2.182	2.092	.025 - .035	2.215	.933	.040 - .060	2.245	1.380	.030 - .050	2.250	.639	.015 - .030	2.251	1.377	.040 - .060
2.157	.629	.120 - .135	2.183	1.384	.100 - .125	2.215	1.153	.060 - .090	2.245	1.395	.010 - .020	2.250	.640	.156 - .187	2.251	1.501	.030 - .050
2.157	1.253	.005 - .010	2.184	1.788	.030 - .040	2.215	1.434	.075 - .100	2.245	1.417	.080 - .125	2.250	.641	.125 - .156	2.251	1.519	.025 - .040
2.157	1.344	.050 - .075	2.185	1.781	.030 - .050	2.215	1.510	.005 - .010	2.245	1.738	.110 - .130	2.250	.642	.105 - .125	2.251	1.538	.005 - .010
2.157	1.427	.040 - .050	2.186	1.550	.020 - .040	2.215	1.976	.010 - .020	2.245	2.007	.010 - .015	2.250	.643	.135 - .156	2.251	1.563	.030 - .040
2.157	1.670	.015 - .030	2.187	.251	.050 - .070	2.215	1.977	.010 - .020	2.245	1.921	.020 - .040	2.250	.662	.140 - .160	2.251	2.025	.105 - .135
2.157	2.006	.010 - .020	2.187	.565	.005 - .010	2.216	.914	.050 - .060	2.246	.378	.080 - .100	2.250	.688	.104 - .125	2.251	2.125	.040 - .060
2.158	1.060	.075 - .090	2.187	.822	.060 - .080	2.216	1.575	.025 - .040	2.246	.627	.025 - .040	2.250	.745	.020 - .040	2.252	.377	.025 - .040
2.158	1.063	.080 - .120	2.188	.320	.050 - .070	2.217	1.632	.040 - .060	2.246	.631	.156 - .179	2.250	.750	.075 - .104	2.252	.758	.040 - .060
2.158	1.469	.005 - .010	2.188	.446	.050 - .070	2.218	.127	.042 - .060	2.246	1.048	.050 - .070	2.250	.759	.090 - .105	2.252	.781	.090 - .120
2.158	1.564	.080 - .120	2.188	.781	.100 - .134	2.218	.328	.010 - .020	2.246	1.058	.050 - .070	2.250	.771	.060 - .080	2.252	1.000	.040 - .060
2.158	1.727	.030 - .050	2.188	1.126	.050 - .075	2.219	1.686	.010 - .020	2.246	1.064	.025 - .040	2.250	.781	.100 - .134	2.252	1.032	.005 - .010
2.159	.386	.010 - .020	2.188	1.069	.030 - .050	2.220	.190	.005 - .010	2.246	1.813	.050 - .075	2.250	.790	.040 - .060	2.252	1.253	.050 - .070
2.159	1.690	.025 - .040	2.189	1.690	.025 - .040	2.220	.886	.005 - .010	2.247	.538	.010 - .020	2.250	.795	.050 - .070	2.252	1.511	.050 - .075
2.160	1.127	.020 - .030	2.190	1.125	.025 - .040	2.220	1.290	.150 - .164	2.247	.762	.005 - .010	2.250	.874	.060 - .080	2.252	1.656	.005 - .010
2.160	1.400	.040 - .125	2.190	1.455	.020 - .040	2.220	1.906	.050 - .070	2.247	.905	.010 - .020	2.250	.875	.125 - .156	2.252	1.887	.005 - .010
2.160	1.730	.020 - .040	2.190	1.517	.015 - .030	2.220	1.832	.010 - .030	2.247	1.200	.010 - .020	2.250	.877	.070 - .090	2.252	1.979	.080 - .105
2.162	.668	.020 - .030	2.190	1.627	.005 - .010	2.221	1.312	.100 - .125	2.248	.250	.105 - .120	2.250	.880	.005 - .010	2.253	.188	.025 - .040
2.162	.756	.025 - .040	2.190	1.711	.015 - .030	2.222	.826	.030 - .050	2.248	.620	.015 - .030	2.250	.885	.125 - .135	2.253	.252	.025 - .040
2.162	.857	.020 - .030	2.191	1.254	.015 - .030	2.225	.812	.020 - .040	2.248	.656	.156 - .187	2.250	1.004	.080 - .100	2.253	.517	.105 - .125
2.162	1.512	.080 - .105	2.191	1.892	.060 - .080	2.225	1.804	.050 - .070	2.248	.883	.005 - .010	2.250	1.014	.005 - .010	2.253	.642	.120 - .135
2.162	1.724	.134 - .160	2.191	2.005	.015 - .030	2.226	1.616	.080 - .100	2.248	1.033	.105 - .120	2.250	1.022	.090 - .104	2.253	.780	.005 - .010
2.162	1.760	.032 - .050	2.192	1.636	.040 - .062	2.226	1.650	.020 - .040	2.248	1.127	.050 - .075	2.250	1.040	.010 - .090	2.253	1.011	.030 - .050
2.163	.252	.030 - .050	2.192	1.754	.030 - .040	2.227	1.451	.050 - .070	2.248	1.190	.005 - .010	2.250	1.060	.015 - .030	2.253	1.063	.120 - .156
2.163	.678	.005 - .010	2.193	.972	.025 - .042	2.227	1.800	.020 - .070	2.248	1.249	.015 - .030	2.250	1.067	.005 - .010	2.253	1.145	.120 - .134
2.163	1.929	.060 - .080	2.193	1.934	.030 - .040	2.227	1.855	.105 - .135	2.248	1.250	.090 - .105	2.250	1.180	.105 - .135	2.253	1.751	.105 - .135
2.163	2.028	.005 - .010	2.193	2.006	.010 - .020	2.228	1.685	.105 - .125	2.248	1.290	.105 - .125	2.250	1.255	.040 - .060	2.253	1.752	.050 - .070
2.164	.987	.050 - .070	2.196	1.698	.010 - .020	2.228	1.857	.060 - .090	2.248	1.315	.005 - .010	2.250	1.256	.005 - .010	2.253	1.973	.050 - .070
2.164	1.801	.025 - .040	2.196	1.702	.005 - .010	2.230	1.800	.030 - .120	2.248	1.507	.030 - .050	2.250	1.257	.025 - .042	2.253	2.011	.020 - .032
2.164	1.898	.070 - .090	2.196	1.982	.005 - .010	2.230	1.937	.072 - .090	2.248	1.508	.005 - .010	2.250	1.263	.060 - .080	2.254	1.511	.020 - .030
2.164	1.908	.050 - .070	2.197	1.650	.040 - .060	2.230	1.939	.005 - .010	2.248	1.655	.005 - .090	2.250	1.265	.050 - .135	2.254	1.555	.110 - .130
2.165	.254	.005 - .010	2.198	1.047	.040 - .060	2.231	1.763	.050 - .060	2.248	1.749	.015 - .035	2.250	1.274	.080 - .104	2.255	1.032	.090 - .120
2.165	.323	.030 - .050	2.198	1.126	.040 - .060	2.232	1.761	.050 - .070	2.248	1.753	.005 - .010	2.250	1.278	.100 - .134	2.255	1.242	.030 - .040
2.165	.502	.010 - .020	2.198	2.047	.005 - .010	2.232	1.764	.010 - .030	2.248	1.767	.080 - .100	2.250	1.279	.005 - .010	2.255	1.625	.040 - .062
2.165	.670	.105 - .135	2.199	.250	.005 - .010	2.233	1.845	.010 - .020	2.248	1.875	.030 - .050	2.250	1.286	.010 - .020	2.255	1.645	.005 - .010
2.165	1.379	.020 - .040	2.199	.629	.015 - .030	2.234	1.250	.015 - .025	2.248	1.889	.025 - .040	2.250	1.311	.040 - .060	2.256	1.281	.090 - .125
2.165	1.380	.005 - .010	2.199	.706	.050 - .070	2.235	1.034	.005 - .010	2.248	1.912	.050 - .070	2.250	1.335	.025 - .050	2.256	1.778	.030 - .040
2.165	1.506	.050 - .070	2.199	.840	.005 - .010	2.235	1.499	.050 - .070	2.248	1.990	.005 - .010	2.250	1.375	.010 - .020	2.257	1.938	.005 - .010
2.165	1.645	.005 - .010	2.200	.360	.050 - .070	2.235	1.509	.005 - .030	2.248	2.000	.010 - .020	2.250	1.380	.015 - .030	2.260	.880	.030 - .040
2.165	1.660	.080 - .100	2.200	.628	.010 - .020	2.235	1.640	.005 - .010	2.248	2.002	.080 - .100	2.250	1.387	.105 - .134	2.260	1.268	.005 - .010
2.165	1.701	.030 - .050	2.200	.880	.060 - .070	2.235	1.950	.040 - .060	2.248	1.834	.005 - .010	2.250	1.425	.030 - .050	2.260	1.320	.010 - .030
2.165	1.790	.040 - .050	2.200	1.010	.005 - .060	2.236	1.442	.005 - .010	2.249	.316	.050 - .070	2.250	1.438	.030 - .050	2.260	1.890	.015 - .030
2.165	1.800	.005 - .010	2.200	1.378	.105 - .125	2.236	1.562	.070 - .090	2.249	.438	.156 - .187	2.250	1.442	.050 - .075	2.265	1.635	.005 - .010
2.165	1.968	.005 - .010	2.200	1.519	.030 - .050	2.238	.640	.130 - .150	2.249	.439	.104 - .120	2.250	1.500	.060 - .156	2.265	1.880	.010 - .020
2.166	.458	.090 - .105	2.200	1.599	.048 - .075	2.238	1.427	.025 - .040	2.249	.540	.015 - .030	2.250	1.510	.005 - .010	2.266	.354	.060 - .080
2.166	1.216	.050 - .070	2.200	1.700	.048 - .075	2.239	.875	.100 - .125	2.249	.542	.150 - .170	2.250	1.530	.042 - .060	2.267	1.932	.025 - .040
2.166	1.594	.060 - .090	2.200	1.800	.105 - .120	2.239	1.020	.156 - .188	2.249	.752	.005 - .010	2.250	1.563	.050 - .104	2.268	.316	.015 - .030
2.167	1.408	.070 - .090	2.200	1.830	.040 - .060	2.239	1.260	.050 - .060	2.249	.756	.005 - .010	2.250	1.598	.030 - .050	2.269	.916	.005 - .010
2.167	1.718	.005 - .010	2.200	1.884	.030 - .050	2.239	1.773	.050 - .070	2.249	.800	.080 - .100	2.250	1.615	.015 - .030	2.269	1.260	.050 - .070

2.250

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

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
2.270	1.813	.020 - .030	2.310	1.873	.070 - .090	2.348	2.000	.042 - .062	2.370	1.704	.005 - .020	2.378	.689	.040 - .060	2.401	.761	.010 - .030
2.270	1.885	.030 - .050	2.310	1.997	.010 - .025	2.348	2.067	.015 - .030	2.370	2.152	.005 - .020	2.378	1.255	.005 - .010	2.401	1.209	.015 - .030
2.270	1.890	.036 - .060	2.311	.312	.030 - .050	2.349	.502	.100 - .120	2.370	2.153	.050 - .070	2.378	1.785	.025 - .035	2.401	1.889	.015 - .010
2.270	1.967	.070 - .090	2.311	.532	.050 - .070	2.349	1.494	.025 - .040	2.371	1.515	.050 - .070	2.378	1.800	.090 - .125	2.401	2.067	.025 - .040
2.270	1.980	.015 - .030	2.311	.633	.030 - .050	2.349	2.005	.060 - .090	2.371	1.865	.015 - .030	2.378	1.849	.090 - .105	2.402	.760	.015 - .030
2.271	.258	.060 - .080	2.311	1.067	.005 - .010	2.350	.754	.015 - .030	2.372	.418	.015 - .030	2.378	1.997	.090 - .115	2.402	.857	.050 - .070
2.271	1.979	.005 - .010	2.311	1.688	.025 - .040	2.350	1.250	.090 - .105	2.372	.866	.025 - .060	2.378	2.000	.040 - .060	2.402	1.970	.070 - .090
2.271	1.980	.005 - .010	2.311	1.934	.050 - .070	2.350	1.267	.050 - .070	2.372	1.000	.025 - .040	2.378	2.005	.040 - .060	2.402	2.000	.060 - .075
2.272	.443	.080 - .100	2.311	2.080	.030 - .050	2.350	1.396	.005 - .010	2.372	1.015	.100 - .125	2.379	.876	.060 - .080	2.402	2.295	.005 - .030
2.273	.590	.100 - .125	2.312	.502	.125 - .135	2.350	1.815	.005 - .010	2.372	1.512	.050 - .075	2.379	1.505	.040 - .060	2.403	2.196	.005 - .010
2.273	.665	.100 - .125	2.312	.563	.050 - .070	2.350	1.947	.090 - .105	2.372	1.654	.040 - .060	2.379	1.630	.010 - .030	2.404	1.903	.005 - .010
2.273	1.910	.010 - .020	2.312	1.003	.005 - .010	2.350	2.010	.010 - .040	2.372	1.990	.015 - .030	2.379	2.011	.030 - .040	2.405	.135	.005 - .010
2.273	1.968	.005 - .020	2.312	1.640	.015 - .030	2.351	.270	.080 - .100	2.373	.193	.060 - .080	2.380	.551	.080 - .105	2.405	.993	.080 - .104
2.274	1.544	.010 - .020	2.312	1.651	.105 - .134	2.351	.628	.010 - .020	2.373	.210	.030 - .050	2.380	.670	.050 - .075	2.405	2.125	.010 - .025
2.275	.881	.025 - .040	2.312	1.802	.005 - .010	2.351	1.659	.010 - .020	2.373	.630	.015 - .030	2.380	.870	.060 - .090	2.405	2.217	.040 - .060
2.275	2.000	.005 - .010	2.312	1.881	.010 - .020	2.352	.638	.156 - .190	2.373	.642	.080 - .100	2.380	1.000	.040 - .060	2.407	.658	.100 - .120
2.277	1.184	.060 - .080	2.312	2.000	.040 - .060	2.352	1.660	.005 - .010	2.373	.755	.005 - .010	2.380	1.250	.030 - .040	2.408	1.875	.020 - .040
2.277	1.785	.005 - .010	2.313	1.828	.015 - .030	2.354	2.100	.010 - .020	2.373	.876	.050 - .070	2.380	1.632	.010 - .020	2.409	1.873	.030 - .050
2.278	1.674	.105 - .135	2.313	1.992	.005 - .010	2.355	1.873	.005 - .010	2.373	1.125	.025 - .040	2.380	1.649	.030 - .050	2.410	1.908	.007 - .035
2.278	1.868	.050 - .070	2.313	2.185	.005 - .010	2.355	2.217	.010 - .020	2.373	1.281	.030 - .045	2.380	1.700	.050 - .060	2.411	2.187	.005 - .010
2.278	1.919	.040 - .060	2.314	.745	.070 - .090	2.356	.815	.080 - .105	2.373	1.300	.040 - .060	2.380	1.937	.040 - .060	2.414	1.624	.005 - .010
2.278	1.940	.040 - .060	2.314	1.313	.020 - .060	2.358	1.095	.025 - .040	2.373	1.500	.050 - .070	2.380	1.997	.015 - .030	2.414	1.935	.025 - .040
2.278	1.990	.050 - .070	2.314	1.758	.025 - .040	2.358	1.542	.030 - .050	2.373	1.739	.015 - .025	2.380	2.020	.090 - .105	2.416	1.519	.040 - .060
2.279	.313	.030 - .050	2.314	1.991	.005 - .010	2.358	1.600	.020 - .040	2.373	1.912	.005 - .010	2.380	2.090	.010 - .020	2.416	1.911	.030 - .040
2.279	1.746	.020 - .030	2.315	1.906	.040 - .060	2.358	1.932	.135 - .156	2.373	1.937	.030 - .050	2.381	.328	.050 - .070	2.417	1.465	.050 - .070
2.280	1.070	.040 - .060	2.315	1.986	.090 - .105	2.358	2.130	.010 - .020	2.373	2.166	.040 - .060	2.381	1.437	.025 - .040	2.418	1.873	.020 - .040
2.280	1.150	.025 - .040	2.315	2.032	.040 - .060	2.359	1.260	.020 - .040	2.374	.346	.105 - .125	2.381	1.552	.020 - .040	2.419	2.187	.005 - .010
2.280	2.032	.050 - .070	2.316	.173	.040 - .060	2.360	.438	.070 - .090	2.374	.560	.040 - .060	2.382	2.014	.105 - .125	2.420	1.873	.020 - .030
2.282	1.575	.125 - .135	2.316	.623	.020 - .040	2.360	.728	.050 - .070	2.374	.625	.050 - .075	2.383	.881	.060 - .080	2.420	2.100	.020 - .030
2.282	1.771	.050 - .070	2.316	1.757	.032 - .050	2.360	1.003	.050 - .070	2.374	.900	.020 - .040	2.384	.318	.090 - .110	2.420	2.180	.020 - .035
2.283	.334	.060 - .080	2.316	2.058	.005 - .010	2.360	1.133	.160 - .190	2.374	1.066	.005 - .010	2.385	.254	.080 - .100	2.420	2.186	.015 - .030
2.283	1.261	.080 - .104	2.317	1.941	.025 - .040	2.360	1.262	.005 - .010	2.374	1.170	.030 - .187	2.385	1.877	.010 - .020	2.420	2.187	.030 - .050
2.283	1.948	.015 - .030	2.317	1.969	.070 - .080	2.360	1.375	.015 - .060	2.374	1.374	.050 - .070	2.385	1.935	.060 - .080	2.421	2.125	.020 - .040
2.284	2.043	.040 - .060	2.318	.771	.005 - .010	2.360	1.578	.005 - .040	2.374	1.535	.040 - .060	2.387	1.366	.050 - .075	2.422	1.522	.110 - .130
2.284	2.070	.030 - .040	2.318	1.760	.005 - .010	2.360	1.958	.010 - .020	2.374	1.537	.020 - .040	2.388	1.433	.060 - .070	2.422	2.040	.100 - .125
2.285	.768	.075 - .090	2.318	1.942	.020 - .040	2.360	2.165	.005 - .010	2.374	1.757	.010 - .020	2.388	1.701	.050 - .070	2.422	2.215	.005 - .010
2.285	2.070	.005 - .010	2.320	1.580	.070 - .090	2.361	1.009	.025 - .070	2.374	1.811	.005 - .050	2.388	2.048	.040 - .060	2.423	1.422	.005 - .008
2.287	.770	.080 - .104	2.320	1.681	.005 - .010	2.361	1.047	.005 - .010	2.374	1.990	.100 - .120	2.389	1.443	.050 - .060	2.423	1.623	.030 - .050
2.290	1.125	.105 - .134	2.321	1.580	.010 - .020	2.361	1.181	.080 - .120	2.375	.139	.040 - .062	2.390	1.120	.015 - .030	2.425	1.520	.040 - .060
2.290	2.160	.020 - .040	2.321	2.053	.005 - .010	2.361	1.774	.010 - .020	2.375	.165	.030 - .050	2.390	1.188	.050 - .070	2.425	1.552	.020 - .030
2.291	1.630	.030 - .050	2.322	.192	.015 - .030	2.361	2.026	.040 - .060	2.375	.280	.025 - .040	2.390	1.328	.010 - .050	2.425	1.899	.010 - .020
2.293	1.127	.090 - .105	2.322	1.770	.030 - .040	2.362	.240	.020 - .030	2.375	.369	.156 - .187	2.390	1.850	.020 - .040	2.427	1.187	.010 - .020
2.295	1.857	.030 - .050	2.322	2.000	.015 - .030	2.362	.502	.010 - .020	2.375	.375	.104 - .134	2.391	2.070	.005 - .010	2.427	1.191	.050 - .070
2.295	1.858	.020 - .030	2.323	.311	.015 - .030	2.362	1.002	.005 - .010	2.375	.390	.160 - .190	2.391	2.078	.040 - .060	2.428	1.510	.050 - .070
2.295	2.052	.025 - .040	2.323	1.948	.070 - .090	2.362	1.541	.020 - .050	2.375	.503	.015 - .025	2.393	1.100	.010 - .050	2.428	2.001	.020 - .030
2.296	.187	.025 - .040	2.323	2.165	.050 - .070	2.362	1.575	.020 - .040	2.375	.506	.080 - .100	2.395	.813	.040 - .060	2.428	2.020	.042 - .060
2.296	.501	.015 - .025	2.323	1.813	.005 - .010	2.362	1.875	.005 - .010	2.375	.640	.040 - .060	2.395	1.435	.050 - .070	2.430	1.651	.010 - .020
2.296	2.068	.025 - .040	2.324	1.253	.025 - .040	2.362	2.007	.088 - .100	2.375	.687	.050 - .075	2.395	1.443	.050 - .070	2.430	1.938	.010 - .020
2.297	1.960	.005 - .010	2.324	1.811	.020 - .040	2.362	2.075	.015 - .030	2.375	.717	.100 - .135	2.395	2.000	.020 - .030	2.430	2.000	.020 - .040
2.298	.402	.105 - .125	2.325	1.851	.050 - .070	2.363	1.010	.005 - .015	2.375	.945	.006 - .020	2.395	2.099	.005 - .010	2.430	2.118	.015 - .025
2.298	1.325	.005 - .010	2.325	2.008	.015 - .060	2.363	1.122	.100 - .120	2.375	1.067	.120 - .140	2.396	1.085	.010 - .020	2.430	2.121	.005 - .010
2.299	1.205	.005 - .010	2.325	2.062	.005 - .010	2.363	1.526	.120 - .135	2.375	1.269	.100 - .125	2.396	1.783	.005 - .010	2.431	2.090	.005 - .010
2.300	.196	.005 - .010	2.325	2.148	.005 - .010	2.363	1.870	.060 - .080	2.375	1.345	.050 - .070	2.396	2.099	.010 - .060	2.431	2.091	.020 - .030
2.300	.504	.010 - .020	2.328	.500	.120 - .135	2.363	1.889	.010 - .020	2.375	1.371	.100 - .120	2.396	2.151	.030 - .050	2.432	1.005	.015 - .025
2.300	.628	.005 - .010	2.328	1.199	.030 - .050	2.363	2.206	.010 - .020	2.375	1.381	.005 - .010	2.397	2.024	.030 - .050	2.432	1.267	.025 - .040
2.300	.631	.005 - .010	2.328	2.006	.005 - .010	2.364	.630	.105 - .125	2.375	1.490	.025 - .050	2.398	2.170	.005 - .010	2.432	1.679	.040 - .050
2.300	1.314	.105 - .135	2.330	1.200	.005 - .010	2.365	.674	.125 - .156	2.375	1.500	.010 - .020	2.399	1.393	.080 - .105	2.432	2.000	.005 - .015
2.300	1.654	.050 - .070	2.331	1.627	.090 - .110	2.365	1.136	.005 - .010	2.375	1.639	.100 - .125	2.399	1.560	.025 - .040	2.432	2.140	.020 - .030
2.300	1.678	.005 - .010	2.334	2.162	.010 - .020	2.365	2.266	.015 - .030	2.375	1.645	.005 - .010	2.399	1.681	.025 - .040	2.433	1.866	.010 - .020
2.300	1.950	.030 - .050	2.334	2.164	.025 - .040	2.366	1.508	.030 - .050	2.375	1.688	.030 - .040	2.399	1.713	.005 - .010	2.433	2.188	.010 - .020
2.300	2.000	.040 - .060	2.335	1.968	.050 - .070	2.366	1.570	.030 - .050	2.375	1.766	.050 - .075	2.399	1.720	.035 - .050	2.434	1.483	.030 - .050
2.301	.625	.005 - .010	2.335	1.995	.020 - .030	2.366	1.827	.030 - .050	2.375	1.785	.015 - .030	2.399	2.133	.050 - .075	2.434	1.501	.050 - .075
2.301	1.480	.050 - .125	2.338	1.636	.020 - .040	2.367	1.520	.100 - .125	2.375	1.906	.042 - .060	2.399	2.165	.020 - .040	2.434	1.531	.030 - .050
2.302	1.620	.050 - .070	2.339	.430	.060 - .080	2.368	1.379	.040 - .060	2.375	1.925	.050 - .070	2.400	.504	.005 - .010	2.434	2.187	.050 - .070
2.303	2.000	.005 - .010	2.339	2.235	.020 - .030	2.368	1.380	.015 - .030	2.375	1.938	.050 - .187	2.400	.505	.010 - .020	2.435	1.255	.125 - .156
2.303	2.194	.005 - .010	2.340	1.752	.005 - .025	2.368	1.640	.050 - .070	2.375	2.019	.020 - .040	2.400	.511	.105 - .135	2.435	1.900	.050 - .075
2.304	1.905	.100 - .120	2.341	2.200	.005 - .060	2.368	2.069	.005 - .010	2.375	2.105	.005 - .010	2.400	.753	.010 - .020	2.435	2.255	.010 - .015
2.304	2.000	.005 - .010	2.342	1.770	.075 - .090	2.369	.245	.010 - .020	2.375	2.125	.040 - .060	2.400	1.320	.015 - .030	2.435	2.263	.015 - .030
2.305	1.498	.008 - .016	2.342	2.001	.050 - .070	2.369	.816	.015 - .030	2.375	1.812	.060 - .080	2.400	1.734	.080 - .105	2.436	1.750	.090 - .105
2.305	1.681	.050 - .075	2.343	1.773	.005 - .010	2.369	1.701	.005 - .010	2.376	.314	.060 - .080	2.400	1.818	.005 - .010	2.436	1.877	.005 - .010
2.306	1.899	.048 - .062	2.344	1.033	.020 - .040	2.369	1.875	.050 - .070	2.376	.631	.120 - .140	2.400	1.838	.060 - .080	2.437	1.257	.050 - .070
2.307	1.199	.030 - .050	2.345	.718	.090 - .105	2.370	.135	.005 - .010	2.376	.755	.030 - .060	2.400	1.850	.010 - .020	2.437	1.313	.040 - .060
2.307	1.893	.110 - .130	2.345	1.370	.060 - .070	2.370	.246	.005 - .010	2.376	1.406	.010 - .020	2.400	1.933	.005 - .010	2.437	1.425	.025 - .042
2.308	2.208	.005 - .015	2.346	2.074	.030 - .050	2.370	.510	.005 - .010	2.376	1.443	.040 - .060	2.400	1.999	.045 - .060	2.437	1.498	.010 - .020
2.309	1.061	.015 - .030	2.346	1.750	.005 - .010	2.370	.852	.005 - .010	2.376	1.828	.030 - .050	2.400	2.001	.005 - .010	2.437	1.875	.020 - .035
2.310	.661	.015 - .030	2.347	1.437	.050 - .070	2.370	.884	.050 - .060	2.376	1.875	.040 - .060	2.400	2.047	.050 - .070	2.437	2.000	.005 - .075
2.310	.890	.030 - .050	2.347	2.110	.005 - .010	2.370	1.254	.110 - .130	2.377	.261	.090 - .120	2.400	2.062	.020 - .040	2.437	2.187	.025 - .040
2.310	1.136	.080 - .105	2.348	.747	.050 - .070	2.370	1.588	.090 - .105	2.377	.502	.005 - .010	2.400	2.200	.015 - .050	2.437	2.250	.020 - .040
2.310	1.636	.005 - .010	2.348	.783	.075 - .090	2.370	1.681	.005 - .010	2.377	1.512	.050 - .075	2.400	2.205	.005 - .010	2.438	.350	.005 - .010
2.310	1.693	.005 - .010	2.348	1.380	.060 - .080	2.370	2.001	.080 - .105	2.377	1.783	.005 - .010	2.400	2.220	.050 - .070	2.438	.390	.042 - .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
2.438	.691	.105 - .135	2.485	1.667	.010 - .020	2.499	1.270	.005 - .010	2.500	1.375	.030 - .040	2.505	.195	.060 - .080	2.563	2.028	.005 - .010
2.438	.940	.100 - .125	2.487	1.015	.134 - .187	2.499	1.313	.105 - .135	2.500	1.392	.040 - .060	2.505	.929	.050 - .070	2.564	1.706	.080 - .105
2.438	2.007	.040 - .060	2.487	1.425	.030 - .050	2.499	1.379	.060 - .070	2.500	1.394	.040 - .060	2.505	1.413	.120 - .135	2.564	2.435	.005 - .010
2.438	2.160	.015 - .025	2.487	1.635	.005 - .010	2.499	1.387	.060 - .080	2.500	1.500	.105 - .125	2.505	1.416	.100 - .134	2.565	.412	.005 - .010
2.438	2.214	.040 - .060	2.488	1.998	.010 - .020	2.499	1.498	.025 - .040	2.500	1.510	.020 - .050	2.505	1.989	.005 - .010	2.565	2.146	.015 - .045
2.438	1.693	.020 - .040	2.489	1.748	.050 - .070	2.499	1.749	.005 - .020	2.500	1.511	.050 - .060	2.507	.562	.050 - .125	2.565	2.434	.005 - .020
2.439	1.966	.040 - .060	2.489	1.776	.015 - .020	2.499	1.757	.040 - .060	2.500	1.517	.005 - .010	2.507	2.310	.015 - .025	2.566	2.320	.040 - .060
2.439	1.977	.005 - .015	2.489	2.002	.005 - .010	2.499	1.889	.010 - .020	2.500	1.523	.050 - .070	2.510	.502	.090 - .105	2.567	.407	.030 - .050
2.439	2.164	.015 - .030	2.490	1.436	.005 - .010	2.499	1.952	.005 - .010	2.500	1.529	.070 - .090	2.511	.698	.105 - .125	2.570	1.827	.070 - .090
2.440	.837	.105 - .135	2.490	1.853	.005 - .010	2.499	2.061	.015 - .020	2.500	1.561	.050 - .075	2.511	.781	.040 - .060	2.570	1.828	.010 - .020
2.440	1.274	.050 - .070	2.490	1.980	.090 - .110				2.500	1.606	.025 - .042	2.511	1.980	.030 - .060	2.571	.710	.080 - .100
2.440	1.968	.005 - .010	2.490	1.996	.105 - .125				2.500	1.624	.040 - .060	2.515	.145	.015 - .030	2.574	2.250	.010 - .020
2.440	1.978	.020 - .030	2.490	2.060	.005 - .010				2.500	1.625	.005 - .060	2.515	2.218	.080 - .100	2.575	.711	.040 - .060
2.440	1.982	.015 - .030	2.491	1.011	.120 - .156				2.500	1.635	.090 - .125	2.516	1.581	.070 - .090	2.578	1.025	.030 - .060
2.440	2.175	.005 - .010	2.491	1.508	.080 - .125				2.500	1.750	.040 - .060	2.516	1.683	.030 - .050	2.578	2.076	.005 - .010
2.440	2.219	.090 - .105	2.492	1.069	.005 - .010	2.500	.100	.015 - .030	2.500	1.755	.005 - .010	2.518	1.575	.060 - .080	2.579	2.060	.090 - .120
2.440	2.262	.040 - .050	2.493	.752	.048 - .062	2.500	.113	.015 - .035	2.500	1.756	.105 - .125	2.518	1.918	.040 - .060	2.580	1.381	.120 - .135
2.440	2.290	.005 - .010	2.493	1.255	.080 - .100	2.500	.144	.005 - .020	2.500	1.759	.090 - .105	2.520	.354	.060 - .080	2.580	2.137	.020 - .040
2.440	2.330	.010 - .020	2.493	1.400	.025 - .035	2.500	.149	.080 - .090	2.500	1.770	.040 - .060	2.520	.368	.005 - .010	2.580	2.196	.015 - .025
2.441	1.527	.050 - .070	2.493	1.562	.080 - .105	2.500	.188	.090 - .105	2.500	1.777	.015 - .062	2.520	1.921	.020 - .030	2.580	2.338	.020 - .040
2.446	.315	.105 - .125	2.493	1.785	.125 - .156	2.500	.198	.010 - .020	2.500	1.787	.040 - .060	2.520	2.121	.015 - .030	2.582	1.750	.010 - .020
2.447	1.500	.005 - .010	2.493	1.850	.120 - .135	2.500	.261	.100 - .135	2.500	1.796	.075 - .156	2.520	2.194	.050 - .070	2.583	.880	.040 - .060
2.447	2.040	.015 - .030	2.493	2.000	.040 - .060	2.500	.266	.005 - .010	2.500	1.814	.010 - .031	2.520	2.255	.005 - .010	2.585	.536	.110 - .130
2.447	2.059	.005 - .010	2.493	2.062	.040 - .060	2.500	.312	.125 - .156	2.500	1.820	.005 - .010	2.522	1.921	.005 - .010	2.586	2.031	.020 - .040
2.447	2.129	.040 - .060	2.494	.616	.030 - .050	2.500	.370	.050 - .070	2.500	1.889	.030 - .050	2.523	2.040	.035 - .062	2.588	.391	.060 - .080
2.448	1.749	.005 - .010	2.494	1.257	.005 - .010	2.500	.375	.080 - .104	2.500	1.890	.020 - .030	2.524	.533	.005 - .010	2.589	2.100	.040 - .060
2.448	1.989	.070 - .090	2.495	.508	.105 - .125	2.500	.385	.125 - .156	2.500	1.900	.010 - .025	2.528	2.328	.020 - .030	2.590	.345	.105 - .125
2.448	2.089	.005 - .010	2.495	.616	.010 - .020	2.500	.390	.090 - .120	2.500	1.945	.010 - .060	2.530	1.251	.060 - .070	2.590	2.253	.050 - .070
2.449	1.970	.015 - .035	2.495	.620	.015 - .060	2.500	.400	.005 - .010	2.500	1.954	.025 - .040	2.530	1.875	.060 - .080	2.591	2.373	.020 - .030
2.450	.504	.010 - .020	2.495	1.150	.005 - .010	2.500	.405	.105 - .135	2.500	1.978	.042 - .062	2.530	2.192	.005 - .010	2.591	2.376	.015 - .030
2.450	.753	.015 - .030	2.495	1.319	.105 - .135	2.500	.438	.090 - .110	2.500	1.990	.010 - .031	2.530	2.260	.020 - .030	2.594	2.368	.020 - .030
2.450	1.192	.040 - .060	2.495	1.400	.005 - .010	2.500	.440	.080 - .100	2.500	2.001	.005 - .010	2.530	2.316	.005 - .010	2.595	1.580	.020 - .080
2.450	2.133	.015 - .032	2.495	1.651	.030 - .050	2.500	.454	.105 - .135	2.500	2.002	.036 - .135	2.531	2.331	.015 - .025	2.598	1.625	.080 - .100
2.450	2.135	.005 - .030	2.495	2.046	.005 - .010	2.500	.500	.090 - .135	2.500	2.030	.020 - .030	2.533	2.365	.005 - .010	2.598	2.392	.005 - .010
2.450	2.140	.012 - .020	2.495	2.060	.050 - .075	2.500	.501	.015 - .035	2.500	2.125	.040 - .050	2.534	2.087	.050 - .060	2.599	1.378	.010 - .020
2.450	2.305	.040 - .050	2.495	2.120	.090 - .110	2.500	.520	.105 - .125	2.500	2.146	.005 - .010	2.539	.301	.040 - .060	2.599	1.387	.060 - .080
2.451	.629	.010 - .020	2.495	1.257	.060 - .080	2.500	.563	.036 - .060	2.500	2.175	.005 - .060	2.540	1.528	.030 - .050	2.600	.503	.005 - .020
2.451	.814	.005 - .010	2.496	1.122	.005 - .010	2.500	.623	.040 - .060	2.500	2.250	.025 - .040	2.540	1.942	.005 - .010	2.600	.629	.010 - .020
2.452	1.630	.060 - .080	2.496	1.123	.010 - .050	2.500	.624	.005 - .010	2.500	2.258	.040 - .080	2.540	2.090	.010 - .020	2.600	.752	.015 - .030
2.453	1.565	.060 - .075	2.496	1.665	.080 - .093	2.500	.628	.010 - .020	2.500	2.271	.020 - .035	2.540	2.095	.030 - .050	2.600	.753	.008 - .015
2.453	1.791	.075 - .095	2.496	2.361	.005 - .010	2.500	.630	.010 - .020	2.500	2.313	.005 - .010	2.541	1.939	.025 - .040	2.600	.755	.010 - .020
2.453	1.820	.060 - .080	2.497	.408	.030 - .050	2.500	.635	.015 - .030	2.500	2.314	.020 - .030	2.542	1.897	.005 - .010	2.600	.812	.005 - .020
2.453	1.828	.134 - .156	2.497	.813	.045 - .060	2.500	.641	.120 - .135	2.500	2.343	.005 - .010	2.544	1.393	.005 - .010	2.600	1.185	.005 - .010
2.453	2.050	.120 - .135	2.497	1.049	.005 - .010	2.500	.656	.156 - .187	2.500	1.306	.005 - .010	2.544	2.241	.040 - .060	2.600	1.456	.020 - .030
2.454	1.020	.015 - .030	2.497	1.311	.005 - .010	2.500	.660	.105 - .135	2.500	1.850	.015 - .030	2.548	1.996	.050 - .070	2.600	1.782	.020 - .030
2.454	1.827	.105 - .125	2.497	1.314	.040 - .060	2.500	.688	.105 - .125	2.500	2.011	.040 - .060	2.548	2.213	.005 - .010	2.600	2.120	.060 - .080
2.460	1.726	.050 - .060	2.497	1.318	.080 - .105	2.500	.751	.060 - .080	2.501	.253	.010 - .020	2.549	1.904	.005 - .010	2.600	2.176	.018 - .031
2.462	1.727	.050 - .070	2.497	1.331	.005 - .010	2.500	.752	.010 - .020	2.501	.447	.050 - .070	2.549	2.049	.005 - .010	2.600	2.180	.018 - .030
2.462	1.940	.020 - .040	2.497	1.506	.020 - .040	2.500	.756	.100 - .125	2.501	.627	.010 - .125	2.550	.410	.005 - .010	2.600	2.300	.040 - .060
2.468	.381	.105 - .135	2.497	1.518	.030 - .050	2.500	.760	.090 - .105	2.501	.688	.160 - .190	2.550	2.022	.005 - .010	2.601	1.391	.070 - .090
2.469	1.270	.010 - .020	2.497	1.680	.005 - .010	2.500	.770	.070 - .090	2.501	1.199	.005 - .010	2.550	2.300	.005 - .010	2.601	2.011	.040 - .060
2.469	2.123	.010 - .020	2.497	2.029	.005 - .010	2.500	.822	.120 - .135	2.501	1.249	.005 - .070	2.555	1.873	.005 - .010	2.602	1.378	.010 - .020
2.469	2.264	.005 - .010	2.498	.125	.030 - .050	2.500	.845	.105 - .125	2.501	1.250	.060 - .090	2.555	1.899	.030 - .048	2.602	2.402	.030 - .050
2.470	.502	.040 - .060	2.498	.188	.025 - .040	2.500	.871	.015 - .030	2.501	1.500	.005 - .010	2.556	2.364	.040 - .060	2.603	1.250	.020 - .040
2.470	2.362	.005 - .010	2.498	.283	.025 - .040	2.500	.879	.005 - .010	2.501	1.530	.005 - .010	2.557	1.640	.010 - .020	2.603	1.932	.050 - .070
2.472	.814	.125 - .135	2.498	.300	.040 - .060	2.500	.912	.090 - .110	2.501	1.625	.080 - .100	2.558	1.385	.050 - .075	2.603	2.180	.020 - .031
2.473	1.220	.070 - .090	2.498	.379	.005 - .008	2.500	.934	.070 - .090	2.501	1.745	.104 - .134	2.558	2.070	.060 - .070	2.604	1.559	.050 - .070
2.473	2.000	.010 - .020	2.498	.385	.020 - .040	2.500	.951	.040 - .060	2.501	2.137	.020 - .040	2.559	.417	.135 - .156	2.605	1.685	.050 - .070
2.475	.568	.005 - .010	2.498	.752	.005 - .010	2.500	.984	.070 - .090	2.501	2.186	.005 - .010	2.559	1.639	.010 - .020	2.605	1.810	.050 - .070
2.475	.870	.125 - .135	2.498	.755	.005 - .010	2.500	1.000	.005 - .040	2.502	.314	.005 - .010	2.559	1.897	.105 - .120	2.607	2.015	.010 - .030
2.475	1.351	.070 - .080	2.498	1.062	.090 - .105	2.500	1.006	.060 - .070	2.502	.401	.015 - .030	2.560	.531	.135 - .187	2.607	2.063	.050 - .070
2.475	1.770	.005 - .010	2.498	1.126	.090 - .120	2.500	1.014	.110 - .130	2.502	.637	.005 - .010	2.560	1.136	.050 - .070	2.608	2.063	.025 - .040
2.477	1.968	.030 - .080	2.498	1.261	.060 - .080	2.500	1.020	.005 - .010	2.502	.771	.005 - .010	2.560	1.220	.040 - .050	2.608	2.200	.035 - .050
2.478	1.230	.075 - .105	2.498	1.359	.015 - .030	2.500	1.034	.036 - .050	2.502	1.134	.040 - .060	2.560	1.250	.025 - .040	2.610	.513	.090 - .135
2.478	1.598	.005 - .010	2.498	1.449	.070 - .090	2.500	1.038	.005 - .010	2.502	1.500	.020 - .030	2.560	1.422	.030 - .050	2.610	2.262	.005 - .010
2.478	1.889	.020 - .040	2.498	1.515	.125 - .135	2.500	1.062	.120 - .156	2.502	1.501	.080 - .100	2.560	1.879	.005 - .010	2.611	2.303	.030 - .050
2.478	1.980	.060 - .070	2.498	1.532	.110 - .135	2.500	1.130	.010 - .060	2.502	1.796	.070 - .090	2.560	1.898	.090 - .105	2.612	2.300	.050 - .070
2.478	1.757	.080 - .090	2.498	1.568	.020 - .050	2.500	1.150	.093 - .125	2.502	1.800	.070 - .090	2.560	2.366	.005 - .010	2.613	1.697	.025 - .040
2.479	2.100	.015 - .030	2.498	1.625	.010 - .020	2.500	1.185	.110 - .125	2.502	1.999	.125 - .156	2.561	.760	.020 - .040	2.615	.560	.100 - .125
2.480	.750	.060 - .075	2.498	1.687	.005 - .010	2.500	1.192	.040 - .060	2.502	2.273	.005 - .010	2.561	1.657	.100 - .134	2.615	2.136	.010 - .020
2.480	2.255	.005 - .010	2.498	1.881	.020 - .030	2.500	1.262	.010 - .020	2.502	2.282	.025 - .040	2.561	2.091	.042 - .060	2.615	2.140	.050 - .075
2.481	1.673	.105 - .135	2.498	1.910	.060 - .070	2.500	1.268	.050 - .070	2.503	.509	.010 - .020	2.561	2.177	.010 - .020	2.615	2.354	.020 - .030
2.481	2.185	.005 - .010	2.498	2.002	.005 - .015	2.500	1.272	.015 - .025	2.503	.625	.040 - .060	2.562	.407	.030 - .050	2.617	1.549	.050 - .075
2.482	2.142	.025 - .040	2.498	2.015	.050 - .070	2.500	1.275	.105 - .125	2.503	1.252	.090 - .100	2.562	1.562	.100 - .125	2.618	1.760	.105 - .125
2.482	2.150	.050 - .070	2.498	2.032	.015 - .030	2.500	1.279	.100 - .125	2.503	1.578	.020 - .030	2.562	1.811	.020 - .035	2.618	2.007	.015 - .030
2.483	1.591	.080 - .090	2.498	2.119	.060 - .080	2.500	1.280	.005 - .010	2.503	2.076	.070 - .090	2.562	2.313	.010 - .020	2.619	1.754	.015 - .030
2.483	2.110	.020 - .030	2.498	2.310	.070 - .080	2.500	1.295	.010 - .020	2.503	2.139	.030 - .040	2.562	1.521	.020 - .040	2.619	2.124	.015 - .025
2.484	1.640	.005 - .010	2.499	.325	.060 - .080	2.500	1.300	.070 - .090	2.504	.875	.100 - .120	2.563	.756	.020 - .040	2.620	.412	.010 - .020
2.485	1.055	.135 - .156	2.499	1.026	.005 - .010	2.500	1.311	.040 - .060	2.504	1.501	.050 - .070	2.563	2.003	.020 - .040	2.620	.553	.005 - .010
2.485	1.395	.105 - .125	2.499	1.061	.050 - .070	2.500	1.346	.005 - .010	2.505	.145	.025 - .040	2.563	2.006	.015 - .030	2.620	1.124	.005 - .008

2.500

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

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

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From	To
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
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
2.625	1.998	.050	.070
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	.254	.020	.040
2.630	.411	.015	.030
2.630	1.419	.030	.050
2.630	1.610	.090	.105
2.630	2.291	.060	.080
2.630	2.292	.005	.010
2.630	2.385	.030	.060
2.630	1.689	.020	.040
2.631	2.288	.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
2.652	1.910	.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
2.684	2.178	.020	.040
2.685	.843	.020	.040
2.685	.844	.030	.050
2.685	2.177	.010	.030
2.687	1.635	.090	.105
2.692	.126	.005	.010
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
2.730	2.060	.040	.060
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
2.740	1.501	.010	.030
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
2.749	2.497	.005	.010

2.750

O.D.	I.D.	Choose Any Thickness* From	To
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	1.312	.040	.060
2.750	1.562	.040	.060
2.750	1.635	.020	.030
2.750	1.880	.020	.040
2.750	2.000	.010	.050
2.750	2.370	.010	.015
2.750	2.500	.010	.020
2.750	1.437	.050	.070
2.750	2.453	.005	.010
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
2.787	2.390	.015	.025
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
2.800	2.600	.010	.030
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
2.819	2.565	.030	.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
2.855	2.295	.015	.025
2.867	2.476	.015	.025
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
2.873	1.371	.005	.010
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
2.880	2.528	.030	.050
2.883	2.000	.008	.016
2.885	2.177	.020	.040
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
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
2.953	.551	.015	.025
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
2.992	2.323	.010	.030
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	.060
3.000	.312	.040	.060
3.000	.343	.010	.015
3.000	.375	.020	.040
3.000	.531	.090	.105
3.000	.535	.040	.060
3.000	.560	.050	.070
3.000	.750	.090	.105
3.000	.890	.020	.040
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	2.444	.020	.040
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
3.080	2.190	.040	.050
3.085	2.458	.060	.080
3.090	1.650	.048	.062
3.093	2.628	.020	.040
3.093	2.760	.010	.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
3.100	2.500	.005	.010
3.107	2.122	.040	.060
3.110	2.888	.010	.020
3.110	2.890	.010	.020
3.120	2.747	.040	.060
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
3.150	2.835	.015	.025
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
3.240	2.629	.010	.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	.030
3.259	2.694	.010	.060
3.263	2.558	.030	.040
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
3.312	2.375	.015	.025
3.313	2.188	.010	.020
3.313	2.753	.025	.040
3.325	3.145	.015	.025
3.337	.308	.080	.090
3.340	2.943	.020	.030
3.341	2.565	.005	.010
3.347	2.559	.030	.050
3.364	1.404	.020	.030
3.367	2.065	.020	.030
3.370	2.625	.048	.062
3.373	2.870	.005	.010
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
3.475	2.595	.010	.030
3.481	2.415	.010	.020
3.482	2.703	.032	.042
3.484	2.880	.035	.048
3.490	2.990	.010	.030
3.491	2.000	.010	.015
3.494	.636	.090	.125
3.497	2.670	.060	.080
3.498	2.798	.030	.040
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
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

3.000

3.500

*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.

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

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

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
3.570	1.090	.030	.040	3.819	3.415	.040	.060					4.120	3.150	.035	.050	4.398	3.986	.015	.030	4.960	4.260	.020	.030
3.572	3.135	.030	.050	3.823	3.332	.030	.040					4.125	1.781	.040	.050	4.402	2.778	.010	.020	4.975	3.165	.025	.040
3.572	3.134	.030	.050	3.850	1.780	.020	.040					4.125	3.430	.020	.030	4.420	3.890	.020	.030	4.994	4.904	.020	.040
3.575	1.020	.036	.050	3.850	2.805	.005	.010					4.125	3.750	.020	.040	4.432	3.810	.020	.035				
3.586	3.275	.020	.032	3.858	2.765	.010	.020					4.127	3.214	.048	.062	4.434	3.153	.010	.015				
3.590	3.375	.020	.040	3.870	1.370	.020	.032	4.000	.504	.040	.060	4.130	.660	.020	.030	4.435	.756	.050	.070				
3.609	2.250	.025	.040	3.874	1.642	.050	.062	4.000	.690	.040	.060	4.150	3.576	.020	.030	4.470	3.470	.020	.030				
3.609	2.500	.025	.040	3.875	1.150	.040	.060	4.000	1.010	.050	.070	4.195	2.136	.010	.020	4.471	3.468	.020	.030				
3.620	.750	.040	.060	3.880	2.515	.030	.050	4.000	2.000	.008	.015	4.200	3.505	.020	.032	4.480	4.030	.025	.035				
3.625	2.030	.062	.080	3.881	2.396	.050	.060	4.000	2.031	.040	.060	4.218	1.618	.020	.040	4.490	4.223	.030	.050				
3.625	2.562	.020	.040	3.889	2.315	.020	.030	4.000	2.281	.008	.015	4.224	1.520	.020	.032	4.499	2.058	.010	.020	5.000	.270	.040	.060
3.625	3.032	.010	.020	3.900	2.700	.050	.060	4.000	2.530	.030	.050	4.224	2.020	.020	.040	4.500	.504	.040	.060	5.000	1.562	.030	.050
3.625	3.196	.020	.030	3.900	3.360	.020	.040	4.000	2.562	.048	.062	4.240	2.525	.020	.032	4.500	2.500	.048	.062	5.125	4.393	.015	.025
3.640	2.072	.020	.040	3.904	3.513	.030	.040	4.000	2.577	.020	.040	4.250	.780	.010	.020	4.550	.243	.040	.060	5.140	2.860	.006	.012
3.647	2.346	.015	.036	3.908	2.352	.020	.040	4.000	2.780	.040	.060	4.250	.801	.020	.030	4.570	3.870	.020	.030				
3.661	2.992	.010	.030	3.924	.492	.030	.050	4.000	3.000	.008	.025	4.250	3.550	.050	.060	4.623	4.328	.010	.015				
3.663	2.427	.040	.060	3.925	2.224	.020	.030	4.000	3.362	.010	.020	4.250	3.570	.020	.030	4.688	3.560	.005	.010				
3.700	2.899	.040	.060	3.937	1.673	.010	.020	4.000	3.410	.020	.030	4.250	3.660	.015	.025	4.688	3.879	.005	.010				
3.700	2.960	.020	.040	3.937	2.008	.015	.025	4.000	3.426	.020	.030	4.254	3.018	.040	.050	4.700	3.865	.010	.020				
3.733	3.332	.020	.035	3.937	2.362	.020	.032	4.000	3.544	.015	.025	4.270	3.935	.020	.040	4.706	3.140	.020	.030				
3.735	3.300	.010	.020	3.940	3.150	.050	.060	4.000	3.360	.010	.030	4.300	3.200	.020	.040	4.710	3.873	.010	.020				
3.750	.656	.090	.105	3.945	3.505	.020	.040	4.015	3.572	.040	.060	4.308	2.746	.020	.040	4.720	3.884	.020	.035				
3.750	.875	.020	.035	3.960	3.612	.030	.050	4.025	3.060	.040	.060	4.320	2.385	.020	.040	4.730	4.083	.030	.050				
3.750	3.015	.005	.010	3.987	1.891	.010	.015	4.026	3.309	.050	.060	4.358	.485	.048	.062	4.850	4.450	.005	.010				
3.750	3.250	.035	.045	3.997	1.381	.005	.010	4.055	1.299	.050	.060	4.368	3.273	.020	.035	4.860	.390	.090	.125				
3.761	1.870	.030	.050	3.998	2.998	.010	.020	4.055	3.750	.005	.010	4.370	3.670	.010	.020	4.860	4.350	.020	.036				
3.780	3.049	.020	.040					4.065	3.275	.020	.030	4.373	3.776	.010	.015	4.860	4.600	.015	.030				
3.781	1.435	.030	.050					4.095	3.858	.010	.020	4.375	4.083	.030	.040	4.875	3.018	.020	.030				
3.800	3.300	.020	.035					4.096	3.267	.010	.020	4.376	3.258	.025	.040	4.935	4.763	.015	.025				
3.800	3.350	.020	.040					4.120	2.549	.020	.030	4.380	3.375	.006	.012	4.950	4.393	.010	.020				

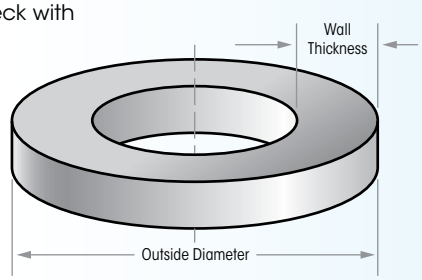
4.000

5.000

For outside diameters up to 12" contact BOKER'S at (800) 927-4377.

Did You Know?
Washer Wall Thickness

Acceptable limits for minimal wall thickness on flat washers can be determined by reviewing the table below. There can be exceptions but you should always check with a Boker's Sales Associate for more information.



WALL THICKNESS TABLE

O.D. RANGE		MINIMUM WALL THICKNESS	
Inches	*Millimeters*	*Inches*	*Millimeters*
.1875 – .375	4.76 – 9.5	.0625	1.6
.375 – 1	9.5 – 25	.09375	2.4
1 – 2	25 – 51	.125	3.2
2 – 3	51 – 76	.1875	4.76
3 – 5	76 – 127	.25	6.35

For:	*Minimum Wall:*
Low carbon steel—annealed 1050 high carbon steel—annealed Copper alloys—all tempers Aluminum alloys—all tempers	Two times material thickness but not less than above chart
Stainless steel annealed blue steel* Pre-tempered high carbon steel*	Three times material thickness but not less than above chart

*Note: Contact your Boker's Sales Associate for exceptions. Special tooling or setup procedures sometimes permit a narrower wall thickness. There is a limit of up to .020" maximum thickness of blue steel and pre-tempered high carbon steel.

Did You Know?
Edge Conditions

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

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"

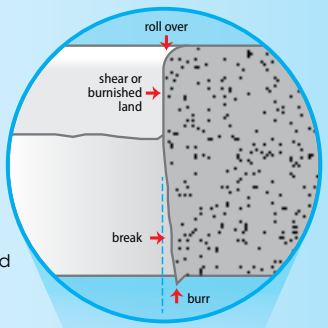
Boker's maximum burr on metallic washers and stampings

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

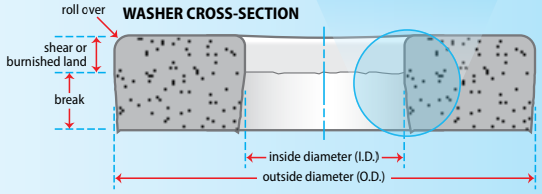
Shear or Burnished Land: This is a burnished area which is approximately one third of the material thickness.

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

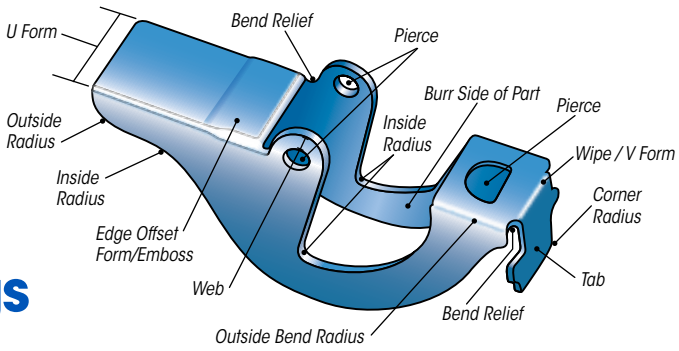
Roll Over: This area is a natural consequence of the punching process and the mechanical properties of the material being punched and the die application techniques employed.



DETAIL CLOSE-UP



WASHER CROSS-SECTION

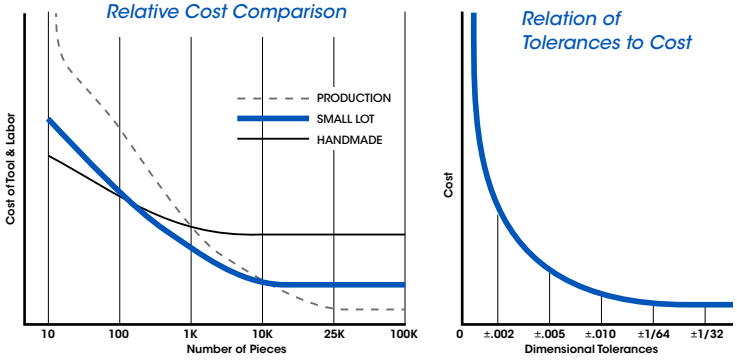


The Designer's Guide to Precision Metal Stampings

INTRODUCTION

Boker's has been a metal stamping leader for over 100 years. The following is excerpted from a longer white paper authored by Boker's regarding short-run stamped components and considerations for design engineers regarding these crucial pieces.

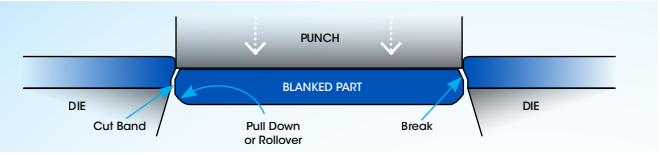
The basics of metal stampings.
Precision metal stampings are produced by converting flat metal sheet or coil into engineered component parts for manufacturers. Parts can be flat and simple or complex profiles. Stampings are produced using a variety of punch presses that brings to bear ten to hundreds-of-tons of stamping pressure onto the sheet or coil. In their most basic operation, punch presses use a corresponding die and punch tool for flat blanking—a flat metal cutout of the exact periphery shape and size of the part. Additional metal forming stages are often employed to produce complex parts and profiles including piercing, and metal forming operations such as bending, drawing, flanging, embossing, rolling, and others.



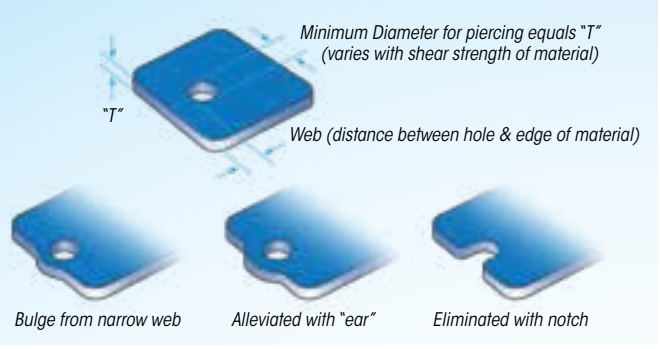
What are the advantages of short-run custom stampings?
Compared to permanent production tooling, short-run stamping offers high quality and durability plus considerable manufacturing advantages—primarily in cost and time. Significantly lower initial tooling costs versus permanent tooling offers savings that gives manufacturers greater design and component inventory flexibility. Small quantity needs, customization, pilot runs, testing, frequently-changing designs, functional prototypes and limited production runs are all opportunities for short-run stampings that would be less feasible with expensive permanent tooling.

STAMPING OPERATIONS

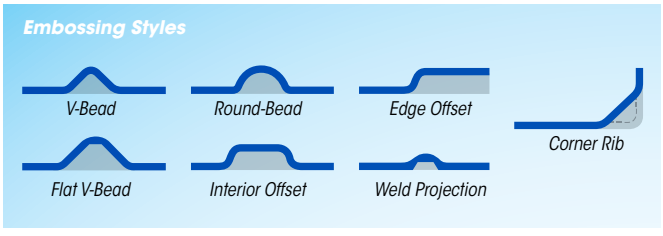
Flat Blanking
Flat blanking is the process of stamping out the perimeter of a product from sheet or coil material to produce more complex metal blanks. Blanking can also be performed with flat non-metallic sheet or coil material.



Metal Piercing
Piercing metal is a shearing process used to produce holes, slots and/or notches with tight tolerances within a component part or raw material. The punched side of pierced metal produces a clean cut with high output rates often making it a more productive method than drilling, machining, or using a laser. Boker's utilizes a CAD drawing system, over 70 different punch presses, digital servo feeders and compound as well as progressive dies to transform raw material into your most complex components.



Metal Forming
Metal forming is the process of converting a flat piece of metal into a three-dimensional part. Metal forming can be done in a variety of ways including bending, drawing, embossing, rolling etc.



[**DOWNLOAD THE FULL PAPER.** *We invite you to read or download the complete report at* ***bokers.com/stampingguide.***]

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 its 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.

Estimated Non-Metallic I.D. Shrinkage Factor

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

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 parts as well.

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 twelve percent of the material thickness depending on the material used and its thickness. Rely on Boker's experienced Sales Associates to determine the proper tool to manufacture the size part you specify.

Glossary of Terms

Bar Coding – Machine readable alphabetic and/or numeric information used for identification of packaged parts.

Barrel Tumbling – Process in which parts to be deburred are put together with abrasive material into a barrel and rotated for prolonged periods for the purpose of burr removal.

Bend Radius – Inside radius.

Bend Relief – Clearance notch at an end of flange to allow bending without distorting or tearing adjacent material.

Bending – Generally applied to forming. Creation of a formed feature by angular displacement of a sheet metal workpiece. See also "Drawing" and "Forming."

Blank – (1) Sheet metal stock from which a product is to be made. (2) Workpiece resulting from blanking operation.

Blanking – Die cutting of the outside shape of a part.

Bow Distortion – Out of flatness condition in sheet material commonly known as "Oil Canning" in which, with the edges of the sheet restrained, the center of the sheet can be popped back and forth but cannot be flattened without specialized equipment.

Breakout – Fractured portion of the cross section of a cut edge of stock. A condition naturally occurring during shearing, blanking, punching and other cutting operations.

Burn Mark – Heat discoloration created in the contact area of a welding electrode.

Burr – Raised, sharp edge inherent in cutting operations such as shearing, blanking, punching and drilling.

Burr Direction – Side of the stock on which burrs appear.

Burr-Free – Edge without sharp protrusions.

Burr Height – Height to which burr is raised beyond the surface of the material.

Burr Rollover – Condition of burr displacement resulting from mechanical deburring operation.

Chain Dimensioning – Drafting practice which dimensions repetitive features from each other rather than a common datum.

Clamp Marks - Slight indentations at the edge of one side of stock caused by pressure from turret press holding devices.

Coining – Compressive metal flowing action.

Compound Die – Tool used to pierce, form and blank a part at the same time, with one stroke of the press.

Concentricity – Dimensional relationship of 2 or more items sharing a common center line.

Corner – Three surfaces meeting at one point.

Corner Radius – Outside radius.

Counterboring – Machining or coining operation to generate a cylindrical flat-bottomed hole.

Countersinking – Machining or coining operation to generate a conical angle on a hole.

Cumulative Tolerance – Progressive accumulation of tolerances resulting from multiple operations or assembly of multiple parts.

Datums – Theoretically exact planes, lines or points from which other features are located on design drawings.

Deburr – To remove the sharp, knife-like edge from parts.

Dedicated Tooling – Commonly referred to as "hard tooling"— tooling made to produce a specific part.

Die – Tool with a void or cavity which is precisely fitted to a "Punch" used to shear or form sheet metal parts.

Die Clearance – Amount of space between the punch and die opening.

Die Marks – Scratches, scrub marks, indentations, galling or burnishing of sheet metal workpieces by tooling.

Drawing – (1) Engineering document depicting a part or assembly. (2) In metalforming, the stretching or compressing of a sheet metal part into a die by a punch to create a 3-dimensional part. See also "Bending".

Ductility – Ability of a material to be bent or otherwise formed without fracture.

Edge Bulge – Condition resulting from any forming, piercing, hardware insertion or spot welding operation too close to an edge.

Edge-to-Feature – A dimension between the edge of the part and a feature.

Feature-to-Feature – Dimension between two features on a part.

Fixture – Tooling designed to locate and hold components in position.

Flange – Formed projection or rim of a part generally used for stiffness or assembly.

Flat or Matte – Coating surface which displays no gloss when observed at any angle; a perfectly diffused reflecting surface.

Formed Tab – Small flange bent at an angle from the body of a metal workpiece.

Forming – Operation converting a flat sheet metal workpiece into a three dimensional part. See also "Bending" and "Drawing".

Gauge – (1) Instrument for measuring, testing, or registering. (2) Numeric scale for metal thickness.

Go/No-Go Gauge – Measuring device with two registration elements which determine if a feature to be measured is between two established limits.

Gouge – Surface imperfection, deeper than a scratch, often with raised edges.

Grain Direction – (1) Crystalline orientation of material in the direction of mill rolling. (2) Orientation of a surface finish generated by abrasive method.

Grinding – Process of removing material by abrasion.

Half Shearing – Partial penetration piercing, creating a locating button with a height of about 1/2 material thickness.

Hard Tooling – Tooling made for a specific part. Also called "dedicated tooling".

Hem (Dutch Bend) – Edge of material doubled over onto itself for the purpose of safe handling or to increase edge stiffness.

Hold-Down Marks – Slight indentations or scuff marks on one side of the stock which can result from the pressure of hold-down devices during shearing operations.

Hole Rollover – Rounding of the top edge of a pierced feature caused by the ductility of the metal, which flows in the direction of the applied force.

Hole-to-Form – Distance from the edge of a hole to the inside edge of a formed feature.

Hole-to-Hole – Dimension between the centers of holes.

Hydraulic Press – Machine which exerts working pressure by hydraulic means.

Inspection Criteria – Characteristics by which the part will be evaluated both dimensionally and cosmetically.

Lead Time – Time required to manufacture a product from order placement until availability.

Master Die – Universal tool receptacle for holding changeable tool systems.

Metal Thinning – Thickness reduction during any forming operation.

Model – Pre-production sample made with limited emphasis on tolerance to test a design concept. See also "Prototype".

Nesting – (1) Grouping of identical or different parts in multiples within a workpiece to conserve material. (2) In packaging, stacking of parts whose shape permits one to fit inside another.

Nibble Marks – Slight irregularities at the edge of the stock surface after progressive punching ("nibbling") operations in a turret press.

Notching – Operation in which the punch removes material from the edge or corner of a strip or blank.

Penetration – (1) Depth of a cutting operation before breakout occurs. (2) In welding, the depth of material through which fusion occurs.

Perpendicularity – Dimensional relationship of a part or datum located at right angles (90°) to a given feature.

Piercing – Punching of openings such as holes and slots in material.

Pinch Trim – Trimming excess material from a drawn part at the bottom of the stroke. Leaves drawn shell without an inside burr, but with an outside burr and a thinned edge.

Progressive Tool – Die using multiple stations or operations to produce a variety of options. Can incorporate piercing, forming, extruding and drawing, and is usually applied to high quantity production runs.

Prototype – First part of a design which is made to test tolerance capability, tooling concepts and manufacturability.

Pull Down – Area of material next to the penetrating edge of a piercing punch, or die edge of the blanking station, where the material yields i.e., flows in the direction of the applied force creating a rounded edge. Also known as "roll-over".

Punch Press – Machine supplying compression force for reshaping materials.

Punch Side – Opposite side from burr side for pierced features; side on which the punch enters the material.

Quick Change Inserts – Tool sections or parts which may be changed without removing the entire tool from the press.

Rerolling – Final cold rolling operation, usually done to achieve specific thickness control and improved finish.

Roundness – Extent to which a feature is circular.

Run Out Flange – Feature on a formed part which is designated by the designer to absorb the tolerance accumulations created by multiple forming operations.

Scrap – Leftover, unused material relegated to recycling.

Shear-to-Feature – Shearing of an edge of stock to an exact dimension from an already existing feature.

Shearing – Cutting force applied perpendicular to material causing the material to yield and break.

Shut Height – Clearance in a press between ram and bed with ram down and adjustment up.

Slide Forming – A high-volume stamping process in which a machine with multiple slides sequentially performs various operations (i.e. – blanking, piercing, forming, etc.).

Slug – Scrap from a piercing operation.

Slug Marks – Surface defects caused by scrap being indented into the metal surface.

Spot Face – Circular flat surface as a bearing area for hardware.

Squareness – Measure of perpendicularity of adjacent edges or surfaces.

Spring Back – Partial rebounding of formed material caused by its elasticity.

Staking – Method of fastening using displaced material for retention.

Stiffening Rib – Embossed feature in a sheet metal workpiece which is added to make the part more rigid.

Stretcher Leveled – A flattening process in which a material is stretched to achieve a desired flatness tolerance.

Stripper – Mechanical hold-down device applied to the workpiece during the punching process.

Stripper Marks – Imprints on one side of the stock around pierced holes, caused by punch strippers.

Stripping – Process of disengaging tooling from the workpiece.

Strips – Sheet material, sheared into narrow long pieces.

Stroke – RAM travel from top dead center (TDC) to bottom dead center (BDC).

Tapping – Operation to create internal threads by either cutting or forming.

Tolerance – Permissible variation from a specification for any characteristic of the product.

Transfer Die – Variation of a progressive die where the part is transferred from station to station by a mechanical system. Mainly used where the part has to be free from the strip to allow operations to be performed in a free state.

Turret Press – Automatic punch press indexing the material and selecting the intended tool out of the rotary tool holding device (turret) totally by computer control for piercing, blanking and forming workpieces as programmed.

V Die – Tool used in conjunction with a V punch.

V Punch – Vee shaped tool used for angle forming.

Vibratory Finishing – Burr removal process in which an appropriate number of parts, depending on part size and abrasive material, is accelerated and decelerated by mechanical means inside of a drum-like enclosure.

Webs – Material between two openings or edges.

Wipe Die – Forming tool using two opposing edges, separated by one material thickness, moving past each other to form material.

**Terms provided courtesy of the Precision Metalforming Association.*

Equipment and Capabilities List

BOKER'S, INC.

Housed in over 165,000 square feet, 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
- (2) Charmilles Wire E.D.M.s (14" x 21" x 8")
- Charmilles E.D.M. Drill
- Fanuc Wire E.D.M.
- 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)
- Aida Servo Press
- (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
- (2) Material Handling Conveyors

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

Raw Stock & Shear Department
- (3) 10' Shears (.20" thick maximum)
- Stanat Model Rolling Mill
- IRM Rolling Mill
- Cooper Weymouth Roller Levelers
- Coil Set Straightener
- Wilder Coil Slitter
- Computer Inventory & Control System
- (2) Material Slitting Machines

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

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

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
- Custom Multi-Station Vibratory Deburring Machine

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 & Monitored
- Keyence Vision System

Material Capabilities
- Material Thickness: .005" to .190" (varies by material)
- Blank Size: 12" x 12" maximum (flat)
- Draws: 8" diameter, 3" deep

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