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A Message From Our President

We are pleased to bring you the Boker's, Inc. 2022 Stampings & Washers Catalog. For over 100 years, we have been honored to provide stamped components and washer solutions to every market and industry to date.

2021 was a year of recovery which was quickly coupled with disruptions. The vaccine allowed a restoration of our country, economy and sense of community; the industrial sector is running leaner than it ever has while experiencing major supply chain disruptions for both raw materials and available labor to name a few. The global economy consumed nearly all of the products on shelves, in distribution centers and in production during the global pandemic; we are now here picking up the pieces and restocking the world. Throughout Boker's history we have and continue to serve all industries worldwide who are on the forefront of technology evolution in every critical infrastructure sector. We look forward to working together as we navigate 2022 and gear up to be better together now and into the future.

Boker's new state-of-the-art facility is fully operational. 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. 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 2022 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 your newest challenge. As always, it is our greatest pleasure to be at your service.

Sincerely,

any persent Amy Kersey

CEO/President

V.A. Boker & Sons was

Vitus immigrated to the

United States

Second location on

WBEN@

4th location on Snellina Avenue Held the first meeting of the board of directors

William Tedlund becomes sole owner

1986

66,500 square foot expansion totalina over 165.000 sauare feet

2018

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 nonprofits, 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."

DOKER'S, INC

Chuck Kersey, Asst. Sales Manager

Continuing the Legacy

Boker's works in and serves all fast-paced and highdemand 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

BOKER'S, INC.

1860

Vitus Boker started using

short run stampina

1919

Check Protector

patented

Third location a

company to his children

(John William Richard Marie)

Boker's purchased by four employees (William Tedlund, Joseph Basara, Chester Engauist, Joseph Kantorowicz)

Expansion completed totaling over 90.000 sauare feet

2008

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.

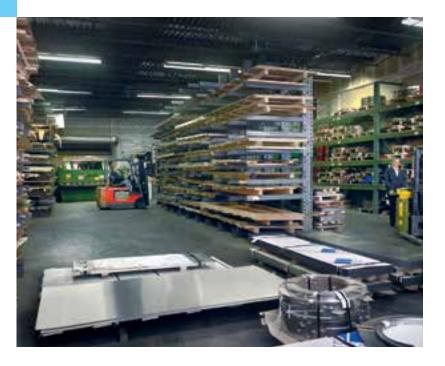
Superalloys: Iron, cobalt and nickel based alloys such as: Hastelloy, Inconel, Monel and others.

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.



AS9100:2016 IS09001:2015

MOBILE-FRIENDLY!

Certified Quality Management System

✓ S.P.C.

Our Quality Management System (QMS) is AS 9100:2016/ISO 9001:2015

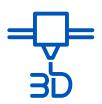
Certified. When you purchase products from us, you can be confident that our processes are efficient and effective.

Quality Assurance and Certification

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

✓ IMDS

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.

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**



BOKER'S BULLETIN

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.



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.

ort sses

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.



MINSTER 7

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)



Customer Satisfaction is Our #1 Goal

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."

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*															
.080	.049	.005010	.107	.055	.005012	.123	.058	.005010	.135	.072	.005015	.150	.033	.005010	.156	.094	.010015
.081	.033	.005010	.108	.055	.005020	.123	.069	.005010	.135	.085	.005010	.150	.035	.010020	.156	.095	.005010
.084	.043 .048	.005010 .012020	.108 .109	.061 .047	.010020 .012020	.123 .123	.080 .082	.010020 .010020	.136 .136	.064 .073	.015030	.150 .150	.041 .044	.005030 .005010	.156 .156	.098 .100	.010020 .016025
.084	.065	.005010	.109	.058	.010020	.124	.028	.005010	.136	.090	.005010	.150	.044	.005010	.156	.103	.015030
.085	.040	.005010	.109	.067	.008018	.124	.063	.005010	.136	.095	.012020	.150	.056	.015020	.156	.106	.005010
.085	.043	.005010	.110	.032	.010015	.124	.065	.015025	.137	.049	.005010	.150	.057	.010020	.156	.115	.005010
.085	.048 .027	.010015 .010020	.110 .110	.054 .055	.005010 .010020	.124 .124	.066 .073	.015030	.137 .137	.066 .077	.012025	.150 .150	.059 .065	.005010 .005010	.157 .157	.043 .057	.020030 .005025
.086	.036	.005008	.110	.073	.005010	.125	.049	.005010	.137	.091	.008016	.150	.066	.006010	.157	.061	.010020
.086	.045	.005010	.111	.061	.010020	.125	.052	.005012	.138	.049	.010020	.150	.073	.005010	.157	.064	.005010
.086	.048	.010015	.111	.067	.015025	.125	.054	.015025	.138	.070	.005010	.150	.077	.010020	.157	.066	.010020
.087	.025 .043	.005010 .015030	.111 .112	.082 .039	.005010 .005010	.125 .125	.055 .060	.020030	.138 .138	.073 .075	.005010	.150 .150	.083 .087	.010020 .010015	.157 .157	.086 .088	.005010 .005010
.088	.032	.005010	.112	.044	.012020	.125	.062	.010020	.138	.088	.005010	.150	.088	.010013	.157	.000	.010020
.088	.066	.005015	.112	.059	.015025	.125	.063	.005020	.138	.102	.005010	.150	.089	.015025	.157	.092	.010020
.089	.044	.005010	.112	.061	.005010	.125	.064	.010020	.139	.047	.005010	.150	.090	.005030	.157	.094	.020030
.089	.065 .030	.005015 .010030	.112 .112	.062 .067	.015025 .015025	.125 .125	.065 .066	.005030	.139 .139	.053 .056	.005012	.150 .150	.091 .099	.005012	.157 .157	.096 .120	.005030 .005010
.090	.050	.010015	.112	.073	.005010	.125	.067	.015025	.139	.057	.005012	.150	.116	.020020	.157	.127	.005010
.090	.054	.010015	.113	.052	.005010	.125	.068	.010032	.139	.063	.005010	.151	.056	.015025	.158	.040	.010020
.090	.064	.008012	.113	.074	.005010	.125	.069	.005010	.139	.066	.015030	.151	.069	.005010	.158	.046	.012025
.091	.031 .065	.005010 .005010	.114 .114	.040 .044	.030040 .005010	.125 .125	.072 .076	.012020	.139 .139	.095 .097	.010020 .005010	.151 .151	.073 .077	.005010 .015020	.158 .158	.050 .057	.020035 .010020
.092	.027	.010015	.114	.066	.005010	.125	.078	.005010	.139	.062	.005010	.151	.078	.010020	.158	.060	.020030
.092	.041	.008012	.114	.073	.005010	.126	.042	.008032	.140	.073	.005010	.151	.083	.025030	.158	.089	.020032
.092	.043	.010020	.115	.031	.010020	.126	.050	.005012	.140	.082	.005032	.152	.094	.020025	.158	.094	.025035
.092	.044 .047	.005010 .005010	.115 .115	.033 .061	.005010 .005010	.126 .126	.052 .057	.008025 .025032	.140 .140	.090 .095	.005010	.152 .152	.095 .098	.015025 .005010	.158 .158	.095 .098	.005010
.092	.060	.005010	.115	.079	.005015	.126	.062	.025032	.140	.109	.010015	.152	.100	.005010	.158	.100	.005015 .015020
.092	.068	.005010	.116	.037	.005010	.126	.064	.005010	.141	.061	.005010	.153	.056	.010020	.158	.101	.005010
.093	.036	.010020	.116	.055	.010020	.126	.065	.005015	.141	.065	.015025	.153	.061	.005010	.158	.119	.015025
.093	.049 .051	.010020 .005020	.116 .116	.066 .067	.015025 .005010	.126 .126	.068 .073	.005010 .005010	.141 .141	.067 .076	.010016 .005010	.153	.062	.005010	.159	.077	.005010
.094	.062	.010015	.116	.073	.005010	.126	.080	.005010	.141	.076	.005010	.153 .153	.073 .077	.015025 .025035	.159 .159	.081 .095	.005010 .005010
.095	.024	.010015	.117	.032	.005010	.126	.095	.005015	.141	.092	.015025	.153	.078	.005015	.159	.100	.010025
.095	.043	.005010	.117	.035	.005012	.126	.096	.005010	.142	.038	.015030	.153	.081	.020035	.159	.110	.005012
.095	.049 .052	.005010 .005010	.117 .118	.056 .058	.010015	.127 .127	.039 .042	.020032	.142	.073	.005010	.153	.095	.020030	.160	.060	.005015
.095	.056	.015020	.118	.038	.010020 .005020	.127	.042	.010020 .015030	.142 .142	.076 .078	.005010 .005010	.153 .154	.100 .073	.010025 .020040	.160 .160	.088 .090	.010020 .005010
.097	.060	.005010	.118	.075	.005015	.127	.065	.012020	.142	.083	.005010	.154	.095	.005010	.160	.095	.025040
.097	.074	.005010	.118	.080	.005012	.127	.067	.010020	.142	.089	.020030	.154	.101	.005010	.161	.063	.015030
.098	.040 .064	.005010 .010020	.118 .120	.091 .039	.005010 .010020	.127 .127	.077 .083	.015025 .015030	.142 .143	.098 .052	.010015 .005010	.154	.110	.020030	.161	.069	.010020
.098	.065	.010020	.120	.039	.010020	.127	.003	.010015	.143	.032	.005010	.154 .155	.115 .064	.005010 .015030	.161 .162	.076 .061	.015030 .005020
.099	.050	.005010	.120	.041	.005010	.127	.094	.008015	.143	.095	.010020	.155	.066	.005010	.162	.077	.012020
.100	.026	.010015	.120	.050	.005010	.128	.056	.015025	.143	.097	.005015	.155	.069	.005015	.162	.086	.020032
.100	.035 .040	.005010 .005010	.120 .120	.062 .063	.010020 .015030	.128	.073	.005010	.144	.065	.005010	.155	.072	.020040	.162	.092	.015030
.100	.055	.020030	.120	.065	.015030	.128 .128	.076 .078	.015030 .005010	.144 .144	.073 .076	.005010 .010020	.155 .155	.076 .078	.010020 .008012	.162 .162	.097 .112	.010020 .005010
.100	.062	.005010	.120	.070	.015030	.128	.089	.005010	.145	.056	.005010	.155	.081	.005010	.163	.082	.015030
.100	.065	.005020	.120	.073	.005010	.128	.103	.005010	.145	.068	.005012	.155	.084	.005010	.163	.110	.015020
.100	.067 .036	.015025	.120	.080	.010016	.129	.083	.010020	.145	.090	.005010	.155	.094	.015025	.163 163	.128 .129	.005010 .005010
.101	.036	.015025 .005030	.121 .121	.043 .047	.005012 .005010	.130 .130	.061 .063	.010020 .020030	.145 .145	.097 .116	.005010 .005010	.155 .155	.111 .124	.005010 .010020	.163 .164	.081	.010010
.101	.049	.015020	.121	.054	.010025	.130	.073	.005010	.146	.046	.010020	.156	.044	.015035	.164	.087	.005010
.101	.050	.005010	.121	.062	.010020	.131	.059	.005012	.146	.065	.005010	.156	.049	.005015	.164	.100	.005012
.102	.040	.020030	.121	.072	.005010	.132	.073	.005010	.146	.073	.005010	.156	.052	.010032	.164 165	.114	.010020
.102	.053 .044	.020030 .020030	.121 .122	.092 .049	.005010 .010020	.133 .133	.052 .088	.005010 .005010	.146 .146	.091 .107	.010020 .005010	.156 .156	.053 .062	.005012 .020040	.165 .165	.040 .045	.005010 .015030
.105	.030	.005015	.122	.056	.005010	.133	.096	.010020	.147	.067	.020032	.156	.064	.020040	.165	.052	.010030
.105	.037	.015025	.122	.066	.020030	.134	.041	.005010	.147	.111	.010025	.156	.065	.020040	.165	.061	.025040
.105	.044	.005010	.122	.073	.005010	.134	.070	.010020	.148	.068	.010020	.156	.066	.020035	.165	.071	.005010 .005015
.105 .105	.047 .056	.005010 .015025	.122 .122	.076 .095	.010020 .008015	.134 .134	.071 .073	.005010 .005010	.148 .148	.073 .077	.005010 .010020	.156 .156	.067 .068	.008018 .010040	.165 .165	.073 .075	.005015
.105	.057	.005010	.123	.032	.005020	.134	.095	.005010	.149	.036	.005010	.156	.008	.005025	.165	.080	.015025
.105	.063	.010020	.123	.034	.020030	.135	.035	.005010	.149	.079	.005010	.156	.077	.015035	.165	.083	.005010
.106	.065	.010020	.123	.035	.010020	.135	.059	.005010	.149	.086	.005010	.156	.078	.005010	.165	.090	.005010 .015030
.106	.069 .077	.005012 .005012	.123 .123	.036 .052	.005010 .020040	.135 .135	.060 .066	.005010 .005010	.149 .149	.095 .097	.005010 .015025	.156 .156	.080 .089	.025035 .005015	.165 .165	.096 .100	.015030
				.502	.020 .010		.500	.000 .010	.140	.551	.010 .020		.000	.000 .010			

[—]Tony Kersey, Communications Manager

										NO	TOOI	ING CH	ARGE	FOR	ANY OF	THE	SIZES	LISTED
(O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To									
	165	.125	.005010	.177	.081	From To .005010	.185	.127	From To .010	.188	.118	.015025	.196	.140	.010020	.202	.126	.005010
	165	.126	.015025	.177	.094	.007015	.185	.128	.010020	.188	.119	.005012	.196	.142	.005010	.202	.128	.005010
	166 166	.062 .073	.005010	.177 .177	.099 .113	.005015 .005015	.185 .185	.129 .131	.005015	.188 .188	.121 .122	.010025 .005010	.196 .197	.145 .055	.005012 .015025	.202 .202	.134 .136	.005010 .020032
	166	.075	.005010	.177	.119	.030042	.185	.134	.005010	.188	.128	.005036	.197	.062	.030050	.203	.056	.005010
	166	.081	.005010	.177	.122	.015020	.185	.136	.010025	.188	.129	.020030	.197	.077	.005010	.203	.063	.005032
	.166 .166	.108 .125	.010020 .005010	.177 .177	.125 .127	.005010 .005010	.185 .186	.145 .028	.005010 .006010	.188 .188	.131 .164	.020030 .010020	.197 .197	.091 .099	.020040 .005010	.203 .203	.072 .091	.015040 .010040
	166	.129	.005010	.178	.050	.030040	.186	.035	.005010	.189	.043	.025040	.197	.103	.005010	.203	.092	.030040
	167	.031	.005010	.178	.077	.015030	.186	.038	.005010	.189	.053	.030040	.197	.116	.005010	.203	.093	.040060
	.167 .167	.065 .078	.010020	.178 .178	.113 .119	.005015 .030042	.186 .186	.046 .064	.010020 .008020	.189 .189	.064 .094	.010050 .040060	.197 .197	.121 .122	.005010 .020040	.203 .203	.107 .114	.005010 .015040
	167	.085	.010020	.178	.123	.005010	.186	.075	.015025	.189	.095	.025045	.197	.129	.005010	.203	.123	.005010
	.167 .168	.108 .082	.010020 .005010	.178 .178	.137 .139	.010020 .005010	.186 .186	.079 .086	.015040	.189 .189	.102 .108	.005010 .010020	.197 .197	.139 .147	.030040 .015025	.203 .203		.010020 .015025
	168	.096	.025040	.179	.039	.005010	.186	.088	.015025	.189	.109	.005010	.198	.088	.010020	.203	.137	.020040
	168	.130	.005010	.179	.101	.010020	.186	.093	.015030	.189	.119	.005010	.198	.092	.010030	.203	.170	.005020
	.169 .170	.115 .034	.015025	.179 .179	.103 .113	.005010 .005010	.186 .186	.094 .096	.025035	.189 .190	.136 .030	.010020 .005010	.198 .198	.095 .097	.015030 .005010	.203 .203	.175 .176	.005010 .005010
	170	.057	.005010	.179	.115	.025030	.186	.098	.012025	.190	.048	.005010	.198	.102	.020030	.204	.044	.005010
	.170 .170	.064 .067	.015032 .010020	.180 .180	.081 .089	.020035 .005032	.186 .186	.099 .103	.005010 .005010	.190	.091	.005010	.198	.114	.005010	.204 .204	.075 .100	.025040 .005010
	170	.070	.020030	.180	.090	.010020	.186	.103	.010020	.190 .190	.095 .113	.040060 .010020	.198 .198	.116 .126	.005010 .020030	.204	.105	.030040
	170	.089	.015025	.180	.094	.010025	.186	.118	.030040	.190	.128	.010015	.198	.131	.020040	.204	.125	.025040
	.170 .170	.097	.005010 .025035	.180 .180	.096	.005010 .025040	.186 .186	.119 .124	.005010	.190 .190	.130 .132	.015030 .005010	.198 .199	.147	.005010 .005010	.204	.143 .157	.020030
	170	.121	.005010	.180	.114	.020040	.186	.125	.010030	.191	.038	.005010	.199	.088	.030050	.205	.038	.015025
	171	.065	.005010	.180	.115	.005010	.186	.126	.005010	.191	.039	.010020	.199	.105	.030050	.205	.050	.030040
	.171 .171	.086 .087	.030050 .015030	.180 .180	.118 .128	.005010 .005010	.186 .186	.127 .129	.010015 .020040	.191 .191	.063 .065	.010016 .025050	.199 .199	.122 .154	.010020 .005015	.205 .205	.079 .094	.020030 .010020
	171	.090	.005030	.180	.141	.005010	.186	.136	.010020	.191	.069	.025040	.199	.158	.015020	.205	.097	.010020
	.171 .171	.098 .101	.007015 .010020	.181 .181	.071 .078	.005010 .007016	.186 .187	.155 .042	.005010 .015030	.191 .191	.075 .077	.040060 .005030	.200 .200	.026 .053	.005010 .005010	.205 .205	.112 .115	.010020 .015025
	.171	.128	.010020	.181	.087	.005010	.187	.074	.015030	.191	.092	.032050	.200	.053	.005010	.205	.131	.010020
	171	.129	.010020	.181	.093	.005010	.187	.077	.020040	.191	.104	.020030	.200	.066	.005010	.205	.137	.025040
	.171 .172	.130 .036	.005010 .005010	.181 .181	.095 .116	.010016 .015030	.187 .187	.078 .080	.025050 .005010	.191 .191	.119 .142	.010020 .005010	.200 .200	.072 .078	.020030 .020030	.205 .206	.147 .051	.025030 .005015
	.172	.074	.005020	.181	.127	.015025	.187	.081	.005010	.191	.151	.005010	.200	.079	.010020	.206	.094	.005010
	.172 .172	.080 .081	.015025 .020030	.181 .182	.128 .052	.005025 .010020	.187 .187	.082 .084	.005042 .005010	.191	.162	.015020	.200	.086	.025040 .025040	.206 .206	.126 .154	.005010
	172	.096	.020032	.182	.057	.012020	.187	.086	.030050	.192 .192	.091 .118	.020040 .005010	.200 .200	.087	.010020	.206	.161	.005010
	172	.103	.010020	.182	.068	.010020	.187	.089	.010030	.192	.120	.020040	.200	.092	.005010	.207	.112	.005010
	.172 .172	.109 .128	.020040 .005010	.182 .182	.083 .094	.040050 .015030	.187 .187	.090 .091	.025040 .015025	.192 .192	.125 .133	.005010 .005010	.200 .200	.095 .096	.015025 .005010	.207 .207	.127 .132	.015025 .020030
	173	.065	.015030	.182	.110	.010020	.187	.095	.005010	.192	.149	.015025	.200	.097	.015030	.207	.133	.020030
	.173 .173	.070 .079	.020030	.182 .182	.130 .134	.005016 .005010	.187 .187	.096 .098	.010025 .015025	.193 .193	.075 .095	.015030	.200	.098	.015025	.207 .207	.144 .147	.010020 .005010
	173	.088	.005010	.183	.067	.012025	.187	.100	.015025	.193	.103	.020040 .010020	.200 .200	.100 .101	.040050 .005040	.208	.099	.010020
	173	.092	.020035	.183	.090	.010020	.187	.104	.032042	.193	.111	.005010	.200	.102	.005030	.208		.005060
	.173 .173	.096	.020040 .010020	.183 .183	.096	.020030	.187 .187	.106 .108	.015040 .005010	.193 .193	.123	.015030	.200 .200	.105 .110	.010025 .025035	.208	.127 .128	.015025 .040050
	.173	.102	.010020	.183	.101	.020036	.187	.115	.015032	.193	.133	.005010	.200	.116	.010020	.208	.129	.020030
	.173 .173	.104	.016025 .010020	.183	.105	.005010	.187	.116	.010020	.193	.162	.010012	.200	.124	.020036	.208	.130	.005010
	.173	.114 .117	.010020	.183 .183	.106 .118	.010020 .015030	.187 .187	.122 .124	.005010	.194 .194	.065 .068	.020030 .040060	.200 .200	.125 .126	.005010 .020036	.208 .208	.147 .155	.005010
	.174	.044	.020030	.183	.120	.005010	.187	.125	.005010	.194	.094	.005010	.200	.128	.025040	.208		.010015
	.174 .174	.077 .093	.010020 .040060	.183 .183	.131 .132	.015025 .005010	.187 .187	.126 .127	.005010 .010020	.195 .195	.032 .075	.005010 .020030	.200 .200	.143 .153	.015030 .005010	.209 .209	.078 .090	.005010 .015030
	174	.095	.020032	.183	.141	.005020	.187	.128	.005010	.195	.076	.015030	.200	.160	.020030	.209	.114	.005010
	174	.097	.025040	.183	.143	.008012	.187	.129	.005012	.195	.078	.005008	.200	.163	.005010	.209		.025040
	.174 .174	.106 .137	.005010 .010020	.184 .184	.062 .065	.010020 .005010	.187 .188	.135 .030	.005010 .020032	.195 .195	.099 .100	.030050 .020035	.200 .201	.177 .038	.010020 .005010	.209 .209		.005010
	.175	.056	.005025	.184	.086	.015030	.188	.031	.005010	.195	.102	.020040	.201	.067	.010020	.209	.143	.012020
	.175 .175	.077 .089	.005010	.185 .185	.070 .075	.025050 .020030	.188 .188	.046 .054	.005010	.195 .195	.108 .126	.015030 .005020	.201 .201	.078 .082	.005010 .020040	.209 .209	.146 .151	.015025 .005010
	.175	.090	.005030	.185	.076	.025040	.188	.060	.020040	.195	.128	.005030	.201	.083	.020040	.210	.102	.005010
	175	.092	.005030	.185	.078	.015030	.188	.061	.025040	.195	.145	.015040	.201	.086	.005010	.210		.005010
	.175 .175	.099 .102	.005010 .020030	.185 .185	.080 .083	.005010 .015030	.188 .188	.063 .071	.010015 .005015	.196 .196	.050 .055	.010020 .025040	.201 .201	.096 .115	.020040 .015025	.210 .210	.155 .162	.010020 .020040
	.175	.104	.005010	.185	.086	.008020	.188	.075	.030050	.196	.075	.010020	.201	.126	.020032	.210	.182	.005010
	.175 .175	.121 .123	.010020 .030040	.185 .185	.089 .092	.015030 .005035	.188 .188	.077 .083	.010015 .025040	.196 .196	.086	.025035 .005010	.201	.134	.005030	.211 .211	.084 .088	.015030 .005010
	.175	.123	.025030	.185	.092	.020035	.188	.087	.025040	.196	.090 .102	.005010	.201 .201	.141 .148	.005010 .005012	.211	.000	.020040
	175	.127	.005010	.185	.095	.005025	.188	.093	.005010	.196	.104	.005010	.201	.161	.005010	.211		.005010
	.175 .176	.128	.015020 .005010	.185 .185	.097	.010020 .005010	.188 .188	.094	.005020 .005010	.196 .196	.105 .117	.015030	.202	.057	.010020 .015025	.211 .211		.020040
	.176	.081	.005010	.185	.110	.020030	.188	.102	.005015	.196	.122	.005020	.202	.067	.005015	.211	.112	.005010
	.176 .177	.119 .053	.010020 .005010	.185 .185	.118 .119	.015030 .015030	.188 .188	.103 .106	.020030 .010020	.196 .196	.128 .129	.005010 .005025	.202 .202	.101 .116	.015025	.211 .211		.005010 .015030
	.177	.070	.005010	.185	.126	.020030	.188	.113	.020040	.196	.129	.010020	.202	.120	.015020 .015032	.211	.133	.020035
									un abaasa th									

								BUKER	3 IVIE	IAL	VASHER		ILA	AND I	JIVIDEL	- DL	BURKED
O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any	O.D.	I.D.	Choose Any	O.D.	I.D.	Choose Any
	1.0.	From To	0.0.	1.0.	From To	O.D.	1.0.	From To	0.0.	1.0.	Thickness* From To	O.D.	1.0.	Thickness* From To	О.Б.		Thickness*
.211	.142	.025035	.218	.106	.020032	.223	.100	.005010	.232	.120	.015025	.237	.127	.005030	.245	.032	.010015
.211	.158	.005010	.218	.108	.008020	.223	.102	.025035	.232	.133	.005010	.237	.130	.005020	.245	.045	.005010
.211	.160	.005010	.218	.113	.025040	.223	.118	.005015	.232	.134	.010020	.237	.148	.030050	.245	.055	.005010
.211	.163	.020032	.218	.116	.005020	.223	.127	.025042	.232	.136	.005010	.237	.157	.025036	.245	.097	.025040
.211	.167	.005010	.218	.119	.005008	.223	.130	.005010	.232	.155	.005010	.237	.162	.005010	.245	.127	.010030
.212	.084	.005010	.218	.127	.005010	.223	.132	.025035	.232	.159	.006016	.237	.164	.008035	.245	.128	.005010
.212	.093	.015030	.218	.128	.005020	.223	.135	.010020	.233	.040	.005010	.237	.193	.010020	.245	.136	.025040
.212	.120	.010020	.218	.132	.008015	.223	.139	.015025	.233	.060	.010025	.237	.194	.010020	.245	.141	.005010
.212	.124	.005010	.218	.137	.005010	.223	.155	.005010	.233	.110	.005010	.238	.071	.015030	.245	.159	.005010
.212	.131	.005010	.218	.138	.020040	.223	.191	.005010	.233	.118	.020040	.238	.115	.040060	.245	.185	.005010
.212 .212	.135	.005015 .015025	.218 .218	.141	.015025 .025036	.224	.075	.025040	.233	.124	.010020 .005010	.238	.126	.030050	.245 .246	.204 .055	.010020 .005012
.212	.138	.005012	.218	.143	.015030	.224 .224	.139 .141	.005012	.233 .233	.127 .130	.005015	.238	.127	.005010	.246	.030	.005012
.212	.158	.015025	.218	.169	.015030	.224	.141	.005010	.233	.130	.005010	.238 .238	.143	.005010	.246	.094	.010020
.213	.043	.005012	.219	.070	.020030	.225	.063	.005010	.233	.155	.005010		.146	.030040	.246	.122	.025040
.213	.066	.025040	.219	.085	.005010	.225	.003	.015030	.233	.163	.010015	.238	.178 .181	.005010	.246	.128	.005010
.213	.077	.015030	.219	.090	.005010	.225	.092	.005010	.233	.167	.010010	.239	.068	.020030	.246	.131	.005010
.213	.100	.005010	.219	.103	.010020	.225	.101	.015030	.233	.170	.020030	.239	.008	.005010	.246	.134	.005010
.213	.108	.005010	.219	.106	.005020	.225	.111	.015030	.233	.173	.005010	.239	.131	.032050	.246	.142	.015030
.213	.110	.010020	.219	.124	.020040	.225	.113	.005010	.233	.191	.005010	.239	.141	.015030	.246	.170	.005010
.213	.130	.025040	.219	.126	.010030	.225	.125	.015032	.234	.039	.005010	.239	.142	.015030	.246	.181	.005030
.213	.154	.005010	.219	.127	.030040	.225	.129	.030050	.234	.066	.042062	.239	.148	.005010	.246	.197	.015025
.213	.160	.010025	.219	.129	.010015	.225	.135	.005015	.234	.096	.042060	.239	.161	.030050	.247	.051	.010020
.213	.162	.020030	.219	.130	.015030	.225	.142	.005015	.234	.121	.005020	.239	.163	.030040	.247	.063	.030050
.214	.050	.005010	.219	.142	.005010	.225	.144	.015030	.234	.126	.015025	.239	.181	.005010	.247	.080	.010040
.214	.062	.015030	.219	.147	.025040	.225	.147	.025040	.234	.128	.015030	.239	.190	.005015	.247	.090	.020030
.214	.089	.010020	.219	.156	.010020	.225	.150	.005010	.234	.129	.005010	.240	.024	.005010	.247	.091	.030050
.214	.098	.010020	.219	.161	.005035	.225	.164	.005010	.234	.134	.020030	.240	.072	.005010	.247	.095	.040060
.214	.100	.015025	.219	.171	.005010	.226	.087	.005010	.234	.135	.030050	.240	.090	.020030	.247	.097	.005020
.214	.109	.020030	.219	.173	.005010	.226	.098	.015050	.234	.138	.010020	.240	.102	.010020	.247	.100	.005010
.214	.126	.005010	.220	.040	.005010	.226	.108	.020030	.234	.140	.005010	.240	.105	.010020	.247	.118	.005020
.214	.163	.010020	.220	.051	.025035	.226	.114	.025040	.234	.142	.035050	.240	.108	.025040	.247	.119	.025040
.214	.166	.005010	.220	.063	.010020	.226	.129	.005030	.234	.192	.010020	.240	.109	.005010	.247	.125	.020032
.214	.169	.010015	.220	.065	.020032	.226	.175	.005010	.235	.048	.005010	.240	.125	.025060	.247	.126	.023032
.214	.180	.005010	.220	.069	.005010	.226	.193	.005010	.235	.068	.010050	.240	.131	.005010	.247	.127	.025042
.215	.034	.010030	.220	.070	.020030	.227	.050	.010020	.235	.086	.020030	.240	.135	.005030	.247	.132	.020030
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.215	.088	.010015	.220	.099	.005010	.228	.051	.020030	.235	.099	.005010	.240	.151	.005010	.247	.141	.020032
.215	.090	.042062	.220	.106	.005015	.228	.091	.005010	.235	.102	.015030	.240	.160	.015040	.247	.144	.005010
.215	.091	.010025	.220	.108	.010020	.228	.096	.010020	.235	.108	.030050	.240	.188	.005010	.247	.147	.005010
.215	.100	.010050	.220	.109	.005010	.228	.106	.020035	.235	.114	.010030	.241	.103	.005010	.247	.158	.030040
.215	.104	.010020	.220	.113	.032048	.228	.118	.010050	.235	.126	.030050	.241	.119	.020035	.247	.159	.010020
.215	.106	.005015	.220	.114	.010020	.228	.121	.010020	.235	.130	.015030	.241	.128	.015030	.247	.164	.005010
.215	.112	.020040	.220	.117	.025042	.228	.129	.020030	.235	.131	.025040	.241	.148	.005010	.247	.169	.020030
.215 .215	.123 .127	.015035 .005012	.220	.122	.025040	.228	.131	.015030	.235	.134	.020035	.241	.162	.005010	.247	.185	.005010 .010020
.215	.137	.010015	.220 .220	.125 .127	.020030 .025048	.228 .228	.148 .167	.005010	.235 .235	.138 .139	.015025 .025040	.241	.180	.005010	.247 .247	.190 .205	.010020
.215	.138	.020030	.220	.127	.025046	.228	.096	.005010 .010020	.235	.152	.025040	.242	.072	.005010	.247	.206	.005010
.215	.144	.030050	.220	.129	.020035	.229	.139	.010020	.235	.152	.020032	.242	.100	.005010 .010020	.248	.052	.035050
.215	.162	.005010	.220	.140	.010020	.229	.149	.005010	.235	.161	.010020	.242 .242	.118 .128	.005010	.248	.063	.015025
.215	.164	.005010	.220	.144	.025035	.229	.166	.010020	.235	.164	.010020	.242	.120	.005010	.248	.065	.015030
.215	.166	.005010	.220	.147	.015025	.230	.038	.020030	.235	.167	.020036	.242	.145	.010015	.248	.067	.015030
.215	.168	.010020	.220	.159	.005010	.230	.050	.020030	.235	.202	.005010	.242	.146	.005010	.248	.078	.015030
.215	.170	.005010	.220	.166	.015020	.230	.073	.015030	.236	.055	.020040	.242	.147	.010020	.248	.087	.005015
.216	.054	.015032	.220	.177	.015020	.230	.094	.042062	.236	.061	.005010	.242	.163	.025035	.248	.089	.020035
.216	.055	.005010	.220	.179	.005010	.230	.097	.010020	.236	.070	.010020	.242	.172	.025040	.248	.091	.030040
.216	.057	.020030	.221	.061	.050060	.230	.108	.005010	.236	.078	.005010	.242	.192	.012020	.248	.092	.005015
.216	.110	.010020	.221	.065	.005010	.230	.120	.005010	.236	.080	.020030	.242	.194	.005010	.248	.093	.005030
.216	.120	.010020	.221	.084	.020035	.230	.121	.010020	.236	.082	.015030	.243	.095	.015025	.248	.094	.040060
.216	.126	.005010	.221	.099	.020030	.230	.130	.005060	.236	.091	.020030	.243	.130	.010050	.248	.098	.005010
.216	.148	.005010	.221	.106	.010020	.230	.145	.010040	.236	.094	.015030	.243	.133	.005010	.248	.100	.015030
.216	.162	.010020	.221	.117	.005010	.230	.152	.010020	.236	.097	.015030	.243	.136	.005010	.248	.106	.060080
.217	.080	.020030	.221	.122	.020035	.230	.160	.010020	.236	.098	.030048	.243	.145	.010020	.248	.118	.015032
.217	.084	.015030	.221	.125	.020035	.230	.167	.005010	.236	.107	.020030	.243	.146	.010020	.248	.120	.025040
.217	.100	.030050	.221	.126	.020035	.230	.176	.005010	.236	.118	.005010	.243	.162	.020035	.248	.122	.015032
.217	.106	.015030	.221	.130	.030042	.230	.180	.005010	.236	.127	.005010	.243	.170	.010020	.248	.123	.020030
.217	.116	.008016	.221	.135	.005010	.231	.046	.005010	.236	.129	.005010	.243	.188	.005010	.248	.128	.005040
.217	.118	.050070	.221	.144	.005010	.231	.068	.020030	.236	.130	.015030	.243	.198	.005020	.248	.129	.030050
.217	.120	.025040	.221	.156	.020030	.231	.096	.050070	.236	.131	.005010	.244	.070	.020030	.248	.130	.005010
.217	.161	.015030	.222	.050	.010020	.231	.116	.040060	.236	.155	.005010	.244	.088	.005010	.248	.133	.015030
.217	.166	.005010	.222	.093	.020030	.231	.120	.035048	.236	.160	.005010	.244	.106	.015030	.248	.135	.015025
.217	.191	.005010	.222	.095	.008012	.231	.127	.005010	.236	.161	.005010	.244	.119	.005010	.248	.152	.030050
.218	.069	.015025	.222	.114	.010020	.231	.130	.010020	.236	.182	.005010	.244	.127	.010015	.248	.155	.005010
.218	.078	.025042	.222	.116	.025045	.231	.146	.005010	.236	.192	.005010	.244	.147	.005015	.248	.158	.025042
.218	.090	.015030	.222	.129	.020030	.231	.155	.010020	.236	.210	.005010	.244	.150	.015030	.248	.176	.010020
.218	.095	.010050	.222	.134	.040050	.231	.160	.010015	.237	.065	.010020	.244	.191	.015030	.248	.208	.010020
.218	.097	.005025	.222	.140	.010020	.231	.173	.005010	.237	.070	.010020	.244	.192	.005010	.249	.075	.015030
.218	.101	.020030	.222	.142	.010020	.231	.177	.015030	.237	.108	.040060	.244	.195	.005010	.249	.100	.020032
.218	.105	.005032	.223	.059	.015040	.232	.060	.030050	.237	.112	.005010	.244	.205	.010020	.249	.103	.005010
			*With E	BOKER'	S precision v	washers	, you ca	an choose th	e exact	thickne	ss you want	from the	tool ra	nge listed.			

(11)

									NO	TOO	LING CH	ARGE	FOR	ANY OF	THE	SIZES	LISTED
O.D.	I.D.	Choose Any Thickness*															
.249	.112	.010018	.250	.164	.010020	.254	.160	.025042	.265	.101	.020040	.272	.095	.015030	.277	.088	.005010
.249	.116	.020040	.250	.165	.010020	.254	.194	.025042	.265	.115	.040050	.272	.120	.005010	.277	.092	.010020
.249	.121	.015025	.250	.166	.005012	.254	.201	.005010	.265	.122	.020040	.272	.121	.020040	.277	.108	.005010
.249	.123	.015030	.250	.167	.010045	.254	.205	.005010	.265	.125	.005010	.272	.132	.015030	.277	.126	.005010
.249	.124	.005010	.250	.172	.005010	.255	.097	.005010	.265	.126	.020040	.272	.156	.030048	.277	.127	.005008
.249 .249	.127 .128	.010050 .020035	.250 .250	.173 .175	.025040 .005010	.255 .255	.101 .105	.030050 .025040	.265 .265	.129 .141	.005010 .005010	.272 .272	.169 .192	.032042 .015032	.277 .277	.129 .132	.050070 .015025
.249	.135	.005010	.250	.176	.025040	.255	.109	.010020	.265	.143	.040062	.272	.194	.010020	.277	.140	.020030
.249	.137	.025050	.250	.183	.020040	.255	.135	.015030	.265	.153	.005010	.272	.220	.005010	.277	.143	.005010
.249	.139	.005040	.250	.186	.010020	.255	.149	.040050	.265	.160	.005010	.273	.104	.005010	.277	.146	.050070
.249 .249	.143 .144	.015030 .030050	.250 .250	.189 .190	.010020 .010020	.255 .255	.164 .167	.035050 .005010	.265 .265	.161 .166	.010030 .010015	.273	.108	.015030 .015030	.277 .277	.161 .163	.015030 .015025
.249	.152	.005010	.250	.191	.010020	.255	.195	.040060	.265	.183	.025040	.273 .273	.118 .135	.020040	.277	.166	.005008
.249	.158	.020030	.250	.192	.025030	.256	.119	.040060	.265	.189	.005010	.273	.141	.015025	.277	.170	.015030
.249	.160	.020040	.251	.036	.010020	.256	.164	.025042	.266	.082	.015030	.273	.144	.005010	.277	.195	.005010
.249 .249	.170 .172	.025040 .010020	.251 .251	.057 .059	.005012 .005010	.257 .257	.067 .078	.015030 .025040	.266	.090	.005010	.273	.148	.005010	.277 .278	.201 .058	.010020 .010020
.249	.172	.005010	.251	.063	.005010	.257	.076	.025040	.266 .266	.106 .110	.005010 .010020	.273 .273	.149 .163	.020030 .020040	.278	.038	.005010
.249	.189	.015032	.251	.074	.025050	.257	.191	.010020	.266	.121	.020040	.273	.173	.005010	.278	.103	.005010
.249	.190	.005008	.251	.076	.005010	.257	.213	.005010	.266	.123	.031048	.273	.203	.020030	.278	.135	.040062
.249	.193	.008012	.251	.093	.005010	.258	.067	.015030	.266	.131	.036060	.274	.032	.005010	.278	.141	.010020
			.251 .251	.101 .108	.025040 .020040	.258 .258	.095 .149	.015025 .005010	.266 .266	.134 .168	.025040 .025040	.274 .274	.052 .093	.005010 .005040	.278 .278	.142 .145	.025040 .005010
			.251	.113	.030050	.258	.154	.005010	.266	.171	.020035	.274	.095	.005040	.278	.151	.005030
			.251	.115	.040060	.258	.163	.015030	.266	.179	.020030	.274	.121	.005010	.278	.155	.005010
			.251	.122	.035050	.258	.169	.020030	.266	.185	.015025	.274	.127	.030060	.278	.183	.005010
1	?) [50	.251 .251	.125 .127	.010020 .010025	.258	.177	.005015	.266	.202	.005010	.274	.132	.025035	.278 .278	.190 .191	.005010 .015032
	Z٦		.251	.130	.010023	.259 .259	.116 .160	.005010 .005010	.266 .267	.218 .059	.005010 .010020	.274 .274	.170 .172	.030050 .040060	.278	.224	.010020
			.251	.131	.005050	.259	.213	.005010	.267	.100	.030050	.274	.174	.035050	.278	.236	.005010
.250	.027	.005010	.251	.136	.005010	.260	.065	.010020	.267	.125	.005010	.274	.175	.040050	.279	.045	.005015
.250	.039	.005025	.251	.138	.005010	.260	.089	.010020	.267	.140	.015030	.274	.191	.005020	.279	.103	.005010
.250 .250	.044 .052	.005015 .005012	.251 .251	.145 .146	.015048 .015030	.260 .260	.108 .113	.015030 .015030	.267 .267	.143 .144	.010025 .020030	.274 .274	.211 .237	.005010 .005010	.279 .279	.116 .129	.010020 .010015
.250	.063	.005010	.251	.149	.040050	.260	.120	.020060	.267	.168	.005010	.275	.071	.010020	.279	.139	.032048
.250	.072	.005012	.251	.151	.025040	.260	.121	.007015	.267	.170	.030050	.275	.079	.010020	.279	.140	.030040
.250	.077	.012025	.251	.157	.040060	.260	.128	.040060	.267	.178	.025040	.275	.081	.020040	.279	.144	.025040
.250 .250	.082 .083	.005010 .015020	.251 .251	.158 .160	.005015 .005010	.260 .260	.129 .144	.025040	.267	.190	.005008	.275	.089	.030050	.279 .279	.156 .170	.020030 .015025
.250	.085	.005030	.251	.162	.025042	.260	.148	.020040	.267 .267	.205 .211	.015030	.275 .275	.091 .096	.020040 .005010	.279	.176	.005040
.250	.091	.020030	.251	.187	.010020	.260	.158	.005020	.268	.109	.015030	.275	.098	.030050	.279	.197	.015030
.250	.093	.062083	.251	.188	.005008	.260	.163	.020040	.268	.114	.020040	.275	.115	.005010	.279	.217	.015030
.250	.094	.005025 .007040	.251	.190	.005015	.260	.167	.005010	.268	.124	.015030	.275	.118	.020040	.279	.232	.005010
.250 .250	.095 .097	.030080	.251 .251	.192 .195	.005010 .005010	.260 .260	.170 .173	.040060 .020040	.268 .268	.147 .173	.032050 .005010	.275 .275	.122 .126	.020040 .010020	.279 .280	.247 .067	.010015 .005015
.250	.098	.010025	.251	.200	.015025	.260	.175	.005010	.268	.179	.005010	.275	.135	.005012	.280	.079	.030050
.250	.099	.032050	.251	.205	.007015	.260	.176	.020040	.268	.199	.010020	.275	.143	.010020	.280	.100	.005010
.250	.100	.025040	.251	.214	.005010	.260	.188	.005015	.268	.202	.005015	.275	.144	.040050	.280	.105	.015032
.250 .250	.102 .105	.005060 .005035	.252 .252	.078 .099	.060072 .005010	.260 .260	.190 .205	.010020 .010020	.268 .269	.213 .139	.010020 .020030	.275 .275	.163	.015025 .020030	.280 .280	.115 .118	.015030 .010020
.250	.106	.030050	.252	.103	.015025	.261	.104	.050070	.269	.156	.015025	.275	.166 .170	.032030	.280	.122	.025048
.250	.108	.005010	.252	.120	.010020	.261	.110	.005010	.269	.158	.010020	.275	.180	.020040	.280	.126	.020030
.250	.110	.005030	.252	.127	.030050	.261	.111	.030050	.269	.160	.015030	.275	.189	.030050	.280	.127	.005010
.250 .250	.116 .117	.020040 .020040	.252 .252	.128 .141	.005010 .020040	.261 .261	.201 .206	.005010 .005010	.269	.161	.048062	.275	.190	.005010 .005010	.280 .280	.128 .133	.010032 .020040
.250	.120	.030050	.252	.146	.008016	.262	.062	.020030	.269 .269	.179 .190	.025040 .005010	.275 .275	.192	.005010	.280	.134	.005010
.250	.122	.005060	.252	.159	.025040	.262	.117	.015030	.269	.213	.005010	.275	.203	.030050	.280	.135	.020035
.250	.124	.010032	.252	.191	.010040	.262	.129	.005010	.270	.079	.005010	.275	.242	.010020	.280	.145	.032050
.250 .250	.125 .126	.010050 .005020	.252 .252	.195	.012020 .020030	.262	.142	.005010	.270	.096	.005025 .020030	.276	.081	.005010	.280	.148	.005010
.250	.127	.003020	.252	.197 .205	.020030	.262 .262	.156 .178	.015030 .015030	.270 .270	.099	.020030	.276 .276	.091	.015025 .015040	.280 .280	.155 .156	.025045
.250	.128	.005062	.253	.048	.040050	.262	.188	.025040	.270	.113	.005010	.276	.112	.030050	.280	.161	.015030
.250	.129	.010050	.253	.053	.010020	.262	.192	.020030	.270	.130	.040060	.276	.114	.040060	.280	.169	.005015
.250	.130	.005042	.253	.056	.025040	.262	.199	.020040	.270	.132	.025035	.276	.122	.008016	.280	.193	.010015
.250 .250	.131	.005060	.253 .253	.096 .115	.025040 .005012	.263	.061	.005010 .025040	.270 .270	.135 .148	.031042 .010020	.276 .276	.126	.020030 .005010	.280	.201	.005020
.250	.134	.005010	.253	.116	.005012	.263	.129	.010020	.270	.160	.005010	.276	.141	.040060	.280	.217	.020030
.250	.135	.030048	.253	.125	.040060	.263	.158	.030050	.270	.180	.005010	.276	.142	.005010	.280	.236	.010032
.250	.136	.005010	.253	.127	.020030	.263	.191	.005010	.270	.207	.005010	.276	.143	.015030	.281	.052	.010020
.250	.140	.005060 .010020	.253 .253	.132 .145	.025040 .025040	.263	.193 .195	.005010 .005010	.270 .271	.210 .127	.020040 .015025	.276 .276	.146	.005015 .020035	.281 .281	.067	.032050
.250	.147	.005050	.253	.166	.020040	.263	.199	.010025	.271	.130	.013025	.276	.159	.030050	.281	.096	.005010
.250	.150	.005015	.253	.190	.020040	.264	.108	.025040	.271	.138	.005040	.276	.161	.005015	.281	.112	.040050
.250	.153	.010020	.253	.191	.020040	.264	.139	.015025	.271	.146	.005010	.276	.162	.010020	.281	.117	.025040
.250	.154 .157	.015025 .025040	.253 .253	.192 .197	.005010 .005010	.264 .264	.147 .162	.005010 .025040	.271 .271	.175 .190	.030050 .015025	.276 .276	.167 .190	.005010 .020040	.281 .281	.122 .126	.010020
.250	.158	.015030	.254	.051	.030050	.264	.168	.025040	.271	.190	.015025	.276	.190	.020040	.281	.132	.005010
.250	.159	.020036	.254	.117	.010020	.264	.174	.050060	.271	.221	.020030	.276	.196	.005010	.281	.134	.040060
.250	.161	.005010	.254	.127	.025040	.264	.240	.005010	.272	.032	.010020	.276	.200	.010020	.281	.142	.010030
.250	.162	.032042	.254	.159	.005010	.265	.093	.060080	.272	.093	.025042	.276	.209	.010020	.281	.143	.005010

O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any
O.D.	1.0.	From To	О.Б.	1.0.	From To	0.0.	1.0.	From To	O.D.	1.0.	From To	O.D.	1.0.	From To	0.0.	1.0.	Thickness* From To
.281	.156	.005010	.289	.037	.020030	.295	.195	.005010	.301	.128	.010020	.307	.095	.020040	.310	.171	.010020
.281	.159	.015030	.289	.046	.005010	.295	.199	.020030	.301	.130	.015030	.307	.130	.080100	.310	.174	.010020
.281	.162	.010050	.289	.084	.005010	.295	.210	.010020	.301	.132	.005010	.307	.143	.025080	.310	.188	.030050
.281	.170	.016032	.289	.090	.075090	.296	.119	.015060	.301	.142	.060080	.307	.159	.030050	.310	.189	.010020
.281	.173	.005010	.289	.091	.060075	.296	.120	.020030	.301	.144	.020040	.307	.161	.005010	.310	.190	.012025
.281	.185	.015030	.289	.123	.005010	.296	.122	.005010	.301	.146	.005010	.307	.166	.005010	.310	.191	.005010
.281	.186	.005010	.289	.126	.005030	.296	.130	.030050	.301	.152	.020030	.307	.169	.020030	.310	.193	.025040
.281	.187	.015030	.289	.175	.025040	.296	.144	.025040	.301	.161	.025040	.307	.174	.005010	.310	.195	.005010
.282	.082	.030040	.289	.189	.040050	.296	.173	.005010	.301	.165	.005015	.307	.177	.015025	.310	.199	.030050
.282	.089	.075093	.289	.192	.010020	.296	.188	.015030	.301	.167	.040060	.307	.182	.010020	.310	.201	.032050
.282	.096	.015025	.289	.193	.040060	.296	.189	.015030	.301	.168	.040060	.307	.189	.005020	.310	.213	.030050
.282	.123	.005015	.289	.200	.005010	.296	.190	.015025	.301	.185	.020030	.307	.203	.025042	.310	.214	.010020
.282	.126	.015025	.290	.081	.020040	.296	.198	.025042	.301	.192	.005020	.307	.204	.025040	.310	.232	.005010
.282	.127	.040060	.290	.091	.030050	.296	.215	.010020	.301	.203	.015030	.307	.207	.005010	.310	.235	.005010
.282	.130	.005010	.290	.103	.005010	.296	.258	.005015	.301	.215	.005010	.307	.254	.010020	.310	.242	.010040
.282	.131	.030050	.290	.126	.005030	.297	.062	.010025	.301	.225	.005050	.308	.043	.005012	.310	.250	.005020
.282	.173	.025040	.290	.128	.015030	.297	.086	.005010	.301	.245	.005010	.308	.099	.010020	.310	.254	.015030
.282	.176	.005010	.290	.130	.030050	.297	.120	.050070	.301	.252	.010020	.308	.108	.005015	.310	.255	.005020
.282	.180	.025040	.290	.137	.010020	.297	.135	.020035	.301	.255	.010016	.308	.121	.015030	.310	.256	.010020
.282	.184	.006016	.290	.139	.005010	.297	.159	.030050	.301	.268	.005010	.308	.131	.005010	.310	.257	.005030
.282	.187	.040050	.290	.151	.032042	.297	.191	.005020	.302	.125	.070090	.308	.136	.005010	.310	.258	.005010
.282	.191	.025040	.290	.170	.010020	.297	.203	.020040	.302	.130	.050070	.308	.140	.005015	.310	.260	.005010
.282	.197	.010020	.290	.199	.015030	.297	.209	.005010	.302	.131	.040060	.308	.143	.015030	.311	.068	.005010
.282	.223	.007015	.290	.201	.030040	.297	.255	.005010	.302	.141	.005010	.308	.145	.020030	.311	.103	.005010
.283	.095	.005010	.290	.209	.025040	.298	.062	.010020	.302	.151	.005010	.308	.148	.030050	.311	.118	.050075
.283	.096	.015030	.291	.027	.005010	.298	.139	.005010	.302	.167	.035050	.308	.175	.040060	.311	.125	.005010
.283	.098	.032062	.291	.032	.010020	.298	.153	.030050	.302	.168	.015025	.308	.188	.040060	.311	.126	.030050
.283	.111	.010020	.291	.078	.015030	.298	.155	.005010	.302	.172	.015025	.308	.199	.005010		.127	.012025
.283	.140	.025042	.291	.125	.040060	.298	.156	.020040	.302	.190	.005040	.308	.204	.020040	.311	.128	.060080
.283	.143	.010015	.291	.159	.040060	.298	.158	.008016	.302	.198	.015030	.308	.205	.005025	.311	.129	.025048
.283	.165	.008015	.291	.176	.020040	.298	.161	.025040	.302	.205	.030050	.308	.209	.015025	.311	.130	.005025
.283	.166	.005010	.291	.184	.008015	.298	.164	.030050	.302	.252	.005015	.308	.210	.015025	.311	.137	.030050
.283	.168	.025040	.291	.190	.025050	.298	.180	.015030	.303	.114	.005010	.308	.254	.005010	.311	.142	.040070
.283	.173	.030040	.291	.195	.005010	.298	.181	.030050	.303	.128	.005010	.309	.031	.010020	.311	.147	.080090
.283	.184	.005010	.291	.232	.005010	.298	.193	.015025	.303	.171	.020040	.309	.070	.015025	.311	.155	.015050
.283	.190	.008015	.291	.244	.015025	.298	.200	.005010	.303	.181	.030050	.309	.094	.010020	.311	.159	.005025
.283	.200	.010020	.291	.250	.005010	.298	.205	.005010	.303	.191	.025040	.309	.109	.025040	.311	.160	.010020
.283	.216	.005030	.292	.114	.040060	.298	.241	.005010	.303	.197	.030050	.309	.147	.010020	.311	.166	.040062
.283	.217	.005010	.292	.145	.025040	.299	.105	.030040	.303	.198	.005010	.309	.159	.005030	.311	.167	.005015
.283	.218	.005025	.292	.146	.005010	.299	.116	.010020	.303	.200	.005010	.309	.160	.005010	.311	.177	.005010
.283	.240	.005010	.292	.148	.020040	.299	.145	.010030	.303	.220	.030050	.309	.161	.040062	.311	.183	.042062
.283	.250	.005010	.292	.149	.030040	.299	.202	.005010	.303	.225	.005010	.309	.172	.020035	.311	.187	.025042
.284	.095	.015025	.292	.165	.050060	.300	.045	.025040	.303	.234	.005010	.309	.176	.020030	.311	.188	.005050
.284	.119	.025040	.292	.171	.005010	.300	.056	.005010	.303	.240	.020030	.309	.191	.030050	.311	.190	.015030
.284	.125	.005015	.292	.192	.010015	.300	.065	.008040	.303	.251	.010020	.309	.194	.025040	.311	.191	.008040
.284	.191	.010018	.292	.193	.020030	.300	.074	.005010	.304	.083	.025040	.309	.195	.050070	.311	.195	.005010
.284	.200	.010020	.292	.197	.040050	.300	.081	.005010	.304	.163	.010020	.309	.202	.030050	.311	.204	.005020
.284	.212	.005010	.292	.236	.005010	.300	.095	.010020	.304	.174	.005010	.309	.210	.010020	.311	.215	.005010
.285	.079	.005010	.293	.034	.015025	.300	.097	.016090	.304	.213	.010020	.309	.247	.005010	.311	.217	.020040
.285	.088	.005010	.293	.124	.010020	.300	.100	.005015	.304	.217	.030050	.309	.251	.015030	.311	.219	.020035
.285	.107	.020032	.293	.129	.005010	.300	.116	.020040	.304	.241	.010020	.309	.254	.010030	.311	.231	.025040
.285	.115	.015030	.293	.147	.005010	.300	.117	.025040	.304	.245	.015020	.309	.255	.015030	.311	.238	.005010
.285	.117	.010020	.293	.188	.030050	.300	.119	.005010	.304	.250	.020030	.310	.047	.025035	.312	.039	.005012
.285	.127	.010035	.293	.192	.040050	.300	.128	.005060	.305	.087	.025040	.310	.060	.010025		.045	.025035
.285	.128	.010035	.293	.219	.005010	.300	.130	.030050	.305	.105	.030050	.310	.071	.005010		.054	.005010
.285	.131	.005010	.294	.086	.015030	.300	.135	.005010	.305	.125	.005010	.310	.076	.020040		.062	.015030
.285	.147	.030050	.294	.089	.015030	.300	.138	.020060	.305	.129	.010020	.310	.088	.015025	.312	.066	.010020
.285	.161	.005010	.294	.122	.015030	.300	.144	.015030	.305	.140	.032060	.310	.090	.012025	.312	.072	.005010
.285	.165	.015030	.294	.126	.015030	.300	.145	.005012	.305	.152	.015030	.310	.093	.025040		.073	.015025
.285	.175	.025048	.294	.177	.040060	.300	.157	.020030	.305	.156	.010020	.310	.095	.025035		.090	.025050
.285	.192	.020035	.294	.187	.030050	.300	.162	.025040	.305	.160	.025040	.310	.096	.005010		.093	.005062
.285	.194	.005010	.294	.192	.005012	.300	.166	.005010	.305	.162	.015030	.310	.102	.015030		.094	.020030
.285	.204	.010020	.294	.224	.005010	.300	.167	.030042	.305	.169	.025040	.310	.104	.020040		.095	.032042
.285	.207	.020030	.295	.079	.050060	.300	.169	.015030	.305	.188	.010020	.310	.106	.025050		.096	.015025
.285	.239	.010015	.295	.106	.008016	.300	.175	.025040	.305	.197	.005010	.310	.116	.030040		.098	.060070
.286	.125	.032048	.295	.127	.025040	.300	.176	.005010	.305	.204	.025048	.310	.119	.025050		.099	.010020
.286	.150	.032050	.295	.130	.010040	.300	.177	.010020	.305	.205	.025042	.310	.120	.030060		.100	.050060
.286	.163	.005010	.295	.138	.015030	.300	.180	.015025	.305	.221	.005010	.310	.122	.025035		.104	.005008
.286	.170	.010020	.295	.148	.030040	.300	.182	.005010	.305	.225	.010020	.310	.124	.005010		.105	.015025
.286	.186	.010020	.295	.162	.020040	.300	.185	.010020	.306	.045	.010025	.310	.127	.020075		.112	.010020
.286	.188	.005010	.295	.167	.025040	.300	.192	.005010	.306	.127	.025040	.310	.130	.030050		.116	.005010
.286	.195	.005010	.295	.169	.005010	.300	.200	.005010	.306	.138	.020040	.310	.132	.015030		.122	.015030
.286	.211	.005010	.295	.170	.040050	.300	.203	.010020	.306	.140	.005010	.310	.134	.015030		.126	.005090
.287	.118	.005010	.295	.173	.030050	.300	.216	.016025	.306	.190	.015030	.310	.140	.015025		.127	.010020
.287	.183	.005010	.295	.174	.020032	.300	.220	.015025	.306	.194	.030050	.310	.147	.005010		.128	.020040
.287	.195	.006012	.295	.177	.010020	.300	.230	.010020	.306	.203	.005015	.310	.152	.015025		.129	.010030
.287	.196	.005020	.295	.179	.050060	.300	.248	.015030	.306	.228	.016025	.310	.155	.030042		.130	.005015
.288	.128	.030050	.295	.187	.005010	.300	.260	.005012	.306	.243	.005010	.310	.158	.050070		.132	.010025
.288	.131	.025040	.295	.192	.005040	.301	.109	.025040	.307	.080	.005010	.310	.161	.005010		.134	.010015
.288	.197	.015030	.295	.193	.015030	.301	.127	.015025	.307	.081	.060080	.310	.162	.030040		.139	.005008
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			*\\/i+b E	OKED,	C procision :	vochoro	VOL. 00	n chacca th	o ovoot	thickno	ss vou want	from the	tool ro	ngo listod			

(13)

O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose												
.345	.150	.030042	.350	.252	.005020	.355	.131	.050078	.360	.277	.005010	.367	.273	From To .005010	.371	.222	.030 -
.345	.159	.005010	.350	.253	.005010	.355	.158	.025042	.360	.312	.015025	.368	.061	.005010	.371	.233	.005 -
.345	.170	.005010	.350	.255	.025040	.355	.159	.040060	.361	.215	.030050	.368	.063	.005010	.371	.245	.050 -
.345	.189	.005010	.350	.262	.005010	.355	.160	.040060	.361	.243	.025040	.368	.080	.020030	.371	.250	.005 -
.345	.192	.005075	.350	.276	.025040	.355	.175	.040060	.361	.281	.005010	.368	.122	.025042	.371	.252	.035 -
.345	.193	.025060	.350	.291	.020045	.355	.185	.005010	.361	.296	.005010	.368	.124	.040050	.371	.253	.015 -
.345	.198	.040060	.351	.064	.005010	.355	.198	.030050	.362	.121	.005010	.368	.154	.005010	.371	.255	.005 -
.345	.205	.005010	.351	.091	.030050	.355	.201	.020040	.362	.143	.015030	.368	.159	.005010	.371	.256	.005 -
.345	.216	.005010	.351	.094	.005010	.355	.226	.008016	.362	.220	.005010	.368	.168	.025040	.371	.260	.005 -
.345	.223	.010050	.351	.097	.005010	.355	.230	.005010	.362	.221	.010020	.368	.193	.020040	.371	.262	.040 -
.345 .345	.228 .252	.015030	.351 .351	.130 .145	.005020 .005010	.355	.236 .255	.005010 .010020	.362	.235	.040060	.368	.194	.050070	.371 .371	.269 .281	.005 - .020 -
.345	.276	.010020	.351	.166	.003010	.355 .355	.260	.030040	.362 .362	.247 .257		.368	.195	.070090	.371	.283	.020 -
.345	.277	.005010	.351	.171	.005015	.355	.281	.030040	.362	.267	.030050 .025040	.368 .368	.199 .223	.015050 .060080	.371	.203	.005
.346	.044	.015030	.351	.184	.005010	.355	.282	.005025	.362	.283	.025040	.368	.223	.000000	.372	.060	.010
.346	.046	.025040	.351	.200	.025050	.356	.111	.025040	.363	.152	.005010	.368	.256	.007013	.372	.071	.020
.346	.084	.030050	.351	.201	.020030	.356	.154	.015030	.363	.180	.050070	.368	.257	.020040	.372	.083	.040
.346	.116	.005010	.351	.208	.030060	.356	.198	.030060	.363	.191	.008016	.368	.263	.005010	.372	.097	.040
.346	.128	.050070	.351	.222	.005010	.356	.255	.005010	.363	.192	.020040	.368	.265	.005030	.372	.099	.020
.346	.143	.040060	.351	.230	.040060	.356	.282	.025040	.363	.254	.010040	.368	.284	.005010	.372	.106	.025
.346	.149	.075090	.351	.241	.020040	.357	.085	.005010	.363	.255	.010020	.368	.287	.020040	.372	.124	.005
.346	.152	.005010	.351	.252	.010020	.357	.093	.005012	.363	.259	.010020	.368	.298	.005010	.372	.153	.025
.346	.158	.005025	.351	.268	.020030	.357	.142	.020040	.363	.286	.025036	.368	.323	.005010	.372	.158	.025
.346	.163	.006015	.351	.309	.010020	.357	.150	.030050	.363	.314	.005010	.369	.084	.030040	.372	.162	.020
.346	.166	.005010	.352	.031	.010020	.357	.173	.070090	.364	.120	.020040	.369	.117	.015030	.372	.164	.015
.346	.172	.040090	.352	.090	.010015	.357	.191	.060080	.364	.151	.090110	.369	.177	.050070	.372	.174	.025
.346	.180	.005010	.352	.129	.020030	.357	.195	.060080	.364	.181	.010020	.369	.181	.040060	.372	.177	.060
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.346 .346	.207	.030060	.352	.168	.008020	.357	.303	.010020	.364	.210	.005015	.369	.194	.005010	.372	.180	.015
.346	.210 .216	.040060	.352	.184 .191	.015030	.357	.318	.005010	.364	.258	.015030	.369	.197	.005010	.372 .372	.196 .199	.062
.346	.219	.010020	.352	.236	.030050	.358 .358	.126 .127	.025040 .015025	.365 .365	.046 .062	.010020 .005010	.369	.205	.005010	.372	.202	.005
.346	.253	.005010	.352	.240	.040060	.358	.164	.020040	.365	.002	.020040	.369 .369	.208 .215	.025040 .005020	.372	.204	.030
.346	.289	.005010	.352	.254	.005010	.358	.170	.020040	.365	.178	.020040	.369	.224	.005020	.372	.208	.015
.347	.157	.020030	.352	.255	.030050	.358	.178	.030050	.365	.180	.020040	.369	.257	.050070	.372	.221	.050
.347	.174	.030050	.352	.263	.010020	.358	.203	.005010	.365	.189	.007015	.369	.313	.005010	.372	.230	.015
.347	.203	.025040	.353	.062	.015025	.358	.204	.020030	.365	.193	.005010	.369	.324	.005010	.372	.239	.050
.347	.220	.015030	.353	.128	.020040	.358	.213	.005010	.365	.200	.005010	.370	.034	.020025	.372	.253	.010
.347	.234	.040060	.353	.143	.020075	.358	.238	.025040	.365	.201	.030040	.370	.088	.010025	.372	.254	.010
.347	.253	.016025	.353	.157	.015030	.358	.252	.005010	.365	.208	.020040	.370	.101	.005020	.372	.255	.005
.347	.256	.006016	.353	.158	.005030	.358	.257	.010020	.365	.212	.050070	.370	.110	.025040	.372	.256	.005
.347	.263	.005010	.353	.159	.030050	.359	.069	.030050	.365	.226	.005010	.370	.119	.005010	.372	.257	.020
.347	.287	.005010	.353	.172	.025040	.359	.127	.025040	.365	.247	.050070	.370	.125	.005060	.372	.258	.040
.348	.168	.020040	.353	.178	.005010	.359	.137	.010020	.365	.250	.005020	.370	.126	.005010	.372	.272	.005
.348	.172	.005010	.353	.190	.015030	.359	.158	.010020	.365	.253	.025040	.370	.140	.010042	.372	.278	.025
.348 .348	.173 .174	.010042 .005010	.353	.225	.032050 .020042	.359	.159	.020035	.365	.254	.005010	.370	.146	.025048	.372	.311	.015 .005
.348	.225	.025042	.353 .353	.226 .227	.020042	.359 .359	.190 .195	.020040 .030050	.365 .365	.255 .257	.015025	.370 .370	.158	.010020 .035060	.372 .372	.312 .315	.005
.348	.266	.015030	.353	.232	.020040	.359	.204	.030030	.365	.265	.013030	.370	.159 .160	.035060	.373	.039	.025
.349	.123	.010020	.353	.237	.005010	.359	.210	.025042	.365	.268	.005010	.370	.171	.005020	.373	.041	.010
.349	.171	.015030	.353	.242	.015025	.359	.221	.025040	.365	.270	.020040	.370	.173	.020040	.373	.068	.015
.349	.176	.010015	.353	.254	.005010	.359	.240	.005010	.365	.307	.005010	.370	.180	.020030	.373	.081	.040
.349	.191	.035050	.353	.281	.005010	.359	.257	.010020	.365	.312	.005020	.370	.189	.020040	.373	.127	.005
.349	.192	.015030	.354	.048	.005010	.359	.258	.020040	.365	.315	.005010	.370	.191	.005010	.373	.142	.062
.349	.197	.020030	.354	.052	.030050	.359	.260	.031042	.366	.077	.005010	.370	.196	.010020	.373	.157	.020
.349	.220	.015030	.354	.061	.015025	.359	.267	.020032	.366	.129	.015025	.370	.199	.015025	.373	.159	.020
.349	.252	.015030	.354	.070	.015025	.359	.284	.010020	.366	.158	.015030	.370	.202	.060080	.373	.165	.005
.349	.285	.020030	.354	.099	.010020	.359	.293	.005015	.366	.190	.040060	.370	.205	.005010	.373	.168	.010
.349	.290	.005010	.354	.114	.060080	.360	.038	.005010	.366	.206	.005020	.370	.206	.025040	.373	.174	.005
.349	.297	.005010	.354	.119	.040060	.360	.080	.005010	.366	.218	.016032	.370	.211	.060080	.373	.175	.050
.350	.060	.005010	.354	.125	.005070	.360	.095	.005010	.366	.219	.015030	.370	.212	.040050	.373	.189	.030
.350	.089	.005010 .005010	.354	.128	.025040 .030050	.360	.102	.015030 .030040		.225	.020040 .020040	.370	.218	.040060	.373	.191	.030
.350 .350	.090 .121	.010010	.354 .354	.144 .145	.020050	.360 .360	.115 .126	.030040	.366	.241 .253	.020040	.370	.220	.015030 .005010	.373 .373	.192 .193	.010
.350	.122	.010020	.354	.143	.020040	.360	.126	.005010	.366 .366	.253 .254	.005015	.370 .370	.252 .254	.005010	.373	.193	.005
.350	.125	.090110	.354	.152	.060080	.360	.164	.020032	.366	.268	.030050	.370	.254	.020040	.373	.200	.005
.350	.154	.005010	.354	.161	.010020	.360	.171	.025040		.272	.025035	.370	.261	.015030	.373	.210	.005
.350	.160	.020040	.354	.162	.010020	.360	.175	.005020		.274	.010020	.370	.269	.040060	.373	.222	.015
.350	.167	.015030	.354	.178	.010020	.360	.177	.050070		.294	.005012	.370	.300	.020030	.373	.238	.030
.350	.168	.030050	.354	.201	.005010	.360	.185	.005010	.366	.305	.016025	.370	.330	.005010	.373	.253	.040
.350	.171	.005010	.354	.204	.010060	.360	.186	.040060	.366	.312	.015025	.371	.099	.020040	.373	.256	.042
.350	.178	.060080	.354	.226	.005010	.360	.188	.015030	.367	.098	.030050	.371	.129	.050070	.373	.269	.005
.350	.181	.025040	.354	.237	.010020	.360	.190	.030050		.105	.015025	.371	.130	.050075	.373	.317	.010
.350	.194	.005010	.354	.238	.005040	.360	.192	.060090	.367	.125	.090125	.371	.131	.020030	.373	.318	.005
.350	.195	.060080	.354	.245	.005010	.360	.193	.005015	.367	.176	.050062	.371	.150	.005010	.374	.049	.005
.350	.203	.032042	.354	.279	.005010	.360	.203	.030042		.186	.005010	.371	.176	.005010	.374	.083	.036
.350	.213	.020030	.354	.315	.005010	.360	.207	.050062		.258	.050060	.371	.184	.010020	.374	.099	.005
.350	.223	.010020	.355	.070	.015030	.360	.230	.010020		.260	.015030	.371	.195	.050070	.374	.120	.040
0.50	.231	.015030	.355	.083 .103	.030050 .070080	.360 .360	.245 .260	.005010 .025042		.264 .272	.005010 .020040	.371 .371	.201 .206	.040060 .060083	.374 .374	.130 .138	.010 .005
.350 .350	.245	.040050	.355							'17'	DAU DAU	3/1	ZUID	UDUL - UXX	2//		(11)5

D.D. 312 312 312 312 312 312 312 31	I.D. .142 .143 .144 .146 .150 .154 .156 .157 .158 .160 .165 .167 .171 .172 .173 .182 .188 .189 .190 .191	Choose Any Thickness' From To 1006030 .005012 .005020 .008040 .005060 .020040 .005020 .040060 .020040 .015025 .040060 .020040 .015025 .040060 .020030 .005010 .010020 .040 .055 .010 .010020 .040 .055010 .010020 .040 .055040 .055062 .005062 .005030	O.D. 314 314 314 314 314 314 314 31	I.D. .043 .060 .088 .103 .111 .114 .122 .128 .139 .148 .152 .158 .161 .162 .176	Choose Any Thickness' To 1005010 .005010 .015035 .025045 .010025 .032050 .025048 .005015 .040060 .025062 .035050 .060080 .040060	O.D. .318 .318 .318 .318 .318 .318 .318 .3	I.D	Choose Any Thickness' From To	O.D325 .325 .325 .325 .325 .325 .325	I.D. .164 .169 .200 .235 .236	Choose Any Thickness* From To .015030 .005010 .005050 .005010 .025040	O.D331 .332 .332 .332 .332	I.D. .279 .164 .175 .192 .203	Choose Any Thickness* From To .005010 .005010 .050075 .016030 .010020	O.D. .340 .340 .340 .340 .340	I.D. .190 .191 .194 .196 .197	Choose An Thickness* From To .00501 .02505 .00501 .02004 .00503
312 312 312 312 312 312 312 312 312 312	.142 .143 .144 .146 .148 .150 .154 .157 .158 .160 .165 .167 .171 .172 .173 .182 .188 .189 .190	.006030 .005012 .005020 .008016 .040060 .020040 .005060 .005035 .005020 .040060 .020040 .015025 .040060 .020040 .020030 .005010	.314 .314 .314 .314 .314 .314 .314 .314	.043 .060 .088 .103 .111 .114 .122 .128 .139 .148 .152 .158 .161	.005010 .005010 .015035 .025045 .010025 .032050 .025048 .005015 .040060 .025062 .035050 .060080 .040060	.318 .318 .318 .318 .318 .318 .318 .318	.097 .125 .132 .143 .159 .166 .174 .191 .198	.005010 .010020 .010020 .008020 .020040 .020040 .015030 .010020	.325 .325 .325 .325 .325 .325 .325	.164 .169 .200 .235 .236	.015030 .005010 .005050 .005010 .025040	.331 .332 .332 .332 .332	.279 .164 .175 .192 .203	.005010 .005010 .050075 .016030	.340 .340 .340 .340 .340	.190 .191 .194 .196	.00501 .02505 .00501 .02004
312 312 312 312 312 312 312 312	.143 .144 .146 .148 .150 .154 .156 .157 .158 .160 .165 .167 .171 .172 .173 .182 .188 .189 .190	.005012 .005020 .008016 .040060 .020040 .005060 .016080 .005020 .005020 .020040 .015025 .040060 .020030 .005010 .020040 .020040 .020040 .020040 .020040	314 314 314 314 314 314 314 314 314 314	.060 .088 .103 .111 .114 .122 .128 .139 .148 .152 .158 .161	.005010 .015035 .025045 .010025 .032050 .025048 .005015 .040060 .025062 .035050 .060080	.318 .318 .318 .318 .318 .318 .318 .318	.125 .132 .143 .159 .166 .174 .191 .198 .228	.010020 .010020 .008020 .020040 .020040 .015030 .010020	.325 .325 .325 .325 .325 .325	.169 .200 .235 .236	.005010 .005050 .005010 .025040	.332 .332 .332 .332	.164 .175 .192 .203	.005010 .050075 .016030	.340 .340 .340 .340	.191 .194 .196	.02505 .00501 .02004
312 312 312 312 312 312 312 312	.144 .146 .148 .150 .154 .156 .157 .158 .160 .165 .167 .171 .172 .173 .182 .188 .189 .190	.005020 .008016 .040060 .020040 .005060 .005035 .005020 .040060 .020040 .015025 .040060 .020030 .020030 .020030 .020030 .020030 .020030	314 314 314 314 314 314 314 314 314 314	.088 .103 .111 .114 .122 .128 .139 .148 .152 .158 .161	.015035 .025045 .010025 .032050 .025048 .005015 .040060 .025062 .035050 .060080	.318 .318 .318 .318 .318 .318 .318 .318	.132 .143 .159 .166 .174 .191 .198 .228	.010020 .008020 .020040 .020040 .015030 .010020	.325 .325 .325 .325 .325	.200 .235 .236	.005050 .005010 .025040	.332 .332 .332	.175 .192 .203	.050075 .016030	.340 .340 .340	.194 .196	.0050 .02004
312 312 312 312 312 312 312 312	.146 .148 .150 .154 .156 .157 .158 .160 .165 .167 .171 .172 .173 .182 .188 .189 .190	.008016 .040060 .020040 .005060 .016080 .005035 .005020 .040060 .020040 .015025 .040060 .020030 .020030 .020030 .020030	.314 .314 .314 .314 .314 .314 .314 .314	.103 .111 .114 .122 .128 .139 .148 .152 .158 .161	.025045 .010025 .032050 .025048 .005015 .040060 .025062 .035050 .060080 .040060	.318 .318 .318 .318 .318 .318 .318	.143 .159 .166 .174 .191 .198 .228	.008020 .020040 .020040 .015030 .010020	.325 .325 .325 .325	.235 .236	.005010 .025040	.332 .332	.192 .203	.016030	.340 .340	.196	.02004
312 312 312 312 312 312 312 312	.148 .150 .154 .156 .157 .158 .160 .165 .167 .171 .172 .173 .182 .188 .189 .190	.040060 .020040 .005060 .016080 .005035 .005020 .040060 .020040 .015025 .040060 .020030 .020030 .020030 .020030 .020040 .020040 .020040 .020040	.314 .314 .314 .314 .314 .314 .314 .314	.111 .114 .122 .128 .139 .148 .152 .158 .161	.010025 .032050 .025048 .005015 .040060 .025062 .035050 .060080 .040060	.318 .318 .318 .318 .318 .318	.159 .166 .174 .191 .198 .228	.020040 .020040 .015030 .010020	.325 .325 .325	.236	.025040	.332	.203		.340		
312 312 312 312 312 312 312 312	.154 .156 .157 .158 .160 .165 .167 .171 .172 .173 .182 .188 .189 .190	.005060 .016080 .005035 .005020 .040060 .020040 .015025 .040060 .020030 .005010 .010020 .020040	.314 .314 .314 .314 .314 .314 .314 .314	.114 .122 .128 .139 .148 .152 .158 .161	.032050 .025048 .005015 .040060 .025062 .035050 .060080	.318 .318 .318 .318 .318	.166 .174 .191 .198 .228	.020040 .015030 .010020	.325 .325								
312 312 312 312 312 312 312 312	.156 .157 .158 .160 .165 .167 .171 .172 .173 .182 .188 .189 .190	.016080 .005035 .005020 .040060 .020040 .015025 .040060 .020030 .005010 .010020 .020040 .005062	.314 .314 .314 .314 .314 .314 .314 .314	.128 .139 .148 .152 .158 .161 .162	.005015 .040060 .025062 .035050 .060080 .040060	.318 .318 .318 .318	.191 .198 .228	.010020			.015025	.332	.213	.005008	.340	.204	.0360
312 312 312 312 312 312 312 312	.157 .158 .160 .165 .167 .171 .172 .173 .182 .188 .189 .190	.005035 .005020 .040060 .020040 .015025 .040060 .020030 .005010 .010020 .020040 .005062	.314 .314 .314 .314 .314 .314 .314 .314	.139 .148 .152 .158 .161 .162	.040060 .025062 .035050 .060080 .040060	.318 .318 .318	.198 .228		00-	.254	.015025	.332	.236	.005030	.340	.207	.0300
312 312 312 312 312 312 312 312 312 312	.158 .160 .165 .167 .171 .172 .173 .182 .188 .189 .190	.005020 .040060 .020040 .015025 .040060 .020030 .005010 .010020 .020040 .005062	.314 .314 .314 .314 .314 .314 .314	.148 .152 .158 .161 .162	.025062 .035050 .060080 .040060	.318 .318	.228	.030060	.325	.256	.005010	.333	.123	.020080	.340	.210	.0300
312 312 312 312 312 312 312 312 312 312	.160 .165 .167 .171 .172 .173 .182 .188 .189 .190	.040060 .020040 .015025 .040060 .020030 .005010 .010020 .020040 .005062	.314 .314 .314 .314 .314 .314	.152 .158 .161 .162	.035050 .060080 .040060	.318			.326	.138	.005010	.333	.173	.032048	.340	.212	.02004
312 312 312 312 312 312 312 312 312 312	.165 .167 .171 .172 .173 .182 .188 .189 .190	.020040 .015025 .040060 .020030 .005010 .010020 .020040 .005062	.314 .314 .314 .314 .314	.158 .161 .162	.060080 .040060			.008016	.326	.150	.030050	.333	.175	.020050	.340	.222	.0250
312 312 312 312 312 312 312 312 312 312	.167 .171 .172 .173 .182 .188 .189 .190	.015025 .040060 .020030 .005010 .010020 .020040 .005062	.314 .314 .314 .314 .314	.161 .162	.040060		.237	.005010	.326	.180	.005010	.333	.212	.020036	.340	.233	.0500
312 312 312 312 312 312 312 312 312 312	.171 .172 .173 .182 .188 .189 .190	.040060 .020030 .005010 .010020 .020040 .005062	.314 .314 .314 .314	.162		.319 .319	.140	.015030	.326 .326	.181	.005010	.333	.225	.010020	.340 .340	.240 .257	.03003
312 312 312 312 312 312 312 312 312 312	.172 .173 .182 .188 .189 .190	.020030 .005010 .010020 .020040 .005062	.314 .314 .314		.040060	.319	.146 .178	.020030 .005010	.326	.189 .196	.050070 .005010	.333 .334	.257 .039	.015025 .015025	.340	.283	.0150
312 312 312 312 312 312 312 312 312 312	.173 .182 .188 .189 .190	.005010 .010020 .020040 .005062	.314 .314		.030050	.319	.228	.010020	.326	.256	.005010	.334	.039	.015025	.341	.052	.02504
312 312 312 312 312 312 312 312 312	.182 .188 .189 .190	.010020 .020040 .005062	.314	.189	.015032	.320	.061	.005010	.327	.113	.025042	.334	.046	.005010	.341	.061	.0050
312 312 312 312 312 312 312	.189 .190 .191	.005062	24.4	.219	.030050	.320	.067	.030042	.327	.120	.025040	.334	.122	.005010	.341	.090	.06008
312 312 312 312 312 312	.190 .191		.314	.220	.015030	.320	.078	.005010	.327	.130	.030050	.334	.127	.005010	.341	.093	.0200
312 312 312 312 312 312	.191	.005030	.314	.225	.015025	.320	.084	.030040	.327	.190	.030050	.334	.160	.015030	.341	.120	.0050
312 312 312 312			.314	.236	.005010	.320	.093	.042060	.327	.194	.010020	.334	.196	.005010	.341	.131	.07009
312 312 312	.192	.008020	.314	.242	.010020	.320	.113	.005010	.327	.217	.030050	.334	.197	.032048	.341	.141	.08009
312 312		.005040	.314	.256	.010020	.320	.122	.015030	.327	.250	.050060	.334	.218	.015030	.341	.158	.0250
312	.193	.005010	.315	.025	.006010	.320	.124	.005010	.327	.258	.010025	.334	.220	.005050	.341	.161	.01503
	.194	.025040	.315	.030	.005015	.320	.131	.005010	.327	.262	.005010	.334	.226	.025040	.341	.164	.0100
014	.195 .199	.020035	.315 .315	.068	.010020 .020040	.320	.145 .146	.025042 .015030	.328	.105	.005010	.334	.242	.010020	.341	.202 .281	.0150 .0250
312	.200	.040060	.315	.092	.045065	.320	.146	.015030	.328 .328	.162 .175	.030050	.334 .334	.258 .260	.020030 .005010	.342	.092	.0250
312	.204	.005050	.315	.095	.032062	.320	.170	.015025	.328	.173	.005010	.334	.275	.005010	.342	.118	.0320
312	.206	.010020	.315	.097	.005030	.320	.178	.010020	.328	.179	.015030	.334	.295	.010015	.342	.145	.0050
312	.208	.005010	.315	.124	.050060	.320	.182	.050070	.328	.192	.030050	.335	.034	.010020	.342	.156	.0050
312	.216	.010020	.315	.127	.050070	.320	.220	.040050	.328	.197	.025040	.335	.129	.015025	.342	.162	.0300
312	.219	.015030	.315	.129	.030050	.320	.221	.050062	.328	.200	.005015	.335	.159	.060075	.342	.164	.0150
312	.221	.005010	.315	.138	.060080	.321	.062	.005010	.328	.214	.010032	.335	.169	.015030	.342	.193	.0050
312	.223	.005042	.315	.140	.020040	.321	.077	.020030	.328	.219	.030050	.335	.172	.010020	.342	.198	.0150
312	.227	.030042	.315	.147	.020030	.321	.135	.020035	.328	.222	.010025	.335	.196	.025040	.342	.201	.0250
312	.228	.030050	.315	.157	.005015	.321	.147	.010020	.328	.225	.005040	.335	.200	.020040	.342	.206	.0150
312 312	.231 .251	.025040	.315 .315	.160 .162	.005010 .020030	.321 .321	.203 .226	.005010 .010020	.328	.245	.007016	.335	.204	.005040	.342 .342	.212 .255	.0150
312	.252	.005010	.315	.163	.020030	.321	.253	.020030	.328 .328	.252 .253	.020031 .005010	.335 .335	.215 .235	.030050 .010020	.343	.062	.05003
312	.254	.015030	.315	.167	.020040	.322	.050	.005010	.328	.256	.010020	.335	.257	.010020	.343	.087	.0300
313	.062	.005010	.315	.170	.020040	.322	.128	.010020	.328	.260	.020040	.335	.258	.005010	.343	.088	.0600
313	.082	.005010	.315	.181	.005010	.322	.145	.015030	.328	.273	.005010	.335	.259	.005015	.343	.092	.0050
313	.096	.075090	.315	.190	.005010	.322	.206	.005010	.329	.030	.010020	.336	.045	.005010	.343	.094	.0250
313	.100	.008042	.315	.195	.040060	.322	.224	.010020	.329	.100	.025040	.336	.048	.005010	.343	.097	.0100
313	.101	.040060	.315	.223	.030050	.322	.228	.025040	.329	.108	.005010	.336	.117	.040060	.343	.110	.0250
313	.105	.008020	.315	.224	.005010	.322	.241	.010020	.329	.111	.010020	.336	.118	.040060	.343	.116	.0150
313	.110	.008015	.315	.238	.010020	.322	.242	.025040	.329	.132	.005010	.336	.138	.005048	.343	.134	.0070
313 313	.120 .123	.005010	.315 .315	.240 .244	.005010 .020035	.322 .323	.287 .094	.010020 .010020	.329 .329	.206 .209	.005010 .030050	.336	.191	.030050	.343 .343	.138 .161	.0400
313	.126	.020040	.315	.250	.020033	.323	.094	.020040	.329	.209	.005010	.336 .336	.197	.005010 .005010	.343	.167	.0100
313	.129	.005010	.316	.098	.030050	.323	.124	.005010	.329	.245	.020040	.336	.218	.010020	.343	.193	.0050
313	.130	.025040	.316	.105	.025048	.323	.130	.025042	.329	.253	.005010	.336	.257	.020040	.343	.194	.0600
313	.133	.015030	.316	.124	.060075	.323	.160	.005025	.329	.288	.005010	.336	.270	.005010	.343	.195	.0060
313	.135	.030050	.316	.134	.005010	.323	.166	.020030	.330	.093	.005010	.336	.275	.005010	.343	.196	.0100
313	.138	.025040	.316	.138	.020040	.323	.171	.015030	.330	.124	.020032	.336	.306	.005010	.343	.197	.0250
313	.140	.040060	.316	.140	.005010	.323	.180	.042090	.330	.140	.042062	.337	.129	.005012	.343	.217	.0400
313	.147	.030050	.316	.153	.005010	.323	.196	.005010	.330	.143	.020040	.337	.165	.015025	.343	.219	.0320
313	.151	.005010	.316	.157	.005010	.323	.200	.020032	.330	.151	.020040	.337	.182	.005010	.343	.225	.0200
313 313	.156 .157	.040050 .005010	.316 .316	.167 .180	.005010 .020030	.323	.211	.020030	.330	.193	.005010	.337	.252	.020030	.343	.229 .230	.0050
313	.158	.015030	.316	.198	.020030	.323	.213	.005010 .005010	.330	.205 .206	.040060 .005015	.337	.253 .277	.005010 .015030	.343	.245	.0250
313	.160	.006030	.316	.199	.030050	.323	.035	.005010	.330	.217	.005015	.337	.285	.015030	.343	.261	.0100
313	.162	.005010	.316	.200	.005010	.324	.033	.005010	.330	.229	.025040	.338	.115	.015030	.343	.274	.0200
313	.170	.040070	.316	.201	.005050	.324	.126	.020040	.330	.250	.005010	.338	.168	.072090	.344	.102	.0050
313	.173	.025050	.316	.207	.005010	.324	.145	.010020	.330	.251	.005020	.338	.170	.010030	.344	.152	.0250
313	.179	.005025	.316	.209	.005010	.324	.162	.060080	.330	.253	.020040	.338	.201	.050060	.344	.165	.0150
313	.185	.005010	.316	.239	.005010	.324	.165	.060080	.330	.257	.020036	.338	.238	.005010	.344	.167	.0150
313	.187	.005010	.316	.252	.005010	.324	.190	.005010	.330	.261	.005010	.338	.251	.015030	.344	.172	.0350
313	.190	.010015	.316	.255	.006010	.324	.200	.010020	.331	.067	.010025	.338	.253	.010020	.344	.184	.0250
313	.200	.010020	.317	.095	.008020	.324	.204	.040060	.331	.124	.020030	.339	.150	.010020	.344	.189	.0150
313	.206	.030050	.317	.100	.006030	.324	.206	.040060	.331	.129	.005010	.339	.151	.005010	.344	.190	.0050
313 313	.207 .208	.020040	.317	.114	.005010	.324	.207	.020030	.331	.140	.030050	.339	.157	.005010	.344	.196 .252	.0200
313 313	.208	.020040	.317 .317	.132 .148	.005010 .050070	.324 .324	.242 .254	.025042 .005010	.331	.158	.005010	.339	.176	.020040 .005010	.344 .344	.252 .267	.0250 .0250
313	.230	.020040	.317	.148	.050070	.324	.118	.005010	.331	.167 196	.020030	.339 .339	.206 .223		.344	.290	.0250
313	.232	.005015	.317	.205	.010020	.325	.116	.015010	.331	.196 .198	.005010	.340	.085	.005010 .015030	.344	.290	.0100
313	.242	.005010	.317	.229	.005010	.325	.130	.015025	.331	.200	.040060	.340	.150	.015030	.345	.043	.0050
313	.253	.020030	.317	.240	.025035	.325	.134	.005010	.331	.236	.015030	.340	.158	.020040	.345	.125	.0200
313	.255	.015025	.317	.281	.005010	.325	.140	.040060	.331	.237	.020030	.340	.164	.030060	.345	.132	.0320
314	.039	.010020	.318	.094	.005010	.325	.142	.008018	.331	.254	.005008	.340	.189	.012020	.345	.135	.0320
					- 1												
			*With E	OKER'	S precision v	washers	. vou ca	an choose th	e exact	thicknes	ss vou want	from the	tool ra	nae listed.			

									3 IVIL		VASITENS						
O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose / Thicknes
396	.260	.030050	.400	.288	.015030	.405	.303	.015025	.411	.095	.005010	.420	.036	.005010	.425	.343	.020
396	.277	.020040	.400	.314	.025040	.406	.094	.005010	.411	.127	.020040	.420	.036	.005010	.425	.344	.005
396	.278	.020040	.400	.347	.005010	.406	.120	.032048	.411	.225	.020040	.420	.129	.020030	.425	.345	.005
396	.285	.025042	.400	.360	.005010	.406	.124	.020040	.411	.258	.020050	.420	.170	.015030	.426	.140	.015
396	.318	.005010	.401	.102	.005010	.406	.127	.025040	.411	.292	.010020	.420	.179	.005010	.426	.187	.005
396	.333	.005030	.401	.121	.030050	.406	.128	.015030	.411	.310	.010020	.420	.193	.005010	.426	.215	.005 -
396	.338	.005008	.401	.125	.030105	.406	.140	.025042	.411	.314	.030050	.420	.204	.030050	.426	.216	.070 -
397	.025	.005010	.401	.128	.025040	.406	.155	.050075	.411	.315	.005020	.420	.234	.005010	.426	.219	.005 -
397	.032	.005010	.401	.130	.005010	.406	.161	.050075	.412	.136	.007015	.420	.238	.020030	.426	.225	.010 -
397	.105	.008016	.401	.165	.005010	.406	.170	.010025	.412	.161	.030050	.420	.241	.005010	.426	.234	.025 -
397	.109	.005015	.401	.169	.031048	.406	.171	.048072	.412	.190	.005070	.420	.251	.030040	.426	.256	.040 -
397	.153	.025040	.401	.171	.005010	.406	.189	.012020	.412	.196	.005015	.420	.254	.006012	.426	.257	.050 -
397	.176	.005010	.401	.202	.020060	.406	.190	.005010	.412	.211	.005010	.420	.258	.005010	.426	.270	.050 -
397	.183	.010020	.401	.219	.020040	.406	.201	.050070	.412	.218	.010020	.420	.279	.005016	.426	.272	.005 -
397	.196	.010015	.401	.221	.060075	.406	.203	.005010	.412	.222	.010020	.420	.280	.010025	.426	.314	.005 -
397	.212	.005015	.401	.237	.035050	.406	.204	.030050	.412	.231	.060080	.420	.311	.005010	.426	.320	.010 -
397	.231	.005010	.401	.241	.030050	.406	.209	.030050	.412	.236	.005010	.420	.314	.030050	.426	.345	.010 -
397	.250	.005010	.401	.251	.025040	.406	.218	.025040	.412	.241	.005010	.420	.319	.005010	.426	.354	.015 -
397	.255	.070090	.401	.258	.015025	.406	.220	.025042	.412	.290	.040060	.421	.058	.005010	.427	.107	.010 -
397	.267	.020040	.401	.263	.005010	.406	.221	.010020	.412	.326	.010040	.421	.108	.005010	.427	.134	.030 -
397	.280	.040050	.401	.298	.005010	.406	.224	.005010	.413	.169	.005010	.421	.121	.005010	.427	.187	.005 -
397	.298	.015030	.401	.314	.010020	.406	.242	.062080	.413	.187	.010020	.421	.178	.020040	.427	.213	.030 -
397	.315	.032042	.401	.328	.005030	.406	.250	.020035	.413	.212	.010020	.421	.204	.020040	.427	.230	.010 -
397	.320	.020040	.402	.099	.015025	.406	.252	.050070	.413	.222	.042072	.421	.209	.005010	.427	.233	.050 -
397	.325	.015025	.402	.145	.015060	.406	.257	.025042	.413	.223	.005010	.421	.234	.025040	.427	.260	.005 -
398	.117	.020035	.402	.157	.005010	.406	.260	.005010	.413	.229	.005010	.421	.251	.015030	.427	.265	.015 -
398	.188	.005010	.402	.162	.060080	.406	.262	.025040	.413	.269	.005010	.421	.252	.005010	.427	.279	.040 -
398	.191	.040060	.402	.193	.015025	.406	.264	.036050	.413	.319	.005010	.421	.268	.025040	.427	.325	.015 -
398	.200	.070080	.402	.235	.050070	.406	.269	.005010	.413	.326	.005010	.421	.279	.005010	.427	.347	.005 -
398	.225	.005010	.402	.256	.030050	.406	.276	.042062	.413	.379	.010020	.421	.280	.005010	.428	.034	.016 -
398	.234	.005010	.402	.270	.040060	.406	.278	.005010	.414	.081	.030050	.421	.291	.005010	.428	.101	.010 -
398	.241	.040060	.402	.281	.048062	.406	.284	.020040	.414	.162	.030050	.421	.319	.020030	.428	.132	.005 -
398	.286	.025048	.402	.300	.015030	.406	.285	.005010	.414	.166	.005010	.421	.322	.005010	.428	.143	.050 -
398	.303	.005010	.402	.359	.005010	.406	.304	.005010	.414	.212	.080100	.422	.038	.020036	.428	.179	.090 -
398	.304	.015030	.403	.144	.005010	.407	.063	.005010	.414	.236	.070080	.422	.123	.005010	.428	.187	.005 -
398	.320	.020040	.403	.189	.025036	.407	.175	.005010	.414	.252	.005060	.422	.129	.010025	.428	.213	.020 -
399	.169	.005010	.403	.192	.020040	.407	.207	.005015	.414	.261	.005010	.422	.130	.015025	.428	.220	.040 -
399	.200	.020040	.403	.193	.016025	.407	.225	.020040	.414	.277	.035045	.422	.153	.005010	.428	.241	.005 -
399	.223	.005010	.403	.203	.005010	.407	.237	.020040	.414	.282	.020030	.422	.189	.025035	.428	.299	.005 -
399	.226	.050070	.403	.263	.030050	.407	.253	.010015	.414	.315	.010020	.422	.218	.010020	.428	.311	.025 -
399	.260	.070090	.404	.100	.005010	.407	.257	.010020	.415	.092	.040060	.422	.282	.040060	.428	.316	.025 -
399	.284	.010020	.404	.128	.005010	.407	.261	.008016	.415	.179	.040070	.422	.335	.010020	.428	.318	.010 -
399	.290	.005010	.404	.173	.060080	.407	.262	.005040	.415	.192	.070090	.422	.375	.005010	.429	.135	.005 -
399	.362	.005010	.404	.180	.060080	.407	.265	.015036	.415	.243	.008020	.423	.129	.005010	.429	.161	.020 -
400	.066	.025048	.404	.189	.025040	.407	.320	.010020	.415	.250	.042080	.423	.153	.005015	.429	.189	.010 -
400	.091	.005010	.404	.190	.025040	.408	.083	.020050	.415	.253	.005010	.423	.177	.030050	.429	.199	.005 -
400	.119	.005010	.404	.195	.010020	.408	.134	.025040	.415	.265	.050070	.423	.226	.040060	.429	.257	.010 -
400	.124	.005010	.404	.197	.005010	.408	.166	.015040	.415	.281	.050072	.423	.250	.020035	.429	.260	.015 -
400	.131	.020030	.404	.210	.030050	.408	.172	.005015	.415	.285	.015025	.423	.254	.020030	.430	.111	.005 -
400	.139	.020035	.404	.218	.005010	.408	.173	.005010	.415	.313	.010020	.423	.269	.060078	.430	.115	.010 -
400	.142	.005010	.404	.220	.025040	.408	.194	.040060	.415	.324	.025035	.423	.270	.060080	.430	.120	.005 -
400	.147	.025048	.404	.224	.005010	.408	.202	.030040	.416	.121	.005010	.423	.271	.050070	.430	.128	.032 -
400	.151	.010060	.404	.246	.005010	.408	.240	.020040	.416	.128	.040060	.423	.278	.025050	.430	.130	.030 -
400	.153	.005010	.404	.252	.005010	.408	.261	.005015	.416	.160	.005010	.423	.314	.010020	.430	.159	.020 -
400	.160	.020040	.404	.260	.015025	.408	.297	.010020	.416	.180	.020030	.423	.319	.015025	.430	.161	.010 -
400	.168	.042062	.404	.265	.015030	.409	.129	.015030	.416	.205	.062080	.423	.328	.030042	.430	.175	.015 -
400	.172	.005010	.404	.280	.060080	.409	.167	.015025	.416	.218	.010020	.423	.345	.010020	.430	.180	.020 -
400	.173	.030050	.404	.313	.005012	.409	.172	.020040	.416	.241	.008020	.424	.139	.030050	.430	.185	.020 -
400	.182	.016032	.404	.320	.005020	.409	.194	.035050	.416	.251	.025040	.424	.169	.005030	.430	.187	.005 -
400	.192	.005060	.405	.099	.005010	.409	.210	.060083	.416	.260	.025040	.424	.190	.005020	.430	.189	.030 -
400	.198	.015050	.405	.107	.005010	.409	.244	.030040	.417	.251	.048062	.424	.196	.040060	.430	.190	.020 -
400	.200	.015025	.405	.108	.030050	.409	.313	.015030	.417	.276	.005010	.424	.230	.015025	.430	.191	.020 -
400	.202	.005010	.405	.137	.005010	.409	.322	.015030	.417	.356	.010020	.424	.319	.005010	.430	.200	.070 -
400	.203	.005010	.405	.156	.040060	.410	.063	.005010	.418	.149	.050070	.424	.325	.005010	.430	.206	.080 -
400	.206	.050070	.405	.162	.015025	.410	.102	.005010	.418	.190	.025050	.425	.138	.030050	.430	.215	.032 -
400	.210	.005020	.405	.168	.005010	.410	.186	.005010	.418	.206	.010015	.425	.147	.020030	.430	.220	.015 -
400	.216	.005010	.405	.175	.040060	.410	.188	.030040	.418	.251	.030040	.425	.165	.015030	.430	.230	.005 -
400	.225	.050070	.405	.184	.005010	.410	.201	.005105	.418	.257	.025040	.425	.191	.060080	.430	.258	.020 -
400	.240	.015020	.405	.201	.005010	.410	.210	.040060	.418	.289	.020030	.425	.194	.015030	.430	.265	.005 -
400	.250	.050070	.405	.202	.020072	.410	.220	.025040	.418	.315	.035050	.425	.197	.005010	.430	.279	.005 -
400	.252	.005010	.405	.204	.050060	.410	.223	.010020	.419	.125	.050072	.425	.212	.005010	.430	.285	.020 -
400	.253	.010020	.405	.222	.050070	.410	.254	.005010	.419	.148	.062090	.425	.250	.015030	.430	.300	.010 -
400	.254	.010020	.405	.243	.010015	.410	.256	.030042	.419	.173	.080104	.425	.256	.050070	.430	.308	.010 -
400	.255	.005030	.405	.250	.020030	.410	.261	.005010	.419	.224	.040060	.425	.261	.050062	.430	.314	.030 -
400	.258	.005010	.405	.252	.030050	.410	.300	.005010	.419	.260	.010020	.425	.284	.030050	.430	.339	.005 -
400	.260	.005010	.405	.253	.025040	.410	.306	.015030	.419	.296	.020040	.425	.317	.015030	.430	.343	.015 -
400	.268	.030050	.405	.257	.005040	.410	.314	.005010	.419	.303	.005010	.425	.318	.005010	.430	.364	.005 -
400	.273	.025040	.405	.261	.010020	.410	.317	.020035	.419	.313	.020040	.425	.319	.040050	.430	.372	.005 -
400	.282	.015030	.405	.276	.025048	.410	.358	.020030	.419	.329	.005025	.425	.326	.020030	.430	.376	.005 -
400	.286	.030040	.405	.279	.050060	.411	.091	.005010	.419	.345	.005010	.425	.336	.020030	.430	.379	.015 -
											-						

									NO	TOOL	ING C	HARGE	FOR	ANY OF	THE	SIZES	LISTI
).D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Ar Thickness
374	.149	.010015	.375	.200	.040060	.376	.301	.005010	.380	.149	.08010		.290	From To .020	.392	.129	.0250
374	.157	.025040	.375	.202	.010032	.376	.316	.005010	.380	.162	.04006		.301	.005010	.392	.190	.0050
374	.168	.025040	.375	.203	.015060	.377	.031	.005010	.380	.173	.0050		.121	.030050	.392	.207	.0150
374	.172	.040060	.375	.204	.060080	.377	.035	.015025	.380	.175	.01509	.386	.130	.020030	.392	.219	.0050
374	.173	.040060	.375	.205	.008015	.377	.047	.030042	.380	.180	.0050	.386	.141	.010020	.392	.280	.0350
374	.175	.040060	.375	.209	.025062	.377	.068	.030042	.380	.186	.01504		.162	.050062	.392	.328	.0050
374	.180	.020080	.375	.211	.010020	.377	.071	.005010	.380	.190	.0050		.181	.040060	.392	.337	.005
374 374	.185 .191	.015030	.375 .375	.213 .218	.015025 .060080	.377	.100	.015030	.380	.191	.02004		.225	.020040	.393	.042 .103	.005 .010
374 374	.194	.005060 .005010	.375	.210	.000000	.377 .377	.101 .110	.020030 .020030	.380 .380	.192 .194	.0050		.237 .250	.040050 .015040	.393	.111	.010
374	.196	.025040	.375	.223	.050070	.377	.114	.020040	.380	.195	.00502		.301	.020040	.393	.120	.005
374	.199	.005010	.375	.225	.050070	.377	.115	.005010	.380	.204	.01202		.313	.020030	.393	.158	.005
374	.200	.005010	.375	.226	.015030	.377	.134	.015030	.380	.215	.03008		.091	.030050	.393	.196	.040
74	.202	.025040	.375	.235	.010020	.377	.140	.005010	.380	.226	.0050		.118	.020030	.393	.201	.030
74	.206	.005010	.375	.237	.005075	.377	.145	.050060	.380	.242	.01503	.387	.171	.060090	.393	.209	.005
74	.221	.010020	.375	.238	.005030	.377	.147	.010020	.380	.255	.0050	.387	.189	.032048	.393	.214	.005
74	.222	.005010	.375	.245	.050060	.377	.156	.030060	.380	.262	.0050		.192	.005010	.393	.217	.030
74	.224	.005010	.375	.248	.010020	.377	.157	.070090	.380	.264	.02504	.387	.258	.020040	.393	.230	.025
74	.225	.008016	.375	.250	.005060	.377	.164	.005010	.380	.276	.0050		.280	.005010	.393	.237	.005
74	.232	.005040	.375	.252	.005015	.377	.165	.020030	.380	.277	.01002		.318	.008020	.393	.239	.005
74	.236	.050060	.375	.253	.005025	.377	.171	.025040	.380	.280	.03004		.328	.010020	.393	.240	.005
74 74	.237	.030060	.375	.254	.005040	.377	.173	.030050	.380	.285	.03209		.090	.015025	.393	.256	.020
74 74	.252 .255	.005040 .005010	.375 .375	.255 .257	.020030 .025040	.377 .377	.182 .185	.025048 .010020	.381 .381	.094 .099	.0050		.127	.008020 .005010	.393	.277 .279	.005 .005
74 74	.257	.025060	.375	.258	.025040	.377	.189	.030060	.381	.114	.02504		.136 .171	.005010	.393	.285	.010
74	.280	.005010	.375	.267	.020030	.377	.190	.030030	.381	.116	.0050		.205	.025040	.393	.287	.005
74	.307	.005010	.375	.274	.010020	.377	.191	.025040	.381	.124	.0050		.203	.025040	.393	.314	.025
74	.320	.010020	.375	.280	.030042	.377	.194	.025040	.381	.124	.0300		.215	.040060	.393	.315	.005
75	.041	.040050	.375	.281	.005040	.377	.219	.032042	.381	.131	.04000		.252	.015030	.393	.316	.010
75	.045	.006015	.375	.282	.005010	.377	.220	.020040	.381	.138	.0050		.264	.025040	.393	.324	.010
75	.048	.015030	.375	.285	.008015	.377	.223	.030050	.381	.148	.02504	.388	.280	.005030	.394	.083	.005
75	.059	.005010	.375	.292	.015025	.377	.225	.015030	.381	.150	.0050	.388	.288	.015030	.394	.095	.005
75	.086	.015030	.375	.301	.015030	.377	.230	.010020	.381	.153	.06007	70 .389	.078	.015030	.394	.142	.005
75	.091	.005030	.375	.303	.025040	.377	.253	.015060	.381	.163	.03008	.389	.130	.020035	.394	.157	.040
75	.095	.090104	.375	.313	.005010	.377	.254	.025040	.381	.175	.07509	.389	.198	.020040	.394	.158	.040
75	.100	.005030	.375	.316	.020040	.377	.255	.040062	.381	.178	.01503		.199	.015030	.394	.168	.050
75	.101	.070080	.375	.318	.020032	.377	.262	.030050	.381	.182	.00502		.200	.015030	.394	.183	.010
75	.103	.030050	.375	.382	.005010	.377	.265	.005010	.381	.186	.01503		.205	.005012	.394	.196	.050
75	.110	.030040	.376	.084	.008016	.377	.267	.006012	.381	.195	.04000		.223	.012020	.394	.203	.005
375 375	.111 .114	.005010 .030042	.376 .376	.117 .122	.015040	.377 .377	.276 .315	.010020 .010020	.381	.200	.02003		.227	.005010	.394	.207 .208	.050
75	.120	.030042	.376	.126	.012020	.378	.061	.010020	.381 .381	.203 .212	.0050		.276 .039	.020030 .005010	.394	.237	.005
75	.123	.030075	.376	.130	.025040	.378	.062	.005010	.381	.255	.0150		.033	.010020	.394	.239	.025
75	.125	.010070	.376	.141	.020040	.378	.064	.015025	.381	.260	.01503		.087	.020030	.394	.240	.005
375	.126	.010020	.376	.156	.010020	.378	.127	.005010	.381	.290	.0050		.129	.015030	.394	.243	.015
75	.129	.005036	.376	.157	.010090	.378	.130	.010020	.381	.294	.0050		.145	.015080	.394	.251	.005
375	.132	.080090	.376	.158	.050070	.378	.160	.010020	.381	.300	.02003	.390	.157	.005010	.394	.255	.045
75	.133	.050062	.376	.159	.050075	.378	.164	.010030	.381	.315	.02003	.390	.162	.020030	.394	.260	.040
75	.135	.005010	.376	.161	.005010	.378	.171	.032050	.382	.132	.02504		.169	.025050	.394	.319	.005
75	.143	.075090	.376	.169	.005010	.378	.178	.005010	.382	.163	.0300		.181	.030050	.395	.099	.030
75	.144	.005040	.376	.172	.005060	.378	.200	.010020	.382	.175	.01503		.185	.005010	.395	.165	.015
75	.145	.025040	.376	.174	.075090	.378	.202	.015030	.382	.189	.0500		.195	.020050	.395	.172	.020
75 75	.147	.030050	.376	.177	.020035	.378	.244	.005010	.382	.195	.0050		.198	.015030	.395		.015
75 75	.148	.030050	.376	.182	.010020	.378	.251	.020030	.382	.199	.0300		.201	.070090	.395	.175 .186	.090
75 75	.150 .152	.020105 .080100	.376 .376	.186 .187	.060080	.378 .378	.252 .255	.010060 .015025	.382	.204	.00503		.217	.015030 .050080	.395	.186	.070
75 75	.152	.005050	.376	.189	.030030	.378	.258	.020030	.382	.207 .225	.03003		.235 .236	.050080	.395	.195	.025
75	.156	.005012	.376	.190	.020080	.378	.260	.020030	.382	.252	.03003		.230	.040075	.395	.200	.005
75	.158	.005010	.376	.191	.040060	.378	.269	.008016	.382	.300	.04800		.256	.005010	.395	.209	.050 -
75	.160	.010020	.376	.194	.030050	.378	.289	.012025	.382	.328	.0150		.257	.015030	.395	.210	.025
75	.161	.020040	.376	.196	.005010	.378	.292	.005010	.383	.099	.0300		.258	.005010	.395	.219	.010
75	.162	.006100	.376	.197	.005010	.379	.143	.050070	.383	.115	.01503		.260	.005020	.395	.220	.015
75	.163	.005060	.376	.204	.010020	.379	.162	.015035	.383	.155	.03008		.262	.040060	.395	.225	.010
75	.165	.042062	.376	.205	.005010	.379	.163	.020035	.384	.127	.02003		.266	.025040	.395	.236	.040 -
75	.169	.015050	.376	.217	.040060	.379	.164	.040070	.384	.144	.0300		.284	.005010	.395	.243	.005 -
75 75	.172	.005050	.376	.220	.020032	.379	.173	.005010	.384	.159	.0300		.306	.005010	.395	.246	.015
75 75	.173	.020030	.376	.222	.005010	.379	.198	.005010	.384	.214	.03003		.314	.025040	.395	.248	.060
75 75	.175	.005012	.376	.223	.005042	.379	.200	.005010	.384	.238	.02003		.105	.005010	.395	.251	.020
75 75	.177 .180	.060075 .060080	.376 376	.234	.030050 .032050	.379	.221	.005010	.384	.271	.01502		.132	.120140	.395 .395	.277 .280	.040
75 75	.184	.005010	.376 .376	.244 .251	.032050	.379 .379	.250 .252	.005010 .005010	.384	.285	.01503		.163	.040060	.395	.284	.040 -
75 75	.188	.005010	.376	.251	.040050	.379	.252	.040062	.385 .385	.156 .181	.02003		.177	.040060 .015030	.395	.294	.036
75	.189	.080104	.376	.252	.025048	.379	.297	.030042	.385	.188	.03003		.197 .226	.015030	.395	.322	.005
75	.190	.080104	.376	.255	.040060	.380	.093	.030042	.385	.194	.06008		.242	.010020	.395	.338	.005 -
75	.191	.040090	.376	.260	.005032	.380	.095	.015030	.385	.239	.0050		.242	.020040	.396	.055	.010 -
75	.192	.005090	.376	.261	.010020	.380	.096	.060080	.385	.241	.0300		.285	.020035	.396	.151	.040 -
75	.193	.005015	.376	.263	.005020	.380	.097	.040060	.385	.249	.02504		.306	.005010	.396	.194	.010
	.194	.040060	.376	.269	.005010	.380	.116	.005010	.385	.252	.0250		.307	.010020	.396	.203	.020
375		.005042	.376	.271	.010040	.380	.126	.030050	.385	.260	.0050		.314	.015020	.396	.221	.005
75	.195	.005042				.380	.148	.025040	.385	.262	.0500		.348	.005010	.396	.259	.030

NO TOOLING CHANGE FOR ANY OF THE SIZES LISTED	BOKEN 3 METAL WASHENS ARE FEAT AND TOMBLE DEBONNED
Choose Any D. I.D. Thickness* Choose	Choose Any O.D. I.D. Thickness*
From To From To From To From To From To	From To From To From To From To
31 .040 .005010 .434 .350 .025035 .437 .194 .020104 .438 .265 .030060 .441 .093 .005020 .447 .375 .020036 .31 .126 .035050 .435 .064 .035062 .437 .197 .040125 .438 .266 .015030 .441 .143 .005020 .447 .380 .015030	.452 .339 .010020 .462 .158 .040060 .467 .213 .015030 .470 .341 .050075 .473 .289 .030050 .479 .412 .005010 .453 .236 .030050 .462 .165 .005010 .467 .218 .015020 .470 .346 .010020 .473 .315 .005010 .479 .424 .020025
31 .126 .035 .050 .435 .064 .035062 .437 .197 .040125 .438 .266 .015030 .441 .143 .005020 .447 .380 .015030 .331 .127 .025040 .435 .067 .020040 .437 .198 .005010 .438 .274 .015030 .441 .151 .030050 .448 .094 .005010	.453 .236 .030050 .462 .165 .005010 .467 .218 .015020 .470 .346 .010020 .473 .315 .005010 .479 .424 .020025 .453 .243 .020030 .462 .203 .010030 .467 .245 .025040 .470 .350 .006015 .473 .317 .010020 .480 .062 .020040
31 .157 .025040 .435 .077 .005010 .437 .199 .015032 .438 .276 .030050 .441 .168 .030050 .448 .139 .030040	.453 .275 .010020 .462 .288 .005010 .467 .251 .050072 .470 .360 .005010 .473 .318 .005010 .480 .086 .015030
31 .158 .005010 .435 .080 .012025 .437 .204 .020030 .438 .281 .060080 .441 .172 .062083 .448 .181 .006012	.453 .300 .030050 .462 .318 .070080 .467 .260 .030050 .470 .369 .005010 .473 .319 .005010 .480 .127 .005010
31 .195 .005010 .435 .082 .030050 .437 .205 .020035 .438 .282 .005075 .441 .190 .005010 .448 .189 .005010	.453 .330 .031048 .462 .324 .005010 .467 .294 .020030 .470 .373 .020035 .473 .320 .005020 .480 .159 .005010
31 .197 .020030 .435 .112 .007012 .437 .215 .020040 .438 .284 .050075 .441 .198 .005030 .448 .191 .030048	.453 .354 .040060 .462 .336 .050060 .467 .323 .005015 .470 .380 .030040 .473 .321 .005010 .480 .166 .030050
31 .235 .005012 .435 .136 .090105 .437 .217 .060080 .438 .297 .015025 .441 .224 .050075 .448 .203 .015030	.453 .378 .031042 .462 .377 .015025 .467 .380 .005010 .470 .384 .015025 .473 .397 .005030 .480 .170 .005010
31 .238 .030060 .435 .149 .060083 .437 .218 .015062 .438 .313 .030060 .441 .242 .020030 .448 .205 .030060	.453 .398 .010020 .463 .073 .015030 .467 .382 .005010 .470 .418 .005010 .474 .126 .010020 .480 .192 .005010
31 .259 .005030 .435 .160 .010020 .437 .219 .008016 .438 .315 .010020 .441 .254 .020040 .448 .215 .020040 .31 .294 .015025 .435 .166 .090105 .437 .220 .040060 .438 .316 .005010 .441 .255 .005010 .448 .223 .025040	.454 .107 .005010 .463 .166 .015030 .467 .420 .005010 .471 .126 .040050 .474 .238 .005010 .480 .196 .040060 .454 .136 .030050 .463 .188 .060080 .468 .084 .010025 .471 .130 .030080 .474 .260 .020070 .480 .201 .015030
32 .080 .005010 .435 .174 .025040 .437 .222 .005010 .438 .322 .010020 .441 .257 .020048 .448 .245 .005020	.454 .193 .070090 .463 .189 .025040 .468 .128 .005015 .471 .149 .005010 .474 .261 .040060 .480 .215 .030050
32 .117 .030050 .435 .178 .105125 .437 .225 .032062 .438 .323 .025040 .441 .258 .030050 .448 .248 .010020	.454 .228 .005010 .463 .222 .025040 .468 .150 .030050 .471 .165 .005010 .474 .278 .005010 .480 .222 .005010
32 .118 .015030 .435 .182 .060083 .437 .228 .050070 .438 .325 .005010 .441 .266 .042072 .448 .251 .032060	.454 .320 .025040 .463 .224 .010020 .468 .222 .040060 .471 .170 .020030 .474 .279 .005010 .480 .237 .040060
32 .120 .015030 .435 .190 .070090 .437 .232 .030042 .438 .328 .328 .010020 .441 .270 .025040 .448 .271 .030050	.454 .356 .020030 .463 .245 .030060 .468 .254 .010015 .471 .174 .005010 .474 .284 .005010 .480 .250 .050010
32 .122 .030050 .435 .191 .005010 .437 .238 .006016 .438 .335 .005010 .441 .273 .005010 .448 .312 .005010	.454 .390 .005010 .463 .258 .050075 .468 .257 .005010 .471 .197 .030040 .474 .317 .005015 .480 .251 .030050
32 .125 .032062 .435 .198 .005072 .437 .245 .020040 .438 .337 .025040 .441 .316 .040060 .448 .323 .010020	.454 .421 .005010 .463 .263 .060075 .468 .258 .020040 .471 .203 .115135 .474 .320 .030050 .480 .256 .070090
32 .130 .010020 .435 .200 .050075 .437 .251 .010015 .438 .339 .025040 .441 .319 .005010 .448 .331 .010020 .332 .133 .050090 .435 .203 .005008 .437 .252 .010020 .438 .365 .005015 .441 .320 .005008 .448 .367 .035050	.455 .080 .005010 .463 .267 .030050 .468 .259 .010090 .471 .205 .100125 .474 .381 .005012 .480 .260 .015030 .455 .145 .005010 .463 .270 .005010 .468 .261 .005015 .471 .206 .005010 .474 .396 .015025 .480 .276 .010020
32 .135 .040060 .435 .214 .040062 .437 .253 .035050 .438 .381 .020030 .442 .154 .030040 .448 .368 .030040	.455 .186 .025040 .463 .288 .005010 .468 .287 .005010 .471 .218 .005010 .475 .147 .020040 .480 .310 .040060
32 .187 .005010 .435 .223 .025050 .437 .254 .005050 .438 .384 .015030 .442 .195 .005010 .448 .377 .005010	.455 .187 .025035 .463 .313 .005010 .468 .312 .050070 .471 .222 .020030 .475 .175 .020030 .480 .325 .010020
32 .199 .005010 .435 .237 .015030 .437 .255 .010020 .439 .118 .030050 .442 .254 .020040 .435 .237 .015070	.455 .195 .015030 .463 .320 .040050 .468 .320 .005010 .471 .223 .040050 .475 .192 .060080 .480 .300 .020040
32 .260 .080 - 351 .020 .351 .005010 .006 .391 .442 .260 .081 .422 .260 .010020 .445 .251 .005010	.455 .235 .020030 .463 .321 .030050 .468 .321 .005072 .471 .224 .020040 .475 .196 .005010 .480 .350 .020040
32 .263 .015025 .435 .252 .015030 .437 .258 .025070 .439 .165 .025040 .442 .286 .005010 .449 .412 .005010	.455 .257 .020032 .463 .322 .015030 .468 .390 .015030 .471 .254 .005010 .475 .227 .020030 .480 .354 .005010
32 .297 .005010 .435 .254 .005008 .437 .259 .050070 .439 .173 .030050 .442 .317 .040060 .450 .062 .030050 .050 .030050 .030050 .030050 .030050 .030050 .030050 .030050 .030050 .030050 .030050 .030050 .030050 .030050 .030050 .030050 .050 .050 .050 .050 .050 .050 .	.455 .261 .007016 .463 .333 .030050 .468 .400 .020040 .471 .256 .035050 .475 .259 .010030 .480 .360 .015030 .455 .265 .015030 .463 .391 .020030 .468 .405 .005010 .471 .259 .005010 .475 .279 .005010 .480 .365 .030040
32 .313 .020048 .435 .257 .025040 .437 .260 .010025 .439 .174 .005050 .443 .190 .025040 .450 .065 .006015 .315 .006010 .435 .261 .025040 .450 .089 .030050 .006 .006 .006 .006 .006 .006 .006	.455 .265 .015030 .463 .391 .020030 .468 .405 .005010 .471 .259 .005010 .475 .279 .005010 .480 .365 .030040 .455 .266 .040060 .464 .129 .005010 .469 .100 .020040 .471 .287 .005015 .475 .286 .005010 .480 .368 .015025
32 .316 .040060 .435 .267 .010020 .437 .262 .030042 .439 .189 .010075 .443 .223 .005010 .450 .114 .015030	.455 .302 .015030 .464 .141 .050070 .469 .149 .080104 .471 .296 .005010 .475 .306 .005010 .480 .370 .015030
32 .317 .005010 .435 .268 .010020 .437 .265 .005012 .439 .190 .060080 .443 .224 .040060 .450 .120 .010015	.455 .353 .010020 .464 .159 .060080 .469 .184 .005010 .471 .318 .050070 .475 .324 .020040 .480 .371 .020030
32 .319 .030050 .435 .284 .040072 .437 .275 .020040 .439 .192 .005010 .443 .278 .020040 .450 .138 .005015	.455 .383 .025040 .464 .160 .015030 .469 .192 .005030 .471 .319 .010020 .475 .334 .040060 .480 .380 .005010
32 .356 .015025 .435 .290 .025050 .437 .281 .042062 .439 .203 .040090 .443 .295 .016025 .450 .143 .005010	.456 .074 .005010 .464 .190 .030050 .469 .206 .075100 .471 .322 .005010 .475 .347 .020040 .480 .391 .005010
32 .364 .005010 .435 .296 .005010 .437 .284 .015030 .439 .207 .040060 .443 .336 .040060 .450 .162 .050075	.456 .153 .025040 .464 .210 .020036 .469 .228 .010020 .471 .337 .005010 .475 .360 .005010 .480 .407 .015030 .456 .158 .020040 .464 .218 .005010 .469 .254 .030050 .471 .348 .025042 .475 .368 .015040 .480 .417 .005010
33 .042 .031 - 165 .005 - 010 .435 .305 .005010 .437 .287 .010020 .439 .251 .060080 .444 .165 .005010 .450 .174 .025040 .33 .052 .015030 .435 .321 .030050 .437 .302 .005012 .439 .252 .060080 .444 .174 .030050 .450 .182 .005010	.456 .158 .020040 .464 .218 .005010 .469 .254 .030050 .471 .348 .025042 .475 .368 .015040 .480 .417 .005010 .456 .189 .030040 .464 .237 .015030 .469 .263 .030050 .471 .378 .005012 .475 .378 .005010 .481 .089 .005010
33 .054 .015030 .435 .327 .030050 .437 .312 .005010 .439 .253 .010025 .444 .196 .015030 .450 .185 .040050	.456 .190 .025062 .464 .244 .005020 .469 .269 .015025 .471 .387 .005010 .475 .380 .010020 .481 .126 .020040
33 .089 .020040 .435 .380 .010020 .437 .316 .010015 .439 .260 .025040 .444 .220 .030050 .450 .192 .005010	.456 .194 .040062 .464 .252 .005010 .469 .281 .005020 .472 .097 .005020 .475 .397 .020030 .481 .161 .005010
33 .157 .030050 .436 .187 .005010 .437 .321 .020040 .439 .264 .060075 .444 .318 .030050 .450 .200 .015080	.456 .221 .005010 .464 .265 .010020 .469 .320 .004008 .472 .099 .020040 .475 .400 .020040 .481 .188 .020030
33 .178 .105125 .436 .188 .070090 .437 .325 .005010 .439 .276 .005010 .444 .342 .010020 .450 .201 .005010	.456 .235 .005010 .464 .318 .015025 .469 .321 .005010 .472 .103 .005010 .475 .411 .010020 .481 .245 .015030
33 .202 .015030 .436 .201 .005010 .437 .328 .020030 .439 .282 .005010 .444 .347 .020040 .450 .216 .005010 .333 .203 .005030 .436 .226 .010025 .437 .329 .040060 .439 .313 .040060 .444 .349 .005010 .450 .223 .015025	.456 .257 .020030 .464 .320 .040060 .469 .322 .010020 .472 .125 .005010 .475 .424 .015040 .481 .247 .025040 .456 .261 .005010 .464 .367 .010020 .469 .325 .020035 .472 .157 .005010 .476 .144 .032060 .481 .256 .005010
33 .203 .005030 .436 .226 .010025 .437 .329 .040060 .439 .313 .040060 .444 .349 .005010 .450 .223 .015025 .333 .220 .005010 .436 .241 .025035 .437 .343 .005060 .439 .315 .005010 .444 .381 .015030 .450 .237 .030050	.456 .261 .005010 .464 .367 .010020 .469 .325 .020035 .472 .157 .005010 .476 .144 .032060 .481 .256 .005010 .456 .356 .010020 .464 .393 .005010 .469 .343 .005010 .472 .160 .010020 .476 .163 .015030 .481 .318 .005010
33 .224 .005010 .436 .251 .080100 .437 .365 .005010 .439 .317 .040060 .445 .095 .030050 .450 .240 .005010	456 .360 .010020 .465 .062 .030050 .469 .349 .010020 .472 .162 .050070 .476 .169 .070080 .481 .336 .005010
33 .237 .030050 .436 .253 .030050 .437 .376 .005025 .439 .321 .040060 .445 .116 .050070 .450 .247 .005010	.456 .378 .005010 .465 .117 .040060 .469 .379 .020030 .472 .165 .015030 .476 .181 .030040 .481 .361 .040060
33 .238 .005010 .436 .254 .010020 .437 .380 .005010 .440 .024 .005010 .445 .136 .010020 .450 .251 .020100	.456 .390 .010020 .465 .134 .030040 .469 .384 .010020 .472 .169 .025050 .476 .190 .015030 .481 .383 .010020
33 .239 .005010 .436 .256 .005010 .438 .048 .005010 .440 .052 .025040 .445 .142 .040050 .450 .252 .005020	.457 .252 .050075 .465 .171 .025040 .470 .042 .015025 .472 .196 .032048 .476 .210 .105125 .481 .387 .010020
33 .243 .020050 .436 .263 .005010 .438 .058 .020035 .440 .090 .035050 .445 .206 .035050 .450 .254 .025040 .333 .251 .010030 .436 .279 .010025 .438 .087 .005010 .440 .105 .005010 .445 .212 .005010 .450 .256 .010020	.457 .254 .005010 .465 .188 .060070 .470 .044 .020030 .472 .200 .005010 .476 .240 .010025 .481 .390 .050060 .457 .255 .030050 .465 .210 .040060 .470 .057 .005010 .472 .211 .005010 .476 .289 .010030 .481 .402 .005010
33 .253 .008070 .436 .282 .025075 .438 .093 .005010 .440 .127 .010020 .445 .219 .050070 .450 .259 .015030	.457 .311 .030040 .465 .211 .100120 .470 .094 .005015 .472 .236 .005010 .476 .314 .010020 .482 .173 .030050
33 .276 .020040 .436 .283 .010020 .438 .094 .025040 .440 .129 .030050 .445 .252 .015025 .450 .260 .025040	.457 .313 .050060 .465 .217 .005010 .470 .116 .035050 .472 .237 .015030 .476 .324 .025040 .482 .190 .020040
33 .278 .005010 .436 .287 .005015 .438 .119 .015030 .440 .140 .025040 .445 .265 .040060 .450 .264 .050070	.457 .363 .005010 .465 .221 .005010 .470 .118 .025042 .472 .238 .005010 .476 .376 .010020 .482 .315 .020040
33 .281 .010020 .436 .314 .005010 .438 .125 .025042 .440 .158 .030050 .445 .325 .010020 .450 .280 .050075	.457 .407 .015025 .465 .222 .060070 .470 .119 .010025 .472 .239 .005010 .476 .404 .005010 .482 .329 .050075 .458 .172 .062090 .465 .229 .005010 .470 .138 .015025 .472 .241 .075090 .477 .132 .030040 .482 .332 .020040
33 .315 .005030 .436 .316 .010042 .438 .129 .015030 .440 .168 .040060 .445 .331 .030050 .450 .284 .020040 .333 .317 .005010 .436 .318 .005010 .438 .136 .010015 .440 .170 .025050 .445 .348 .020040 .450 .290 .080100	.458 .172 .062090 .465 .229 .005010 .470 .138 .015025 .472 .241 .075090 .477 .132 .030040 .482 .332 .020040 .458 .250 .040062 .465 .252 .006015 .470 .143 .012050 .472 .245 .030040 .477 .140 .005010 .482 .334 .005010
33 .321 .035050 .436 .334 .015030 .438 .138 .005010 .440 .173 .005010 .445 .383 .005040 .450 .292 .015025	.459 .172 .050075 .465 .261 .005010 .470 .149 .005010 .472 .246 .030050 .477 .168 .005010 .482 .359 .010040
33 .330 .005010 .436 .375 .015030 .438 .147 .030050 .440 .190 .100125 .445 .385 .005020 .450 .295 .015030	.459 .173 .005050 .465 .283 .075090 .470 .150 .060090 .472 .265 .005010 .477 .178 .005010 .482 .396 .005010
33 .347 .015030 .436 .378 .005010 .438 .162 .030060 .440 .195 .035050 .445 .390 .010015 .450 .316 .005030	.459 .194 .040050 .465 .285 .080090 .470 .158 .050070 .472 .268 .070090 .477 .201 .020030 .483 .033 .010020
33 .348 .030040 .436 .397 .005010 .438 .169 .005010 .440 .202 .070090 .445 .399 .005010 .450 .317 .005025	.459 .290 .060080 .465 .314 .015025 .470 .159 .050070 .472 .270 .090105 .477 .266 .005010 .483 .077 .020040
33 .351 .015030 .437 .039 .005010 .438 .193 .050070 .440 .210 .010020 .446 .049 .010020 .450 .320 .005060 34 .043 .005010 .437 .096 .015025 .438 .195 .030040 .440 .211 .005010 .446 .151 .062090 .450 .350 .015025	.459 .312 .040060 .465 .345 .005010 .470 .176 .060080 .472 .282 .020040 .477 .302 .025040 .483 .149 .005060 .459 .337 .040060 .465 .402 .005020 .470 .187 .110130 .472 .289 .005010 .477 .390 .010020 .483 .152 .015060
34 .079 .030050 .437 .120 .040060 .438 .196 .005020 .440 .217 .070090 .446 .162 .005010 .450 .368 .010020	.459 .347 .020030 .466 .125 .015030 .470 .200 .005010 .472 .289 .003010 .478 .170 .010020 .483 .202 .042062
34 .094 .040060 .437 .125 .005015 .438 .198 .025035 .440 .218 .005020 .446 .171 .040060 .450 .370 .015030	.459 .350 .020030 .466 .127 .020040 .470 .210 .035050 .472 .317 .050070 .478 .222 .025040 .483 .247 .005010
34 .103 .040060 .437 .126 .025050 .438 .200 .005090 .440 .228 .015040 .466 .197 .010020 .450 .375 .025042	.460 .040 .010020 .466 .189 .020040 .470 .218 .010040 .472 .319 .005030 .478 .253 .005010 .483 .360 .030040
34 .160 .090125 .437 .127 .015060 .438 .201 .025050 .440 .237 .050075 .446 .208 .050070 .451 .146 .020030	.460 .143 .220 .040 .466 .191 .020045 .470 .225 .030050 .472 .376 .005010 .478 .254 .015030 .483 .375 .025040
34 .176 .020040 .437 .128 .030050 .438 .202 .020050 .440 .245 .005010 .446 .256 .005010 .451 .188 .020030	.460 .159 .005010 .466 .198 .040060 .470 .228 .010020 .472 .379 .005010 .478 .255 .090105 .483 .379 .030040
34 .187 .005010 .437 .129 .010042 .438 .203 .075090 .440 .250 .005010 .446 .270 .005040 .451 .241 .025040 .344 .196 .005010 .437 .130 .025042 .438 .205 .070090 .440 .252 .010025 .446 .307 .030050 .451 .267 .030050	.460 .194 .005010 .466 .205 .020030 .470 .239 .005010 .472 .387 .025035 .478 .311 .005010 .484 .119 .020040 .460 .244 .020040 .466 .210 .020035 .470 .255 .047085 .472 .399 .010020 .478 .315 .050070 .484 .143 .016025
34 .198 .005010 .437 .133 .050062 .438 .206 .020030 .440 .253 .005010 .446 .319 .032060 .451 .274 .005010	.460 .279 .005010 .466 .218 .050070 .470 .265 .032048 .473 .039 .005010 .478 .316 .025040 .484 .230 .005010
34 .224 .005010 .437 .141 .048072 .438 .207 .005010 .440 .260 .010070 .446 .325 .032060 .451 .315 .040062	.460 .301 .005010 .466 .251 .025040 .470 .271 .010020 .473 .070 .010020 .478 .322 .005010 .484 .257 .050075
34 .236 .032062 .437 .142 .040060 .438 .210 .042060 .440 .265 .005010 .447 .127 .020040 .451 .317 .005010	.460 .306 .005010 .466 .259 .080100 .470 .276 .050075 .473 .157 .005010 .478 .325 .050070 .484 .285 .060080
34 .244 .040050 .437 .143 .040060 .438 .216 .005100 .440 .275 .020045 .447 .146 .020040 .451 .334 .020030	.460 .313 .020030 .466 .264 .005010 .470 .279 .005010 .473 .172 .120135 .478 .343 .005010 .484 .313 .050072
34 .253 .005010 .437 .144 .025035 .438 .232 .035050 .440 .283 .040062 .447 .194 .030050 .451 .344 .030050	.460 .319 .020040 .466 .290 .020030 .470 .280 .010020 .473 .205 .005010 .478 .375 .050062 .484 .350 .010020
34 .255 .005010 .437 .147 .020040 .438 .236 .005010 .440 .291 .020040 .447 .202 .025040 .451 .353 .010020 .34 .271 .050070 .437 .150 .010020 .438 .247 .005010 .440 .304 .030050 .447 .223 .025050 .451 .378 .020030	.460 .378 .030042 .466 .293 .005010 .470 .290 .015030 .473 .217 .015030 .479 .127 .005010 .484 .370 .005010 .460 .380 .005015 .466 .319 .010020 .470 .312 .020030 .473 .238 .030050 .479 .160 .050075 .484 .379 .040060
34 .282 .005010 .437 .157 .015030 .438 .249 .050075 .440 .314 .040060 .447 .223 .025040 .451 .395 .005010	.460 .300 .005010 .466 .321 .005010 .470 .316 .005010 .473 .240 .010020 .479 .178 .005010 .484 .398 .040060
34 .286 .020030 .437 .158 .005010 .438 .255 .005030 .440 .316 .020050 .447 .236 .005010 .452 .036 .010020	.461 .215 .045060 .466 .344 .015030 .470 .317 .005010 .473 .242 .030050 .479 .210 .025036 .484 .432 .005010
34 .315 .005010 .437 .166 .010050 .438 .256 .025050 .440 .328 .040060 .447 .250 .020040 .452 .102 .015030	.461 .334 .005010 .466 .380 .005010 .470 .319 .015030 .473 .243 .005020 .479 .219 .020040 .485 .115 .015030
34 .316 .015040 .437 .169 .008016 .438 .257 .030050 .440 .355 .015025 .447 .254 .010020 .452 .250 .040060	.461 .355 .015025 .467 .103 .010020 .470 .324 .020040 .473 .248 .020030 .479 .294 .005010 .485 .120 .010080
34 .318 .005010 .437 .171 .030050 .438 .258 .005010 .440 .381 .010020 .447 .270 .020030 .452 .257 .010020 .344 .320 .005010 .437 .183 .050062 .438 .259 .005010 .440 .390 .005010 .447 .313 .015025 .452 .284 .005010	.462 .062 .030050 .467 .189 .075105 .470 .330 .020030 .473 .262 .005010 .479 .377 .015030 .485 .162 .020040 .462 .090 .025042 .467 .201 .015030 .470 .338 .005010 .473 .274 .005010 .479 .380 .005008 .485 .170 .040060
34 .330 .030050 .437 .191 .010004 .438 .262 .030050 .441 .042 .010020 .447 .337 .005010 .452 .328 .040060	.462 .100 .060080 .467 .204 .005010 .470 .340 .005010 .473 .284 .030050 .479 .385 .005010 .485 .170 .040000
*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed	*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed

									NO	1001		ANGE	. FOR	ANT OF	Inc	SIZES	SLISTED
O.D.	I.D.	Choose Any Thickness* From To															
.485	.250	.015030	.490	.167	.020030	.493	.375	.020040	.496	.162	.035050	.498	.247	.015030	.500	.072	.040062
.485	.257	.005010	.490	.170	.007016	.493	.376	.005010	.496	.170	.020030	.498	.248	.005010	.500	.077	.005010
.485	.258	.005010	.490	.174	.020030	.493	.388	.005010	.496	.186	.070090	.498	.251	.005010	.500	.082	.008025
.485	.260	.015025	.490	.189	.030050	.493	.394	.025040	.496	.194	.030050	.498	.252	.005010	.500	.086	.005010
.485 .485	.270 .281	.005010	.490 .490	.230	.005010	.494 .494	.032	.005010 .005016	.496 .496	.203	.005012	.498 .498	.257 .259	.010020 .090120	.500	.088	.040060 .015025
.485	.288	.005010	.490	.252	.005010	.494	.131	.030050	.496	.205 .218	.005060	.498	.262	.032104	.500	.093	.005010
.485	.312	.030050	.490	.259	.090110	.494	.162	.020030	.496	.248	.005010	.498	.265	.050075	.500	.096	.005010
.485	.313	.010020	.490	.260	.005010	.494	.187	.050070	.496	.249	.005010	.498	.269	.050070	.500	.098	.010020
.485	.317	.005010	.490	.260	.020040	.494	.204	.005010	.496	.252	.020040	.498	.300	.020030	.500	.102	.008015
.485	.319	.010020	.490	.265	.005010	.494	.211	.005010	.496	.253	.020070	.498	.302	.025040	.500	.105	.005010
.485	.320	.010040	.490	.295	.005020	.494	.224	.005010	.496	.255	.005010	.498	.315	.005010	.500	.112	.030050
.485	.328	.032050	.490	.301	.005010	.494	.240	.100125	.496	.260	.015030	.498	.321	.010020	.500	.113	.020040
.485	.336	.010020	.490	.302	.005010	.494	.241	.005010	.496	.262	.015030	.498	.323	.020040	.500	.114	.005030
.485	.347	.020030	.490	.313	.015030	.494	.261	.010020	.496	.263	.015030	.498	.328	.060075	.500	.116	.020040
.485	.350	.020030 .010020	.490	.315	.015020	.494	.262	.025040	.496	.265	.060080	.498	.337	.015030	.500	.121	.005012 .007062
.485 .485	.354 .376	.015025	.490 .490	.316 .343	.015020 .030040	.494 .494	.265 .273	.010060 .005010	.496 .496	.304	.060080	.498	.339	.020035	.500 .500	.125 .129	.007002
.485	.385	.015025	.490	.344	.005040	.494	.273	.005010	.496	.318	.040080 .005010	.498	.341	.050070	.500	.131	.010060
.485	.386	.015025	.490	.353	.010020	.494	.274	.010020	.496	.319 .332	.030050	.498 .498	.344 .377	.015025 .005010	.500	.132	.040060
.485	.402	.030050	.490	.360	.020040	.494	.280	.005010	.496	.343	.030042	.498	.380	.010015	.500	.133	.005010
.485	.411	.020040	.490	.377	.050070	.494	.282	.005010	.496	.346	.050042	.498	.392	.005042	.500	.136	.012020
.485	.412	.020040	.490	.378	.010042	.494	.314	.015050	.496	.349	.050075	.498	.399	.015025	.500	.140	.010020
.485	.431	.005010	.490	.380	.005010	.494	.321	.010020	.496	.353	.050070	.498	.408	.005010	.500	.141	.008016
.486	.062	.030050	.490	.391	.016025	.494	.322	.050070	.496	.377	.050070	.498	.426	.005010	.500	.142	.030125
.486	.128	.015030	.490	.393	.030042	.494	.323	.005078	.496	.380	.005040	.499	.065	.015025	.500	.144	.005030
.486	.220	.025040	.490	.412	.005010	.494	.325	.025035	.496	.381	.015075	.499	.072	.050075	.500	.145	.007020
.486	.224	.040060	.490	.416	.005015	.494	.348	.030050	.496	.390	.030040	.499	.090	.040060	.500	.146	.035050
.486 .486	.230	.030050	.491	.136	.020040	.494	.367	.005010	.496	.400	.005010	.499	.094	.042062	.500	.147	.035050
.486	.260 .315	.010020	.491 .491	.172 .207	.005010	.494	.370	.008015	.496 .496	.433 .437	.005010 .005010	.499	.118	.060080	.500	.150	.008050
.486	.327	.005050	.491	.250	.020030	.494	.380	.005010	.496 .497	.437	.020030	.499 .499	.123 .125	.050060 .005010	.500	.155	.100125
486	.355	.005010	.491	.252	.100134	.494	.399	.005010	.497	.008	.030050	.499	.125	.005010	.500	.160	.005010
186	.404	.010020	.491	.253	.005075	.494	.420	.008015	.497	.137	.030048	.499	.142	.030050	.500	.163	.050072
487	.042	.025042	.491	.254	.050075	.495	.034	.015025	.497	.138	.030048	.499	.170	.020030	.500	.167	.005010
487	.071	.010020	.491	.256	.040060	.495	.040	.005010	.497	.166	.010020	.499	.175	.050072	.500	.168	.025075
.487	.120	.005010	.491	.265	.090105	.495	.063	.020035	.497	.191	.060080	.499	.189	.010020	.500	.170	.025050
.487	.225	.010032	.491	.266	.010030	.495	.073	.040062	.497	.193	.025040	.499	.190	.020030	.500	.172	.006050
.487	.233	.040060	.491	.267	.005010	.495	.136	.030050	.497	.196	.005010	.499	.192	.005030	.500	.173	.005010
.487	.256	.025040	.491	.268	.005010	.495	.143	.100125	.497	.215	.005010	.499	.193	.005075	.500	.176	.050070
.487	.257	.010020	.491	.317	.010020	.495	.158	.030060	.497	.220	.020070	.499	.194	.005010	.500	.177	.060075
.487 .487	.270 .272	.090110 .005010	.491 .491	.320 .338	.010020 .030050	.495	.162	.048075	.497	.250	.015030	.499	.201	.050075	.500 .500	.180 .182	.025040 .060090
.487	.286	.015030	.491	.385	.030030	.495 .495	.170 .184	.005010 .070090	.497 .497	.252 .253	.005025 .005010	.499 .499	.203 .215	.080100 .010020	.500	.187	.020030
.487	.321	.040060	.491	.393	.005010	.495	.190	.010020	.497	.254	.015060	.499	.229	.010020	.500	.188	.030050
.487	.327	.030040	.492	.124	.110130	.495	.191	.020030	.497	.259	.010040	.499	.239	.030040	.500	.189	.005125
.487	.336	.025040	.492	.193	.030050	.495	.195	.005010	.497	.280	.015030	.499	.240	.048070	.500	.190	.090104
.487	.337	.020040	.492	.201	.040050	.495	.200	.030050	.497	.287	.005015	.499	.243	.005010	.500	.191	.005010
.487	.355	.005020	.492	.204	.105125	.495	.203	.050070	.497	.315	.005012	.499	.246	.005010	.500	.194	.062090
.487	.364	.005010	.492	.250	.020040	.495	.210	.025040	.497	.316	.035050	.499	.254	.035060	.500	.195	.005010
487	.399	.005010	.492	.254	.030060	.495	.215	.010020	.497	.318	.015030	.499	.257	.005010	.500	.196	.010125
487 400	.402	.005010	.492	.255	.030050	.495	.223	.050070	.497	.319	.015030	.499	.258	.015030	.500	.197	.005135
.488 .488	.031	.005010	.492	.256	.010020	.495	.225	.075090	.497	.324	.005010	.499	.259	.030050	.500	.199	.035050
488 488	.054 .096	.025040 .060090	.492 .492	.260 .276	.070090 .005010	.495 .495	.236 .252	.010020 .040060	.497 .497	.337	.005010 .062075	.499	.264	.010020	.500 .500	.200 .201	.040075 .010020
400 488	.118	.080090	.492	.276	.030050	.495	.268	.040060	.497 .497	.344	.062075	.499 .499	.265 .281	.025040 .080100	.500	.202	.060125
488	.137	.005010	.492	.290	.020030	.495	.282	.042072	.497	.406	.005030	.499	.313	.005010	.500	.203	.012020
488	.193	.050070	.492	.323	.005010	.495	.285	.015040	.497	.410	.020030	.499	.318	.050070	.500	.204	.015075
488	.281	.032062	.492	.328	.012020	.495	.286	.015040	.497	.437	.005010	.499	.323	.010060	.500	.205	.005050
188	.315	.005010	.492	.377	.030050	.495	.298	.025045	.497	.442	.005030	.499	.326	.030050	.500	.209	.050070
488	.365	.010020	.492	.379	.005010	.495	.310	.010030	.498	.063	.050062	.499	.329	.005010	.500	.210	.010025
488	.400	.005010	.492	.380	.005010	.495	.312	.005010	.498	.078	.040060	.499	.373	.005010	.500	.217	.040060
.489	.180	.030050	.492	.393	.020042	.495	.315	.040060	.498	.082	.042062	.499	.377	.050060	.500	.218	.005090
489	.189	.025040	.493	.125	.015030	.495	.322	.020040	.498	.096	.030050	.499	.381	.005060	.500	.220	.062105
489 480	.192	.020030	.493	.131	.020040	.495	.325	.020030	.498	.122	.020040	.499	.394	.005010	.500	.221	.020125
489 489	.205 .206	.030060	.493	.145	.070090	.495	.327	.080100	.498	.126	.010015	.499	.409	.025042	.500 .500	.222 .226	.010020 .025040
489	.230	.040060 .005010	.493 .493	.181	.005010 .075090	.495	.329	.010030	.498	.130	.005010				.500	.230	.025040
189	.296	.010020	.493	.193 .198	.075090	.495 .495	.337 .347	.060080 .035050	.498 .498	.134 .148	.010020 .060080				.500	.231	.005010
489	.303	.010020	.493	.207	.005010	.495	.361	.050065	.498	.173	.020040				.500	.233	.100125
489	.304	.020040	.493	.244	.050070	.495	.363	.040060	.498	.175	.100125				.500	.234	.100120
489	.315	.005010	.493	.282	.050075	.495	.381	.010020	.498	.184	.005010				.500	.235	.005010
.489	.320	.040060	.493	.284	.030050	.495	.401	.010025	.498	.187	.015030		7	00	.500	.237	.008125
.489	.333	.020030	.493	.300	.030050	.495	.440	.005008	.498	.197	.040062				.500	.238	.105125
489	.338	.035050	.493	.316	.025040	.496	.041	.030042	.498	.215	.010032				.500	.245	.020030
.489	.382	.005010	.493	.320	.060080	.496	.085	.005010	.498	.216	.025042	.500	.035	.005008	.500	.250	.010134
.490	.126	.070090	.493	.350	.005010	.496	.128	.020040	.498	.220	.050072	.500	.050	.005010	.500	.251	.015030
.490	.127	.025040	.493	.354	.025040	.496	.130	.010020	.498	.230	.020042	.500 500	.064	.005010	.500	.253	.005050
.490 .490	.155 .165	.040060 .015030	.493 .493	.369 .373	.005010 .005010	.496 .496	.132 .156	.060080 .005012	.498 .498	.232 .239	.020036 .025042	.500 .500	.070 .071	.005010	.500 .500	.254 .255	.005083 .005030
			.430	.010	.000010	.450	. 100	.000012	.450	.८७७	.020042	.000	.011	.000010	.000	00	.000000

Dec																		
	O.D.	LD.	Choose Any Thickness*	O.D.	LD.	Choose Any Thickness*	O.D.	LD.		O.D.	LD.		O.D.	LD.	Choose Any Thickness*	O.D.	I.D.	
Section Sect	_		From To			From To			From To	0.5.	1.0.	From To	0.5.		From To			From To
Sect Column Col	.500	.257	.005104	.501	.143	.070090	.503	.383	.005010	.510	.210	.075090	.515	.377	.005010	.524	.323	.020060
Mary	.500	.258	.100120	.501	.158	.005010	.503	.387	.005010	.510	.251	.020040	.515	.378	.020030	.524	.387	.015025
500 250	.500	.259	.100125	.501	.168	.045060	.503	.411	.005010	.510	.269	.005010	.515	.385	.005010	.524	.396	.005010
500 286 005 105 107	.500	.260	.005020	.501	.170	.005010	.504	.125	.090104	.510	.280	.040075	.515	.388	.020040	.524	.409	.010020
100 264 265	.500	.261	.050075	.501	.182	.010104	.504	.230	.005010	.510	.300	.010020	.515	.390	.010040	.524	.441	.005010
500 264 065 075 071	.500	.263	.005120	.501	.191	.090100	.504	.249	.040060			.042062		.391	.050060	.524	.463	.025040
500 268 065	.500	.264	.005010														.068	.015032
500 286 505 505 186 505 186 505 105 505 288 281 205	.500		.005104	.501		.048062											.156	.090105
500 286 085																		
500 270																		
500 280 0.00 0.																		
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Section Sect																		
Section 1988 1989																		
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200 288 019 - 020 501 241 080 - 100 505 149 010 - 070 511 327 020 - 040 516 444 000 - 070 520 340 000 - 040 500 540 000 - 040 500 540 000 - 040 500 540 000 - 040 500 540 000 - 040 500 540 000 - 040 540 000 - 040 540 000																		
200 209 016 - 200 201 025 036 027 205 016 - 107 205 016 170 205 017 205																		
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500 298 0.05 - 208 501 272 698 - 105 596 295 0.99 - 109 312 299 0.10 - 200 517 417 0.05 - 0.10 586 270 0.01 - 0.20 500 290 0.05 - 0.01 517 438 0.05 - 0.10 568 437 0.05 - 0.05 500 300 0.05 - 0.01 518 318 0.05 - 0.																		
500 399 090 505 281 283 005 - 101 505 300 010 - 202 212 275 406 - 617 481 402 - 100 526 437 015 - 205 500 304 086 - 307 512 278 005 - 101 518 175 008 - 100 527 129 145 - 025 500 304 086 - 307 512 278 005 - 101 518 175 008 - 101 527 149 005 - 105 505 305 005 500 305 005 - 301 518 315 005 - 910 505 305 005 - 301 518 315 005 - 910 505 305 005 - 301 518 315 005 - 910 505 305 005 - 301 518 315 005 - 910 505 305 005 - 301 518 315 005 - 910 505 305 005 - 301 518 315 005 - 910 505 305 005 - 301 518 315 005 - 910 505 315 005																		
500 300 009-010 501 283 010-100 506 324 009-020 512 273 040-080 517 441 020-03 528 437 015-030 500 306 009-070 510 513 310 005-070 505 335 005-040 512 312 010-020 518 214 015-030 527 145 005-010 510 305 005-020 500 305 005-035 311 310 005-070 505 335 025-040 512 312 312 010-020 518 214 015-030 527 145 005-010 510 309 005-025 510 313 005-070 515 355 025-040 512 317 005-070 518 256 005-010 527 348 022-050 510 314 005-010 518 336 005-010 527 348 022-050 510 314 005-010 518 336 005-010 527 348 022-050 510 314 005-010 518 336 005-010 527 348 022-050 510 314 005-010 518 336 005-010 527 348 022-050 510 314 005-010 518 336 005-010 527 348 022-050 510 314 005-010 518 336 005-010 527 348 022-050 510 314 005-010 518 326 005-010 518 326 005-010 527 348 022-050 510 314 005-010 518 326 005-010 518 326 005-010 518 326 005-010 527 348 022-050 510 314 005-010 518 326																		
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500 399 005 025 501 322 020 040 505 385 025 030 030 030 512 322 030 5.00 518 258 040 080 057 389 030																		
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500 311 008 - 015 501 346 025 - 040 505 390 030 - 050 512 322 0.05 - 080 518 375 0.05 - 070 527 339 030 - 050 500 316 015 - 104 501 527 437 101 - 020 500 316 015 - 104 501 376 0.05 - 101 505 390 025 - 040 512 345 050 - 040 518 440 020 - 030 527 443 020 - 040 510 317 015 - 030 500 501 376 0.05 - 101 505 401 030 - 030 512 394 005 - 010 518 440 020 - 030 527 443 020 - 040 510 317 015 - 030 501 376 035 - 010 505 401 030 - 030 512 394 015 - 025 519 081 015 - 025 528 128 005 - 010 510 318 015 - 025 519 081 015 - 025 528 128 005 - 010 510 318 318 015 - 025 519 081 015 - 025 528 512 005 - 010 510							.505	.355	.025040	.512	.320		.518	.256	.040060			
500 314 0.05010 501 370 0.90070 505 389 0.05010 512 375 0.05010 512 375 0.05010 512 375 0.05010 512 375 0.05010 518 447 0.01020 527 443 202040 500 316 0.05010 505 376 0.05010 512 375 0.05010 518 447 0.01020 528 428 0.05010 510 0.05 0.05 510 376 0.05010 512 386 0.05010 518 447 0.01020 528 248 0.05010 510 0.05	.500	.312	.015030	.501	.340	.070090	.505	.386	.020030	.512	.321	.005010	.518	.338	.005010	.527	.369	.005010
500 315 015 - 104 501 376 0.61 390 0.805 399 0.20 0.40 512 345 0.05 - 0.01 518 440 0.20 0.20 528 128 0.01 0.02 500 500 317 0.05 - 0.09 0.01 379 0.03 - 0.09 0.05 0.0	.500	.313	.008015	.501	.345	.025040	.505	.390	.030050	.512	.322	.005080	.518	.375	.050070	.527	.393	.030050
500 316 010 - 050 501 376 000 - 010 505 401 030 - 080 512 394 005 - 010 518 447 010 - 020 528 228 040 - 080 031 030 - 030 031 030 - 030 030	.500	.314	.005010	.501	.370	.050070	.505	.396	.005010	.512	.363	.030040	.518	.438	.005010	.527	.437	.010020
500 317 005 - 090 501 379 030 - 050 505 457 005 - 010 512 395 015 - 025 519 081 015 - 025 588 152 005 - 012 500 318 005 - 010 508 205 005 - 010 513 119 040 - 060 519 170 050 - 070 528 236 040 - 060 500 321 005 - 010 501 307 005 - 010 508 205 005 - 010 513 119 040 - 060 519 270 050 - 070 528 236 040 - 060 500 321 005 - 010 501 400 030 - 050 506 221 040 - 060 513 117 005 - 010 519 239 005 - 010 528 265 030 - 000 500 321 005 - 010 501 400 030 - 050 506 227 040 - 060 513 117 030 - 010 519 339 005 - 010 528 268 040 - 060 500 327 020 - 080 501 400 030 - 050 506 225 040 - 060 513 174 030 - 050 519 337 005 - 010 528 268 040 - 060 500 322 030	.500	.315	.015104	.501	.375	.016030	.505	.399	.020040	.512	.375	.050070	.518	.440	.020030	.527	.443	.020040
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Section Sect	.500	.320	.015025	.501	.397	.005010	.506	.220	.040060	.513	.126	.015030		.290	.030040	.528	.254	.005010
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.500 .373 .008015 .502 .194 .060080 .508 .201 .020030 .514 .194 .070090 .521 .145 .075090 .530 .099 .010020 .500 .375 .040075 .502 .196 .040060 .508 .223 .050070 .514 .200 .020040 .521 .239 .040050 .530 .099 .015030 .500 .376 .015030 .502 .245 .025 .036 .508 .269 .010 .020 .514 .203 .005010 .521 .325 .010020 .530 .130 .040060 .500 .377 .005060 .502 .265 .040050 .508 .286 .015 .025 .514 .203 .005010 .521 .325 .010020 .530 .130 .040060 .500 .378 .005060 .502 .262 .040060 .508 .285 .015 .025 .514 .339 .010020 .521 .380 .025 .040 .530 .180 .005010 .500 .383 .030050 .508 .303 .030 .050 .508 .314 .005010 .514 .399 .005010 .521 .440 .005010 .530 .180 .005010 .500 .383 .030050 .502 .263 .030 .055 .004 .508 .336 .005075 .514 .431 .030040 .522 .251 .042 .072 .530 .206 .100125 .500 .388 .020036 .502 .315 .005 .040 .508 .336 .005 .010 .514 .454 .020 .030 .522 .265 .005 .010 .530 .229 .020 .030 .505 .508 .345 .040 .005 .510 .515 .149 .005010 .522 .257 .005 .010 .530 .229 .020 .035 .500 .396 .005 .010 .508 .366 .005 .010 .515 .163 .030050 .522 .290 .040 .050 .530 .222 .020 .035 .500 .396 .005 .010 .508 .386 .005 .010 .515 .163 .030050 .522 .290 .040 .050 .530 .223 .005 .010 .500 .402 .005 .015 .500 .386 .005 .010 .508 .366 .005 .010 .515 .163 .030050 .522 .290 .040 .050 .530 .223 .005 .010 .500 .404 .005 .010 .500 .404 .005 .010 .500 .404 .005 .010 .500 .404 .005 .010 .500 .404 .005 .010 .500 .404 .502 .404 .005 .010 .500 .404 .502 .404 .005 .010 .500 .404 .502 .404 .005 .010 .500 .404 .502 .405 .005 .500 .405 .500 .405 .500 .405 .500 .405 .500 .405 .500 .405 .500 .405 .500 .405 .500 .405 .500 .405 .500 .405 .500 .405 .500 .405 .500 .405 .500 .500																		
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.500 .376 .015030 .502 .245 .025036 .508 .269 .010020 .514 .203 .005010 .521 .325 .010020 .530 .130 .040060 .500 .377 .005060 .502 .262 .040050 .508 .280 .020040 .514 .210 .040060 .521 .340 .072090 .530 .153 .080010 .500 .378 .005060 .502 .262 .040060 .508 .285 .015025 .514 .339 .010020 .521 .380 .025040 .530 .180 .005010 .500 .383 .030050 .502 .263 .030050 .508 .314 .005010 .514 .392 .005010 .521 .440 .005010 .530 .180 .005010 .500 .388 .020036 .502 .315 .005040 .508 .336 .005010 .514 .431 .030040 .522 .251 .042072 .530 .206 .100125 .500 .388 .025040 .508 .336 .005010 .514 .454 .020030 .522 .251 .042072 .530 .206 .100125 .500 .390 .005060 .502 .329 .020030 .508 .355 .040060 .515 .149 .005010 .522 .279 .005010 .530 .219 .030050 .500 .396 .005030 .502 .378 .025040 .508 .366 .005010 .515 .149 .005010 .522 .279 .005010 .530 .221 .030050 .500 .402 .005015 .502 .386 .005010 .508 .405 .005010 .515 .163 .030050 .522 .299 .040050 .530 .253 .025 .015030 .500 .412 .005010 .503 .131 .005120 .508 .405 .030050 .515 .206 .080104 .522 .413 .030050 .530 .255 .015030 .500 .412 .005010 .503 .131 .005120 .508 .405 .030040 .515 .218 .005010 .522 .435 .015030 .530 .275 .010 .125 .500 .441 .010020 .503 .153 .040060 .508 .430 .030050 .515 .227 .030050 .522 .435 .015030 .530 .275 .010 .125 .500 .446 .005010 .503 .157 .050062 .509 .064 .030050 .515 .227 .030050 .522 .435 .015030 .530 .277 .100125 .500 .446 .005010 .503 .157 .050 .062 .509 .064 .030050 .515 .227 .030050 .523 .437 .005010 .530 .277 .100125 .500 .446 .005010 .503 .250 .250 .005 .500 .509 .286 .010020 .515 .316 .005010 .523 .118 .025040 .500 .500 .503 .280 .075010 .509 .286 .010020 .515 .316 .005010 .523 .406 .032010 .530 .315																		
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.500 .385 .040050 .502 .303 .075100 .508 .329 .050075 .514 .431 .030040 .522 .251 .042072 .530 .206 .100125 .500 .388 .020036 .502 .315 .005040 .508 .336 .005010 .514 .454 .020030 .522 .265 .005010 .530 .219 .030050 .500 .390 .005060 .502 .378 .025040 .508 .355 .040060 .515 .149 .005010 .522 .279 .005010 .530 .222 .020035 .500 .396 .005030 .502 .378 .025040 .508 .366 .005010 .515 .163 .030050 .522 .290 .040050 .530 .253 .005010 .500 .402 .005015 .502 .386 .005010 .508 .405 .005010 .515 .191 .050070 .522 .353 .015025 .530 .254 .015030 .500 .412 .005010 .503 .131 .005120 .508 .405 .030050 .515 .206 .080104 .522 .413 .030050 .530 .255 .015030 .500 .415 .012016 .503 .142 .030060 .508 .430 .030040 .515 .218 .005010 .522 .435 .015030 .530 .255 .015030 .500 .441 .010020 .503 .153 .040050 .509 .031 .030050 .515 .228 .005010 .522 .437 .005010 .530 .270 .100125 .500 .446 .005010 .503 .157 .050062 .509 .064 .030050 .515 .228 .005010 .523 .118 .025040 .530 .273 .100125 .500 .450 .005010 .503 .250 .030040 .509 .080 .030050 .515 .228 .005010 .523 .118 .025040 .530 .277 .005010 .500 .452 .010020 .503 .280 .075010 .509 .286 .010020 .515 .228 .005010 .523 .318 .025040 .530 .277 .005010 .500 .452 .010 .020 .503 .280 .075010 .509 .285 .010020 .515 .308 .008 .015 .523 .396 .015030 .530 .271 .005010 .501 .501 .005 .005 .005 .005 .005																		
.500 .388 .020036 .502 .315 .005040 .508 .336 .005010 .514 .454 .020030 .522 .265 .005010 .530 .219 .030050 .500 .390 .005060 .502 .329 .020030 .508 .355 .040060 .515 .149 .005010 .522 .279 .005010 .530 .222 .020035 .500 .396 .005030 .502 .378 .025040 .508 .366 .005010 .515 .163 .030050 .522 .290 .040 .050 .530 .253 .005010 .500 .402 .005015 .502 .386 .005010 .508 .405 .005010 .515 .191 .050070 .522 .353 .015025 .530 .254 .015030 .500 .412 .005010 .503 .131 .005120 .508 .405 .030050 .515 .206 .080104 .522 .413 .030050 .530 .255 .015030 .500 .415 .012016 .503 .142 .030060 .508 .430 .030040 .515 .218 .005010 .522 .435 .015030 .530 .270 .100125 .500 .441 .010020 .503 .153 .040050 .509 .031 .030050 .515 .227 .030050 .522 .437 .005010 .530 .272 .100125 .500 .446 .005010 .503 .157 .050062 .509 .064 .030050 .515 .228 .005010 .522 .437 .005010 .530 .271 .100125 .500 .450 .005010 .503 .255 .030040 .509 .080 .030050 .515 .228 .005010 .523 .128 .025 .040 .530 .273 .100125 .500 .452 .010020 .503 .205 .030040 .509 .285 .010020 .515 .228 .005010 .523 .273 .005010 .530 .271 .005010 .500 .452 .010 .020 .503 .280 .075100 .509 .285 .010020 .515 .280 .005 .010 .523 .273 .005010 .530 .281 .040050 .501 .501 .050 .503 .281 .010020 .509 .286 .010020 .515 .308 .008015 .523 .402 .005010 .530 .314 .015070 .501 .501 .509 .286 .010020 .515 .316 .008015 .523 .402 .005010 .530 .314 .015070 .501 .501 .130 .030050 .503 .318 .050070 .510 .509 .286 .010020 .515 .316 .008015 .523 .402 .005010 .530 .314 .015070 .501 .501 .130 .030050 .503 .318 .050070 .510 .503 .015 .025 .515 .316 .008015 .523 .402 .005010 .530 .314 .015020 .501 .501 .130 .005020 .503 .318 .005010 .509 .286 .010020 .515 .316 .008015 .523 .402																		
.500 .390 .005060 .502 .329 .020030 .508 .355 .040060 .515 .149 .005010 .522 .279 .005010 .530 .222 .020035 .500 .396 .005030 .502 .378 .025040 .508 .366 .005010 .515 .163 .030050 .522 .290 .040050 .530 .253 .005010 .500 .402 .005015 .502 .386 .005010 .508 .405 .005010 .515 .191 .050070 .522 .353 .015025 .530 .254 .015030 .500 .412 .005010 .503 .131 .005120 .508 .405 .005010 .515 .191 .050070 .522 .413 .030050 .530 .255 .015 .030 .500 .415 .012016 .503 .142 .030060 .508 .430 .030040 .515 .218 .005010 .522 .435 .015030 .530 .270 .100125 .500 .441 .010020 .503 .153 .040050 .509 .031 .030050 .515 .227 .030050 .522 .437 .005010 .530 .272 .100125 .500 .446 .005010 .503 .157 .050062 .509 .064 .030050 .515 .228 .005010 .523 .118 .025040 .530 .273 .100125 .500 .450 .005010 .503 .205 .030040 .509 .219 .025042 .515 .226 .005010 .523 .273 .005010 .530 .277 .005010 .501 .601 .005020 .503 .205 .030040 .509 .219 .025042 .515 .260 .020040 .523 .273 .005010 .530 .281 .040050 .501 .061 .005020 .503 .281 .010020 .509 .286 .010020 .515 .308 .008015 .523 .406 .032050 .530 .311 .040050 .501 .301 .030050 .503 .281 .010020 .509 .286 .010020 .515 .315 .008015 .523 .406 .032050 .530 .312 .005010 .501 .301 .301 .005010 .509 .288 .010020 .515 .315 .008015 .523 .406 .032050 .530 .314 .015070 .501 .310 .005010 .503 .318 .005010 .509 .288 .010020 .515 .316 .008015 .523 .406 .032050 .530 .315 .010020 .501 .501 .310 .003050 .503 .318 .050010 .509 .288 .010020 .515 .316 .008015 .523 .406 .032050 .530 .316 .025040 .501 .501 .310 .005020 .503 .318 .050010 .509 .298 .050070 .515 .316 .008015 .523 .406 .032050 .530 .316 .025040 .501 .501 .310 .075010 .503 .318 .050010 .509 .298 .050070 .515																		
.500 .396 .005030 .502 .378 .025040 .508 .366 .005010 .515 .163 .030050 .522 .290 .040050 .530 .253 .005010 .500 .402 .005015 .502 .386 .005010 .508 .405 .005010 .515 .191 .050070 .522 .353 .015025 .530 .254 .015030 .500 .412 .005010 .503 .131 .005120 .508 .405 .030050 .515 .206 .080104 .522 .413 .030050 .530 .255 .015030 .500 .415 .012016 .503 .142 .030060 .508 .430 .030040 .515 .218 .005010 .522 .435 .015030 .530 .270 .100125 .500 .441 .010020 .503 .153 .040050 .509 .031 .030050 .515 .228 .005010 .522 .437 .005010 .530 .272 .100125 .500 .446 .005010 .503 .157 .050062 .509 .064 .030050 .515 .228 .005010 .523 .118 .025040 .530 .273 .100125 .500 .450 .005010 .503 .159 .005010 .509 .800 .030050 .515 .228 .005010 .523 .118 .025040 .530 .277 .005010 .500 .452 .010020 .503 .205 .030040 .509 .219 .025042 .515 .260 .020040 .523 .273 .005010 .530 .277 .005010 .501 .001 .001 .0020 .503 .280 .075100 .509 .285 .010020 .515 .308 .008015 .523 .396 .015030 .530 .312 .005010 .501 .130 .030050 .503 .315 .005010 .509 .286 .010020 .515 .310 .008015 .523 .400 .032050 .530 .314 .015070 .501 .130 .030050 .503 .318 .050010 .509 .288 .050070 .515 .316 .008015 .523 .400 .032050 .530 .316 .025040 .501 .131 .025040 .503 .318 .050070 .510 .503 .015 .025 .515 .316 .008015 .523 .428 .015030 .320 .025040 .501 .131 .025040 .503 .318 .050070 .510 .510 .515 .025 .515 .318 .005010 .523 .428 .015030 .320 .025040 .501 .130 .005020 .503 .318 .050070 .510 .509 .298 .050070 .515 .316 .008015 .523 .428 .015030 .320 .025040 .501 .131 .025040 .503 .318 .050070 .510 .510 .510 .510 .510 .510 .510 .51																		
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.500 .412 .005010 .503 .131 .005120 .508 .405 .030050 .515 .206 .080104 .522 .413 .030050 .530 .255 .015030 .500 .415 .012016 .503 .142 .030060 .508 .430 .030040 .515 .218 .005010 .522 .435 .015030 .530 .270 .100125 .500 .441 .010020 .503 .153 .040050 .509 .031 .030050 .515 .227 .030050 .522 .437 .005010 .530 .272 .100125 .500 .446 .005010 .503 .157 .050062 .509 .064 .030050 .515 .228 .005010 .523 .118 .025040 .530 .273 .100125 .500 .450 .005010 .503 .255 .015030 .005 .515 .228 .005010 .503 .159 .005010 .509 .080 .030050 .515 .228 .005010 .523 .125 .070090 .530 .277 .005010 .501 .0061 .005020 .503 .280 .075100 .509 .285 .010020 .515 .280 .008015 .523 .396 .015030 .530 .281 .040050 .501 .099 .050075 .503 .281 .010020 .509 .286 .010020 .515 .310 .008015 .523 .402 .005010 .530 .316 .005010 .509 .298 .050070 .515 .316 .008015 .523 .402 .005010 .530 .314 .015070 .501 .131 .025040 .503 .316 .005010 .509 .298 .050070 .515 .315 .008015 .523 .406 .032050 .530 .315 .010020 .501 .131 .025040 .503 .316 .005010 .509 .430 .020035 .515 .316 .008015 .523 .428 .015030 .530 .315 .010020 .501 .131 .025040 .503 .316 .005010 .509 .430 .020035 .515 .316 .008015 .523 .428 .015030 .530 .320 .025040 .501 .136 .005020 .503 .318 .050070 .510 .053 .015025 .515 .318 .005010 .523 .428 .015030 .530 .320 .025040 .501 .139 .075105 .503 .363 .005010 .510 .510 .510 .053 .015025 .515 .318 .005010 .523 .428 .015030 .530 .320 .025040 .501 .139 .075105 .503 .363 .005010 .510 .510 .510 .053 .015025 .515 .318 .005010 .523 .428 .015030 .530 .320 .025040 .501 .139 .075105 .503 .363 .005010 .510 .510 .510 .053 .015025 .515 .310 .005010 .523 .428 .015030 .530 .320 .025040 .501 .510 .005 .005 .501 .510																		
.500 .415 .012016 .503 .142 .030060 .508 .430 .030040 .515 .218 .005010 .522 .435 .015030 .530 .270 .100125 .500 .441 .010020 .503 .153 .040050 .509 .031 .030050 .515 .227 .030050 .522 .437 .005010 .530 .272 .100125 .500 .446 .005010 .503 .157 .050062 .509 .064 .030050 .515 .228 .005010 .523 .118 .025040 .530 .273 .100125 .500 .450 .005010 .503 .159 .005010 .509 .080 .030050 .515 .228 .005010 .523 .118 .025040 .530 .277 .005010 .500 .452 .010020 .503 .205 .030040 .509 .219 .025042 .515 .260 .020040 .523 .273 .005010 .530 .281 .040050 .501 .061 .005020 .503 .280 .075100 .509 .285 .010020 .515 .310 .008015 .523 .396 .015030 .314 .015070 .501 .130 .030050 .503 .315 .005010 .509 .286 .010020 .515 .310 .008015 .523 .402 .005010 .530 .314 .015070 .501 .131 .025040 .503 .316 .005010 .509 .298 .050070 .515 .316 .008015 .523 .406 .032050 .530 .316 .025040 .501 .131 .025040 .503 .316 .005010 .509 .430 .020035 .515 .316 .008015 .523 .428 .015030 .530 .316 .025040 .501 .136 .005020 .503 .318 .050070 .510 .053 .015025 .515 .318 .005010 .523 .428 .015030 .530 .320 .025040 .501 .139 .075105 .503 .318 .050070 .510 .510 .053 .015025 .515 .318 .005010 .523 .428 .015030 .530 .320 .025040 .501 .139 .075105 .503 .363 .005010 .510 .510 .156 .025042 .515 .322 .015025 .524 .286 .030048 .530 .321 .010020 .501 .501 .005 .005 .503 .363 .005010 .510 .510 .510 .055 .042 .515 .322 .015025 .524 .286 .030048 .530 .321 .010020 .501 .501 .005 .005 .503 .363 .005010 .510 .510 .510 .510 .055 .042 .515 .322 .015025 .524 .286 .030048 .530 .321 .010020 .501 .501 .005 .005 .503 .363 .005010 .510 .510 .510 .510 .510 .055 .042 .515 .322 .015025 .524 .286 .030048 .530 .321 .010020 .501 .501 .501 .501 .501 .501 .501 .50																		
.500 .441 .010020 .503 .153 .040050 .509 .031 .030050 .515 .227 .030050 .522 .437 .005010 .530 .272 .100125 .500 .446 .005010 .503 .157 .050062 .509 .064 .030050 .515 .228 .005010 .523 .118 .025040 .530 .273 .100125 .500 .450 .005010 .503 .159 .005010 .509 .080 .030050 .515 .228 .005010 .523 .118 .025040 .530 .277 .005010 .500 .452 .010020 .503 .205 .030040 .509 .219 .025042 .515 .260 .020040 .523 .273 .005010 .530 .281 .040050 .501 .061 .005020 .503 .280 .075100 .509 .286 .010020 .515 .308 .008015 .523 .396 .015030 .530 .312 .005010 .501 .130 .030050 .503 .315 .005010 .509 .298 .050070 .515 .315 .008015 .523 .402 .005010 .530 .314 .015070 .501 .131 .025040 .503 .316 .005010 .509 .430 .020035 .515 .316 .008015 .523 .428 .015030 .530 .316 .025040 .501 .136 .005020 .503 .318 .050070 .510 .053 .015025 .515 .318 .005010 .523 .428 .015030 .530 .320 .025040 .501 .139 .075105 .503 .363 .005010 .510 .510 .156 .025042 .515 .322 .015025 .524 .286 .030048 .530 .321 .010020 .501 .319 .075105 .503 .363 .005010 .510 .510 .510 .053 .015025 .515 .322 .015025 .524 .286 .030048 .530 .321 .010020 .501 .501 .139 .075105 .503 .363 .005010 .510 .510 .510 .050 .025 .042 .515 .322 .015025 .524 .286 .030048 .530 .321 .010020 .501 .501 .139 .075105 .503 .363 .005010 .510 .510 .510 .050 .025 .042 .515 .322 .015025 .524 .286 .030048 .530 .321 .010020 .501 .501 .005 .005 .501 .501 .501 .50																		
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.500 .450 .005010 .503 .159 .005010 .509 .080 .030050 .515 .253 .105125 .523 .252 .070090 .530 .277 .005010 .500 .452 .010020 .503 .205 .030040 .509 .219 .025042 .515 .260 .020040 .523 .273 .005010 .530 .281 .040050 .501 .061 .005020 .503 .280 .075100 .509 .285 .010020 .515 .308 .008015 .523 .273 .005010 .530 .312 .005010 .501 .999 .050075 .503 .281 .010020 .509 .286 .010020 .515 .310 .008015 .523 .396 .015030 .530 .312 .005010 .501 .130 .030050 .503 .315 .005010 .509 .298 .050070 .515 .315 .008015 .523 .402 .005010 .530 .314 .015070 .501 .131 .025040 .503 .316 .005010 .509 .430 .020035 .515 .316 .008015 .523 .411 .040060 .530 .316 .025040 .501 .136 .005020 .503 .318 .050070 .510 .053 .015025 .515 .318 .005010 .523 .428 .015030 .530 .320 .025040 .501 .139 .075105 .503 .363 .005010 .510 .510 .156 .025042 .515 .322 .015025 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .530 .530 .321 .030 .530 .321 .030 .030 .030 .030 .030 .030 .030 .03																		
.500 .452 .010020 .503 .205 .030040 .509 .219 .025042 .515 .260 .020040 .523 .273 .005010 .530 .281 .040050 .501 .061 .005020 .503 .280 .075100 .509 .285 .010020 .515 .308 .008015 .523 .396 .015030 .530 .312 .005010 .501 .099 .050075 .503 .281 .010020 .509 .286 .010020 .515 .310 .008015 .523 .402 .005010 .530 .312 .005010 .501 .130 .030050 .503 .315 .005010 .509 .298 .050070 .515 .315 .008015 .523 .402 .005010 .530 .314 .015070 .501 .131 .025040 .503 .316 .005010 .509 .430 .020035 .515 .316 .008015 .523 .406 .032050 .530 .315 .010020 .501 .136 .005020 .503 .318 .050070 .510 .053 .015025 .515 .318 .005010 .523 .428 .015030 .530 .320 .025040 .501 .139 .075105 .503 .363 .005010 .510 .510 .156 .025042 .515 .322 .015025 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .520 .524 .286 .030048 .530 .321 .010020 .530 .530 .320 .025 .040 .530 .530 .320 .025 .040 .530 .530 .320 .025 .040 .530 .530 .320 .025 .040 .530 .530 .320 .025 .040 .530 .530 .320 .025 .040 .530 .530 .320 .025 .040 .530 .530 .320 .025 .040 .530 .530 .320 .025 .040 .530 .530 .320 .025 .040 .530 .530 .320 .025 .040 .530 .320																		
.501 .061 .005020 .503 .280 .075100 .509 .285 .010020 .515 .308 .008015 .523 .396 .015030 .530 .312 .005010 .501 .099 .050075 .503 .281 .010020 .509 .286 .010020 .515 .310 .008015 .523 .402 .005010 .530 .314 .015070 .501 .130 .030050 .503 .315 .005010 .509 .298 .050070 .515 .315 .008015 .523 .402 .005010 .530 .314 .015070 .501 .131 .025040 .503 .316 .005010 .509 .430 .020035 .515 .316 .008015 .523 .406 .032050 .530 .315 .010020 .501 .136 .005020 .503 .318 .050070 .510 .053 .015025 .515 .318 .005010 .523 .428 .015030 .530 .320 .025040 .501 .139 .075105 .503 .363 .005010 .510 .156 .025042 .515 .322 .015025 .524 .286 .030048 .530 .321 .010020																		
.501 .099 .050075 .503 .281 .010020 .509 .286 .010020 .515 .310 .008015 .523 .402 .005010 .530 .314 .015070 .501 .130 .030050 .503 .315 .005010 .509 .298 .050070 .515 .315 .008015 .523 .406 .032050 .530 .315 .010020 .501 .131 .025040 .503 .316 .005010 .509 .430 .020035 .515 .316 .008015 .523 .411 .040060 .530 .316 .025040 .501 .136 .005020 .503 .318 .050070 .510 .053 .015025 .515 .318 .005010 .523 .428 .015030 .530 .320 .025040 .501 .139 .075105 .503 .363 .005010 .510 .510 .156 .025042 .515 .322 .015025 .524 .286 .030048 .530 .321 .010020																		
.501 .130 .030050 .503 .315 .005010 .509 .298 .050070 .515 .315 .008015 .523 .406 .032050 .530 .315 .010020 .501 .131 .025040 .503 .316 .005010 .509 .430 .020035 .515 .316 .008015 .523 .411 .040060 .530 .316 .025040 .501 .136 .005020 .503 .318 .050070 .510 .053 .015025 .515 .318 .005010 .523 .428 .015030 .530 .320 .025040 .501 .139 .075105 .503 .363 .005010 .510 .510 .156 .025042 .515 .322 .015025 .524 .286 .030048 .530 .321 .010020																		
.501 .131 .025040 .503 .316 .005010 .509 .430 .020035 .515 .316 .008015 .523 .411 .040060 .530 .316 .025040 .501 .136 .005020 .503 .318 .050070 .510 .053 .015025 .515 .318 .005010 .523 .428 .015030 .530 .320 .025040 .501 .139 .075105 .503 .363 .005010 .510 .156 .025042 .515 .322 .015025 .524 .286 .030048 .530 .321 .010020																		
.501 .136 .005020 .503 .318 .050070 .510 .053 .015025 .515 .318 .005010 .523 .428 .015030 .530 .320 .025040 .501 .139 .075105 .503 .363 .005010 .510 .156 .025042 .515 .322 .015025 .524 .286 .030048 .530 .321 .010020																		
.501 .139 .075105 .503 .363 .005010 .510 .156 .025042 .515 .322 .015025 .524 .286 .030048 .530 .321 .010020																		
*With BOKEP'S precision washers, you can choose the exact thickness you want from the tool range listed																		
*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.	.501	.139	.075105	.503	.363	.005010	.510	.156	.025042	.515	.322	.015025	.524	.286	.030048	.530	.321	.010020
*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed.																		
				*With E	30KER'	S precision	washers	, you ca	n choose th	e exact	thickne	ss you want	from the	e tool ra	inge listed.			

(21)

		110 1002mtd 01//titd2	TOTT ALL OF THE OFFICE PROPERTY.	
.D. I.D. Choose Any Thickness*		Choose Any Choose Any Choose Any Chickness* O.D. I.D. Thickness* O.D.	Choose Any I.D. Thickness* O.D. I.D. Thickness*	Choose Any
From To	From To Fr	From To From To	From To From To	From To From To From To From To From To
30 .344 .060083	.535 .378 .012025 .543 .316 .0	020040 .550 .240 .010020 .552	.212 .060080 .558 .360 .005012	.560 .426 .020040 .562 .326 .005030 .564 .507 .005010 .570 .325 .020040 .579 .174 .020040 .587 .195 .032050
30 .375 .005010	.535 .379 .010020 .543 .333 .0	005010 .550 .245 .020040 .552	.220 .005010 .558 .361 .036060	.560 .459 .005010 .562 .328 .020 .040 .562 .015 .562 .328 .050070 .565 .066 .005010 .570 .369 .005010 .579 .188 .020040 .587 .231 .005010
30 .377 .005010	.535 .384 .010020 .543 .346 .0	030050 .550 .250 .040100 .552	.237 .005020 .558 .414 .030050	.560 .485 .020050 .562 .329 .025040 .565 .093 .080090 .570 .377 .005010 .579 .265 .050075 .587 .231 .015025
30 .385 .050060	.535 .445 .005010 .543 .377 .0	015025	.238 .005010 .558 .486 .005030	.560 .500 .020 .030 .562 .331 .080070 .565 .120 .015 .030 .570 .380 .010020 .579 .318 .060 .070 .587 .345 .030050
30 .388 .010020	.536 .105 .030050 .543 .433 .0	005010 .550 .258 .025040 .552	.240 .010020 .559 .032 .020030	.561 .105 .015030 .562 .332 .020040 .565 .174 .025040 .570 .433 .010020 .579 .342 .090104 .587 .373 .005010
30 .393 .005010	.536 .191 .075090 .543 .441 .0	005010 .550 .259 .005030 .552	.276 .030040 .559 .060 .015025	.561 .127 .020040 .562 .343 .005050 .565 .186 .010015 .570 .445 .025040 .579 .374 .020030 .587 .400 .050070
30 .397 .025035		005010 .550 .271 .005010 .552	.286 .010020 .559 .128 .005010	.561 .161 .005010 .562 .344 .060080 .565 .236 .083105 .570 .461 .030050 .579 .378 .020030 .587 .411 .040060
30 .403 .005010		020040	.305 .025060 .559 .135 .005010	.561 .166 .060083 .562 .370 .020040 .565 .240 .050080 .570 .515 .005010 .579 .400 .050070 .587 .437 .010020
30 .417 .005010		010020	.319 .005010 .559 .145 .015030	.561 .173 .005010 .562 .374 .005010 .565 .280 .105125 .571 .206 .105125 .579 .407 .005010 .587 .461 .005010
30 .450 .015030				
			1021 1000 1010	
30 .468 .005030		030040	.387 .040060 .559 .216 .020040	.561 .175 .015030 .562 .376 .005062 .565 .315 .005015 .571 .257 .070090 .579 .502 .005010 .588 .250 .005010
30 .490 .005010		005010 .550 .316 .005030 .552	.395 .005015 .559 .225 .005010	.561 .189 .015025 .562 .381 .040060 .565 .316 .060080 .571 .283 .070090 .580 .096 .025040 .588 .260 .040080
31 .143 .015050		020040	.396 .050075 .559 .259 .010040	.561 .190 .005060 .562 .382 .040060 .565 .353 .050072 .571 .319 .050070 .580 .196 .005010 .588 .282 .030040
31 .158 .032048		005010 .550 .319 .005010 .552	.397 .005010 .559 .285 .005010	.561 .192 .020040 .562 .383 .030050 .565 .396 .005010 .571 .373 .020035 .580 .197 .090120 .588 .300 .005020
31 .180 .050075		005010 .550 .322 .030050 .552	.398 .005010 .559 .311 .005010	.561 .200 .080105 .562 .385 .015070 .565 .453 .025035 .572 .256 .005008 .580 .213 .050075 .588 .386 .010020
31 .191 .012020	.537 .375 .005010 .544 .449 .0	015030 .550 .323 .008020 .552	.400 .025040 .559 .322 .080104	.561 .202 .030060 .562 .386 .020040 .566 .151 .040060 .572 .470 .030040 .580 .218 .093125 .588 .406 .040060
31 .200 .015030	.537 .394 .010020 .544 .463 .0	005010 .550 .332 .005010 .552	.401 .010015 .559 .347 .025042	.561 .208 .030050 .562 .387 .040060 .566 .201 .005010 .573 .129 .050070 .580 .250 .030040 .508 .417 .040060
31 .202 .015030	.537 .409 .025040 .544 .502 .0	010020 .550 .344 .060083 .552	.425 .040050 .559 .349 .075090	.561 .255 .020040 .562 .388 .005015 .566 .203 .005010 .573 .130 .050070 .580 .251 .050070 .589 .178 .060080
31 .206 .005030	.538 .210 .030060 .545 .100 .0	042060 .550 .351 .005010 .552	.434 .015030 .559 .379 .030050	.561 .290 .005 .070 .589 .391 .075 .090 .566 .266 .006 .007 .010 .573 .205 .050 .070 .070 .580 .391 .075 .090 .566 .266 .026 .006 .007 .000 .573 .205 .050 .070 .000
31 .213 .005010	.538 .219 .005010 .545 .187 .0	005012 .550 .357 .040062 .552	.438 .005010 .559 .388 .060080	.561 .298 .060083 .562 .392 .005010 .566 .270 .005010 .573 .266 .025 .040 .580 .580 .567 .020 .070 .580
31 .230 .105125	.538 .257 .015030 .545 .244 .0	005060 .550 .375 .005020 .552	.478 .005010 .559 .391 .030050	.561 .310 .040060 .562 .396 .025040 .566 .299 .050075 .573 .384 .020040 .580 .258 .080104 .589 .314 .005015
31 .254 .060083	.538 .309 .010020 .545 .260 .0	050070 .550 .380 .005020 .553	.176 .010020 .559 .454 .020040	.561 .314 .036060 .582 .420 .020070 .566 .321 .005010 .573 .394 .040060 .580 .283 .005010 .589 .341 .040062
31 .257 .010060		005010 .550 .381 .040060 .553	.212 .060080 .559 .471 .005030	.561 .320 .090110 .562 .437 .015075 .566 .322 .005010 .573 .395 .025045 .580 .324 .025035 .589 .348 .040060
31 .264 .030050		015050 .550 .390 .070090 .553	.229 .005010 .559 .480 .005010	.561 .331 .100115 .562 .439 .010025 .566 .328 .010015 .573 .402 .050060 .580 .330 .080104 .589 .376 .015030
31 .271 .025035		042062	.237 .005010 .559 .507 .005010	.561 .359 .005010 .562 .440 .020040 .566 .330 .040060 .573 .474 .030050 .580 .346 .042062 .589 .410 .062078
31 .295 .015030		040060	.242 .040060 .560 .113 .015030	.561 .360 .015025 .562 .500 .005010 .566 .334 .005060 .573 .525 .015025 .580 .377 .090105 .589 .444 .040060
31 .317 .010060		040062		
			1020 1000 1010	101 1100 1010 1010 1010
		005010		
31 .335 .090120		010020	.154 .015030 .560 .128 .015030	.561 .381 .075093 .563 .116 .060080 .566 .446 .040060 .574 .297 .090105 .580 .390 .005010 .590 .066 .005010
31 .346 .042062		020030	.240 .005010 .560 .131 .060083	.561 .397 .020032 .563 .145 .005010 .566 .447 .040060 .574 .298 .005010 .580 .398 .005010 .590 .115 .032082
31 .348 .050072		005010 .550 .421 .020040 .554	.249 .030050 .560 .135 .050070	.561 .407 .005010 .563 .176 .025040 .566 .448 .010020 .574 .300 .032062 .580 .416 .042062 .590 .118 .015030
31 .350 .040062		005010 .550 .427 .025042 .554	.258 .025035 .560 .149 .005020	.561 .421 .005010 .563 .186 .105010 .563 .186 .106125 .566 .450 .015030 .574 .397 .005010 .580 .417 .005010 .590 .145 .005010
31 .386 .010020		005010 .550 .429 .035050 .554	.318 .090110 .560 .161 .040062	.561 .435 .010020 .563 .191 .020030 .566 .505 .015025 .574 .406 .020030 .580 .431 .005010 .590 .147 .005020
31 .406 .050060	.539 .380 .025042 .546 .259 .0	005010 .550 .479 .005010 .554	.330 .005010 .560 .172 .005010	.561 .440 .035060 .563 .194 .100125 .566 .507 .001 .574 .482 .070090 .580 .432 .010032 .590 .199 .060080
31 .438 .005010	.539 .399 .005030 .546 .271 .0	010020 .550 .487 .010020 .554	.370 .005020 .560 .180 .005015	.561 .459 .010020 .563 .197 .030050 .567 .190 .010020 .575 .151 .040062 .580 .444 .025040 .590 .201 .005010
31 .463 .015030	.539 .420 .005010 .546 .305 .0	005010 .550 .498 .005010 .554	.379 .010020 .560 .190 .030050	.562 .090 .005 .010 .563 .218 .090 .202 .030 .090 .005 .100 .560 .000 .000 .000 .000 .000 .000 .0
32 .073 .010020	.539 .425 .005010 .546 .375 .0	030050 .551 .081 .005010 .554	.405 .030048 .560 .192 .008016	.562 . 130 . 002 . 030 . 003 . 005 . 010 . 583 . 247 . 020 . 030 . 567 . 234 . 010 020 . 575 . 186 . 070 090 . 580 . 481 . 010 030 . 590 . 209 . 125 . 156
32 .166 .100125	.539 .469 .007015 .546 .378 .0	015030 .551 .095 .012020 .554	.440 .020040 .560 .194 .032048	.562 .134 .030050 .563 .253 .005015 .567 .260 .040060 .575 .189 .080100 .580 .516 .020030 .590 .237 .005010
32 .201 .005010	.540 .162 .032062 .546 .410 .0	020030 .551 .141 .005010 .554	.468 .010025 .560 .196 .015025	.562 .146 .032050 .563 .259 .030050 .567 .263 .030050 .575 .199 .060080 .581 .197 .090125 .590 .238 .005010
32 .207 .062090	.540 .186 .060070 .546 .435 .0	020040 .551 .161 .005010 .555	.125 .030050 .560 .200 .005010	.562 .148 .040060 .563 .277 .020040 .567 .301 .040060 .575 .200 .025042 .581 .223 .050070 .590 .250 .070090
32 .250 .005015	.540 .220 .020040 .547 .144 .0	005010 .551 .166 .030105 .555	.131 .060080 .560 .202 .032050	.562 .152 .035050 .563 .285 .100125 .567 .336 .090104 .575 .251 .010020 .581 .437 .030050 .590 .290 .040060
32 .329 .040075		010015 .551 .172 .080100 .555	.154 .020040 .560 .203 .012020	.562 .158 .036075 .563 .313 .005042 .567 .379 .015025 .575 .258 .005030 .582 .063 .020040 .590 .292 .010020
32 .381 .030050		005010 .551 .201 .005010 .555	.173 .105135 .560 .206 .005010	.562 .165 .008015 .563 .317 .010040 .567 .408 .040060 .575 .260 .075090 .582 .180 .030050 .590 .295 .005010
32 .451 .005010		005010 .551 .220 .015025 .555	.250 .010020 .560 .207 .030050	.562 .166 .050070 .563 .318 .005010 .567 .409 .030050 .575 .287 .005010 .582 .286 .020040 .590 .314 .060080
32 .468 .020040		005010 .551 .225 .070090 .555	.253 .080104 .560 .225 .006010	.562 .169 .005010 .563 .320 .015030 .567 .417 .050060 .575 .312 .100125 .582 .400 .015030 .590 .316 .005010
32 .490 .012020		060070	.265 .020040 .560 .226 .015025	.562 .191 .040060 .563 .321 .072090 .567 .504 .020030 .575 .320 .020040 .583 .259 .005010 .590 .317 .040090
33 .067 .010020				
33 .201 .010020				
33 .236 .005010		005010	12.2 12.2	
		050070		
		030050		
		005010 .551 .264 .070090 .555	.000 .000	100 100 100 100 100 100 100 100 100 100
33 .274 .005010		005020	.360 .050070 .560 .262 .005010	.562 .205 .020040 .563 .379 .015060 .568 .305 .005010 .575 .399 .060090 .584 .350 .005010 .590 .334 .005010
33 .367 .070090	10.10	040060	.438 .005010 .560 .263 .010050	.562 .207 .005010 .563 .380 .015090 .568 .312 .050062 .575 .412 .010020 .584 .358 .005010 .590 .339 .035060
33 .389 .020030		050070 .551 .294 .012025 .555	.440 .005010 .560 .273 .010020	.562 .218 .048072 .563 .381 .010020 .568 .317 .005010 .575 .430 .010020 .584 .431 .005010 .590 .340 .010050
33 .411 .010025		015030 .551 .300 .020040 .555	.443 .015030 .560 .280 .040060	.562 .222 .010070 .563 .385 .020030 .568 .360 .005010 .575 .440 .040060 .584 .446 .030050 .590 .344 .032050
34 .039 .015030		005016 .551 .315 .005010 .555	.445 .005010 .560 .286 .005010	.562 .233 .005015 .563 .387 .020050 .568 .378 .010030 .575 .446 .010030 .585 .104 .025040 .590 .345 .040060
34 .131 .030050	10.10	060080 .551 .316 .005050 .555	.475 .030045 .560 .295 .005010	.562 .240 .050070 .563 .398 .030050 .568 .413 .015025 .575 .464 .020040 .585 .183 .015030 .590 .355 .005010
34 .186 .070090		025040 .551 .317 .005010 .556	.120 .030050 .560 .311 .005010	.562 .241 .015030 .563 .405 .030080 .568 .414 .020040 .575 .485 .005040 .585 .257 .020040 .590 .376 .020032
34 .193 .015030		005010 .551 .318 .050070 .556	.123 .030060 .560 .313 .062120	.562 .251 .110130 .563 .408 .020030 .568 .440 .030040 .576 .147 .090104 .585 .264 .025040 .590 .378 .005010
34 .207 .030050		050070	.136 .030050 .560 .316 .005010	.562 .253 .005010 .563 .439 .005015 .569 .205 .050070 .576 .218 .030040 .585 .290 .090105 .590 .379 .025040
34 .220 .005010		030050 .551 .321 .005010 .556	.172 .040060 .560 .317 .040060	.562 .257 .062050563 .450 .005010 .569 .207 .025040 .576 .500 .020030 .585 .327 .050070 .590 .386 .005010
34 .284 .060083	.541 .300 .010020 .548 .453 .0	025040 .551 .322 .005010 .556	.197 .030050 .560 .320 .020040	.562 .261 .030050 .563 .467 .025042 .569 .243 .010015 .577 .096 .012025 .585 .328 .070090 .590 .390 .032062
34 .361 .062080	.541 .306 .010020 .549 .099 .0	005010 .551 .330 .050070 .556	.200 .005010 .560 .326 .005010	.562 .263 .005030 .564 .118 .005010 .569 .257 .010 .577 .199 .060090 .585 .364 .060080 .590 .396 .005012
34 .394 .030050	.541 .314 .050060 .549 .216 .0	005010 .551 .357 .015030 .556	.263 .005010 .560 .331 .005015	.562 .264 .015030 .564 .195 .090105 .569 .324 .015070 .577 .253 .050070 .585 .366 .040050 .590 .397 .005050
34 .441 .030042	.541 .319 .030050 .549 .316 .0	005010 .551 .377 .010020 .556	.281 .075104 .560 .336 .005010	.562 .265 .050 .090 .564 .208 .040050 .569 .447 .020 .040050 .577 .290 .050070 .585 .372 .025 .040 .590 .401 .005010
35 .064 .012020		005010 .551 .378 .010100 .556	.317 .040060 .560 .343 .040060	.562 .266 .100125 .564 .214 .030050 .569 .470 .015025 .577 .325 .042062 .585 .377 .005010 .590 .410 .040060
35 .228 .075104		025040 .551 .385 .005010 .556	.327 .010020 .560 .345 .090110	.562 .269 .030050 .564 .252 .075090 .569 .472 .012020 .577 .328 .090120 .585 .380 .005010 .590 .426 .070080
35 .238 .010020		030060	.383 .040060 .560 .370 .005010	.562 .275 .050075 .564 .253 .040060 .569 .474 .005010 .577 .353 .025040 .585 .390 .020040 .590 .430 .005060
35 .239 .005010		010020 .551 .394 .005040 .556	.441 .005010 .560 .375 .050070	.562 .281 .032050 .564 .256 .020040 .569 .481 .030050 .577 .376 .010025 .585 .397 .005010 .590 .439 .005010
35 .244 .015030		005010 .551 .395 .050070 .557	.242 .010020 .560 .377 .005015	.562 .282 .080100 .564 .283 .005020 .570 .170 .080090 .578 .173 .025042 .585 .405 .050070 .590 .471 .015025
35 .298 .010020		010020 .551 .399 .010040 .557	.262 .010020 .560 .379 .020040	.562 .289 .050070 .564 .286 .015030 .570 .193 .015030 .578 .203 .005060 .586 .132 .010020 .590 .480 .005020
35 .310 .025042		042060 .551 .418 .036060 .557	.317 .020060 .560 .380 .005010	.562 .290 .025040 .564 .311 .025040 .570 .206 .105125 .578 .239 .080090 .586 .327 .015030 .590 .498 .025040
35 .314 .005010		005060 .551 .443 .010025 .557	.380 .040060 .560 .381 .015060	.562 .297 .010020 .564 .337 .010020 .570 .232 .025042 .578 .257 .050075 .586 .415 .005010 .590 .523 .005008
35 .318 .005010		020040	.387 .025040 .560 .384 .005010	.562 .304 .020030 .564 .352 .005010 .570 .233 .050075 .578 .266 .020060 .586 .433 .040060 .591 .079 .020030
35 .320 .016025		005010 .551 .472 .005030 .557	.396 .050070 .560 .390 .030060	.562 .309 .005010 .564 .384 .005010 .570 .236 .025042 .578 .355 .005010 .586 .447 .005010 .591 .115 .020040
35 .325 .010020		000100	.421 .010020 .560 .392 .035060	.562 .313 .010020 .564 .386 .030048 .570 .277 .005010 .578 .400 .005010 .586 .477 .005010 .591 .161 .050070
35 .335 .005010		090100	.446 .020040 .560 .401 .005010	.562 .314 .080104 .564 .392 .050072 .570 .278 .030050 .578 .407 .050070 .586 .484 .005010 .591 .101 .000010
35 .338 .025040		015030	.288 .005010 .560 .410 .005010	.562 .315 .020070 .564 .445 .005010 .570 .282 .025042 .578 .468 .010020 .586 .500 .030040 .591 .216 .050070
35 .343 .008015		005060	.327 .050070 .560 .420 .005010	.562 .318 .005075 .564 .500 .020040 .570 .316 .010020 .578 .526 .010020 .586 .525 .005010 .591 .217 .015025
35 .357 .005010			.331 .020050 .560 .421 .030050	.562 .320 .005060 .564 .504 .005010 .570 .318 .015030 .579 .138 .031042 .586 .544 .010020 .591 .240 .075090
		1.1.1.000 1.000 1.000	1.12. 1.2. 1.000	100 100 100 100 100 100 100 100 100 100

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED	BOKER'S METAL WASHERS ARE FLAT AND TOMBLE DEBURRED
Choose Any Choose Any Choose Any Choose Any Choose Any Choose Any O.D. I.D. Thickness* O.D. I.D. Thickness* O.D. I.D. Thickness* O.D. I.D. Thickness*	Choose Any O.D. I.D. Thickness*
From To From To From To From To From To	From To From To From To From To
.591 .277 .005010 .596 .129 .025040 .600 .270 .005010 .606 .380 .040060 .612 .194 .100125 .616 .328 .025040	620 .254 .010020 .622 .191 .005010 .623 .465 .012020 .625 .188 .005010 .625 .380 .025060 .626 .478 .005010
.591 .289 .080105 .596 .207 .050070 .600 .282 .005010 .606 .389 .050075 .612 .198 .008020 .616 .377 .050090 .591 .296 .050070 .596 .401 .020040 .600 .285 .005010 .606 .400 .020030 .612 .214 .030050 .616 .384 .005010	.620 .255 .015020 .622 .196 .030048 .623 .474 .008016 .625 .189 .005060 .625 .381 .100125 .626 .495 .040060 .620 .257 .040060 .622 .205 .030050 .623 .492 .005010 .625 .190 .060090 .625 .382 .030120 .626 .499 .010020
.591 .316 .010020 .596 .409 .010020 .600 .296 .015105 .606 .462 .020040 .612 .433 .040060 .516 .386 .062083	.620 .260 .005010 .622 .206 .030060 .623 .500 .005012 .625 .191 .025042 .625 .385 .005010 .626 .501 .010020
.591 .318 .010020 .596 .443 .050075 .600 .300 .005010 .606 .480 .040060 .612 .440 .042062 .616 .410 .005010	.620 .268 .005010 .622 .214 .015030 .623 .501 .010020 .625 .192 .050070 .625 .386 .032048 .626 .504 .010020
.591 .321 .015030 .596 .485 .005040 .600 .322 .030080 .606 .505 .015030 .612 .444 .010030 .616 .412 .020040	.620 .279 .005010 .622 .220 .010020 .623 .504 .050062 .625 .193 .100125 .625 .390 .015062 .626 .505 .005010
.591 .324 .040060 .596 .503 .020040 .600 .330 .080090 .607 .247 .020040 .612 .467 .005010 .616 .456 .045 .005	.620 .281 .040060 .622 .230 .060090 .623 .505 .005010 .625 .195 .090125 .625 .392 .020042 .626 .507 .005030
.591 .326 .005010 .596 .510 .025040 .600 .346 .005010 .607 .251 .030050 .612 .510 .040050 .616 .478 .030040	.620 .320 .105125 .622 .250 .005015 .623 .515 .005010 .625 .196 .020040 .625 .393 .010020 .626 .510 .010025
.591 .435 .050070 .597 .130 .005015 .600 .361 .015030 .607 .333 .005010 .612 .520 .005010 .616 .480 .040060	.620 .322 .040060 .622 .251 .005010 .623 .531 .010020 .625 .200 .030040 .625 .394 .020040 .626 .528 .025040
.591 .440 .040050 .597 .251 .062078 .600 .370 .040060 .607 .388 .080105 .613 .040 .020030 .616 .505 .005010 .591 .511 .010020 .597 .305 .025040 .600 .380 .015090 .607 .461 .005010 .613 .278 .050070 .616 .524 .030040	.620 .334 .050070 .622 .258 .025040 .623 .532 .005010 .625 .201 .005010 .625 .396 .020030 .626 .564 .005010 .620 .346 .016025 .622 .261 .036050 .624 .087 .010020 .625 .202 .050075 .625 .397 .090120 .626 .566 .010020
.592 .147 .005010 .597 .388 .005015 .600 .383 .010020 .607 .531 .005010 .613 .331 .050070 .617 .310 .005010	.620 .348 .050070 .622 .284 .010042 .624 .094 .070090 .625 .205 .050090 .625 .398 .005010 .020 .025 .035
.592 .221 .005010 .597 .406 .025040 .600 .386 .010020 .608 .204 .010020 .613 .350 .050070 .617 .318 .015025	.620 .350 .025062 .622 .300 .020040 .624 .108 .005010 .625 .207 .005015 .625 .399 .050075 .627 .058 .020032
.592 .236 .005010 .597 .452 .016040 .600 .401 .010020 .608 .249 .030050 .613 .377 .015030 .617 .351 .005010	.620 .370 .015025 .622 .302 .050070 .624 .109 .005010 .625 .208 .005010 .625 .400 .025040 .627 .125 .020040
.592 .258 .030050 .597 .512 .020030 .600 .406 .020030 .608 .252 .015040 .613 .391 .025040 .617 .359 .025040	.620 .378 .020035 .622 .314 .075125 .624 .128 .025040 .625 .210 .100125 .625 .401 .070090 .627 .129 .025040
.592 .315 .010015 .597 .513 .020030 .600 .408 .040060 .608 .253 .020040 .613 .402 .005010 .617 .362 .005010	.620 .380 .080100 .622 .315 .100125 .624 .156 .050070 .625 .211 .040060 .625 .402 .005015 .627 .133 .040060
.592 .317 .005010 .598 .159 .015030 .600 .413 .010020 .608 .254 .020040 .613 .451 .030050 .617 .385 .005010 .592 .322 .005010 .598 .180 .005010 .600 .421 .005010 .608 .283 .020040 .613 .472 .005010 .617 .448 .065080	.620 .381 .015025 .622 .317 .040060 .624 .168 .060080 .625 .220 .005010 .625 .406 .060075 .627 .166 .005010 .620 .384 .100125 .622 .320 .025070 .624 .173 .020050 .625 .222 .050070 .625 .415 .005012 .627 .196 .050070
.592 .322 .005010 .598 .180 .005010 .600 .421 .005010 .608 .283 .020040 .613 .472 .005010 .617 .448 .065080 .592 .330 .040062 .598 .215 .032062 .600 .434 .005010 .608 .293 .040060 .613 .521 .020042 .617 .496 .010020	.620 .384 .100125 .622 .320 .025070 .624 .173 .020050 .625 .222 .050070 .625 .415 .005012 .627 .196 .050070 .620 .390 .100125 .622 .325 .007025 .624 .177 .010020 .625 .223 .005010 .625 .425 .020035 .627 .198 .010025
.592 .332 .005010 .598 .264 .010020 .600 .440 .010020 .608 .350 .020032 .614 .065 .005010 .514 .005010	.620 .394 .010020 .622 .343 .005010 .624 .178 .015030 .625 .225 .015020 .625 .437 .040060 .627 .236 .100125
.592 .389 .005010 .598 .271 .025040 .600 .442 .030050 .608 .392 .030050 .614 .094 .040060 .617 .560 .005010	.620 .406 .005060 .622 .374 .005010 .624 .196 .032042 .625 .226 .032042 .625 .440 .005105 .627 .248 .100125
.592 .394 .040060 .598 .304 .025040 .600 .450 .040060 .608 .397 .005020 .614 .198 .050090 .618 .120 .015030	.620 .408 .030050 .622 .376 .015025 .624 .204 .005010 .625 .230 .075090 .625 .441 .005010 .627 .253 .005010
.592 .396 .040060 .598 .313 .005020 .600 .460 .030050 .608 .505 .015030 .614 .199 .060078 .618 .124 .040060	.620 .409 .030050 .622 .377 .025105 .624 .220 .005010 .625 .231 .005010 .625 .442 .005010 .627 .265 .050070
.592 .397 .020040 .598 .321 .010020 .600 .498 .005010 .608 .509 .010025 .614 .200 .060083 .618 .164 .030050	.620 .410 .080105 .622 .378 .015030 .624 .249 .050070 .625 .236 .025042 .625 .445 .060075 .627 .266 .030050
.592 .453 .020042 .598 .340 .005010 .600 .503 .005010 .608 .518 .020040 .614 .207 .020040 .618 .185 .040050 .592 .472 .040060 .598 .387 .025040 .600 .505 .020030 .609 .128 .030050 .614 .268 .005010 .618 .215 .005010	.620 .420 .020060 .622 .384 .005010 .624 .250 .050075 .625 .238 .005072 .625 .449 .070090 .627 .280 .100125 .620 .440 .025042 .622 .389 .060075 .624 .253 .100125 .625 .239 .070090 .625 .453 .020030 .627 .281 .100120
.592 .472 .040060 .598 .387 .025040 .600 .505 .020030 .609 .128 .030050 .614 .268 .005010 .618 .215 .005010 .592 .497 .005010 .598 .412 .031048 .600 .517 .005010 .609 .274 .005010 .614 .330 .015030 .618 .216 .010020	.620 .440 .025042 .622 .389 .060075 .624 .253 .100125 .625 .239 .070090 .625 .453 .020030 .627 .281 .100120 .620 .442 .032048 .622 .390 .005010 .624 .254 .005010 .625 .240 .050070 .625 .455 .020030 .627 .283 .030048
.593 .082 .032062 .598 .442 .025040 .600 .550 .005010 .609 .297 .020032 .614 .354 .050070 .618 .259 .040060	.620 .476 .005010 .622 .391 .050105 .624 .255 .040075 .625 .251 .005042 .625 .456 .030070 .627 .285 .042062
.593 .096 .005010 .598 .494 .040060 .601 .159 .080100 .609 .400 .040060 .614 .373 .050070 .618 .262 .005010	.620 .484 .020030 .622 .400 .010020 .624 .264 .050070 .625 .252 .036105 .625 .457 .010040 .627 .313 .090120
.593 .129 .005012 .598 .504 .005010 .601 .165 .005010 .609 .487 .030060 .614 .388 .015030 .618 .364 .005078	.620 .490 .020040 .622 .407 .006016 .624 .298 .050075 .625 .253 .005042 .625 .458 .010020 .627 .314 .015030
.593 .190 .032060 .598 .506 .040050 .601 .227 .005030 .609 .506 .020030 .614 .402 .010020 .618 .381 .040060	.620 .500 .005010 .622 .409 .005015 .624 .312 .005010 .625 .255 .075104 .625 .476 .040060 .627 .323 .105125
.593 .195 .015030 .598 .511 .005015 .601 .228 .005010 .609 .546 .015025 .614 .434 .030050 .618 .382 .020040 .593 .196 .015040 .598 .527 .005010 .601 .257 .030050 .609 .551 .015025 .614 .479 .005010 .618 .393 .005010	.620 .502 .005010 .622 .411 .025040 .624 .313 .025045 .625 .259 .125156 .625 .479 .010050 .627 .334 .100125 .620 .503 .005025 .622 .438 .005010 .624 .315 .100125 .625 .260 .005010 .625 .485 .005008 .627 .335 .100125
.593 .196 .015040 .598 .527 .005010 .601 .257 .030050 .609 .551 .015025 .614 .479 .005010 .618 .393 .005010 .593 .261 .005010 .599 .128 .060080 .601 .313 .020040 .610 .094 .060080 .614 .482 .008020 .618 .400 .080104	.620 .503 .005025 .622 .438 .005010 .624 .315 .100125 .625 .260 .005010 .625 .485 .005008 .627 .335 .100125 .620 .509 .010025 .622 .445 .015030 .624 .324 .030042 .625 .261 .030075 .625 .500 .032060 .627 .344 .050125
.593 .265 .025042 .599 .149 .025042 .601 .315 .040060 .610 .100 .040060 .614 .534 .005010 .618 .435 .050075	.620 .511 .010020 .622 .450 .050070 .624 .328 .050070 .625 .264 .005015 .625 .501 .020030 .627 .349 .080104
.593 .301 .050070 .599 .189 .010020 .601 .357 .060080 .610 .191 .040060 .614 .540 .005010 .618 .440 .005010	.620 .515 .005015 .622 .453 .005010 .624 .330 .060090 .625 .265 .040050 .625 .506 .030050 .627 .375 .005010
.593 .311 .020050 .599 .201 .075090 .601 .376 .005020 .610 .204 .010030 .615 .030 .005010 .618 .446 .005010	.620 .522 .015030 .622 .461 .005010 .624 .334 .030050 .625 .266 .015100 .625 .520 .040050 .627 .376 .080104
.593 .318 .005010 .599 .254 .080090 .601 .377 .010020 .610 .206 .104125 .615 .041 .015030 .618 .475 .005010 .593 .392 .075095 .599 .257 .050070 .601 .378 .005010 .610 .209 .104125 .615 .099 .020030 .618 .500 .005010	.620 .530 .005010 .622 .488 .050070 .624 .335 .010020 .625 .268 .015104 .625 .532 .020030 .627 .378 .030050 .620 .532 .005010 .622 .500 .010020 .624 .343 .105125 .625 .271 .025040 .625 .570 .015030 .627 .379 .030050
.593 .392 .075095 .599 .257 .050070 .601 .378 .005010 .610 .209 .104125 .615 .099 .020030 .618 .500 .005010 .593 .399 .010020 .599 .378 .030050 .601 .391 .025040 .610 .248 .020032 .615 .110 .020030 .618 .507 .005010	.620 .532 .005010 .622 .500 .010020 .624 .343 .105125 .625 .271 .025040 .625 .570 .015030 .627 .379 .030050 .620 .550 .005010 .622 .503 .005030 .624 .376 .080125 .625 .273 .060070 .626 .096 .015025 .627 .380 .050070
.593 .407 .100120 .599 .383 .030050 .601 .401 .040060 .610 .250 .020040 .615 .126 .020030 .618 .526 .032042	.621 .062 .030050 .622 .511 .005010 .624 .378 .005010 .625 .279 .060080 .626 .100 .015030 .627 .385 .083120
.593 .410 .005010 .599 .400 .035050 .601 .428 .010020 .610 .258 .040090 .615 .137 .025080 .618 .531 .005010	.621 .075 .005010 .622 .531 .010020 .624 .379 .080100 .625 .280 .030060 .626 .104 .005010 .627 .389 .005010
.593 .437 .005010 .599 .401 .005010 .601 .438 .005010 .610 .273 .005010 .615 .140 .015030 .618 .549 .005010	.621 .091 .005010 .622 .532 .008015 .624 .380 .105125 .625 .281 .120134 .626 .113 .030050 .627 .392 .005010
.593 .453 .005010 .599 .408 .005060 .601 .461 .005010 .610 .317 .010020 .615 .153 .020030 .618 .551 .015025	.621 .125 .050070 .622 .533 .005015 .624 .392 .030050 .625 .283 .025060 .626 .129 .005130 .627 .406 .050090
.593 .464 .015030 .599 .413 .025040 .601 .480 .005010 .610 .321 .080100 .615 .212 .020030 .618 .556 .005010 .593 .468 .020040 .599 .415 .005010 .602 .101 .080100 .610 .328 .050075 .615 .240 .005010 .618 .560 .015025	.621 .159 .030042 .622 .534 .005010 .624 .398 .020040 .625 .284 .005040 .626 .133 .030060 .627 .442 .005010 .621 .161 .090120 .622 .540 .005010 .624 .399 .030050 .625 .290 .090100 .626 .156 .020035 .627 .475 .020030
.593 .468 .020040 .599 .415 .005010 .602 .101 .080100 .610 .328 .050075 .615 .240 .005010 .618 .560 .015025 .593 .472 .005010 .599 .476 .050070 .602 .180 .050080 .610 .335 .015030 .615 .267 .040060 .619 .125 .050070	.621 .161 .090120 .622 .540 .005010 .624 .399 .030050 .625 .290 .090100 .626 .156 .020035 .627 .475 .020030 .621 .172 .005010 .623 .030 .010020 .624 .403 .030050 .625 .293 .005040 .626 .193 .020075 .627 .486 .012025
.593 .478 .005015 .599 .489 .005010 .602 .254 .005010 .610 .352 .020040 .615 .298 .020030 .619 .158 .100125	.621 .182 .105125 .623 .062 .015030 .624 .415 .025050 .625 .298 .015030 .626 .198 .025040 .627 .505 .050070
.593 .497 .005010 .600 .041 .015025 .602 .255 .040060 .610 .365 .010020 .615 .315 .010020 .619 .171 .015075	.621 .194 .005010 .623 .094 .060075 .624 .425 .035050 .625 .299 .020050 .626 .202 .005010 .627 .510 .005040
.593 .518 .020030 .600 .046 .005010 .602 .407 .025040 .610 .367 .020030 .615 .321 .050070 .619 .238 .030050	.621 .253 .062080 .623 .100 .040060 .624 .438 .030050 .625 .301 .005010 .626 .204 .030156 .627 .527 .005010
.594 .061 .015030 .600 .066 .020035 .602 .486 .040060 .610 .375 .050060 .615 .322 .020040 .619 .306 .025040 .594 .283 .005010 .600 .076 .020030 .603 .227 .030050 .610 .376 .060125 .615 .341 .050070 .619 .324 .020030	.621 .254 .010020 .623 .126 .040050 .624 .440 .010020 .625 .302 .050070 .626 .207 .050070 .627 .547 .007012 .621 .283 .015025 .623 .136 .080104 .624 .442 .006012 .625 .311 .042062 .626 .217 .100125 .628 .096 .030050
.594 .312 .010020 .600 .077 .005010 .603 .479 .040060 .610 .380 .010020 .615 .352 .005012 .619 .326 .020040	.621 .288 .050075 .623 .137 .030060 .624 .445 .050070 .625 .312 .005125 .626 .229 .005010 .628 .125 .005010
.594 .315 .005010 .600 .089 .020040 .603 .498 .010020 .610 .395 .015030 .615 .359 .005010 .619 .329 .070090	.621 .336 .050070 .623 .148 .030050 .624 .448 .005015 .625 .314 .005030 .626 .253 .060080 .628 .166 .050070
.594 .325 .005010 .600 .118 .015030 .603 .504 .010020 .610 .409 .005010 .615 .377 .070090 .619 .353 .050070	.621 .363 .050070 .623 .156 .020035 .624 .452 .031048 .625 .315 .025040 .626 .257 .015030 .628 .191 .040060
. 594 . 358 . 015 025 . 600 119 080 100 604 252 005 010 610 438 050 070 615 386 060 080 . 619 360 005 010 010	.621 .368 .030050 .623 .176 .050070 .624 .485 .040060 .625 .316 .040060 .626 .262 .100125 .628 .198 .005010
.594 .375 .070090 .600 .128 .032048 .604 .255 .005010 .610 .460 .040060 .615 .387 .005010 .619 .377 .020035 .594 .378 .005104 .600 .138 .040105 .604 .307 .005010 .610 .461 .060075 .615 .395 .020040 .619 .381 .105135	.621 .376 .010020 .623 .179 .050090 .624 .500 .005010 .625 .317 .060070 .626 .268 .020060 .628 .201 .040060 .621 .378 .010020 .623 .190 .010125 .624 .515 .020030 .625 .318 .005125 .626 .277 .020040 .628 .208 .020040
.594 .383 .015030 .600 .156 .025040 .604 .308 .010030 .610 .472 .050075 .615 .408 .090105 .619 .431 .005010	.621 .379 .025040 .623 .191 .030060 .624 .533 .005010 .625 .319 .020040 .626 .281 .005020 .628 .232 .030050
.594 .405 .005010 .600 .157 .025040 .604 .340 .040060 .610 .476 .040060 .615 .420 .010020 .619 .440 .005040	.621 .380 .090105 .623 .202 .050090 .624 .564 .005010 .625 .320 .010050 .626 .282 .020040 .628 .238 .050070
.594 .423 .025040 .600 .168 .070090 .604 .347 .031042 .610 .550 .005010 .615 .441 .005010 .619 .449 .030040	.621 .381 .005010 .623 .220 .050090 .625 .063 .005010 .625 .321 .015070 .626 .312 .035050 .628 .261 .040060
.594 .452 .040060 .600 .176 .005010 .604 .381 .025040 .611 .089 .040060 .615 .448 .030040 .619 .460 .080100	.621 .410 .005010 .623 .240 .050090 .625 .067 .008016 .625 .322 .045075 .626 .314 .005015 .628 .271 .005010
.594 .506 .015025 .600 .200 .005010 .604 .384 .015030 .611 .192 .020030 .615 .460 .020040 .619 .481 .005020 .595 .144 .008016 .600 .203 .020040 .604 .407 .005030 .611 .243 .062090 .615 .478 .030040 .619 .500 .005020	.621 .437 .025036 .623 .247 .020035 .625 .087 .005010 .625 .323 .060075 .626 .315 .040060 .628 .287 .090105 .621 .438 .032042 .623 .250 .005010 .625 .096 .005010 .625 .324 .005010 .626 .317 .010015 .628 .331 .105120
.595 .144 .008016 .600 .203 .020040 .604 .407 .005030 .611 .243 .062090 .615 .478 .030040 .619 .500 .005020 .595 .186 .070090 .600 .203 .100120 .604 .439 .030050 .611 .250 .062090 .615 .492 .020040 .619 .508 .005010	.621 .438 .032042 .623 .250 .005010 .625 .096 .005010 .625 .324 .005010 .626 .317 .010015 .628 .331 .105120 .621 .442 .005048 .623 .254 .080100 .625 .102 .020040 .625 .327 .070080 .626 .326 .020030 .628 .375 .060083
.595 .193 .075090 .600 .207 .015030 .604 .502 .010020 .611 .259 .040060 .615 .510 .025040 .619 .540 .005010	.621 .471 .008016 .623 .265 .005075 .625 .115 .005010 .625 .328 .005125 .626 .339 .100125 .628 .477 .005010
.595 .195 .010020 .600 .210 .075090 .604 .508 .015030 .611 .261 .005010 .615 .520 .025035 .619 .549 .015020	.621 .500 .015025 .623 .268 .010015 .625 .127 .010020 .625 .329 .020030 .626 .344 .025040 .628 .483 .030050
.595 .251 .010020 .600 .215 .005010 .605 .163 .015030 .611 .265 .105125 .615 .536 .010020 .620 .041 .040060	.621 .504 .020030 .623 .281 .012075 .625 .128 .030062 .625 .330 .025040 .626 .377 .005010 .628 .510 .010020
.595 .253 .020030 .600 .217 .050075 .605 .190 .020040 .611 .273 .005010 .615 .537 .020040 .620 .076 .010020	.621 .505 .005030 .623 .304 .075105 .625 .129 .020040 .625 .331 .005010 .626 .379 .005010 .628 .511 .040060
.595 .256 .015030 .600 .236 .005010 .605 .313 .015030 .611 .278 .005010 .615 .540 .010025 .620 .126 .015030 .595 .320 .010020 .600 .237 .040060 .605 .317 .075090 .611 .315 .050010 .615 .551 .030040 .620 .132 .005010	.621 .506 .040060 .623 .317 .050075 .625 .130 .012020 .625 .336 .090120 .626 .381 .005010 .628 .555 .020030 .621 .507 .015030 .623 .320 .005030 .625 .136 .080104 .625 .343 .005134 .626 .386 .005075 .629 .095 .062078
.595 .320 .010020 .600 .237 .040060 .605 .317 .075090 .611 .315 .050010 .615 .551 .030040 .620 .132 .005010 .595 .353 .025040 .600 .241 .005030 .605 .359 .025040 .611 .347 .005010 .616 .044 .015025 .620 .168 .050072	.621 .507 .015030 .623 .320 .005030 .625 .136 .080104 .625 .343 .005134 .626 .386 .005075 .629 .095 .062078 .621 .533 .015030 .623 .326 .040060 .625 .139 .025105 .625 .348 .080104 .626 .392 .005010 .629 .149 .015030
.595 .359 .005010 .600 .252 .005010 .605 .388 .070090 .611 .350 .030050 .616 .160 .015030 .620 .184 .050075	.622 .061 .005010 .623 .328 .010025 .625 .145 .020032 .625 .349 .083104 .626 .394 .015030 .629 .177 .005010
.595 .413 .050070 .600 .253 .005060 .605 .416 .005010 .611 .352 .005010 .616 .167 .020032 .620 .191 .025040	.622 .147 .060080 .623 .330 .050090 .625 .151 .005010 .625 .356 .042062 .626 .408 .090105 .629 .226 .005010
.595 .430 .040060 .600 .254 .015030 .605 .453 .005060 .611 .379 .025040 .616 .192 .070090 .620 .198 .050070	.622 .159 .048075 .623 .375 .010020 .625 .157 .100125 .625 .372 .030050 .626 .409 .020030 .629 .290 .050083
.595 .436 .005010 .600 .255 .005010 .605 .566 .005010 .611 .405 .060083 .616 .251 .005010 .620 .200 .005010	.622 .166 .005010 .623 .390 .050070 .625 .158 .005010 .625 .375 .005120 .626 .422 .070090 .629 .292 .042060
.595 .437 .040060 .600 .265 .010020 .606 .198 .040050 .611 .406 .080090 .616 .256 .020032 .620 .201 .030050 .595 .495 .030050 .600 .266 .005010 .606 .203 .005010 .611 .460 .025040 .616 .259 .005010 .620 .214 .050070	.622 .174 .008016 .623 .404 .005010 .625 .160 .075104 .625 .376 .005010 .626 .442 .005025 .629 .316 .005010 .622 .175 .007015 .623 .405 .030050 .625 .166 .025042 .625 .377 .005010 .626 .445 .020040 .629 .319 .005010
.595 .515 .005010 .600 .267 .005010 .606 .285 .060083 .611 .480 .040070 .616 .268 .015030 .620 .250 .010035	.622 .180 .016025 .623 .424 .005010 .625 .171 .015125 .625 .378 .015080 .626 .468 .005010 .629 .344 .005010
.596 .099 .030050 .600 .269 .025040 .606 .312 .075100 .611 .515 .020040 .616 .323 .010020 .620 .252 .020040	.622 .190 .020040 .623 .460 .050075 .625 .187 .025050 .625 .379 .005010 .626 .470 .005010 .629 .351 .090110
*With POVED'S precision weakers you can change the exact this/year you want from the tool range listed	*Mith POVED'S precision weekers you can change the exect this/mage you want from the tool range listed

NO TOOLIN	VG CHANGE FOR ANT OF THE SIZES EISTED	BOKEN S WEIAE WASHENS ARE FEAT AND TOMBLE DEBONNED
	oose Any Choose Any Choose Any I.D. Thickness* O.D. I.D. Thickness*	Choose Any O.D. I.D. Thickness*
From To From T	om To From To From To	From To From To From To From To From To
	30 1000 1000 1010 1000	.660 .577 .020030 .669 .204 .020060 .671 .422 .020040 .678 .256 .035060 .682 .440 .020030 .686 .159 .080100
.030 .170 .645 030015 .401 .015030 .318 .318 .005010 .401 .015030	35050	661 .241 .005010 .669 .237 .062078 .686 .371 .474 .005010 .678 .384 .020032 .682 .472 .062078 .686 .161 .005010
	10020 .650 .404 .040060 .656 .195 .050075	661 .270 .060 .369 .316 .005 .010 .686 .671 .507 .008 .015 .678 .406 .010 .040 .682 .486 .005 .010 .686 .167 .040
	20 1002 1000 1110 1000 1000	661 .336 .020040 .669 .317 .075105 .671 .568 .010020 .678 .440 .005010 .682 .503 .005010 .686 .198 .042060
	20 10 10 1000 1121 1000 1010	661 .341 .005010 .669 .319 .005020 .672 .128 .100125 .678 .442 .012020 .682 .578 .015030 .686 .202 .100125
	50062 .650 .469 .050070 .656 .267 .050075	661 .403 .040060 .669 .320 .010040 .672 .325 .015030 .678 .449 .040060 .682 .601 .020030 .686 .252 .040060
	32048 .650 .500 .005010 .656 .278 .005010 .	661 .487 .040060 .669 .331 .050070 .672 .326 .080125 .678 .504 .015030 .683 .121 .050070 .686 .253 .042062
	60080 .650 .503 .015030 .656 .290 .070090	661 .529 .015025 .669 .338 .080100 .672 .346 .005010 .678 .507 .005010 .683 .172 .010025 .686 .269 .050072
	05010 .650 .505 .020030 .656 .320 .025040	661 .531 .010020 .669 .397 .005010 .672 .362 .005010 .678 .529 .005007 .683 .345 .070090 .686 .270 .005010
	05010	661 .551 .005010 .669 .427 .030050 .672 .375 .005010 .678 .530 .015030 .683 .376 .005010 .686 .313 .100120
	40060 .650 .534 .025040 .656 .345 .005010	661 .583 .005010 .669 .430 .010020 .672 .405 .110130 .678 .564 .035050 .683 .378 .015030 .686 .345 .060080
	1000 1000 1010 1020	662 .201 .050070 .669 .434 .070090 .672 .407 .010020 .678 .568 .010020 .683 .379 .040060 .686 .346 .025035
	60070 .650 .562 .005010 .656 .387 .030050	662 .219 .050070 .669 .472 .030050 .672 .415 .005010 .678 .591 .005010 .683 .396 .070090 .686 .360 .015025
	60110 .651 .147 .042060 .656 .397 .015025	.662 .324 .010020 .669 .487 .006015 .672 .442 .030040 .678 .593 .005010 .683 .400 .032042 .686 .377 .060080
	20030	662 .386 .020040 .669 .515 .005010 .672 .445 .025060 .678 .606 .005010 .683 .406 .040105 .686 .379 .025040
	05010	662 .393 .040060 .669 .543 .015030 .672 .490 .050070 .679 .111 .048062 .683 .440 .015030 .686 .381 .080105
	20035 .651 .315 .010020 .656 .453 .005040	.662 .432 .060080 .669 .550 .015030 .672 .531 .030040 .679 .206 .035060 .683 .478 .025035 .686 .385 .048062
	05012	662 .461 .030050 .669 .552 .005010 .673 .098 .020040 .679 .221 .010015 .683 .488 .080104 .686 .390 .048062
	20030	662 .477 .010020 .670 .121 .060080 .673 .283 .005010 .679 .395 .030050 .683 .505 .050070 .686 .392 .050062
	90105	662 .487 .060070 .670 .123 .005010 .673 .408 .005010 .679 .396 .015030 .683 .510 .030062 .686 .395 .010020
	05010	662 .553 .010020 .670 .130 .005010 .673 .412 .100134 .679 .403 .050075 .683 .512 .005010 .686 .398 .005010
	05010	.663 .140 .005010 .670 .168 .040060 .673 .437 .010025 .679 .409 .040050 .683 .570 .040050 .686 .407 .050070
	05010	.663 .457 .050070 .670 .169 .040060 .673 .446 .005010 .679 .411 .005010 .683 .575 .040060 .686 .421 .005010
	05010	.663 .504 .005010 .670 .178 .030040 .673 .473 .010025 .679 .441 .030050 .683 .579 .015025 .686 .437 .015030
	30050	.663 .556 .010020 .670 .190 .015032 .673 .500 .020036 .679 .451 .005010 .684 .234 .062078 .686 .438 .050075
	30050	.663 .560 .010020 .670 .208 .005010 .673 .537 .005010 .679 .457 .030060 .684 .247 .050075 .686 .483 .050075
	10020	.664 .256 .100125 .670 .234 .005010 .674 .095 .010020 .679 .482 .015062 .684 .279 .005010 .686 .500 .030070
	05125	.664 .259 .005125 .670 .237 .005010 .674 .377 .025040 .679 .500 .005010 .684 .303 .005010 .686 .502 .025042
	11 11 10 100 1000	.664 .413 .030050 .670 .239 .005010 .674 .391 .005010 .679 .501 .015030 .684 .323 .020040 .686 .512 .005010
	15030	.664 .503 .025050 .670 .240 .005010 .674 .395 .005010 .679 .509 .005010 .684 .399 .005010 .686 .520 .015030 .664 .541 .040060 .670 .245 .020030 .674 .441 .005080 .680 .163 .005010 .684 .400 .015030 .686 .528 .005010
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	05010	.665 .374 .120140 .670 .315 .005010 .674 .562 .020030 .680 .262 .005010 .684 .568 .025045 .687 .191 .005010 .665 .383 .040060 .670 .317 .005010 .675 .095 .005010 .680 .270 .015035 .684 .581 .015025 .687 .194 .125156
	05012	.665 .397 .070090 .670 .319 .050070 .675 .203 .020040 .680 .283 .080105 .684 .593 .030040 .687 .198 .090105
	00 1012 1002 1100 1020 1010	.665 .434 .040060 .670 .330 .050075 .675 .224 .005010 .680 .300 .032050 .684 .613 .015030 .687 .199 .015020
	15030	.665 .515 .025040 .670 .331 .005010 .675 .280 .060090 .680 .316 .048062 .685 .143 .040060 .687 .200 .032042
	05010	.665 .550 .005012 .670 .350 .020100 .675 .284 .032050 .680 .317 .030040 .685 .158 .060083 .687 .219 .036050
	05010	.665 .569 .020040 .670 .354 .105125 .675 .301 .050105 .680 .325 .005050 .685 .225 .005010 .687 .221 .020062
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	90100	.666 .143 .015030 .670 .360 .040050 .675 .386 .040060 .680 .330 .015030 .685 .254 .010075 .687 .237 .005010
	25040	.666 .168 .075090 .670 .365 .060080 .675 .400 .010040 .680 .369 .050075 .685 .263 .010015 .687 .257 .080090
	05010	.666 .196 .020040 .670 .378 .060080 .675 .416 .015030 .680 .375 .040060 .685 .264 .005010 .687 .259 .005010
	25135	.666 .256 .075090 .670 .382 .030060 .675 .435 .070090 .680 .422 .005015 .685 .269 .050070 .687 .267 .030048
30 .363 .070090 .634 .478 .005010 .641 .320 .010025 .649 .281 .00		.666 .267 .040062 .670 .385 .010020 .675 .440 .005010 .680 .442 .040060 .685 .325 .090120 .687 .296 .050075
00 000 075 004 540 040 000 044 075 045	70090	.666 .430 .020030 .670 .398 .040060 .675 .442 .005010 .680 .445 .005010 .685 .344 .040060 .687 .306 .040060
	30050 .653 .542 .005010 .658 .572 .005010	.666 .453 .015025 .670 .401 .015030 .675 .447 .080100 .680 .447 .010020 .685 .346 .070105 .687 .312 .120156
.00 .387 .010020 .635 .179 .010 .015 .641 .470 .010020 .649 .387	05010	.666 .475 .020040 .670 .406 .005010 .675 .458 .005040 .680 .470 .005010 .685 .366 .105125 .687 .316 .036048
.00 .452 .060070 .635 .200 .025040 .641 .475 .005010 .649 .452	05010	.666 .478 .030050 .670 .421 .005010 .675 .460 .010020 .680 .476 .030050 .685 .371 .100125 .687 .323 .048062
.00 .522 .00 .031 .031 .031 .031 .031 .031 .032 .635 .031 .031 .031 .031	05010	.666 .537 .005010 .670 .439 .005010 .675 .480 .005060 .680 .485 .050060 .685 .375 .032062 .687 .328 .005012
.005090 .635 .312 .035050 .641 .522 .020030 .649 .562 .00	05010	.666 .564 .010020 .670 .474 .070090 .675 .500 .040060 .680 .500 .032050 .685 .376 .100125 .687 .330 .050075
	05010	.666 .579 .005010 .670 .476 .005020 .675 .504 .005010 .680 .504 .020040 .685 .378 .080100 .687 .339 .050070
		.667 .213 .012020 .670 .480 .010020 .675 .515 .025048 .680 .514 .020060 .685 .379 .010048 .687 .343 .005010
	25 16 16 16 16 16 16 16 16 16 16 16 16 16	667 .270 .025040 .670 .481 .040060 .675 .582 .005010 .680 .524 .030050 .685 .380 .025060 .687 .350 .050075
	05010	.667 .275 .025042 .670 .490 .005010 .676 .288 .010025 .680 .540 .005010 .685 .391 .090110 .687 .359 .025048
	10030	667 .319 .042062 .670 .495 .040062 .676 .306 .050070 .680 .559 .005010 .685 .392 .090110 .687 .371 .100125
	05015	.667 .336 .005010 .670 .503 .020040 .676 .370 .070080 .680 .564 .030050 .685 .400 .105125 .687 .376 .010020
	1000 1121 1010 1000	.667 .347 .015030 .670 .520 .020040 .676 .440 .005010 .680 .565 .005050 .685 .410 .060078 .687 .378 .010020
	05010	.667 .496 .005010 .670 .545 .005010 .676 .500 .025042 .680 .597 .005010 .685 .423 .100125 .687 .379 .005010
	30 1010 1000 1112 1010 1000	.667 .595 .005010 .670 .566 .015030 .676 .515 .020030 .681 .190 .030050 .685 .427 .032042 .687 .380 .025040
	20 1000 1101 1000 1000	.668 .218 .060080 .670 .574 .030050 .676 .565 .020040 .681 .251 .050070 .685 .441 .005010 .687 .384 .010040
	42060	.668 .316 .005010 .671 .200 .025042 .676 .571 .015030 .681 .264 .030050 .685 .450 .008020 .687 .385 .005010
	30150	.668 .317 .005010 .671 .239 .005010 .677 .168 .020030 .681 .391 .005010 .685 .470 .050070 .687 .386 .070090 .688 .333 .005010 .671 .264 .005010 .677 .316 .040060 .681 .395 .005050 .685 .473 .060080 .687 .393 .005015
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		.668 .340 .035050 .671 .315 .005010 .677 .387 .005010 .681 .440 .005010 .685 .478 .015030 .687 .406 .040050 .668 .348 .010015 .671 .316 .015030 .687 .416 .050060
		.668 .406 .040060 .671 .319 .005010 .677 .441 .060080 .681 .515 .005010 .685 .520 .010020 .687 .432 .050070
	05010	.668 .435 .020030 .671 .322 .005010 .677 .458 .025040 .681 .590 .010020 .685 .533 .060083 .687 .433 .050125
	05010	.668 .472 .010020 .671 .325 .015030 .677 .468 .010020 .682 .129 .015025 .685 .568 .030050 .687 .438 .005020
	50075	.668 .498 .020040 .671 .333 .010020 .677 .476 .040060 .682 .333 .070090 .685 .609 .010030 .687 .441 .020070
	05010	.669 .031 .005010 .671 .345 .020040 .677 .523 .005010 .682 .351 .050070 .686 .066 .036050 .687 .443 .030125
1000 1020 1000	15030	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		.669 .138 .005010 .671 .386 .100125 .677 .534 .005010 .682 .395 .005010 .686 .135 .030050 .687 .452 .010020
		.669 .163 .005010 .671 .391 .005075 .677 .534 .015030 .682 .400 .032048 .686 .136 .040060 .687 .455 .050100
.81 .315 .015030 .638 .338 .020040 .644 .531 .030050 .650 .380 .08	50070 .655 .530 .005010 .660 .563 .005010	.669 .200 .005010 .671 .395 .020030 .678 .193 .060090 .682 .439 .025040 .686 .147 .015025 .687 .465 .080100
*With BOKER'S precision washers, you can choose the exact thickness w	you want from the tool range listed	*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	BOKER 3 METAL WASHERS ARE FLAT AND TOMBLE DEBURKED
Choose Any Choose Any O.D. I.D. Thickness*	Choose Any O.D. I.D. Thickness*
From To From To From To	From To From To From To From To From To
.687 .468 .040060 .689 .564 .010030 .695 .414 .012025 .700 .378 .005030 .702 .504 .012025 .708 .293 .050070	.710 .315 .005010 .715 .535 .025040 .720 .380 .020040 .727 .512 .010020 .733 .435 .030050 .739 .519 .005010
.687 .469 .050080 .689 .565 .010020 .695 .486 .060070 .700 .380 .040060 .702 .505 .005010 .708 .305 .005010	.710 .317 .005010 .716 .230 .015030 .720 .401 .005015 .727 .570 .040060 .733 .515 .050070 .739 .522 .015030
.687 .475 .015030 .689 .577 .030050 .695 .505 .050070 .700 .381 .005010 .702 .516 .050075 .708 .315 .005010	.710 .318 .010015 .716 .264 .020040 .720 .446 .025040 .727 .576 .015035 .733 .650 .010015 .739 .565 .015030
.687 .481 .050070 .690 .076 .010020 .695 .518 .030040 .700 .383 .040060 .702 .561 .015030 .708 .319 .005070	.710 .330 .010020 .716 .324 .005010 .720 .455 .105125 .727 .586 .015030 .734 .162 .015030 .739 .576 .005010
.687 .487 .025040 .690 .149 .050060 .695 .520 .005010 .700 .385 .090105 .702 .595 .025040 .708 .322 .005010	.710 .342 .020030 .716 .405 .025042 .720 .463 .080104 .728 .174 .020040 .734 .187 .005010 .739 .605 .040060
.687 .500 .010050 .690 .167 .005010 .695 .557 .005010 .700 .392 .010020 .703 .119 .030050 .708 .335 .020030	.710 .354 .008020 .716 .474 .030050 .720 .473 .005010 .728 .219 .010020 .734 .192 .080125 .739 .632 .005010
.687 .503 .005010 .690 .173 .050070 .695 .558 .015030 .700 .394 .135156 .703 .206 .025040 .708 .338 .005010	.710 .376 .020040 .716 .515 .040062 .720 .476 .070090 .728 .251 .005010 .734 .198 .070090 .739 .634 .005010
.687 .506 .005010 .690 .188 .040060 .695 .626 .015025 .700 .397 .005010 .703 .263 .005010 .708 .339 .040060	.710 .413 .050072 .716 .624 .030048 .720 .502 .015020 .728 .253 .025040 .734 .203 .040080 .739 .656 .025040
.687 .510 .050060 .690 .190 .010020 .696 .037 .007015 .700 .405 .120134 .703 .409 .010020 .708 .341 .005010	.710 .454 .005010 .716 .630 .020040 .720 .550 .005010 .728 .259 .025040 .734 .209 .005010 .740 .143 .070080
.687 .511 .020040 .690 .192 .060080 .696 .147 .005015 .700 .406 .050150 .703 .442 .005020 .708 .347 .005010	.710 .473 .010020 .717 .187 .010020 .720 .564 .020032 .728 .291 .025040 .734 .258 .040060 .740 .160 .005010
.687 .513 .042062 .690 .202 .030050 .696 .156 .005010 .700 .411 .005060 .703 .480 .030050 .708 .354 .050060	.710
.687 .517 .030048 .690 .206 .050075 .696 .166 .062090 .700 .417 .005020 .703 .482 .050070 .708 .372 .010020 .687 .564 .005010 .690 .220 .020032 .696 .178 .062078 .700 .435 .005010 .703 .487 .040050 .708 .375 .005010	.710 .475 .015030 .717 .290 .030050 .720 .568 .015030 .728 .328 .025040 .734 .316 .010020 .740 .206 .005010 .710 .497 .030050 .717 .293 .010020 .720 .594 .050075 .728 .375 .060090 .734 .376 .030050 .740 .250 .120135
100 1110 1000 1110 1000 1110 1000 1010 1010 1010	
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.687 .603 .005010 .690 .254 .050070 .696 .281 .090120 .700 .441 .005020 .703 .525 .030050 .708 .394 .050070 .688 .130 .050060 .690 .264 .105125 .696 .458 .025042 .700 .443 .105125 .703 .540 .040060 .708 .395 .010020	.710 .507 .020035 .717 .322 .032050 .720 .621 .005010 .728 .402 .010040 .734 .406 .050125 .740 .330 .070080 .710 .525 .005010 .717 .396 .020040 .720 .639 .005010 .728 .440 .005010 .734 .420 .093130 .740 .341 .050070
.688 .168 .050060 .690 .265 .100125 .696 .498 .005010 .700 .446 .010020 .703 .635 .010020 .708 .404 .050070	.710 .526 .010025 .717 .438 .030050 .720 .642 .030040 .728 .454 .015025 .734 .466 .060075 .740 .344 .020030
.688 .205 .025040 .690 .280 .050075 .696 .531 .015030 .700 .450 .005080 .704 .078 .040060 .708 .413 .080100	.710 .530 .070090 .717 .440 .080100 .721 .250 .050075 .728 .473 .025042 .734 .485 .020030 .740 .352 .020040
.688 .206 .040060 .690 .281 .050070 .697 .313 .090110 .700 .455 .005010 .704 .259 .050070 .708 .415 .025040	.710 .533 .050070 .717 .447 .005010 .721 .318 .030042 .728 .500 .005015 .734 .515 .030042 .740 .377 .050093
.688 .216 .050070 .690 .317 .080100 .697 .532 .025040 .700 .456 .030050 .704 .264 .060080 .708 .478 .010020	.710 .575 .040060 .717 .473 .015030 .721 .404 .062078 .728 .532 .020040 .734 .531 .005010 .740 .380 .030125
.688 .253 .010020 .690 .323 .020070 .698 .231 .005010 .700 .465 .020040 .704 .268 .060090 .708 .478 .080090	.710 .578 .040060 .717 .476 .025040 .721 .423 .005010 .728 .545 .015030 .734 .630 .032048 .740 .386 .005010
.688 .259 .040060 .690 .330 .105135 .698 .361 .005010 .700 .473 .005010 .704 .336 .005010 .708 .512 .005040	.710 .589 .005030 .717 .478 .005010 .721 .530 .010020 .728 .574 .005010 .735 .193 .050070 .740 .390 .005050
.688 .263 .005190 .690 .336 .060075 .698 .477 .005010 .700 .476 .005010 .704 .343 .060080 .708 .550 .020036	.710 .610 .010020 .717 .515 .050075 .721 .594 .016025 .728 .591 .030050 .735 .282 .050070 .740 .391 .005010
.688 .284 .005010 .690 .343 .050070 .698 .500 .005010 .700 .478 .070080 .704 .366 .010040 .708 .551 .045060	.710 .620 .005010 .717 .548 .005010 .721 .601 .020040 .728 .631 .012020 .735 .321 .030060 .740 .410 .105125
.688 .311 .010040 .690 .344 .100120 .698 .506 .010020 .700 .500 .005010 .704 .475 .010025 .708 .575 .010025	.711 .160 .005010 .717 .628 .005010 .722 .186 .005010 .728 .632 .005010 .735 .346 .050080 .740 .412 .062075
.688 .313 .020140 .690 .354 .005010 .698 .527 .005010 .501 .500 .501 .070090 .704 .478 .040060 .708 .630 .005010	.711 .168 .005010 .718 .131 .030050 .722 .221 .080100 .729 .219 .010020 .735 .369 .060080 .740 .439 .005010
.688 .316 .005010 .690 .365 .005010 .698 .541 .025040 .700 .502 .010 .704 .480 .015030 .708 .632 .005010	.711 .320 .005010 .718 .160 .048062 .722 .233 .050070 .729 .376 .015030 .735 .380 .105156 .740 .440 .010020
.688 .317 .005010 .690 .376 .010030 .698 .542 .030060 .700 .504 .005030 .704 .497 .020035 .708 .636 .015030	.711 .407 .020050 .718 .189 .015030 .722 .265 .050075 .729 .379 .005010 .735 .385 .020030 .740 .453 .020040
.688 .326 .015030 .690 .385 .090104 .698 .564 .010020 .700 .506 .015042 .704 .503 .060100 .708 .637 .005020	.711 .485 .040060 .718 .205 .005010 .722 .268 .005010 .729 .382 .135156 .735 .393 .005110 .740 .489 .005080
.688 .328 .080105 .690 .436 .100125 .698 .602 .005010 .700 .510 .010025 .704 .532 .030050 .708 .641 .005010	.711 .486 .040060 .718 .213 .015030 .722 .314 .050075 .729 .397 .025040 .735 .401 .015025 .740 .501 .008015
.688 .330 .030050 .690 .475 .030050 .698 .626 .005010 .700 .511 .020040 .704 .553 .005010 .709 .145 .005010	.711 .526 .015025 .718 .252 .010025 .722 .320 .050080 .729 .477 .005010 .735 .412 .005010 .740 .502 .080100
.688 .334 .005010 .690 .494 .075090 .699 .070 .040060 .700 .514 .020060 .704 .600 .020040 .709 .149 .030060	.712 .177 .020032 .718 .257 .025040 .722 .324 .030050 .729 .500 .005010 .735 .418 .060080 .740 .510 .040060
.688 .343 .070090 .690 .503 .050070 .699 .076 .015025 .700 .530 .070080 .704 .626 .005010 .709 .177 .005010	.712 .200 .005015 .718 .262 .020040 .722 .376 .100125 .729 .513 .007016 .735 .451 .050070 .740 .511 .005010
.688 .344 .070090 .690 .530 .040060 .699 .201 .040060 .700 .531 .020040 .705 .085 .005012 .709 .181 .060080 .688 .349 .005010 .690 .533 .072090 .699 .210 .060080 .700 .532 .005010 .705 .098 .005010 .709 .239 .005020	.712 .234 .005010 .718 .282 .062083 .722 .481 .050060 .729 .552 .060080 .735 .454 .100130 .740 .550 .005010 .712 .236 .005010 .718 .313 .015030 .722 .500 .072090 .730 .238 .060080 .735 .500 .020070 .740 .571 .005010
100 100 100 100	110 100 100 100 100 100 100
.688 .350 .050070 .690 .542 .005010 .699 .376 .005010 .700 .533 .030050 .705 .248 .015030 .709 .243 .005010 .688 .352 .050070 .690 .566 .030050 .699 .380 .005010 .700 .535 .040050 .705 .253 .050072 .709 .253 .160180	
.688 .376 .005042 .690 .569 .010020 .699 .483 .005020 .700 .550 .005010 .705 .265 .020040 .709 .259 .040060	.712 .252 .005010 .718 .375 .030060 .722 .540 .078090 .730 .287 .050075 .735 .627 .040060 .740 .626 .005010 .712 .505 .005010 .718 .378 .025050 .722 .636 .010020 .730 .401 .005010 .736 .118 .015030 .740 .628 .005010
.688 .378 .050075 .690 .575 .010020 .699 .500 .010020 .700 .555 .015030 .705 .274 .005010 .709 .313 .005110	.712 .514 .005010 .718 .380 .005090 .723 .221 .005040 .730 .415 .005010 .736 .159 .040050 .740 .631 .005010
.688 .384 .050070 .690 .615 .020030 .699 .502 .005010 .700 .560 .005030 .705 .311 .005010 .709 .314 .005010	.712 .525 .040060 .718 .395 .010020 .723 .314 .040060 .730 .433 .025040 .736 .160 .030050 .740 .659 .005010
.688 .386 .050070 .690 .625 .010020 .699 .503 .070090 .700 .564 .025072 .705 .312 .005010 .709 .316 .005030	.712 .530 .030050 .718 .398 .005010 .723 .382 .030060 .730 .460 .010020 .736 .268 .042060 .740 .660 .020030
.688 .391 .105125 .690 .639 .005010 .699 .514 .060080 .700 .565 .010060 .705 .317 .005010 .709 .317 .005010	.712 .567 .015030 .718 .406 .005010 .723 .632 .005010 .730 .475 .020040 .736 .310 .048070 .740 .691 .005010
.688 .393 .075090 .691 .163 .025040 .699 .562 .040060 .700 .566 .015032 .705 .361 .105125 .709 .320 .005010	.712 .646 .005010 .718 .408 .030050 .723 .637 .010020 .730 .480 .050070 .736 .313 .040060 .740 .696 .010020
.688 .407 .005010 .709 .705 .007 .007 .007 .007 .007 .007 .007	.713 .116 .050070 .718 .418 .015030 .723 .641 .005010 .730 .486 .020040 .736 .318 .015030 .741 .201 .015025
.688 .452 .030050 .691 .192 .020040 .700 .077 .005010 .700 .585 .005010 .705 .438 .005010 .709 .322 .005010	.713 .199 .015030 .718 .438 .090125 .724 .173 .030050 .730 .492 .030050 .736 .380 .020030 .741 .203 .060080
.688 .464 .080100 .691 .194 .015030 .700 .093 .005010 .700 .600 .010020 .705 .516 .025040 .709 .327 .040060	.713 .206 .080100 .718 .464 .005010 .724 .201 .020040 .506 .040060 .736 .386 .040060 .741 .261 .156187
.688 .468 .020040 .691 .203 .005010 .700 .096 .050062 .700 .608 .005010 .705 .531 .005010 .709 .347 .050070	.713 .400 .015025 .718 .465 .060070 .724 .382 .020040 .730 .519 .050070 .736 .436 .005010 .741 .291 .015025
.688 .469 .015030 .691 .238 .030050 .700 .120 .070090 .700 .610 .015030 .705 .550 .030050 .709 .352 .015030	.713 .410 .005010 .718 .487 .005010 .724 .428 .005010 .730 .526 .005010 .736 .467 .005010 .741 .296 .015030
.688 .505 .060080 .691 .258 .060080 .700 .129 .005010 .700 .615 .005010 .705 .570 .050070 .709 .381 .030050	.713 .437 .060075 .718 .518 .020040 .724 .508 .025040 .730 .569 .015030 .736 .504 .007016 .741 .322 .050075
.688 .513 .050075 .691 .475 .030060 .700 .138 .010020 .700 .631 .005010 .705 .634 .015025 .709 .386 .005010 .688 .518 .005010 .691 .485 .005010 .700 .159 .040060 .700 .651 .005010 .706 .254 .030050 .709 .392 .010020	.713 .540 .040060 .718 .562 .005040 .724 .519 .020040 .730 .571 .005010 .736 .516 .030050 .741 .378 .050080
.688 .518 .005010 .691 .485 .005010 .700 .159 .040060 .700 .651 .005010 .706 .254 .030050 .709 .392 .010020 .688 .538 .015040 .691 .511 .020030 .700 .164 .010020 .701 .130 .060080 .706 .347 .005010 .709 .394 .010050	.713 .595 .010020 .718 .585 .005010 .724 .570 .005010 .730 .615 .020030 .736 .565 .005010 .741 .395 .025040 .713 .672 .005010 .718 .593 .015020 .724 .670 .005010 .730 .630 .030042 .736 .578 .015025 .741 .412 .080105
.688 .563 .005010 .691 .515 .015030 .700 .168 .050070 .701 .153 .048090 .706 .390 .005010 .709 .395 .005020	.714 .101 .020030 .718 .595 .005010 .725 .089 .062078 .730 .632 .005010 .736 .595 .040062 .741 .505 .060083
.688 .615 .015030 .691 .598 .005010 .700 .169 .040060 .701 .168 .005010 .706 .395 .062083 .709 .397 .005020	.714 .111 .020030 .718 .600 .045060 .725 .128 .040060 .731 .206 .030050 .736 .601 .015030 .741 .515 .040060
.689 .156 .040060 .692 .286 .042062 .700 .176 .005010 .701 .193 .040060 .706 .398 .050070 .709 .399 .010020	.714 .118 .020030 .718 .638 .006030 .725 .160 .020040 .731 .410 .070090 .736 .633 .015030 .741 .529 .010020
.689 .162 .100120 .692 .406 .020040 .700 .193 .005010 .701 .204 .050070 .706 .402 .005010 .709 .437 .005050	.714 .125 .020030 .719 .132 .030050 .725 .187 .060090 .731 .416 .005080 .736 .650 .025040 .741 .531 .050070
.689 .222 .090120 .692 .519 .005010 .700 .210 .050070 .701 .224 .040060 .706 .420 .005010 .709 .455 .090105	.714 .140 .020030 .719 .196 .040060 .725 .251 .015030 .731 .426 .010020 .737 .318 .015025 .741 .562 .030060
.689 .249 .005010 .692 .603 .015030 .700 .221 .020040 .701 .241 .050070 .706 .434 .025040 .709 .472 .005050	.714 .182 .005010 .719 .198 .015030 .725 .296 .100125 .731 .433 .030050 .737 .330 .040060 .741 .570 .020040
.689 .273 .005010 .693 .119 .005012 .700 .221 .075090 .701 .257 .050100 .706 .453 .032042 .709 .474 .010020	.714 .223 .050070 .719 .237 .005010 .725 .339 .005030 .731 .453 .100120 .737 .364 .005010 .741 .636 .015030
.689 .281 .050070 .693 .236 .005010 .700 .250 .070090 .701 .259 .005010 .706 .478 .040060 .709 .475 .040060	.714 .285 .070090 .719 .240 .015030 .725 .346 .005010 .731 .482 .020040 .737 .419 .030060 .741 .640 .005010
.689 .313 .020040 .693 .320 .005010 .700 .252 .010020 .701 .285 .005010 .706 .500 .075100 .706 .500 .705 .010	.714 .299 .020030 .719 .254 .008016 .725 .458 .010020 .731 .564 .005010 .737 .436 .040050 .741 .690 .005010
.689 .319 .025040 .693 .396 .050075 .700 .253 .005010 .701 .321 .125135 .706 .505 .010060 .709 .482 .070090	714 390 .048072 .719 .324 .015030 .725 .505 .010020 .731 .585 .005010 .737 .503 .060083 .742 .149 .005010
.689 .320 .005010 .693 .410 .025040 .700 .256 .040060 .701 .410 .005010 .707 .315 .100125 .709 .483 .005010	.714
.689 .325 .040060 .693 .438 .020030 .700 .272 .060080 .701 .419 .050070 .316 .005125 .709 .490 .060080 .689 .345 .040060 .693 .443 .005010 .700 .291 .005010 .701 .425 .050070 .707 .320 .005010 .709 .492 .030050	.714 .555 .050075 .719 .374 .010015 .725 .548 .020040 .732 .159 .070090 .737 .537 .030050 .742 .251 .040060
100 100 1010 1100 1010 1101 1100 1010 1010 1010	.715 .198 .030078 .719 .378 .005010 .726 .183 .050070 .732 .163 .015030 .737 .546 .005010 .742 .271 .110130 .715 .199 .060083 .719 .380 .070090 .726 .304 .010020 .732 .165 .005010 .737 .550 .025040 .742 .346 .020030
.689 .375 .010020 .693 .539 .050070 .313 .010020 .701 .438 .040060 .707 .335 .020040 .709 .503 .080105 .689 .377 .050070 .694 .200 .080100 .700 .317 .005020 .701 .500 .010060 .707 .436 .005010 .709 .550 .005010	.715 .199 .060083 .719 .380 .070090 .726 .304 .010020 .732 .165 .005010 .737 .550 .025040 .742 .346 .020030 .715 .315 .090104 .719 .395 .040060 .726 .315 .020030 .732 .199 .042080 .738 .342 .042060 .742 .360 .050060
.689 .398 .005010 .694 .275 .020040 .700 .320 .005010 .701 .521 .080100 .707 .472 .015030 .709 .592 .030050	.715 .323 .015030 .719 .439 .080105 .726 .325 .005010 .732 .253 .010015 .738 .346 .005010 .742 .378 .080104
.689 .401 .015030 .694 .370 .010020 .700 .327 .015020 .701 .549 .020030 .707 .480 .005010 .709 .596 .020040	.715 .326 .015030 .719 .441 .070090 .726 .343 .005010 .732 .253 .010015 .738 .346 .005010 .742 .370 .000104 .715 .330 .005012 .719 .441 .070090 .726 .343 .005010 .732 .263 .040062 .738 .511 .015030 .742 .380 .030050
.689 .402 .032048 .694 .379 .060070 .700 .328 .010025 .701 .561 .010020 .708 .120 .072120 .710 .133 .005010	.715 .366 .020040 .719 .453 .050070 .726 .375 .105125 .732 .281 .050075 .738 .538 .015030 .742 .387 .100135
.689 .408 .100125 .694 .478 .060070 .700 .330 .100125 .701 .614 .015030 .708 .136 .040060 .710 .201 .050070	.715 .369 .060080 .719 .468 .020040 .726 .388 .005010 .732 .290 .005010 .738 .540 .015025 .742 .389 .042062
.689 .435 .005010 .694 .484 .050070 .700 .337 .050070 .702 .255 .005010 .708 .170 .040060 .710 .211 .070090	.715 .379 .005010 .719 .543 .040060 .726 .406 .030050 .732 .330 .005060 .738 .544 .005010 .742 .426 .050070
.689 .437 .005010 .695 .195 .015025 .700 .344 .007020 .702 .261 .100120 .708 .218 .005030 .710 .236 .005010	.715 .437 .008012 .719 .555 .040060 .726 .439 .020040 .732 .335 .020040 .738 .594 .015030 .742 .443 .025060
.689 .468 .015125 .695 .196 .032062 .700 .356 .005010 .702 .312 .010020 .708 .236 .035010 .238 .005010	.715 .440 .090100 .720 .254 .020035 .726 .485 .015030 .732 .443 .015030 .738 .595 .005010 .742 .466 .060075
.689 .471 .005010 .695 .264 .005012 .700 .357 .010020 .702 .319 .020030 .708 .238 .005010 .710 .252 .008016	.715 .470 .060105 .720 .259 .005010 .726 .632 .005010 .732 .475 .008015 .739 .222 .040060 .742 .474 .080100
.689 .472 .030050 .695 .265 .030060 .700 .358 .040060 .702 .325 .005010 .708 .239 .030050 .710 .278 .005010	.715 .474 .030060 .720 .281 .110187 .727 .257 .020040 .732 .502 .025042 .739 .305 .010020 .742 .502 .060070
.689 .493 .040060 .695 .282 .005010 .700 .360 .030050 .702 .327 .105125 .708 .253 .040060 .710 .279 .005010	715
.689 .494 .050075 .695 .335 .025040 .700 .366 .090105 .702 .401 .025040 .708 .257 .050070 .710 .288 .015125 .689 .500 .005010 .695 .353 .010020 .700 .376 .010020 .702 .437 .090105 .708 .271 .105120 .710 .301 .010020	715
.689 .500 .005010 .695 .353 .010020 .700 .376 .010020 .702 .437 .090105 .708 .271 .105120 .710 .301 .010020 .689 .517 .030050 .695 .412 .080104 .700 .377 .020040 .702 .487 .050070 .708 .279 .060080 .710 .308 .100120	.715 .500 .020035 .720 .341 .090105 .727 .480 .040050 .733 .234 .005010 .739 .431 .070090 .742 .593 .025040 .715 .526 .015025 .720 .360 .020030 .727 .500 .015030 .733 .389 .010020 .739 .505 .015030 .742 .671 .010020
021 001. 000. 011. 000 000. 612. 001. 010 000. 104. 201. 040 020. 110. 001. FVI. 000. 21F. 000. 000. 000. 000.	020 010. 170. 241. 0000 010. 000. 001. 020 010. 0000 010. 0000. 121. 0000. 020. 020. 020. 02

									NO	TOO	LING CH	ARGE	FOR	ANY OF	THE	SIZES	LISTED
O.D.	I.D.	Choose Any Thickness*															
.743	.144	.070090	.745	.693	.010020	.748	.241	.040060	.749	.395	.005010	.750	.204	.050070	.750	.396	.060070
.743	.271	.050075	.746	.100	.032050	.748	.249	.050075	.749	.397	.015025	.750	.206	.070090	.750	.400	.010040
.743 .743	.390 .417	.005010 .005010	.746 .746	.125 .166	.015030 .050075	.748 .748	.252 .254	.005010 .060090	.749 .749	.402 .403	.100120 .005008	.750 .750	.209 .213	.030050 .105125	.750 .750	.402 .406	.042060 .010030
.743	.475	.040050	.746	.200	.060080	.748	.255	.000090	.749	.403	.005008	.750	.218	.005010	.750	.407	.120134
.743	.488	.060080	.746	.203	.030050	.748	.259	.008016	.749	.424	.040060	.750	.223	.125156	.750	.411	.060070
.743	.520	.070090	.746	.204	.070090	.748	.315	.005010	.749	.437	.042060	.750	.229	.005010	.750	.413	.005015
.743 .743	.531 .541	.005010 .005010	.746 .746	.253 .260	.040060 .005010	.748 .748	.316 .318	.005190 .005020	.749 .749	.438 .440	.010020 .005070	.750 .750	.232 .236	.050075	.750 .750	.415 .419	.005010 .080100
.743	.556	.005008	.746	.285	.005010	.748	.322	.005010	.749	.445	.005015	.750	.242	.030050	.750	.420	.105125
.743	.572	.040060	.746	.316	.005030	.748	.328	.105134	.749	.459	.005010	.750	.250	.005062	.750	.426	.005010
.743 .743	.596 .600	.005010	.746 .746	.318 .319	.078090 .040060	.748	.331	.015030	.749	.468	.005010	.750 .750	.251 .252	.005030 .005080	.750 .750	.437 .438	.005010 .040062
.743	.623	.010020	.746	.379	.040060	.748 .748	.357 .376	.070090 .005010	.749 .749	.471 .474	.050070 .050070	.750	.252	.025040	.750	.439	.010020
.743	.630	.016025	.746	.386	.060070	.748	.377	.156187	.749	.499	.020080	.750	.254	.005100	.750	.440	.080104
.744	.187	.100120	.746	.390	.006010	.748	.384	.020040	.749	.503	.005010	.750	.256	.040060	.750	.441	.060090
.744 .744	.215 .236	.030050 .010020	.746 .746	.393 .395	.110130	.748 .748	.385 .393	.005010	.749 .749	.504 .507	.090120 .008016	.750 .750	.257 .259	.090120 .005032	.750 .750	.442 .444	.005090 .015030
.744	.262	.015030	.746	.405	.005010	.748	.397	.005010	.749	.517	.005010	.750	.260	.090125	.750	.445	.030050
.744	.370	.015030	.746	.437	.042060	.748	.400	.005010	.749	.528	.005010	.750	.261	.040080	.750	.446	.015030
.744 .744	.383 .388	.035050 .005010	.746 .746	.438	.005010	.748 .748	.451	.005010	.749	.531	.005010	.750 .750	.264 .265	.005104 .050120	.750 .750	.448 .450	.005010 .025042
.744	.403	.003010	.746	.445 .455	.040060 .010020	.748	.461 .462	.010020 .005010	.749 .749	.562 .563	.010020 .005010	.750	.266	.072135	.750	.450	.036050
.744	.409	.050070	.746	.469	.030060	.748	.473	.005015	.749	.575	.040060	.750	.267	.010025	.750	.454	.042125
.744	.413	.105125	.746	.480	.015090	.748	.476	.005020	.749	.594	.010020	.750	.268	.010080	.750	.457	.070090
.744 .744	.430 .438	.005010	.746 .746	.499 .500	.020040 .005012	.748 .748	.501 .503	.090105 .010040	.749	.595	.035062	.750 .750	.270 .277	.005010	.750 .750	.468 .470	.010125
.744	.449	.060080	.746	.521	.005012	.748	.503	.050070	.749 .749	.599 .609	.015030 .005010	.750	.281	.005078	.750	.470	.016025
.744	.450	.050075	.746	.531	.005020	.748	.507	.020036	.749	.620	.015030	.750	.282	.105135	.750	.476	.060080
.744	.500	.005012	.746	.533	.030050	.748	.511	.010020	.749	.626	.040060	.750	.283	.170190	.750	.477	.005010
.744 .744	.504 .507	.005010 .040075	.746 .746	.564 .565	.015030 .075090	.748 .748	.513 .553	.070090 .005010	.749 .749	.633 .640	.010020 .030060	.750 .750	.285 .288	.015135	.750 .750	.478 .480	.100125
.744	.523	.030050	.746	.579	.025048	.748	.563	.015030	.749	.644	.005010	.750	.291	.100125	.750	.491	.015030
.744	.525	.040050	.746	.608	.050070	.748	.570	.005012	.749	.650	.040050	.750	.293	.100125	.750	.496	.040060
.744	.532	.010020	.746	.621	.005010	.748	.573	.012020	.749	.669	.005010	.750	.295	.015030	.750	.499	.100125
.744 .744	.561 .599	.005010 .005012	.746 .746	.627 .634	.020040 .010020	.748 .748	.582 .626	.005010 .040060		-	-	.750 .750	.303	.010020 .060080	.750 .750	.500 .502	.005060
.744	.622	.020040	.746	.670	.005010	.748	.629	.010020		75)(]	.750	.312	.035050	.750	.503	.005020
.745	.095	.005010	.747	.131	.025040	.748	.632	.015030				.750	.313	.020135	.750	.504	.015025
.745 .745	.120	.015040	.747 .747	.143	.030050 .065080	.748 .748	.634	.005030 .015025	.750	.063	.025048	.750 .750	.315	.025190	.750 .750	.505 .506	.025105
.745	.143	.035055	.747	.235	.005010	.748	.644	.025040	.750	.069	.005010	.750	.317	.005030	.750	.509	.005010
.745	.184	.010020	.747	.261	.015025	.748	.670	.005015	.750	.078	.005010	.750	.318	.005015	.750	.510	.010020
.745 .745	.190 .191	.040060	.747 .747	.268 .269	.005010	.748	.693	.005010	.750 .750	.085 .090	.005010 .010015	.750 .750	.319	.040100	.750 .750	.510	.100120
.745	.193	.025035	.747	.315	.040060 .005010	.749 .749	.064	.030050 .015030	.750	.096	.060090	.750	.320 .321	.015025	.750	.511 .512	.030060
.745	.200	.050070	.747	.316	.030040	.749	.160	.008016	.750	.102	.015025	.750	.325	.125156	.750	.513	.010075
.745	.214	.015030	.747	.317	.040060	.749	.161	.060090	.750	.118	.005010	.750	.326	.025040	.750	.514	.100125
.745 .745	.234 .244	.040060 .005010	.747 .747	.324 .376	.020030 .010020	.749 .749	.162 .181	.030050 .060090	.750 .750	.125 .126	.012025 .005010	.750 .750	.327 .329	.062090 .070090	.750 .750	.517 .522	.030050 .010020
.745	.255	.032050	.747	.377	.010015	.749	.190	.010020	.750	.128	.005010	.750	.330	.025040	.750	.524	.015030
.745	.265	.050125	.747	.380	.008016	.749	.194	.090125	.750	.129	.090104	.750	.331	.005010	.750	.525	.050070
.745	.291	.005010	.747	.395	.010020	.749	.200	.020042	.750	.133	.030050	.750	.333	.005010 .042072	.750	.528	.005010 .040105
.745 .745	.316 .317	.060070 .105135	.747 .747	.397 .468	.105125 .030050	.749 .749	.203 .204	.125156 .005060	.750 .750	.134 .143	.005010 .015030	.750 .750	.337 .344	.042072	.750 .750	.530 .531	.010020
.745	.320	.080105	.747	.475	.008012	.749	.220	.105135	.750	.146	.010078	.750	.345	.005125	.750	.532	.020125
.745	.330	.015030	.747	.478	.005015	.749	.221	.040060	.750	.147	.005015	.750	.348	.005010	.750	.533	.050070
.745 .745	.389 .403	.050070 .050060	.747 .747	.491 .508	.005010 .100125	.749 .749	.229 .237	.160187 .005030	.750 .750	.150 .155	.005020 .005010	.750 .750	.350 .354	.072090 .005010	.750 .750	.535 .536	.010020 .040060
.745	.422	.090100	.747	.510	.015030	.749	.252	.005030	.750	.156	.025075	.750	.356	.070080	.750	.540	.040050
.745	.438	.020036	.747	.517	.010020	.749	.257	.072120	.750	.161	.090100	.750	.359	.015125	.750	.545	.015030
.745	.451	.010020	.747	.561	.010025	.749	.258	.030040	.750 750	.165 166	.060080	.750	.362	.050075	.750	.549	.005010 .020030
.745 .745	.454 .455	.120140 .032050	.747 .747	.566 .594	.050070 .005010	.749 .749	.263 .268	.030050 .060090	.750 .750	.166 .171	.025035 .005010	.750 .750	.364 .374	.005010 .010020	.750 .750	.550 .551	.020030
.745	.468	.005012	.747	.618	.005010	.749	.272	.005010	.750	.172	.010020	.750	.375	.005010	.750	.558	.040060
.745	.509	.005010	.747	.628	.005010	.749	.286	.105120	.750	.184	.030050	.750	.376	.005125	.750	.562	.040060
.745 .745	.510 .538	.020040 .030050	.747 .747	.632 .651	.030050 .005010	.749	.313	.005040 .005010	.750 .750	.186 .188	.005015 .060083	.750 .750	.377 .378	.005010 .005187	.750 .750	.563 .564	.010060 .005060
.745	.541	.030030	.747	.691	.015010	.749 .749	.315 .316	.005010	.750	.189	.005104	.750	.376	.015040	.750	.565	.010040
.745	.558	.010020	.748	.066	.015030	.749	.322	.005010	.750	.190	.015125	.750	.381	.048062	.750	.566	.012020
.745	.560	.005010	.748	.136	.031042	.749	.323	.105125	.750	.191	.050075	.750	.382	.020040	.750	.569	.050062
.745 .745	.562 .571	.020030 .005010	.748 .748	.139 .140	.020042 .005010	.749 .749	.330 .347	.060090 .020035	.750 .750	.192 .193	.050070 .010075	.750 .750	.383 .384	.060083 .005020	.750 .750	.570 .582	.020040 .030050
.745	.576	.042060	.748	.147	.062075	.749	.350	.005010	.750	.194	.042062	.750	.385	.005010	.750	.584	.005010
.745	.591	.030050	.748	.173	.032050	.749	.351	.005010	.750	.195	.005125	.750	.387	.050080	.750	.590	.005010
.745	.599	.005010	.748	.180	.008016	.749	.364	.005010	.750 750	.197	.005010 .025105	.750	.388	.025040	.750	.595	.005020
.745 .745	.605 .626	.005010 .040060	.748 .748	.201 .237	.060090 .005010	.749 .749	.375 .379	.025040 .036060	.750 .750	.198 .200	.025105	.750 .750	.389 .390	.050070 .005105	.750 .750	.609 .625	.040060 .005050
.745	.628	.005010	.748	.238	.005010	.749	.386	.005010	.750	.202	.005010	.750	.394	.100125	.750	.626	.015030
.745	.661	.010015	.748	.239	.050070	.749	.387	.005010	.750	.203	.030050	.750	.395	.020050	.750	.630	.005060

								DOMEN	3 IVIL	IAL V	VASIILI	7 11 12			JIVIDE		
O.D.	I.D.	Choose Any Thickness*															
.750	.632	.005010	.751	.606	.005010	.755	.552	.030040	.766	.610	.030050	775	457	.005010	.780	.566	.080100
.750	.634	.005020	.751	.626	.005010	.755	.554	.005040	.766	.676	.005010	.775 .775	.457 .464	.005010	.780	.570	.020040
.750	.639	.015030	.751	.633	.005010	.755	.565	.040060	.767	.073	.025040	.775	.469	.080100	.780	.579	.005015
.750	.640	.010020	.751	.634	.005010	.755	.586	.005010	.767	.084	.015030	.775	.500	.075090	.780	.591	.060090
.750	.645	.010020	.751	.639	.010015	.756	.230	.005010	.767	.224	.090110	.775	.525	.100125	.780	.593	.005010
.750	.650	.025040	.751	.650	.010020	.756	.258	.075100	.767	.301	.100125	.775	.555	.020030	.780	.598	.050070
.750	.651	.040060	.752	.143	.090120	.756	.375	.040050	.767	.315	.020040	.775	.560	.070090	.780	.627	.020030
.750	.679	.005010	.752	.145	.100125	.756	.395	.005010	.767	.429	.005010	.775	.602	.005010	.780	.640	.030070
.750 .750	.691 .692	.010020 .015025	.752 .752	.150	.090105 .080104	.756	.408	.020035	.767	.537	.005010	.775	.643	.005030	.780	.658	.005010 .015030
.750	.697	.030060	.752	.181	.005010	.756 .756	.500 .564	.010020 .005010	.767 .767	.563 .576	.020040 .030050	.776 .776	.196 .197	.015030 .020035	.780 .780	.672 .684	.025040
.750	.700	.010020	.752	.196	.040060	.756	.570	.020030	.767	.588	.030030	.776	.197	.020033	.780	.685	.005012
.750	.705	.010020	.752	.212	.030060	.757	.139	.005010	.767	.699	.005010	.776	.239	.070090	.781	.111	.025040
.751	.105	.010020	.752	.250	.005010	.757	.243	.005020	.768	.235	.040060	.776	.240	.025040	.781	.142	.010020
.751	.126	.030050	.752	.269	.100135	.757	.279	.005015	.768	.378	.110130	.776	.283	.030050	.781	.172	.010020
.751	.129	.050070	.752	.303	.005012	.757	.387	.060125	.768	.415	.050070	.776	.386	.005010	.781	.280	.156190
.751	.140	.080100	.752	.315	.104135	.757	.400	.040060	.768	.416	.050070	.776	.432	.070090	.781	.316	.005010
.751	.168	.040060	.752	.317	.010020	.757	.468	.030050	.768	.471	.010020	.776	.598	.050070	.781	.317	.010030
.751	.170	.040060	.752	.319	.005030	.757	.470	.020040	.768	.530	.010030	.776	.646	.020040	.781	.335	.005050
.751	.184	.005010	.752	.320	.050070	.757	.563	.010020	.768	.545	.020040	.776	.653	.040050	.781	.402	.010020
.751	.187	.010020	.752	.322	.005010	.758	.234	.005010	.768	.631	.020040	.777	.150	.005010	.781	.430	.048062
.751 .751	.188	.060083	.752	.340	.005010	.758	.237	.005010	.769	.202	.050070	.777	.317	.020040	.781	.448	.015030
.751	.190 .194	.005010 .090125	.752 .752	.357 .375	.050070 .062075	.758 .758	.310 .350	.015030	.769 .769	.240	.050070	.777 777	.328	.156187	.781 .781	.485 .488	.005010 .050060
.751	.200	.042062	.752 .752	.379	.062075	.758	.350	.040060	.769 .769	.256 .395	.005035 .070090	.777 .777	.392 .421	.020030 .025040	.781	.400 .501	.005015
.751	.204	.005010	.752	.380	.090110	.758	.608	.050075	.769	.395	.135156	.777	.572	.025040		.518	.040060
.751	.205	.060080	.752	.388	.050070	.759	.462	.005010	.769	.141	.025040	.777	.613	.050070	.781	.531	.008012
.751	.206	.040075	.752	.389	.005010	.759	.606	.005010	.770	.211	.040060	.778	.221	.005015		.557	.020040
.751	.218	.020050	.752	.406	.060083	.759	.694	.005010	.770	.248	.005010	.778	.261	.060070		.600	.015030
.751	.229	.015030	.752	.431	.090125	.760	.032	.020032	.770	.375	.040060	.778	.266	.062075	.781	.605	.032050
.751	.239	.005010	.752	.461	.008012	.760	.126	.015030	.770	.377	.040060	.778	.363	.070090	.781	.621	.040060
.751	.242	.080105	.752	.475	.030050	.760	.150	.020040	.770	.384	.020040	.778	.386	.030050		.625	.050075
.751	.244	.050070	.752	.502	.008012	.760	.200	.090110	.770	.385	.015030	.778	.390	.015030	.781	.627	.040060
.751	.250	.080140	.752	.504	.010050	.760	.256	.080104	.770	.430	.030050	.778	.408	.020040	.781	.628	.005010
.751	.255	.050070	.752	.505	.015030	.760	.260	.030062	.770	.474	.030040	.778	.435	.120135	.781	.629	.025060
.751 .751	.257 .265	.050070 .005015	.752 .752	.516 .555	.005015 .040070	.760 .760	.269 .322	.040060 .050070	.770 .770	.517 .524	.005015	.778	.534	.062078		.640 .368	.060070 .010020
.751	.266	.032050	.752	.564	.050070	.760	.330	.005010	.770	.524 .525	.040060 .005010	.779 .779	.190 .264	.030050 .025040		.437	.090105
.751	.272	.100125	.752	.570	.010020	.760	.385	.040060	.770	.531	.050060	.779	.270	.060090	.782	.440	.015030
.751	.296	.050070	.752	.591	.060090	.760	.446	.010020	.770	.536	.015030	.779	.318	.050070	.782	.442	.070090
.751	.303	.005010	.752	.624	.050070	.760	.471	.050070	.770	.571	.025040	.779	.323	.015030	.782	.482	.070090
.751	.307	.010020	.752	.697	.010020	.760	.482	.040060	.770	.636	.020040	.779	.378	.090105	.782	.500	.030060
.751	.315	.015030	.753	.133	.075090	.760	.508	.105120	.770	.664	.005010	.779	.395	.032060	.782	.513	.030050
.751	.322	.050075	.753	.170	.020040	.760	.565	.020040	.770	.680	.035045	.779	.422	.030050		.517	.080100
.751	.325	.015030	.753	.276	.010020	.760	.571	.070090	.770	.711	.015030	.779	.439	.015030		.530	.093103
.751	.331	.075093	.753	.318	.050070	.760	.579	.005008	.771	.380	.005010	.779	.476	.100125		.542	.005010
.751	.332	.005010	.753	.330	.110130	.760	.592	.020035	.771	.474	.050070	.779	.492	.050060		.546	.010020
.751 .751	.335 .343	.090125 .025040	.753	.337	.100125	.760	.624	.020030	.771	.511	.105125	.779	.568	.010020		.562 .563	.060083 .010020
.751	.361	.025040	.753 .753	.375 .381	.100125 .134187	.760 .760	.664	.005010 .010020	.771 .771	.554	.010020 .005010	.779	.579	.005010 .030060		.699	.005010
.751	.376	.005015	.753	.384	.050070	.761	.675 .141	.005015	.771	.606 .639	.050060	.779 .779	.632	.005010		.062	.030050
.751	.379	.040060	.753	.405	.050072	.761	.184	.005015	.771	.700	.005010	.779	.640	.040060		.254	.050070
.751	.380	.005020	.753	.409	.005010	.761	.561	.030050	.772	.188	.020040	.779	.680	.005010		.270	.070080
.751	.387	.105125	.753	.472	.100120	.762	.250	.005010	.772	.250	.040060	.779	.700	.010020		.278	.010020
.751	.395	.020030	.753	.477	.020040	.762	.445	.040060	.772	.265	.060070	.780	.051	.025035		.320	.050070
.751	.400	.050080	.753	.484	.025050	.762	.616	.005010	.772	.404	.005010	.780	.190	.040060	.783	.453	.080104
.751	.420	.110130	.753	.526	.030060	.763	.503	.005010	.772	.412	.050060	.780	.267	.062090		.488	.005010
.751	.435	.005010	.753	.527	.005010	.763	.660	.005010	.772	.671	.010020	.780	.306	.015030		.500	.030050
.751	.437	.005010	.753	.609	.025050	.764	.315	.050075	.773	.126	.005010	.780	.378	.005020		.513	.025040
.751	.438	.050070	.753	.627	.005015	.764	.528	.060080	.773	.238	.062080	.780	.380	.080105		.604	.005010
.751 .751	.440 .448	.050070 .050070	.753 .754	.629 .253	.005010 .005010	.764	.707	.005010	.773	.370	.060080	.780	.390	.080104		.630 .635	.060080 .050070
.751	.448 .455	.050070	.754 .754	.265	.005010	.765 .765	.117 .222	.040062 .030050	.773 .773	.480 .579	.015030 .090100	.780 .780	.391 .403	.080100 .005010		.635 .645	.050070
.751	.463	.050070	.754	.393	.005010	.765	.265	.100125	.773	.656	.020040	.780	.403	.030050		.646	.005020
.751	.470	.075090	.754	.428	.048062	.765	.285	.005010	.773	.677	.040050	.780	.420	.080080		.656	.048062
.751	.499	.005025	.754	.460	.105125	.765	.293	.040060	.773	.692	.005010	.780	.422	.015040		.480	.030050
.751	.500	.050070	.754	.469	.040060	.765	.312	.050062	.774	.251	.050070	.780	.425	.010020		.592	.015030
.751	.503	.005110	.754	.509	.030050	.765	.331	.025040	.774	.556	.050070	.780	.460	.030060		.599	.030050
.751	.504	.010080	.754	.532	.080105	.765	.348	.025035	.774	.605	.010020	.780	.484	.005010	.784	.601	.030050
.751	.505	.010105	.755	.222	.005010	.765	.406	.005010	.774	.634	.010020	.780	.498	.080104	.784	.612	.020030
.751	.506	.015025	.755	.281	.005010	.765	.508	.005010	.774	.705	.005010	.780	.500	.015030		.170	.042062
.751	.508	.020030	.755	.335	.170190	.765	.528	.050060	.775	.228	.050072	.780	.503	.006012		.238	.006010
.751	.513	.090120	.755	.347	.010020	.765	.533	.015030	.775	.229	.070090	.780	.510	.005030		.343	.005010
.751	.515	.025040	.755	.378	.010080	.765	.565	.010020	.775	.231	.042062	.780	.511	.030050		.357	.005010
.751	.516	.008060	.755	.385	.025042	.765	.625	.050070	.775	.252	.005010	.780	.520	.007015	.785	.392	.110130
.751	.521	.048060	.755	.393	.005010	.766	.505	.030050	.775	.324	.100125	.780	.527	.075090	.785	.406	.005010
.751	.524	.005010	.755	.513	.030040	.766	.518	.050070	.775	.335	.015030	.780	.529	.025040	.785	.417	.050070
.751	.563	.005040	.755	.520	.005010	.766	.535	.080100	.775	.368	.080090	.780	.552	.040060	.785	.450	.050070
.751 751	.594 .600	.010020	.755 755	.532 .533	.020040	.766 766	.557 585	.025040	.775 775	.379 428	.005012	.780 .780	.562 .566	.031048 .030050	.785 .785	.475 .482	.015050
.751	.000	.030050	.755	.555	.010020	.766	.585	.015030	.775	.428	.025040	.700	.500	.000000	.765	.402	.100125

			*With E	30KER'	'S precision	washers	VOU Ca	n choose th	e exact	thickne	ss vou want	trom the	e tool ra	nae listed.			

(31)

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED	BOKER'S METAL WASHERS ARE FLAT AND TOMBLE DEBURRED
Choose Any D. I.D. Thickness* O.D. I.D. Thickness*	Choose Any O.D. I.D. Thickness*
D. I.D. IIIICKIIESS C.D. I.D. IIIICKIIESS C.D. I.D. IIIICKIIESS C.D. I.D. IIIICKIIESS C.D. I.D. IIICKIIESS C.D. IIICKIIESS C.D. I.D. IIICKIIESS C.D. IICKIIESS C.D. IICK	O.D. I.D. Thickness*
. 512620632631641016025641016025020031032040032032032032032032033032033033034034035035032033034034034035	810 .564 .005015 .812 .577 .020040 .817 .750 .010020 .825 .483 .040060 .830 .649 .010020 .840 .556 .032040
.520 .090105 .030 .030 .030050 .790 .790 .550 .030042 .798 .656 .005 .010 .800 .645 .025 .040 .807 .117 .015030	810 .565 .025050 .812 .591 .020035 .812 .591 .020030 .818 .264 .030040 .825 .511 .005010 .830 .693 .020035 .840 .558 .005010
523 .005 - 200 .654 .040060 .607 .020 .798 .711 .010020 .807 .631 .005010 .790 .560 .020 .040 .798 .711 .010020 .800 .654 .040060 .608 .040060	810 .569 .020040 .812 .592 .005050 .818 .317 .030040 .825 .518 .070080 .830 .696 .005010 .840 .569 .005010
530 .030050 .659 .010020 .665 .040060 .790 .252 .005010 .807 .648 .025 .026 .040060 .799 .252 .005010	810 .600 .040060 .812 .596 .025040 .818 .321 .010020 .825 .525 .010020 .830 .711 .015030 .840 .575 .060070
	.810 .646 .005010 .812 .625 .015110 .818 .330 .005010 .825 .527 .090125 .831 .239 .005010 .840 .631 .030060
35 .556 .030 - 0.00 .672 .010 .672 .005 .787 .677 .010 - 0.020 .790 .623 .050 .050 .799 .397 .010 .020 .800 .672 .005 .010 .790 .397	810 .652 .005010 .812 .641 .015080 .818 .391 .125156 .825 .543 .015030 .831 .584 .015025 .840 .633 .007015
. 569 . 680 . 681 . 680 . 680 . 681 . 680 . 681 . 680 . 680 . 681 . 681 . 682 . 682 . 683 . 682 . 683 . 684 . 685	810 .675 .005010 .812 .647 .015020 .818 .432 .060080 .825 .577 .020040 .831 .649 .005010 .840 .643 .075090
594 .005 - 300 .677 .005 .010 .677 .005 .010 .787 .697 .005 .010 .790 .650 .030 .042 .799 .439 .005 .010 .807 .005 .010	810 .690 .010025 .840 .650 .046065 .040065 .040065 .041 .040065 .041 .041 .042 .042 .042 .042 .042 .042 .042 .042
	810 .703 .005010 .812 .655 .020030 .818 .549 .005010 .825 .632 .030040 .832 .520 .050070 .840 .674 .010020
35 .696 .010 - 200 .788 .128 .010020 .790 .728 .010 .790 .728 .010020 .799 .472 .030050 .800 .679 .005 .010 .807 .020	.810 .706 .025042 .812 .675 .020040 .818 .591 .090110 .825 .669 .020030 .832 .551 .005010 .840 .675 .015030
36 .157 .010 .807 .629 .020 .005 .010 .807 .680 .005 .790 .090 .791 .056 .015 .030 .799 .492 .080 .100 .800 .680 .005 .010 .807 .010	810 .723 .005010 .812 .687 .050050 .818 .644 .010020 .825 .709 .005010 .832 .574 .030050 .840 .676 .020035
36 .198 .015 - 300 .694 .020 307 .040 .695 .040 .020 .095 .006 .096 .096 .096 .096 .096 .096 .096	811 .116 .005015 .812 .697 .050060 .818 .690 .040060 .826 .250 .040050 .832 .595 .005010 .840 .680 .005010
36 .253 .070 .090 .701 .040 .000 .000 .701 .000 .701 .000 .701 .702 .701 .400 .010 .020 .709 .701 .000 .701 .000 .701 .000 .701 .000 .701 .000 .701 .000 .000	810 - 201 - 2
	811 .188 .040060 .813 .156 .040060 .819 .065 .025 .040 .826 .319 .065 .025 .040 .826 .319 .030050 .832 .751 .030040 .840 .711 .020040
	811 .201 .040060 .813 .162 .040060 .819 .174 .005010 .826 .359 .105125 .833 .607 .005010 .840 .731 .030050
	810 - 210 840 748 840 - 260 930 - 300 821 813 819 810 - 250 950 950 950 950 950 950 950 950 950 9
310 - 200 - 208 <u>. 288 . 228 . 319 . 332 . 380 - 310 . 382 . 319 .</u>	811 .322 .030050 .813 .204 .005010 .819 .260 .010020 .826 .414 .025040 .833 .770 .010020 .841 .440 .025040
	811 .333 .005010 .813 .272 .100134 .819 .531 .005010 .826 .434 .050070 .834 .093 .050070 .841 .631 .032
315 . 101 . 102 . 301 . 345 . 102 . 345 . 345 . 345 . 345 . 355 . 356 . 345 . 356 . 345 . 356 . 345 . 356 . 345 . 356 . 345 . 356 . 345 . 356 . 345 . 356 . 345 . 356 . 346 . 356 . 346 . 356 .	811 .342 .135187 .813 .318 .060080 .819 .675 .025040 .826 .536 .090105 .834 .462 .020040 .841 .651 .005010
36 .443 .100120 .788 .376 .005010 .792 .485 .025040 .799 .673 .005010 .801 .376 .015030 .808 .375 .105125	.811 .376 .040060 .813 .328 .005010 .819 .690 .020035 .826 .620 .030050 .834 .562 .005010 .841 .663 .015030
36 .416 .040060 .788 .394 .125156 .792 .517 .010020 .799 .674 .005010 .801 .376 .040060 .408 .394 .125156 .792 .517 .010020 .799 .674 .005010 .801 .376 .040060 .408 .418 .005010	811 393 .010020 813 350 .030050 819 .700 .040060 826 .660 .020040 834 .590 .030050 841 .752 .010020
36 .452 .010020 .788 .395 .005010 .792 .606 .005010 .799 .694 .005010 .801 .400 .025040 .005040	811 .403 .060070 .813 .380 .100125 .820 .090 .005010 .826 .711 .025040 .834 .596 .030050 .842 .378 .025042
36 .474 .005010 .788 .397 .005 .010 .792 .672 .010 .799 .701 .005010 .801 .439 .005 .010 .808 .474 .005010	811 .411 .010020 .813 .406 .030125 .820 .125 .015030 .827 .187 .010020 .834 .759 .010020 .842 .470 .050070
36 .477 .005010 .788 .403 .005030 .792 .695 .015030 .800 .076 .005 .010 .801 .490 .005010 .808 .478 .020040	811 .449 .100125 .813 .407 .100125 .820 .159 .105135 .827 .215 .005010 .835 .200 .020035 .842 .593 .080095
36 .484 .040050 .788 .414 .020040 .793 .256 .010020 <u>.800</u> .190 .020040 <u>.801</u> .502 .015025 <u>.808</u> .532 .005010	.811 .548 .070090 .813 .419 .005010 .820 .198 .005010 <u>.827</u> .236 .005010 <u>.835</u> .221 .005010 <u>.842</u> .631 .005008
36 .502 .010020 .788 .440 .005010 .793 .386 .050060 .800 .194 .050070 .801 .505 .005010 .808 .620 .015030	811 .553 .040060 .813 .431 .005010 .820 .221 .010020 .827 .238 .005010 .835 .390 .040060 .842 .632 .010020
36 .505 .005020	811 .566 .025050 .813 .435 .100125 .820 .280 .060075 .827 .317 .005125 .835 .441 .070090 .842 .690 .005010
36 .515 .010020 .788 .473 .010020 .793 .439 .060090 .800 .222 .065080 .801 .598 .015030 .808 .692 .030050	811 .567 .042062 .813 .441 .050070 .820 .310 .005010 .827 .318 .005010 .835 .480 .010020 .842 .729 .005010
36 .531 .020030 .788 .476 .030050 .793 .441 .020040 .800 .225 .040060 .801 .629 .040060 .809 .094 .030050	811 .568 .005010 .813 .450 .040060 .820 .315 .005010 .827 .328 .060080 .835 .506 .080100 .842 .764 .005010
36 .535 .005030 .788 .478 .030050 .793 .471 .025048 .800 .250 .020030 .801 .650 .010020 .809 .096 .015032	.811 .576 .026052 .813 .493 .005010 .820 .320 .040060 .827 .331 .120135 .835 .570 .005050 .843 .142 .010020
36 .556 .040000 .788 .483 .070009 .095 .005 .025 .025 .040 .800 .252 .008 .015 .801 .657 .005 .010 .809 .095 .015	811 .577 .025042 .813 .494 .020040 .820 .340 .005010 .827 .332 .156187 .835 .595 .010020 .843 .210 .040060
36 .572 .050070 .788 .487 .040060 .793 .575 .032050 .800 .253 .040060 .801 .674 .005010 .809 .157 .050070	811 .595 .035060 .813 .496 .010020 .820 .348 .005010 .827 .376 .005010 .835 .685 .030060 .843 .260 .005010
36 .594 .010020 .788 .488 .040050 .794 .257 .005010 .800 .254 .025 .040 .801 .696 .060070 .809	811 .623 .005010 813 .500 .050083 820 .380 .005010 827 .393 .005010 835 .753 .020040 843 .358 .005010
36 .598 .030050 .788 .505 .050 .050 .794 .285 .005010 .800 .256 .005 .010 .802 .257 .060080 .809 .257 .030050	811 630 .005010 813 .504 .105135 820 .392 .010020 827 .407 .090120 835 .782 .020030 843 .390 .070090
36 .626 .030050 .788 .512 .060090 .794 .420 .090110 <u>.800</u> .315 .010020 <u>.802</u> .261 <u>.040</u> 062 <u>.809</u> .288 .070090	.811 .656 .005010 .813 .510 .020040 .820 .395 .050075 <u>.827</u> .412 .005010 <u>.836</u> .416 .010020 <u>.843</u> .453 .102125
36 .631 .030 - 320 .346 .020 .305 .306 .300 .316 .005010 .802 .346 .020 .305 .306 .306 .306 .306 .306 .306 .306 .306	811 .658 .020030 .813 .562 .080 .810000 .820 .405 .135160 .827 .415 .060080 .836 .438 .005010 .843 .500 .005010
36 .680 .010020 .387 .050075 .809 .345 .005 .005 .010 .794 .552 .070 .090 .800 .320 .105125 .802 .387 .050050075 .809	812 .127 .025040 .813 .563 .005020 .820 .442 .025040 .827 .473 .005010 .836 .450 .040060 .843 .530 .040060
37 .129 .030050 .788 .555 .040060 .795 .116 .005010 .800 .327 .020040 .802 .408 .100110 .809 .377 .005010	812 .130 .015030 .813 .597 .020040 .820 .450 .012025 .827 .509 .050075 .836 .680 .005060 .843 .559 .050072
37 .141 .040 - 366 .080 .080 .080 .080 .080 .080 .080 .0	812 .136 .040060 .813 .631 .010020 .820 .453 .015025 .827 .632 .005010 .836 .705 .032060 .843 .630 .005010
37 .142 .030060 .788 .596 .030050 .795 .170 .090125 .800 .370 .005012 .802 .503 .005010 .809 .414 .070090	.812 .141 .005040 .813 .634 .060080 .820 .460 .030040 <u>.827 .749 .005010 .837 .506 .115130 .843 .656 .010020 .</u>
37 .161 .050070 .809 .697 .010015 .795 .175 .005010 .800 .377 .005010 .802 .516 .040060 .809 .475 .070090	812 .191 .020040 .813 .659 .035048 .820 .482 .070090 .828 .108 .005010 .837 .527 .040060 .843 .689 .035040
37 .188 .020040 .715 .005010 .705 .187 .030050 .800 .378 .005078 .802 .596 .005010 .705 .483 .032042	.812 .192 .005010 .813 .680 .005030 .820 .500 .005010 .828 .317 .010015 .837 .530 .048075 .843 .782 .020030
37 .203 .040060 .788 .716 .010020 .795 .197 .008016 .800 .379 .010020 .802 .611 .025040 .809 .504 .005010	.812 .219 .062075 .813 .728 .005010 .820 .536 .050070 .828 .407 .015030 .837 .591 .005010 .844 .099 .025040
37 .208 .070 - 300 .789 .114 .025040 .795 .267 .048062 .800 .380 .040060 .802 .802 .020030 .809 .508 .005010	812 .221 .080100 814 .412 .060080 820 .542 .005010 828 .447 .060080 837 .633 .025040 844 .397 .005010
37 .228 .052072	.812 .245 .020036 .814 .522 .040060 .820 .559 .050075 .828 .499 .005008 .837 .679 .025040 .844 .555 .010020
37 .238 .005010 .789 .255 .010020 .795 .340 .005012 .800 .397 .005010 .802 .704 .025040 .809 .601 .020040	812 253 .080 - 104 .814 .532 .090 - 105 .820 .564 .100125 .828 .502 .030040 .837 .783 .010020 .844 .578 .005010
37 .256 .010020 .789 .262 .040050 .795 .392 .010020 .800 .398 .005010 .802 .752 .005008 .809 .625 .005010	.812 .255 .005010 .814 .598 .050075 .820 .565 .100125 .828 .504 .005020 .838 .281 .032060 .844 .610 .030060
37 .257 .025060 .789 .312 .042060 .795 .427 .090105 .800 .411 .070090 .803 .261 .050075 .810 .057 .005010	.812 .269 .050070 .814 .628 .020030 .820 .566 .005010 .828 .530 .005010 .838 .290 .050075 .844 .666 .070090
37 .279 .005010 .789 .316 .005010 .795 .482 .030050 .800 .426 .105135 .803 .264 .010020 .810 .116 .015032	.812 .312 .040060 .814 .637 .042062 .820 .572 .105125 .828 .590 .015030 .838 .376 .015030 .844 .703 .005010
37 .315 .005020 .789 .327 .005010 .795 .509 .030060 .800 .437 .005010 .803 .345 .080105 .810 .142 .040060	812 314 .025042 .814 .641 .005010 .820 .591 .010020 .828 .655 .005010 .838 .482 .031048 .844 .711 .015030
37 .317 .005010 .789 .354 .060080 .795 .551 .010020 .800 .439 .030050 .803 .422 .015030 .810 .150 .040060	.812 .315 .015030 .814 .751 .020030 .820 .600 .005010 .828 .727 .005010 .838 .483 .050075 .844 .750 .020040
37 .318 .005010 .789 .438 .005010 .795 .577 .090105 .800 .440 .005010 .803 .517 .105125 .810 .166 .025040	.812 .375 .150180 .815 .129 .020040 .820 .678 .010020 .829 .137 .025048 .838 .508 .005010 .845 .163 .010020
37 .319 .005010 .789 .478 .050080 .795 .634 .005010 .800 .441 .010020 .803 .569 .005010 .810 .185 .005010	.812 .376 .156190 .815 .221 .020030 .820 .698 .005030 .829 .250 .030050 .838 .563 .040060 .845 .313 .015090
37 .324 .015030 .789 .498 .005010 .795 .655 .030040 .800 .443 .005020 .803 .715 .010025 .810 .192 .050062	.812 .378 .050083 .815 .255 .060075 .820 .726 .015025 .829 .283 .020030 .838 .618 .040060 .845 .466 .005010
37 .329 .005010 .789 .514 .005010 .795 .680 .005040 .800 .464 .040060 .804 .134 .050072 .810 .198 .030050 .372 .373 .355 .135156 .789 .543 .010020 .795 .730 .025035 .800 .490 .030050 .804 .191 .060080 .810 .210 .025042	.812 .379 .025032 .815 .260 .048062 .821 .144 .032048 .829 .414 .007090 .838 .651 .010020 .845 .482 .005010 .812 .390 .031060 .815 .281 .105120 .821 .157 .030040 .829 .430 .100125 .838 .665 .005010 .845 .495 .020030
37 .380 .015030 .789 .630 .010020 .795 .731 .030040 .800 .502 .005020 .804 .313 .005010 .810 .218 .100125 .37 .392 .005010 .790 .160 .015030 .796 .256 .052 .005010 .800 .504 .005030 .804 .330 .050072 .810 .250 .062078	812 .391 .080100 .815 .309 .005010 .821 .266 .010020 .829 .468 .100125 .838 .706 .015020 .845 .497 .015030 .812 .398 .015135 .815 .439 .025040 .821 .416 .100125 .829 .475 .080104 .838 .756 .005010 .845 .513 .015030
37 .395 .005010 .790 .175 .050070 .796 .286 .005010 .800 .505 .005010 .804 .330 .030072 .310 .255 .090125	.812 .401 .040060 .815 .444 .005012 .821 .596 .005030 .829 .480 .105135 .839 .316 .015030 .845 .651 .030050
37 .397 .005010 .790 .240 .010020 .796 .290 .025040 .800 .508 .005010 .804 .409 .100125 .010 .315 .020040	.812 .406 .075090 .815 .468 .025036 .821 .625 .005010 .829 .500 .005010 .839 .502 .005010 .845 .660 .010020
37 .398 .005020 .790 .250 .032042 .796 .353 .030040 .800 .510 .020040 .805 .312 .005010 .315 .025050	.812 .409 .050090 .815 .500 .015030 .821 .636 .060080 .829 .503 .025040 .839 .591 .010015 .845 .758 .005035
37 .399 .070080 .790 .288 .090110 .796 .397 .050070 .800 .528 .005010 .805 .564 .090110 .810 .379 .005090	.812 .410 .060070 .815 .527 .080104 .821 .727 .030048 .829 .648 .050070 .839 .628 .050070 .845 .782 .005010
37 .400 .040060 .790 .319 .005010 .796 .509 .040060 .800 .530 .030050 .805 .573 .060080 .810 .385 .080105	.812 .411 .105125 .815 .555 .030050 .822 .200 .020030 .829 .653 .030060 .839 .652 .005010 .846 .242 .032050
37 .410 .060080 .790 .320 .005010 .796 .520 .005012 .800 .544 .005010 .805 .632 .005010 .810 .395 .005010	.812 .436 .100125 .815 .556 .015025 .822 .523 .060080 .829 .761 .020030 .840 .165 .005010 .846 .273 .005010
37 .424 .005010 .790 .341 .020040 .796 .521 .030060 .800 .550 .060075 .805 .656 .005010 .810 .405 .060080	.812 .437 .015030 .815 .578 .080100 .822 .693 .050070 .830 .160 .060090 .840 .246 .104125 .846 .320 .015030
37 .433 .010020 .790 .350 .025048 .796 .525 .010020 .800 .551 .005010 .805 .672 .005010 .810 .413 .005012	.812 .441 .032048 .815 .669 .025040 .823 .407 .005010 .830 .187 .020040 .840 .292 .020040 .846 .327 .005010
37 .453 .005010 .790 .375 .015030 .796 .579 .040060 .800 .557 .005010 .805 .692 .010020 .810 .419 .062078	.812 .442 .062075 .816 .439 .015030 .823 .523 .070090 .830 .379 .005035 .840 .310 .060080 .846 .455 .030060
37 .472 .030050 .790 .377 .020040 .796 .602 .025040 .800 .558 .005015 .806 .209 .005010 .810 .443 .005010	.812 .456 .104125 .816 .456 .070090 .823 .755 .005020 .830 .405 .040060 .840 .313 .105125 .846 .456 .035050
37 .473 .005010 .790 .378 .040050 .796 .610 .005070 .800 .560 .070090 .806 .262 .040060 .455 .060093	.812 .469 .030050 .816 .510 .005012 .823 .756 .005010 .830 .461 .015030 .840 .316 .015030 .846 .630 .005010
37 .475 .010020 .790 .383 .075090 .796 .630 .030040 .800 .574 .050060 .806 .300 .005010 .810 .475 .025042	.812 .473 .015020 .816 .520 .015025 .824 .321 .005010 .830 .475 .025040 .840 .340 .010025 .846 .639 .005040
37 .477 .050070 .790 .423 .025040 .797 .349 .005010 .800 .575 .025040 .806 .350 .005010 .810 .480 .005010	.812 .501 .005020 .817 .319 .060083 .824 .333 .005010 .830 .515 .005010 .840 .384 .010025 .846 .658 .032050
37 .480 .020030 .790 .438 .020040 .797 .413 .005010 .800 .582 .005010 .806 .378 .060083 .810 .501 .080100	.812 .506 .060080 .817 .321 .015030 .824 .508 .050070 .830 .530 .090120 .840 .387 .015030 .846 .662 .010020
37 .490 .120130 .790 .440 .010020 .797 .561 .020040 .800 .594 .005010 .806 .407 .030050 .810 .507 .010025	.812 .508 .015025 .817 .411 .040060 .824 .543 .025040 .830 .556 .010025 .840 .390 .005010 .846 .663 .030060
37 .525 .005010 .790 .441 .020040 .797 .691 .025040 .800 .618 .005010 .806 .469 .030050 .514 .080125	.812 .509 .050075 .817 .455 .060090 .824 .605 .042062 .830 .564 .100125 .840 .470 .060083 .846 .670 .040060
37 .530 .030050 .790 .450 .030042 .798 .312 .010025 .800 .619 .005010 .806 .631 .020040 .810 .522 .040060	.812 .515 .042060 .817 .505 .050070 .825 .238 .005010 .830 .565 .030050 .840 .499 .005010 .846 .697 .015030
37 .547 .005010 .790 .452 .030060 .798 .351 .010020 .800 .623 .050075 .806 .636 .005010 .810 .533 .025050	.812 .517 .030040 .817 .631 .005010 .825 .317 .005010 .830 .590 .070090 .840 .503 .005010 .846 .757 .005010
37 .551 .005030 .790 .467 .030050 .798 .378 .005010 .800 .626 .005010 .806 .641 .060083 .810 .543 .020040	.812 .524 .050070 .817 .660 .005010 .825 .319 .005020 .830 .605 .025040 .840 .510 .005010 .847 .193 .090105
37 .556 .005010 .790 .478 .025045 .798 .487 .005010 .800 .628 .025080 .806 .650 .050070 .810 .545 .020040	.812 .530 .032042 .817 .661 .005010 .825 .399 .005010 .830 .628 .025040 .840 .515 .025040 .847 .253 .005010
37 .577 .005010 .790 .500 .050072 .798 .578 .005090 .800 .631 .010020 .806 .671 .005010 .800 .551 .005010	.812 .540 .010020 .817 .690 .012020 .825 .400 .015030 .830 .632 .025040 .840 .535 .005010 .847 .323 .005010
37 .603 .005010 .790 .511 .125135 .798 .624 .070090 .800 .639 .005010 .806 .991 .020040 .810 .561 .120140	.812 .561 .005030 .817 .711 .005010 .825 .414 .105125 .830 .636 .015030 .840 .545 .100135 .847 .416 .005010

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								DOILLI	O IVIL	IAL	WASHER			AND I		E DEI	BURKEI
O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*
		From To			From To			Thickness*			From To			From To			Thickness*
.870	.557	.005010	.873	.307	.007016	.875	.150	.005010	.875	.475	.025040	.876	.514	.030050		.826	.005010
.870	.562	.005060	.873	.312	.030050	.875	.153	.040060	.875	.481	.120135	.876	.515	.080104		.125	.050060
.870 .870	.567 .578	.090105 .040060	.873	.361	.105125	.875	.158	.005010	.875	.486	.020040	.876	.516	.125156		.172 .250	.090120 .025040
370 370	.580	.010020	.873 .873	.365	.005010	.875 .875	.161	.040060	.875	.500	.040090	.876	.519	.060083		.230	.02304
370	.581	.042060	.873	.378 .381	.040060	.875	.168 .172	.072120 .048062	.875 .875	.501	.005030	.876 .876	.520 .522	.050070		.376	.01002
370	.608	.030060	.873	.387	.015025	.875	.172	.040060	.875	.502 .504	.015030 .030125	.876	.533	.100125 .110130		.399	.05002
370	.610	.005012	.873	.388	.005010	.875	.180	.062075	.875	.505	.005042	.876	.551	.100120		.431	.05007
70	.625	.015030	.873	.405	.015030	.875	.184	.020040	.875	.506	.090125	.876	.563	.005010		.515	.02504
370	.628	.025040	.873	.410	.105135	.875	.187	.090105	.875	.507	.030125	.876	.565	.020040		.516	.04006
370	.629	.005010	.873	.412	.005010	.875	.190	.105125	.875	.513	.032135	.876	.591	.050070		.593	.05007
370	.632	.010050	.873	.436	.050075	.875	.192	.025042	.875	.516	.060080	.876	.600	.060075		.635	.05007
870	.639	.005010	.873	.440	.105135	.875	.196	.020040	.875	.517	.005010	.876	.616	.048062		.636	.01503
870	.640	.030060	.873	.467	.015030	.875	.196	.050075	.875	.518	.090110	.876	.622	.040060		.165	.05007
870	.647	.005010	.873	.470	.030050	.875	.199	.050070	.875	.527	.032048	.876	.625	.005010	.880	.170	.11013
870	.649	.015030	.873	.503	.015070	.875	.203	.062090	.875	.530	.015030	.876	.626	.050075	.880	.192	.01503
870	.650	.040060	.873	.522	.020040	.875	.204	.040060	.875	.531	.105125	.876	.632	.030050	.880	.219	.03205
870	.682	.015075	.873	.532	.170190	.875	.226	.005010	.875	.537	.005010	.876	.633	.062080	.880	.260	.00518
370	.687	.050062	.873	.546	.050070	.875	.236	.005060	.875	.562	.050072	.876	.672	.090105	.880	.265	.00501
870	.691	.005010	.873	.582	.100125	.875	.246	.040060	.875	.563	.005105	.876	.675	.030040	.880	.302	.00501
870	.695	.005010	.873	.599	.075090	.875	.250	.005050	.875	.567	.005090	.876	.681	.060080	.880	.324	.05007
870	.711	.025040	.873	.604	.025040	.875	.252	.010020	.875	.568	.020048	.876	.692	.020030		.333	.04206
870	.728	.005010	.873	.627	.030060	.875	.253	.050075	.875	.579	.050060	.876	.694	.020040		.340	.16019
870	.738	.005010	.873	.628	.105125	.875	.257	.070130	.875	.580	.015030	.876	.702	.010020		.357	.00501
370	.744	.005010	.873	.630	.005050	.875	.260	.030040	.875	.600	.090105	.876	.714	.030050		.375	.06008
870	.754	.005012	.873	.632	.005015	.875	.267	.090134	.875	.610	.025040	.876	.745	.025040		.376	.02506
370	.755	.042062	.873	.780	.025040	.875	.268	.005010	.875	.611	.050070	.876	.750	.030040		.380	.00508
370	.761	.020030	.874	.200	.042080	.875	.281	.005010	.875	.621	.060080	.876	.751	.015030		.381	.00501
870 871	.810 .211	.015025 .050070	.874 .874	.203	.040060 .030050	.875	.282	.030050	.875	.626	.050070	.877	.128	.060080		.386 .406	.07009
871	.381	.030070	.874	.243	.030030	.875	.315	.100134	.875	.628	.005060	.877	.170	.035060		.407	.08000
871	.383	.060070	.874	.266	.005010	.875 .875	.318 .320	.090110	.875 .875	.630 .631	.050070 .015030	.877 .877	.173	.100125		.426	.00501
871	.410	.030050	.874	.312	.025040	.875	.320	.070020	.875	.632	.100125	.877	.250 .254	.030050 .100125		.430	.00501
871	.455	.005010	.874	.316	.005010	.875	.324	.030040	.875	.635	.005010	.877	.234	.010015		.455	.00501
871	.477	.060090	.874	.329	.060083	.875	.325	.050072	.875	.637	.010104	.877	.313	.010013		.485	.05006
871	.579	.010020	.874	.330	.025040	.875	.327	.090125	.875	.650	.100125	.877	.329	.020030		.495	.00501
871	.581	.070090	.874	.375	.060187	.875	.328	.005010	.875	.652	.031048	.877	.377	.012020		.505	.01502
871	.582	.005010	.874	.376	.020040	.875	.330	.080104	.875	.654	.075100	.877	.389	.134187	.880	.518	.04006
871	.590	.005010	.874	.377	.015080	.875	.337	.050072	.875	.660	.062078	.877	.407	.170190		.523	.00501
871	.673	.010020	.874	.381	.005010	.875	.340	.005010	.875	.666	.040060	.877	.442	.070080		.530	.03004
871	.675	.015030	.874	.384	.008016	.875	.343	.016025	.875	.670	.005010	.877	.494	.072083	.880	.541	.02503
871	.752	.005010	.874	.392	.015030	.875	.345	.110130	.875	.674	.010020	.877	.498	.050075	.880	.557	.00501
871	.757	.010020	.874	.398	.125156	.875	.347	.042062	.875	.687	.050080	.877	.507	.060080	.880	.604	.00501
871	.771	.025040	.874	.410	.080100	.875	.354	.005010	.875	.690	.075090	.877	.593	.080100		.621	.02006
.872	.153	.040060	.874	.420	.005010	.875	.362	.012020	.875	.691	.040060	.877	.643	.025042		.626	.06207
872	.189	.005015	.874	.439	.105125	.875	.367	.005010	.875	.693	.030050	.877	.693	.030050		.659	.07008
.872	.219	.060083	.874	.446	.105125	.875	.375	.100125	.875	.698	.005010	.877	.694	.070090		.681	.00501
872	.221	.080100	.874	.501	.105125	.875	.376	.005010	.875	.719	.005080	.877	.755	.042062		.688	.03005
.872	.254	.010020	.874	.502	.105125	.875	.377	.010020	.875	.724	.010020	.877	.836	.005010		.690	.06007
872 872	.261 .267	.005010 .030050	.874 .874	.505 .508	.050070 .040060	.875	.378	.020030	.875	.735	.050070	.878	.125	.020040		.711 .201	.02504 .00501
872	.269	.032042	.874	.509	.010020	.875 .875	.380 .382	.105134 .015030	.875	.746	.010020	.878	.187	.020040		.203	.00501
872	.306	.020030	.874	.510	.075090	.875	.383	.150180	.875 .875	.750 .751	.030050 .005015	.878	.219	.015040		.257	.06008
872	.320	.042062	.874	.512	.060080	.875	.384	.008016	.875	.755	.010020	.878 .878	.229 .264	.040060 .060083		.548	.03005
872	.334	.010050	.874	.513	.015030	.875	.389	.040060	.875	.756	.025040	.878	.282	.000003		.661	.00501
872	.376	.010020	.874	.514	.005010	.875	.390	.060075	.875	.760	.020040	.878	.285	.090120		.681	.01001
872	.386	.010020	.874	.526	.050070	.875	.391	.040060	.876	.067	.015030	.878	.376	.025040		.732	.02003
872	.388	.010020	.874	.533	.030060	.875	.393	.005010	.876	.093	.020040	.878	.387	.020062		.300	.00501
872	.394	.005025	.874	.535	.032048	.875	.395	.090125	.876	.102	.020040	.878	.402	.060075		.323	.0050
872	.397	.040060	.874	.540	.030050	.875	.396	.010020	.876	.127	.060080	.878	.406	.025040		.325	.00501
.872	.399	.005010	.874	.579	.015030	.875	.397	.050070	.876	.130	.005010	.878	.437	.020040		.500	.15018
872	.402	.010020	.874	.601	.070090	.875	.399	.005010	.876	.164	.005010	.878	.446	.050075		.518	.11013
.872	.475	.060083	.874	.603	.005010	.875	.405	.100120	.876	.173	.050070	.878	.473	.135156	.882	.522	.02004
.872	.476	.055085	.874	.621	.005010	.875	.406	.050060	.876	.282	.040187	.878	.478	.010020	.882	.540	.0901
872	.562	.075090	.874	.624	.020040	.875	.412	.100125	.876	.284	.040060	.878	.501	.020040	.882	.642	.04006
.872	.593	.075104	.874	.625	.015025	.875	.413	.005015	.876	.287	.100125	.878	.516	.100125		.664	.0050
.872	.605	.005010	.874	.627	.030050	.875	.415	.060083	.876	.288	.005010	.878	.518	.100125		.788	.01503
.872	.626	.005010	.874	.645	.030050	.875	.430	.005030	.876	.317	.030050	.878	.523	.100125		.315	.01002
872	.687	.005010	.874	.658	.005010	.875	.436	.060080	.876	.328	.005187	.878	.531	.020040		.500	.05007
872	.725	.040060	.874	.660	.010020	.875	.437	.050080	.876	.340	.160190	.878	.562	.025040		.509	.03009
.872	.728	.005010	.874	.688	.015030	.875	.438	.010020		.343	.025040	.878	.570	.005012		.560	.05007
.872	.754	.005010	.874	.721	.010020	.875	.439	.005010	.876	.350	.015025	.878	.585	.005010		.622	.0500
.872	.755	.005025	.874	.751	.020030	.875	.440	.015125	.876	.377	.005010	.878	.593	.025050		.777	.0100
.872	.760	.005010	.875	.070	.005010	.875	.448	.030050	.876	.378	.090105	.878	.627	.020030		.788	.0050
.872	.807	.010015	.875	.086	.005010	.875	.451	.005010		.397	.030050	.878	.628	.005010		.411	.0050
873	.140	.048062	.875	.087	.020040	.875	.452	.005010		.461	.005010	.878	.632	.040060		.510	.0150
.873	.153	.050075	.875	.111	.020040	.875	.453	.025080		.471	.040062	.878	.648	.005010	.885	.150	.02004
070	.194	.070090	.875	.129	.020040	.875	.456	.090125		.500	.005010	.878	.660	.015030	.885	.212	.01002
	105		.875	.133	.032042	.875	.465	.080100		.503	.005010	.878	.689	.020040	.885	.325	.00501
.873 .873 .873	.195 .224	.005010 .020040	.875	.140	.015030	.875	.473	.100125	.876	.506	.090120	.878	.742	.005010	.885	.396	.00501

									NO	1001	LING CH	ANGE	FUR	ANI	OF	INE	SIZES	LISTEL
O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose A Thickness	3*	O.D.	I.D.	Choose Any Thickness* From To
.847	.422	From To .005010	.850	.756	From To .020030	.857	.409	From To .005010	.861	.620	.060080	966	226	.005	To	.867	.710	.010030
.847	.500	.005010	.850	.809	.010020	.857	.555	.015025	.861	.636	.005010	.866 .866	.236 .239	.030		.867	.724	.040060
.847	.522	.005010	.851	.093	.005010	.857	.640	.025040	.861	.638	.050070	.866	.242	.005		.867	.753	.005010
.847	.536	.005010	.851	.164	.050070	.857	.665	.010020	.861	.689	.030050	.866	.276	.030		.867	.760	.015030
.848	.067	.010020	.851	.173	.005010	.857	.692	.030050	.861	.749	.015020	.866	.299	.005	.020	.867	.770	.030050
.848	.199	.025040	.851	.184	.040090	.858	.352	.100125	.861	.763	.005010	.866	.302	.060	.080	.867	.794	.005010
.848	.317	.005010	.851	.185	.060090	.858	.564	.030060	.862	.256	.050072	.866	.315	.005		.868	.237	.005010
.848 .848	.323 .472	.005020	.851	.384 .385	.104134	.858	.596	.030050	.862	.295	.040070	.866	.316	.005		.868	.238	.005010
.848	.492	.050070	.851 .851	.401	.010020	.858 .858	.619 .626	.050070 .005010	.862 .862	.312 .407	.025042 .015025	.866 .866	.317 .318	.005 .005		.868 .868	.315 .317	.015060 .005010
.848	.505	.005010	.851	.421	.105120	.858	.630	.005010	.862	.427	.020030	.866	.322	.005		.868	.442	.005010
.848	.510	.010020	.851	.450	.030050	.858	.649	.030050	.862	.472	.050060	.866	.325	.090		.868	.462	.030050
.848	.540	.005010	.851	.503	.005010	.858	.650	.008020	.862	.518	.090125	.866	.336	.070		.868	.473	.005010
.848	.610	.010020	.851	.513	.040060	.858	.653	.025040	.862	.529	.050075	.866	.350	.025	.040	.868	.477	.005010
.848	.685	.032062	.851	.564	.030050	.858	.720	.030050	.862	.538	.015030	.866	.355	.005		.868	.513	.015025
.848	.750	.010020	.851	.571	.005010	.858	.725	.040060	.862	.572	.060075	.866	.394	.005		.868	.521	.100134
.849	.151	.030060 .050075	.851	.633	.005010	.858	.773	.010020	.862	.680	.020032	.866	.395	.010		.868	.527	.010020
.849 .849	.386 .401	.040060	.851 .851	.640 .655	.005010 .005010	.859 .859	.064 .171	.030050 .010020	.862 .862	.692 .751	.020030 .030050	.866	.396	.005		.868 .868	.563 .606	.080100 .015030
.849	.413	.005010	.851	.671	.040060	.859	.265	.075090	.863	.139	.030050	.866 .866	.397 .401	.005 .105		.868	.607	.015030
.849	.497	.005010	.852	.187	.040060	.859	.380	.005015	.863	.272	.062078	.866	.416	.005		.868	.610	.090125
849	.520	.005010	.852	.257	.062090	.859	.439	.020030	.863	.375	.025040	.866	.439	.005		.868	.620	.005010
.849	.606	.005010	.852	.409	.005020	.859	.450	.005020	.863	.422	.090120	.866	.444	.005		.868	.627	.080105
849	.631	.010020	.852	.503	.020030	.859	.454	.015030	.863	.505	.005010	.866	.453	.030		.868	.641	.040060
850	.155	.005010	.852	.528	.015030	.859	.489	.020030	.863	.531	.005050	.866	.473	.005		.868	.664	.060080
850	.174	.025040	.852	.534	.015025	.859	.508	.025050	.863	.540	.015030	.866	.474	.005		.868	.665	.010030
850 850	.175	.050070	.852	.543	.025040	.859	.515	.032042	.863	.626	.090120	.866	.475	.010		.868	.687	.005010 .005010
850	.180 .200	.120135	.852 .852	.628 .685	.020040 .020062	.859 .859	.606 .628	.060080	.863 .863	.679 .680	.040062 .005008	.866 .866	.484 .496	.070 .100		.868 .868	.689 .719	.005010
850	.240	.048072	.853	.266	.030060	.859	.629	.020030	.863	.682	.010020	.866	.500	.010		.868	.736	.010020
850	.250	.015030	.853	.357	.005010	.859	.646	.020040	.863	.687	.015020	.866	.531	.025		.868	.751	.010020
850	.251	.120140	.853	.401	.040060	.859	.650	.030070	.863	.688	.005010	.866	.543	.030		.868	.760	.025040
850	.252	.005010	.853	.408	.050070	.859	.671	.040060	.863	.759	.015050	.866	.545	.020		.869	.279	.105135
850	.283	.005010	.853	.438	.016025	.859	.675	.030050	.864	.208	.005010	.866	.562	.015	.030	.869	.393	.020035
850	.301	.015030	.853	.467	.010020	.859	.705	.005010	.864	.316	.005010	.866	.568	.040	.060	.869	.430	.125187
850	.302	.105125	.853	.628	.040060	.859	.779	.005010	.864	.368	.005010	.866	.591	.030		.869	.508	.050070
850	.316	.090105	.853	.632	.005010	.860	.036	.032042	.864	.430	.040060	.866	.592	.005		.869	.539	.010020
850 850	.319 .330	.060080 .020040	.853 .853	.726 .750	.030050	.860	.171 .192	.015030	.864	.505	.015025	.866	.626	.040		.869 .869	.575 .628	.005010 .020080
850	.340	.020040	.854	.750	.005010	.860 .860	.192	.090125 .030040	.864 .864	.536 .551	.080104 .005010	.866 .866	.627 .631	.025 .010		.869	.667	.020030
850	.350	.080104	.854	.329	.050075	.860	.252	.015030	.864	.569	.010020	.866	.637	.015		.870	.125	.005015
350	.351	.030050	.854	.352	.100125	.860	.261	.010030	.864	.595	.005008	.866	.638	.060		.870	.170	.025040
350	.356	.010020	.854	.578	.010020	.860	.265	.075090	.864	.620	.010020	.866	.642	.005		.870	.184	.040062
350	.374	.005010	.854	.583	.030050	.860	.275	.030050	.864	.628	.050070	.866	.643	.005	.010	.870	.186	.005010
350	.377	.005020	.854	.605	.005010	.860	.314	.075090	.864	.633	.005010	.866	.647	.015		.870	.196	.005015
350	.378	.005010	.854	.650	.005010	.860	.321	.062090	.864	.639	.042062	.866	.670	.005		.870	.202	.005010
850 850	.380	.030040	.854	.655	.005010	.860	.324	.060080	.864	.781	.010020	.866	.697	.015		.870	.239	.005010
850 850	.382 .384	.005125 .100125	.854 .855	.808 .078	.015020 .005010	.860	.338	.005010	.865	.205	.005010	.866	.709	.040		.870 .870	.248 .264	.040060 .100125
850	.433	.005010	.855	.130	.060080	.860 .860	.340 .384	.020030 .005015	.865 .865	.260 .351	.020040 .020030	.866 .866	.719	.015 .015		.870	.280	.120150
850	.495	.015025	.855	.229	.050075	.860	.428	.100125	.865	.398	.020040	.866	.750 .756	.005		.870	.307	.010030
850	.500	.015025	.855	.242	.020040	.860	.439	.020035	.865	.412	.060080	.866	.758	.010		.870		.013028
350	.502	.005010	.855	.327	.048072	.860	.458	.010020	.865	.421	.040060	.866	.806	.005		.870		.015025
850	.503	.005010	.855	.331	.030050	.860	.488	.010020	.865	.434	.005010	.866	.814	.005		.870		.012020
850	.506	.020040	.855	.375	.005062	.860	.496	.005010	.865	.471	.005010	.867	.129	.020	.040	.870	.318	.080100
350	.509	.005135	.855	.376	.070090	.860	.512	.005010	.865	.476	.020040	.867	.264	.070		.870	.320	.040060
350	.510	.005012	.855	.503	.010080	.860	.540	.040060	.865	.477	.005010	.867	.336	.090		.870		.025040
850 850	.513	.005060	.855	.509	.070080 .005010	.860	.562	.015030	.865	.479	.070090	.867	.360	.020		.870	.352	.005010
850 850	.523 .535	.040060	.855 .855	.512 .531	.010010	.860 .860	.563 .592	.005015 .005010	.865	.492	.036060	.867	.370	.025		.870 .870	.354 .381	.060080 .090120
850 850	.566	.005010	.855	.562	.005010	.860	.600	.005010	.865 .865	.493 .551	.010020 .080100	.867 .867	.381 .387	.030		.870	.387	.135187
850	.574	.060080	.855	.598	.005010	.860	.602	.010020	.865	.553	.010020	.867	.394	.010		.870	.393	.050070
850	.585	.010020	.855	.599	.105135	.860	.625	.050070	.865	.566	.005010	.867	.398	.005		.870		.070080
350	.595	.090105	.855	.651	.050062	.860	.629	.030050	.865	.570	.030040	.867	.405	.090		.870	.421	.040060
350	.600	.010020	.855	.691	.050070	.860	.634	.020030	.865	.597	.042062	.867	.413	.005		.870	.437	.060080
850	.612	.005010	.856	.088	.010020	.860	.645	.040060	.865	.626	.040060	.867	.452	.005		.870	.440	.156187
850	.620	.005010	.856	.123	.005010	.860	.676	.005030	.865	.630	.005010	.867	.474	.090	.110	.870	.450	.090120
850	.625	.060080	.856	.265	.048062	.860	.691	.005010	.865	.634	.005070	.867	.477	.015		.870		.010020
850 850	.627	.005010	.856	.286	.050070	.860	.698	.030050	.865	.635	.005010	.867	.560	.040		.870	.461	.040060
850 850	.630	.015020	.856	.380	.010020	.860	.705	.005050	.865	.650	.020030	.867	.566	.005		.870	.472	.005010
850 850	.635 .650	.015030 .070080	.856	.443	.020040	.860	.711	.025040	.865	.672	.010015	.867	.593	.015		.870 870	.478 .502	.010020 .030040
.850 .850	.653	.070080	.856 .856	.616 .628	.025040 .060080	.860 .860	.742 .750	.030050 .005010	.865	.698	.005010	.867 867	.608	.080		.870 .870	.502 .505	.040075
850	.664	.015030	.856 .856	.628 .640	.015030	.860	.750 .757	.005010	.865 .865	.714 .715	.005010 .032042	.867 .867	.632 .638	.025 .012		.870 .870	.505	.040075
850	.673	.015030	.856	.650	.010020	.860	.767	.005010	.865	.740	.032042	.867	.644	.080		.870	.508	.105135
850	.706	.005010	.856	.671	.010020	.860	.778	.005010	.865	.755	.032050	.867	.670	.015		.870	.512	.005010
850	.711	.015030	.856	.688	.005010	.860	.785	.010020	.865	.756	.005010	.867	.688	.005		.870	.520	.075090
850	.731	.020040	.856	.689	.030050	.861	.499	.030050	.865	.794	.005010	.867	.690	.010		.870	.540	.005010
.000		.005030	.856	.734	.010020	.861	.527	.040060	.866	.157	.020030	.867	.704	.025	.040	.870	.541	.105125
.850 .850	.735 .750	.010020	.857	.312	.005010	.861	.601	.030050	.866	.197	.080100	.867	.709	.0050		.870	.551	.050070

	THE	O.D. I.D. Choose Any Thickness' From To O.D. I														IMRL	E DEF						
D. Choose Any Thickness*	O.D.	I.D.	Thickness*			O.D.	I.D.	Thickness*	O.D.	I.D.	Thickness*	O.D.	I.D.	Thickness*	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Thickness*	O.D.	I.D.	Choose Any Thickness* From To
.540 .060080		.157	.005010			.925	.474	.050070	.932	.335	.050070	.936		.105135	.938	.458	.005010	.940	.701	.015030		.240	.005010
.560 .110130		.163 .200	.032060 .005010			.925 .925	.516 .526	.025040 .015030	.932 .932	.465 .469	.090110	.936 .936	.650 .660	.050070	.938 .938	.505	.030050	.940	.704	.083105	.945 .945	.249 .282	.060125 .040060
.590 .005010 .638 .010020		.230	.025040			.925	.575	.070090	.932	.563	.005012	.936	.687	.052084	.938	.507 .521	.005010	.940 .940	.710 .721	.030050 .040060	.945	.314	.005010
.650 .005015		.253	.005075			.925	.576	.050075	.932	.676	.015030	.936	.718	.020040	.938	.532	.105125	.940	.730	.015030	.945	.315	.010020
.667 .030050	.920	.265	.040060	.060		.925	.577	.050075	.932	.749	.050070	.937	.080	.020035	.938	.550	.005010	.940	.752	.005010	.945	.317	.005070
.703 .030040		.269	.135187			.925	.611	.010020	.932	.775	.005010	.937	.092	.050070	.938	.562	.030050	.940	.766	.050075	.945	.322	.010020
.750 .010020		.316	.080100			.925	.661	.025040	.932	.869	.005020	.937	.110	.050070	.938	.563	.015030	.940	.776	.005010	.945	.331	.070090
.811 .020040 .820 .005010		.318 .378	.005010			.925 .925	.672 .690	.040060 .010020	.932 .933	.870 .197	.010020 .010020	.937 .937	.174 .257	.062080 .032048	.938 .938	.570 .595	.070090 .005010	.940 .940	.788 .830	.020030 .005012	.945 .945	.345 .378	.020040 .050070
.256 .080100		.456	.010030			.925	.719	.005010	.933	.415	.010020	.937	.275	.032040	.938	.596	.005010	.941	.119	.030060		.389	.050075
.416 .062090		.470	.105125			.925	.725	.010020	.933	.508	.032060	.937	.292	.025040	.938	.636	.030050	.941	.150	.060070	.945	.393	.030050
.471 .030050		.499	.050070			.925	.756	.010020	.933	.624	.025040	.937	.315	.080100	.938	.637	.080104	.941	.256	.130150	.945	.394	.010020
.564 .030050		.504	.005010			.925	.800	.012025	.933	.688	.005010	.937	.319	.025040	.938	.690	.040060	.941	.257	.010020	.945	.411	.005010
.568 .005010		.505 .525	.090110			.925 .925	.817 .834	.010020	.933	.726 .775	.005010	.937	.324	.030060	.938	.721	.020040	.941	.260	.050070	.945 .945	.434	.156187 .156187
615 .005010 710 .030048		.550	.005010			.926	.162	.050070	.933	.836	.010020	.937 .937	.330 .341	.156187 .050075	.938 .938	.730 .752	.070090 .015090	.941 .941	.459 .484	.020030 .005010	.945	.454	.156187
780 .005010		.564	.015030			.926	.399	.080105	.934	.094	.005010	.937	.350	.020030	.938	.760	.005010	.941	.500	.040060	.945	.472	.005010
815 .005010		.584	.005010	.010		.926	.438	.045060	.934	.190	.010020	.937	.375	.010020	.938	.761	.015030	.941	.532	.030050	.945	.474	.010020
176 .005010		.590	.005010			.926	.670	.010020	.934	.414	.025040	.937	.381	.025040	.938	.766	.020030	.941	.555	.005012	.945	.477	.005010
549 .070105		.608	.005010			.926	.689	.015030	.934	.508	.020040	.937	.390	.005010	.938	.770	.030050	.941	.566	.020040	.945	.484	.050075
563 .010020		.618	.005010			.926	.724 171	.015030	.934	.513	.005010	.937	.399	.156187	.938	.784	.015030	.941	.632	.030060	.945	.502 511	.005010
596 .005010 636 .060070		.628 .629	.030050 .010020			.927 .927	.171 .264	.100125	.934 .934	.563 .743	.048078 .020040	.937 .937	.410 .431	.015030 .050075	.938 .939	.831 .040	.005010	.941 .941	.675 .717	.005010 .050070	.945 .945	.511 .512	.080100
636 .060070 656 .105120		.630	.010020			.927	.397	.005010	.934	.753	.020040	.937	.437	.156187	.939	.126	.020030	.941	.717	.006012		.512	.180190
683 .015030		.687	.020040			.927	.476	.090110	.934	.754	.005020	.937	.440	.020040	.939	.189	.105135	.941	.816	.028040		.519	.040110
805 .005010		.690	.090105	.105		.927	.512	.008016	.934	.757	.030050	.937	.444	.005008	.939	.195	.105125	.941	.821	.010020	.945	.554	.010020
493 .015030		.705	.005010			.927	.627	.005010	.934	.770	.040060	.937	.460	.025040	.939	.218	.100125	.941	.880	.020030	.945	.607	.005010
507 .020030		.720	.040060			.927	.647	.042060	.934	.797	.005010	.937	.480	.015030	.939	.376	.105125	.942	.171	.025040	.945	.610	.060080
510 .020040 665 .080100		.778 .819	.030050			.927	.689 .691	.010020 .020040	.935 .935	.152 .216	.040060	.937 .937	.487 .500	.005010	.939 .939	.442 .457	.005030	.942 .942	.256 .407	.005010 .005010	.945 .945	.627 .669	.032042
347 .005010		.853	.010020			.927	.819	.005010	.935	.273	.010020	.937	.510	.020110	.939	.496	.005010	.942	.455	.030010	.945	.671	.005010
521 .005010		.314	.078090			.928	.084	.050062	.935	.310	.050083	.937	.515	.030050	.939	.560	.080104	.942	.475	.030050	.945	.673	.015030
96 .025040		.402	.005010	.010		.928	.087	.050060	.935	.318	.005010	.937	.517	.105125	.939	.563	.005010	.942	.484	.010020	.945	.686	.06010
50 .015030		.445	.005010			.928	.153	.060080	.935	.321	.005010	.937	.518	.005010	.939	.610	.040060	.942	.504	.030050	.945	.708	.06008
350 .040060		.490	.025040			.928	.383	.005015	.935	.439	.020050	.937	.520	.020125	.939	.628	.015030	.942	.508	.090120	.945	.710	.03005
46 .015025		.508	.010020			.928 .928	.552 .678	.080100	.935	.455	.100125	.937	.570	.005010	.939	.630	.020040	.942	.515	.015035	.945	.714 .719	.06008
148 .005010 509 .050070		.531 .587	.025040			.929	.260	.020040	.935 .935	.481 .489	.030050 .090120	.937 .937	.578 .580	.080104	.939 .939	.633 .640	.015030 .015025	.942 .942	.530 .628	.005010 .060080	.945 .945	.719	.00501
510 .005010		.630	.010020			.929	.470	.072105	.935	.501	.080104	.937	.594	.050060	.939	.656	.030040	.942	.693	.005010	.945	.831	.01503
512 .020040		.641	.010020			.929	.570	.005010	.935	.523	.080105	.937	.623	.020040	.939	.660	.050070	.942	.724	.100125		.845	.005015
616 .015030	.921	.680	.025040			.929	.575	.005010	.935	.535	.090105	.937	.624	.020090	.939	.678	.040060	.942	.744	.005010	.946	.354	.005010
623 .030060		.682	.030050			.929	.600	.050075	.935	.565	.012020	.937	.625	.005010	.939	.700	.005010	.942	.794	.005010	.946	.386	.040060
628 .080095		.788	.020040			.929	.689	.005104	.935	.569	.030050	.937	.629	.030050	.939	.739	.050070	.942	.798	.020030	.946	.398	.010020
744 .005010 775 .005010		.790 .316	.005010			.929	.697	.012020 .015030	.935 .935	.570 .581	.100125	.937 .937	.637 .640	.025042	.939 .939	.783 .799	.040060	.943 .943	.406 .418	.005010 .120140	.946 .946	.473 .506	.005010
150 .020032		.450	.080100			.930	.098	.020040	.935	.624	.100125	.937	.650	.005010	.939	.869	.015025	.943	.426	.020040	.946	.513	.105125
317 .100120		.608	.050075	.075		.930	.199	.005083	.935	.681	.030050	.937	.656	.032060	.940	.186	.031048	.943	.442	.010030	.946	.602	.025042
507 .020040	.922	.630	.010020			.930	.270	.005010	.935	.682	.005010	.937	.672	.005010	.940	.194	.010020	.943	.473	.075090	.946	.678	.005010
532 .040060		.640	.030050			.930	.286	.070090	.935	.683	.030060	.937	.675	.060075	.940	.231	.005010	.943	.475	.005010		.686	.062070
540 .020040		.670	.010020			.930	.301	.015030	.935	.685	.072120	.937	.687	.100125	.940	.253	.007015	.943	.517	.005010		.717	.060080
570 .050090 571 .090110		.687 .755	.020030 .020040			.930 .930	.377 .381	.005020 .040125	.935 .935	.687 .715	.020040 .016032	.937 .937	.693 .703	.015020 .010020	.940 .940	.315 .400	.010075 .160190	.943 .943	.547 .568	.030050 .080100		.786 .128	.050070 .005010
734 .020040		.758	.050070			.930	.440	.020040	.935	.719	.010032	.937	.737	.020030	.940	.407	.090120	.943	.596	.030050		.397	.01002
735 .020040		.265	.090105			.930	.475	.040060	.935	.720	.050070	.937	.754	.048072	.940	.437	.005010	.943	.597	.005012		.463	.06007
795 .010020	.923	.397	.015025			.930	.501	.025062	.935	.724	.010030	.937	.772	.060080	.940	.440	.110130	.943	.736	.070090	.947	.482	.005010
304 .016032		.502	.015030			.930	.520	.020040	.935	.733	.025040	.937	.785	.005015	.940	.441	.040060	.944	.150	.040060		.566	.03004
334 .005010 501 .050090		.506 .661	.050070 .005010			.930	.609 .630	.042072 .010025	.935 .935	.735 .783	.005010 .005010	.937 .937	.793 .802	.025040 .015040	.940	.481	.050075 .075105	.944	.238	.005010 .005010		.599 .730	.042060
501 .050090 506 .010020		.668	.030050			.930	.635	.080104	.935	.794	.060075	.937 .937	.813	.015040	.940 .940	.490 .502	.075105	.944 .944	.256 .266	.005010		.757	.03003
31 .062078		.678	.020030			.930	.645	.005010	.935	.796	.020040	.937	.875	.025035		.508	.100125	.944	.281	.025036		.780	.02004
.050060	.923	.754	.020040	.040		.930	.673	.010020	.935	.807	.040060	.938	.140	.048062		.509	.050070	.944	.314	.080100	.947	.783	.04806
96 .005015		.755	.015050			.930	.679	.005010	.935	.839	.020030	.938	.144	.105135	.940	.518	.050070	.944	.317	.005020		.799	.01002
323 .040060		.820	.005010			.930	.700	.005010	.935	.860	.015030	.938	.150	.050072	.940	.520	.090105	.944	.319	.008012		.821	.00501
197 .010020 198 .030050		.201 .253	.100125			.930	.701 .710	.015030 .005010	.935 .936	.871 .266	.005010 .060080	.938 .938	.199	.048062 .030060	.940 .940	.525 .535	.040060	.944 .944	.394	.005010 .156187		.059 .245	.00501
508 .030050 596 .005010		.382	.030040			.930	.750	.025040	.936	.310	.050080	.938	.200	.100120	.940	.553	.100125	.944	.423 .432	.105167		.262	.06008
314 .005010		.538	.010015			.930	.760	.005030	.936	.313	.020035	.938	.217	.050072	.940	.590	.015030	.944	.442	.005020		.390	.00501
62 .025035		.727	.040060	.060		.930	.812	.010020	.936	.343	.105125	.938	.246	.048062	.940	.591	.060070	.944	.473	.005010		.398	.00501
.070090		.746	.020040			.931	.454	.020030	.936	.375	.040050	.938	.266	.042060	.940	.607	.030060	.944	.475	.005010		.413	.00501
.005010		.091	.005010			.931	.478	.020030	.936	.390	.060090	.938	.318	.048062	.940	.610	.030060	.944	.479	.020030		.439	.01002
96 .005010		.158	.100125 .100120			.931	.598 .632	.035060 .105125	.936	.406	.050070	.938	.322	.035060	.940	.633	.005010	.944	.502	.010020		.448 .485	.06007 .09010
193 .100125 565 .005020		.289 .314	.010015			.931 .931	.660	.020030	.936 .936	.480 .481	.010030 .005060	.938 .938	.328 .343	.104134 .048062	.940 .940	.640 .641	.005105 .025040	.944 .944	.595 .633	.020040 .005010		.485 .493	.09010
65 .005020 671 .005010		.322	.070013			.931	.691	.040060	.936	.502	.005010	.938	.376	.048062	.940	.646	.060080	.944	.673	.005010		.502	.00200
697 .010020		.346	.015025			.931	.729	.050070	.936	.517	.090110	.938	.379	.005010		.656	.040060	.944	.694	.040060		.503	.00501
765 .005010		.397	.048072	.072		.931	.762	.020030	.936	.537	.005010	.938	.383	.105125	.940	.673	.005030	.944	.766	.020040	.948	.506	.00501
812 .020030	.925	.438	.015050			.931	.811	.040060	.936	.552	.005010	.938	.388	.090105	.940	.674	.005010	.944		.015030	.948	.514	.05007
048 .005010		.445	.060083			.932	.243	.050070	.936	.627	.040060	.938	.439	.042062	.940	.686	.010020	.945	.221	.050075	.948	.518	.030060
90 .040060	.925	.450	.025040	.040		.932	.330	.025040	.936	.641	.100125	.938	.444	.040062	.940	.700	.015025	.945	.237	.005010	.948	.576	.005010
ool range listed.									*With E	BOKER'	S precision v	vashers.	you ca	n choose th	e exact	thicknes	ss you want	from th	e tool ra	nge listed.			
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									NO	1001	LING CH	ANGE	FUN	ANT	JF	I III E	SIZES	LISTEL
O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Ar Thickness*		O.D.	I.D.	Choose Any Thickness* From To
.885	.443	From To .008	.897	.704	.025040	.900	.830	.015025	.905	.673	.090125	010	E 40	.0600		.920	.157	.005010
.885	.456	.005020	.897	.748	.025040	.900	.840	.015025	.905	.674	.075100	.910 .910	.540 .560	.1101		.920	.163	.032060
.885	.521	.005010	.897	.810	.010020	.901	.202	.030050	.905	.677	.105125	.910	.590	.0050		.920		.005010
.885	.565	.015032	.898	.250	.040060	.901	.256	.010016	.905	.682	.010020	.910	.638	.0100		.920	.230	.025040
.885	.626	.020040	.898	.318	.050075	.901	.292	.040060	.905	.709	.015030	.910	.650	.0050		.920	.253	.005075
.885	.695	.005010	.898	.343	.005010	.901	.361	.010020	.905	.728	.050070	.910	.667	.0300		.920	.265	.040060
385	.705	.005010	.898	.453	.080100	.901	.506	.005020	.905	.785	.005010	.910	.703	.0300		.920		.135187
386	.118	.030050	.898	.510	.075104	.901	.626	.005020	.906	.316	.005010	.910	.750	.0100		.920		.080100
86	.291	.030050	.898	.665	.025040	.901	.694	.075093	.906	.317	.005020	.910	.811	.0200		.920	.318	.005010
86	.443	.005040	.898	.726	.005010	.901	.710	.005020	.906	.325	.005010	.910	.820	.0050	010	.920	.378	.005010
86	.531	.050070	.898	.748	.005010	.901	.715	.010020	.906	.332	.090110	.911	.256	.0801	100	.920	.456	.010030
886	.650	.070090	.898	.812	.005010	.902	.316	.010030	.906	.394	.010020	.911	.416	.0620	090	.920	.470	.105125
887	.265	.062090	.898	.829	.015030	.902	.318	.005010	.906	.395	.090100	.911	.471	.0300	050	.920	.499	.050070
87	.325	.035050	.899	.121	.040060	.902	.329	.005010	.906	.396	.010020	.911	.564	.0300	050	.920	.504	.005010
87	.572	.050070	.899	.197	.030050	.902	.377	.005010	.906	.405	.010020	.911	.568	.0050	ე10	.920		.090110
87	.714	.020040	.899	.444	.010020	.902	.504	.006012	.906	.470	.060080	.911	.615	.0050	J10	.920	.525	.005010
87	.755	.005010	.899	.479	.020040	.902	.505	.005020	.906	.474	.005010	.911	.710	.0300		.920		.005010
87	.795	.005010	.899	.535	.005010	.902	.535	.005010	.906	.512	.006012	.911	.780	.0050		.920		.015030
88	.382	.075090	.899	.562	.025040	.902	.564	.005010	.906	.519	.010020	.911	.815	.0050		.920	.584	.005010
88	.530	.005010	.899	.563	.005010	.902	.642	.005010	.906	.565	.080100	.912	.176	.0050		.920	.590	.005010
88	.535	.015030	.899	.568	.070090	.902	.658	.005010	.906	.585	.020040	.912	.549	.0701		.920	.608	.005010
38	.622	.005010	.899	.789	.030040	.902	.679	.030050	.906	.592	.025040	.912	.563	.0100		.920	.618	.005010
38	.656	.005010	.899	.791	.010020	.902	.790	.030050	.906	.603	.010020	.912	.596	.0050	-	.920		.030050
38 20	.760	.010020	.899	.810	.020030	.902	.792	.005010	.906	.609	.005010	.912	.636	.0600		.920		.010020
39 39	.392	.080100	.899	.814	.005010	.903	.252	.080100	.906	.638	.093125	.912	.656	.1051		.920	.630	.015060
9	.395 .557	.105120	.899 .900	.841 .063	.010020	.903	.258	.060080	.906	.657	.025035	.912	.683	.0150		.920	.687 .690	.020040
89 89	.569	.005010	.900	.063	.010020 .030050	.903 .903	.315	.030048	.906	.669 .728	.015030	.912	.805	.0050		.920 .920	.690 .705	.090105
39	.758	.005010	.900	.100	.030030	.903	.330 .401	.015030 .005010	.906 .906	.728	.030050	.913 .913	.493 .507	.0150 .0200		.920	.705 .720	.040060
39	.786	.025040	.900	.154	.015030	.903	.416	.100125	.906	.750 .750	.030030	.913	.507 .510	.0200		.920	.778	.030050
90	.192	.050072	.900	.217	.025040	.903	.500	.025036	.906	.759	.010020	.913	.665	.0801		.920		.020030
90	.273	.070105	.900	.252	.005010	.903	.531	.160180	.906	.769	.010020	.913	.847	.0050		.920		.010020
0	.385	.090105	.900	.254	.040060	.903	.664	.025040	.907	.228	.040060	.914	.521	.0050		.921		.078090
0	.405	.100125	.900	.321	.005010	.903	.710	.010020	.907	.293	.070090	.914	.596	.0250		.921	.402	.005010
0	.438	.030040	.900	.376	.005030	.903	.735	.005015	.907	.330	.050060	.914	.650	.0250		.921	.445	.005010
0	.504	.015030	.900	.377	.005010	.903	.760	.015030	.907	.380	.125135	.915	.350	.0400		.921	.490	.025040
0	.530	.010030	.900	.378	.015040	.903	.766	.040060	.907	.411	.025040	.915	.446	.0150		.921	.508	.010020
0	.537	.105125	.900	.379	.005078	.903	.771	.005050	.907	.469	.100120	.915	.448	.0050		.921		.025040
90	.547	.110130	.900	.380	.010020	.903	.781	.040050	.907	.514	.005010	.915	.509	.0500		.921	.587	.020040
0	.580	.005008	.900	.383	.090110	.903	.807	.010020	.907	.603	.070090	.915	.510	.0050	010	.921	.630	.010020
0	.582	.005010	.900	.390	.030060	.904	.206	.040060	.907	.624	.020035	.915	.512	.0200	040	.921	.641	.010020
90	.587	.005010	.900	.400	.005010	.904	.262	.070090	.907	.645	.020040	.915	.616	.0150	030	.921	.680	.025040
0	.667	.005010	.900	.406	.135156	.904	.319	.005020	.907	.669	.060080	.915	.623	.0300	060	.921	.682	.030050
90	.711	.025040	.900	.437	.005010	.904	.329	.005010	.907	.672	.042060	.915	.628	.0800	095	.921	.788	.020040
90	.785	.040050	.900	.440	.005010	.904	.486	.025042	.907	.682	.030050	.915	.744	.0050	010	.921	.790	.005010
91	.582	.030050	.900	.442	.005010	.904	.629	.020100	.907	.728	.005015	.915	.775	.0050	010	.922	.316	.105125
)1	.632	.005010	.900	.453	.030040	.904	.640	.030040	.907	.740	.010050	.916	.150	.0200		.922	.450	.080100
91	.669	.010020	.900	.455	.050070	.904	.649	.020035	.907	.757	.010020	.916	.317	.1001	-	.922	.608	.050075
91	.711	.005015	.900	.489	.005010	.904	.690	.015030	.908	.332	.135156	.916	.507	.0200		.922		.010020
92	.073	.025036	.900	.500	.005105	.904	.750	.040060	.908	.342	.050075	.916	.532	.0400		.922	.640	.030050
92	.273	.070105	.900	.503	.005020	.904	.805	.005040	.908	.379	.025040	.916	.540	.0200		.922		.010020
92	.390	.005010	.900	.504	.005008	.905	.127	.090110	.908	.502	.030050	.916	.570	.0500		.922	.687	.020030
92	.514	.005010	.900	.510	.015030	.905	.196	.040060	.908	.555	.080105	.916	.571	.0901		.922		.020040
2	.612 .632	.010025 .005010	.900	.562	.005015 .040060	.905	.201	.005010	.908	.564	.015030	.916	.734	.0200		.922		.050070 .090105
92 92	.653	.050070	.900	.563		.905	.238	.005010	.908	.616	.020032	.916	.735	.0200		.923		.090105
92 92	.003 .726	.005010	.900 .900	.564 .570	.010100 .005070	.905 .905	.330 .344	.015030 .020030	.908 .908	.688 .705	.010025 .030048	.916 .916	.795 .804	.0100) 016.		.923 .923	.502	.015025
93	.621	.040075	.900	.577	.005070	.905	.392	.020030	.908	.705	.060080	.916	.834	.0050		.923		.050070
93	.701	.005010	.900	.578	.070090	.905	.396	.005010	.908	.753	.000000	.917	.501	.0500		.923		.005010
94	.195	.020040	.900	.595	.070090	.905	.398	.120135	.908	.764	.020030	.917	.506	.0100		.923		.030050
94	.251	.010020	.900	.610	.020040	.905	.414	.180190	.908	.765	.020030	.917	.531	.0620		.923		.020030
94	.501	.060080	.900	.625	.025040	.905	.451	.070090	.909	.250	.020040	.917	.579	.0500		.923		.020030
94	.624	.005010	.900	.626	.050070	.905	.460	.005010	.909	.342	.050075	.917	.596	.0050		.923		.015050
94	.762	.005010	.900	.628	.005010	.905	.473	.010030	.909	.364	.005010	.917	.623	.0400		.923		.005010
95	.375	.070090	.900	.629	.010020	.905	.475	.105125	.909	.379	.005010	.918	.497	.0100		.924	.201	.100125
95	.390	.032062	.900	.630	.120135	.905	.481	.040060	.909	.634	.010020	.918	.508	.0300		.924	.253	.005010
95	.462	.005010	.900	.634	.040060	.905	.493	.070090	.909	.676	.007015	.918	.596	.0050		.924		.030040
95	.574	.032042	.900	.651	.005010	.905	.513	.060080	.909	.749	.040060	.918	.614	.0050		.924		.010015
95	.631	.005010	.900	.654	.060070	.905	.520	.020040	.909	.796	.005010	.918	.762	.0250		.924		.040060
95	.661	.010020	.900	.661	.070090	.905	.531	.050060	.910	.250	.080104	.919	.257	.0700		.924		.020040
95	.733	.050070	.900	.670	.025048	.905	.558	.005010	.910	.330	.030040	.919	.366	.0050		.925		.005010
95	.795	.010020	.900	.690	.010050	.905	.564	.040060	.910	.381	.050070	.919	.396	.0050		.925		.100125
95	.801	.020030	.900	.711	.025040	.905	.585	.050075	.910	.400	.015030	.919	.493	.1001		.925		.100120
96	.215	.060080	.900	.725	.020040	.905	.634	.032060	.910	.417	.010020	.919	.565	.0050		.925	.314	.010015
96	.340	.050070	.900	.730	.060080	.905	.637	.015030	.910	.425	.005010	.919	.671	.0050		.925	.322	.070090
96	.772	.020042	.900	.755	.010020	.905	.639	.040060	.910	.440	.005010	.919	.697	.0100		.925		.015025
	.292	.005010	.900	.800	.005010	.905	.643	.010020	.910	.468	.075090	.919	.765	.0050		.925		.048072
97	40-	.005010	.900	.805	.005010	.905	.657	.070080	.910	.490	.130156	.919	.812	.0200	030	.925		.015050
397	.407					005	007	0.40 000	010	500	.025040	.920	0.40	005 (010	025	115	000 000
397 397 397 397	.407 .408 .409	.010020 .025080	.900 .900	.810 .825	.010020 .005010	.905 .905	.667 .672	.040060 .070090	.910 .910	.500 .515	.100125	.920	.048 .090	.0050 .0400		.925 .925	.445 .450	.060083 .025040

NO TOOLING CHARGE FOR ANY C	F THE SIZES EIGTED	BOKEN S METAL WASHENS ARE FEAT AND TOMBLE DEBONNED
Choose Any I.D. Thickness* O.D. I.D. Thickness*	Choose Any O.D. I.D. Thickness*	Choose Any
From To From To From To From To	From To	From To From To From To From To
.00 - 200 - 860 .957 .295 .295 .030050 .966 .643 .080105 .975 .503 .015030 .980 .860 .005016		989 .771 .060075 .993 .316 .005010 .996 .692 .010030 .998 .793 .005010 1.000 .192 .050075 1.000 .407 .156187
.0 2		989 .789 .020040 .993 .371 .070090 .996 .740 .050070 .998 .855 .005010 1.000 .195 .010110 1.000 .409 .120134
.020040 .957 .734 .015030 .967 .265 .005030 .975 .532 .025040 .981 .396 .010030		989 830 015 - 030 993 523 040 - 060 996 758 005 - 010 998 877 015 - 030 1.000 1.96 0.25 - 0.90 1.000 410 0.05 - 0.10
.020020040 .957 .812 .095010 .967 .375 .090125 .975 .550 .050060 .981 .467 .020030		989 .844 .005020 .993 .605 .020040 .996 .785 .050075 .998 .913 .005010 1.000 .198 .070090 1.000 .414 .100125
.189 .005010 .957 .841 .015020 .967 .542 .015030 .975 .571 .050110 .981 .504 .05000		.989 .879 .005010 .993 .638 .040060 .996 .788 .005010 .999 .036 .005010 1.000 .199 .008080 1.000 .415 .025040
.00 - 200 - 201 - 2		990 .125 .040060 .993 .640 .062090 .996 .798 .040050 .999 .096 .010020 1.000 .200 .134160 1.000 .418 .050070
.0.50 .015010 .958 .606 .050072 .967 .593 .050075 .975 .630 .010020 .981 .525 .015030		990 .126 .010020 .993 .655 .070090 .996 .808 .040060 .999 .122 .005010 1.000 .205 .050075 1.000 .425 .040060
.0. 505 .050070 .958 .639 .020030 .967 .719 .060080 .975 .640 .005020 .981 .565 .00505		990 .355 .080100 .993 .689 .010040 .996 .812 .060080 .999 .201 .050070 1.000 .209 .105125 1.000 .427 .110120
.10 - 577 .075080 .981 .779 .070080 .967 .761 .050075 .975 .687 .090000 .981 .577 .075 .075		990 .437 .010020 .993 .802 .050070 .996 .813 .015030 .999 .206 .005010 1.000 .215 .050075 1.000 .432 .005010
.605005007 .010020 .959 .300 .015025 .968 .517 .050075 .975 .697 .062075 .981 .586 .005005		.990 .438 .105125 .994 .151 .005010 .996 .823 .005060 .999 .243 .030050 1.000 .217 .025125 1.000 .434 .104125
.592 .072090 .959 .328 .030050 .968 .625 .050070 .975 .699 .005010 .981 .730 .03008		.990 .442 .006015 .994 .243 .025042 .996 .859 .040060 .999 .252 .030045 1.000 .218 .015048 1.000 .437 .050125
.102 .005030 .959		.990 .443 .006015 .994 .287 .090110 .996 .864 .040060 .999 .253 .005010 1.000 .219 .005125 1.000 .438 .020040
.005010 .959 .641 .090120 .968 .636 .030050 .975 .795 .005012 .981 .840 .00501		990 .454 .060080 .994 .431 .010020 .996 .877 .005030 .999 .267 .105125 1.000 .220 .010020 1.000 .440 .005010
.0005040 .959 .729 .020040 .968 .655 .025045 .975 .804 .030060 .981 .845 .00500		.990 .456 .030050 .994 .441 .090110 .996 .880 .020030 .999 .284 .005010 1.000 .221 .005050 1.000 .441 .100120
.186 .020035 .960 .125 .032060 .968 .675 .015030 .975 .825 .005010 .982 .286 .03000		.990 .469 .080100 .994 .484 .005010 .996 .881 .025040 .999 .344 .080104 1.000 .225 .050070 1.000 .443 .135170
.189 .005030 .960 .133 .010025 .968 .687 .020040 .975 .885 .010020 .982 .345 .06008		.990 .510 .025040 .994 .500 .090100 .997 .152 .050075 .999 .348 .080104 1.000 .228 .005010 1.000 .444 .005010
.00072 .960 .155 .050072 .968 .718 .050075 .976 .394 .035050 .982 .501 .005005		.990 .512 .005010 .994 .508 .090105 .997 .171 .040062 .999 .356 .005010 1.000 .237 .060080 1.000 .445 .060080
.015015020035 .960259005010 .968729015030 .976503030050 .982502015030		990 .516 .030050 .994 .513 .130150 .997 .250 .005010 .999 .372 .030060 1.000 .238 .010020 1.000 .447 .010020
.00001030 .960 .315 .020032 .968 .741 .005010 .976 .525 .010020 .982 .503 .005010	0 .985 .475 .010015	.990 .526 .090105 .994 .540 .005010 .997 .266 .010020 .999 .375 .010060 1.000 .239 .015030 1.000 .451 .005010
.11 1.00 .960 .350 .350 .350 .968 .869 .025 .040 .976 .527 .015 .030 .982 .504 .100 .1100	5 .985 .490 .120156	.990 .560 .030060 .994 .552 .040050 .997 .312 .005010 .999 .376 .005010 1.000 .250 .008070 1.000 .452 .010020
.250 .015030 .960 .398 .090105 .969 .250 .050070 .976 .565 .005010 .982 .562 .06008	90 .985 .500 .020032	.990 .562 .080156 .994 .565 .040060 .997 .315 .060080 .999 .382 .030050 1.000 .251 .105125 1.000 .457 .105125
.328 .105125 .960 .450 .032050 .969 .391 .030050 .976 .640 .005020 .982 .620 .005020	0 .985 .503 .008015	.990 .595 .105125 .994 .605 .005010 .997 .327 .005010 .999 .392 .030050 1.000 .252 .005080 1.000 .459 .005010
.005010 .960 .500 .030060 .969 .436 .050075 .976 .661 .005010 .982 .704 .010005	90 .985 .506 .100120	.990 .605 .075090 .994 .625 .050075 .997 .456 .005010 .999 .401 .040060 1.000 .253 .030120 1.000 .465 .030050
.090 .090 .507 .080 .507 .080 .969 .559 .020040 .976 .717 .005010 .982 .752 .03008	0 .985 .512 .030050	.990 .625 .020040 .994 .721 .005010 .997 .466 .080100 .999 .444 .030050 1.000 .255 .060070 1.000 .468 .100125
.00010 .982 .537 .005010 .969 .565 .020030 .976 .872 .010020 .982 .801 .0050	0 .985 .535 .040060	.990 .626 .050075 .994 .813 .005010 .997 .503 .030050 .999 .453 .060070 1.000 .256 .020040 1.000 .471 .050070
.00070 .960 .550 .032050 .969 .582 .005010 .977 .276 .015030 .982 .875 .020045 .032 .982 .875 .020045 .032 .982	.0 .985 .548 .010015	.990 .631 .005010 .994 .900 .005010 .997 .508 .050070 .999 .505 .005010 1.000 .256 .170190 1.000 .475 .020040
.00 .00	.985 .556 .040060	.990 .635 .060080 .995 .083 .005010 .997 .533 .005010 .999 .518 .040060 1.000 .258 .030050 1.000 .476 .100125
.00040050 .051 .072 .083 .095 .096 .096 .096 .096 .096 .096 .096 .096	0 .985 .565 .062105	.990 .645 .005010 .995 .157 .032042 .997 .537 .040062 .999 .527 .090105 1.000 .263 .005010 1.000 .480 .005125
.1 100040 .960 .640 .005010 .969 .656 .060080 .977 .550 .020030 .983 .257 .10011	95 .985 .587 .020032	.990 .661 .010020 .995 .160 .015030 .997 .541 .005010 .999 .563 .015030 1.000 .264 .042062 1.000 .482 .005010
.00010020 .960 .650 .032050 .969 .661 .060080 .977 .560 .020040 .983 .280 .015020	95 .985 .635 .060080	.990 .693 .005010 .995 .196 .005010 .997 .549 .020040 .999 .578 .010020 1.000 .266 .005030 1.000 .485 .040135
.00010 .983 .315 .005010 .977 .626 .070090 .983 .315 .005010 .977 .626 .070090 .983 .315 .005010 .983 .315 .005 .005 .005 .005 .005 .005 .005 .005 .005 .005 .005 .005 .005	0 .985 .669 .005010	.990 .703 .020040 .995 .224 .005010 .997 .563 .125187 .999 .626 .020134 1.000 .267 .050055 1.000 .499 .005010
.0 200 310 .060080 .960 .728 .040060 .969 .770 .010048 .977 .649 .010020 .983 .319 .0050	0 .985 .685 .100125	.990 .735 .030050 .995 .272 .005010 .997 .622 .005010 .999 .629 .050070 1.000 .268 .030050 1.000 .500 .005062
.00040 .960 .740 .090105 .969 .792 .025048 .977 .720 .010040 .983 .323 .04000	90 .985 .700 .005015	.990 .758 .020105 .995 .282 .025050 .997 .640 .090105 .999 .633 .005010 1.000 .270 .005010 1.000 .501 .030105
.01 - 1.05 .960 .750 .967 .778 .970 .977 .778 .970 .977 .978 .979	.985 .721 .040105	.990 .759 .080100 .995 .297 .100125 .997 .689 .050070 .999 .657 .080100 1.000 .272 .030050 1.000 .502 .005187
.00020050075 .960 .751 .050075 .970 .092 .025048 .978 .180 .020040 .983 .396 .0500	⁷ 5 .985 .751 .005010	.990 .760 .010042 .995 .374 .050070 .997 .718 .005015 .999 .674 .100134 1.000 .273 .135190 1.000 .504 .010110
.00050080758050075010262100125978437050075983398050075	0 .985 .760 .042062	.990 .770 .020030 .995 .378 .005030 .997 .748 .030050 .999 .675 .100134 1.000 .278 .050075 1.000 .505 .030050
.005000 .970 .970 .970 .970 .970 .970 .970	0 .985 .789 .005025	.990 .780 .005010 .995 .392 .050070 .997 .756 .016025 .999 .680 .005010 1.000 .280 .040060 1.000 .506 .010020
.00747 .005010 .960 .783 .020030 .970 .380 .025040 .978 .515 .005120 .983 .434 .005	0 .985 .790 .005010	.990 .800 .005010 .995 .410 .005010 .997 .758 .005010 .999 .693 .005010 1.000 .281 .005012 1.000 .507 .020187
.0 200 201 2	5 .985 .806 .005010	.990 .810 .010030 .995 .447 .005010 .997 .769 .025040 .999 .700 .020030 1.000 .282 .006070 1.000 .508 .005190
.00070 .070 .083 .961 .438 .050070 .970 .440 .005010 .978 .690 .010020 .983 .502 .0050	0 .985 .825 .010020	.990 .813 .005010 .995 .453 .008016 .998 .062 .030050 .999 .715 .010020 1.000 .283 .040060 1.000 .510 .060083
.0 0.0 - 0.50 0	0 .986 .220 .070090	.990 .820 .016032 .995 .494 .005010 .998 .111 .010020 .999 .754 .050070 1.000 .292 .005010 1.000 .511 .032060
.0 20670 .621 .621 .621 .005010 .970 .550 .010020 .979 .285 .015 .030 .983 .670 .020 .005	.0 .986 .337 .030050	.990 .842 .010020 .995 .500 .070090 .998 .125 .040060 .999 .755 .090105 1.000 .293 .080104 1.000 .513 .140160
.104 .005010 .961 .676 .020030 .970 .631 .156187 .979 .340 .060080 .983 .678 .06008	30 .986 .408 .020040	.990 .858 .025040 .995 .515 .070090 .998 .131 .015025 .999 .763 .005010 1.000 .301 .005010 1.000 .515 .005187
0.05 - 0.05 - 0.01 0.05 - 0.0	0 .986 .516 .050070	.990 .910 .015025 .995 .517 .040060 .998 .136 .015030 .999 .787 .025040 1.000 .310 .062090 1.000 .517 .005010
.02020 .961 .820 .010020 .970 .723 .005010 .979 .405 .005010 .983 .753 .020010	90 .986 .585 .050070	.991 .071 .010020 .995 .522 .005010 .998 .138 .005015 .999 .790 .005010 1.000 .311 .150180 1.000 .518 .015125
.00050084 .010020 .970 .754 .040060 .979 .517 .125135 .984 .183 .0500	75 .986 .631 .010020	.991 .267 .060080 .995 .534 .083105 .998 .156 .050075 .999 .822 .050070 1.000 .315 .031042 1.000 .520 .100125
.005000 .961 .878 .005010 .970 .769 .005010 .979 .563 .070090 .984 .238 .0050	0 .986 .635 .060080	.991 .303 .005010 .995 .535 .062120 .998 .190 .005010 .999 .832 .025040 1.000 .316 .005020 1.000 .531 .120140
.0 200092045015025970802030048979630005010984239005010		.991 .316 .005010 .995 .538 .015030 .998 .202 .050075 .999 .840 .005010 1.000 .317 .005012 1.000 .534 .050070
.0 1.00 .010020 .052 .005 .005 .005 .007 .010 .970 .882 .010020 .979 .674 .005010 .984 .240 .015	.986 .710 .105125	.991 .317 .090125 .995 .559 .125187 .998 .230 .008016 .999 .878 .005010 1.000 .318 .050105 1.000 .535 .010060
.1 105 - 1		991 .405 .005010 .995 .564 .040060 .998 .252 .005020 1.000 .320 .010125 1.000 .545 .150190
.0 200 - 284080 .		991 .406 .090125 .995 .566 .030060 .998 .270 .060083
.010 .010 .010 .010 .010 .010 .010 .010		991 .412 .005010 .995 .573 .050070 .998 .339 .005010
.1080 .251 .040 .963 .271 .005010 .971 .439 .020040 .979 .837 .010030 .984 .355 .080		991 .515 .005010 .995 .630 .050070 .998 .347 .100125
.005080 .984 .394 .005080 .971 .444 .020030 .979 .840 .015030 .984 .394 .005		991 .605 .005010 .995 .657 .025048 .998 .348 .075090
.198 .048070 .963 .324 .005010 .971 .550 .030050 .980 .198 .005010 .984 .395 .1001		991 .627 .105135 .995 .665 .005012 .998 .378 .080105 .100 .332 .005010 .1.000 .563 .005020
.213 .048070 .963 .400 .020040 .971 .605 .005010 .980 .246 .015030 .984 .435 .0050		.991 .678 .030050 .995 .666 .015030 .998 .395 .010030 1.000 .028 .010015 1.000 .338 .100125 1.000 .564 .030050
.376 .005010 .963 .451 .030050 .971 .631 .080104 .980 .302 .015030 .984 .469 .08010		.991 .751 .030040 .995 .694 .020062 .998 .435 .020030 1.000 .064 .010020 1.000 .340 .032048 1.000 .567 .010020
.470 .005010 .963 .500 .010020 .971 .720 .104125 .980 .347 .005010 .984 .473 .0050		.991 .770 .015030 .995 .700 .020040 .998 .501 .040060 1.000 .066 .005010 1.000 .343 .050070 1.000 .568 .005010
.502 .050070 .963 .504 .005010 .971 .761 .005020 .980 .395 .015025 .984 .477 .0050		.991 .779 .040060 .995 .717 .005012 .998 .503 .030125 1.000 .073 .020035 1.000 .344 .010020 1.000 .572 .005080
.555 .060070 .963 .659 .080100 .971 .837 .040060 .980 .407 .100125 .984 .481 .0400		.991 .796 .020030 .995 .720 .030060 .998 .504 .030060 1.000 .077 .015030 1.000 .354 .100125 1.000 .578 .100125
.570 .080100 .963 .758 .020030 .971 .865 .030050 .980 .445 .005010 .984 .507 .07000		.991 .877 .005010 .995 .740 .025040 .998 .506 .005125 1.000 .086 .005010 1.000 .357 .010020 1.000 .579 .020040
.627 .005010 .963 .800 .030050 .972 .335 .040060 .980 .458 .020030 .984 .513 .10511		.991 .880 .015060 .995 .750 .005010 .998 .508 .090110 1.000 .093 .010020 1.000 .363 .005010 1.000 .590 .020125
.685 .060070 .963 .885 .010020 .972 .365 .010020 .980 .480 .060080 .984 .530 .0420		.991 .887 .005010 .995 .763 .005010 .998 .509 .005010 1.000 .094 .030060 1.000 .372 .010020 1.000 .594 .156187
.687 .005010 .964 .376 .030050 .972 .570 .100130 .980 .481 .005010 .984 .531 .0050		.992 .260 .005010 .995 .766 .005010 .998 .515 .080100 1.000 .100 .050070 1.000 .375 .060187 1.000 .598 .060070
.693 .105125 .964 .500 .015030 .972 .657 .015105 .980 .500 .010020 .984 .556 .0050		.992 .263 .005010 .995 .873 .040060 .998 .516 .005010 1.000 .116 .010062 1.000 .376 .005010 1.000 .600 .005010
.710 .105135 .964 .652 .090120 .972 .746 .050070 .980 .501 .005010 .984 .572 .0400		.992 .270 .005015 .995 .938 .010020 .998 .534 .030050 1.000 .117 .040060 1.000 .377 .005010 1.000 .605 .010020
.742 .090105 .965 .264 .020040 .972 .764 .050075 .980 .514 .005010 .984 .625 .0400		.992 .316 .110130 .996 .120 .042062 .998 .562 .015020 1.000 .118 .040060 1.000 .378 .005050 1.000 .610 .005120
.322 .005010 .965 .423 .030040 .973 .110 .050072 .980 .521 .025040 .984 .628 .0350		.992 .330 .110130 .996 .170 .005010 .998 .563 .075100 1.000 .129 .005010 1.000 .379 .042134 1.000 .611 .030060
.630 .105125 .965 .506 .060075 .973 .567 .005010 .980 .522 .005010 .984 .630 .0150		.992 .387 .020040 .996 .255 .005010 .998 .573 .050070 1.000 .131 .015030 1.000 .381 .005020 1.000 .623 .030050
.670 .060070 .965 .514 .090120 .973 .595 .005075 .980 .600 .030105 .984 .641 .0801		.992 .523 .025040 .996 .283 .090125 .998 .577 .005010 1.000 .142 .010062 1.000 .384 .060090 1.000 .624 .005187
.753 .040060 .965 .580 .032060 .974 .226 .050075 .980 .640 .007015 .984 .643 .0600		.992 .536 .005010 .996 .318 .005010 .998 .578 .010020 1.000 .143 .030050 1.000 .386 .050075 1.000 .625 .015030
.826 .005010 .965 .610 .020035 .974 .260 .050070 .980 .647 .005010 .984 .648 .0150		.992 .582 .030050 .996 .323 .005010 .998 .580 .157187 1.000 .147 .005010 1.000 .387 .007016 1.000 .626 .050075
.510 .025040 .965 .620 .025040 .974 .502 .005010 .980 .648 .050070 .984 .650 .1001		.992 .669 .005010 .996 .395 .156187 .998 .629 .005010 1.000 .156 .020040 1.000 .388 .005010 1.000 .627 .105125
.733 .020040 .965 .644 .005010 .974 .669 .015025 .980 .664 .060083 .984 .689 .0200 .825 .010020 .965 .669 .080105 .974 .699 .025040 .980 .668 .080100 .984 .715 .0500		.992 .687 .105135 .996 .396 .100125 .998 .630 .010020 1.000 .157 .070090 1.000 .389 .048075 1.000 .628 .005030 .992 .688 .050070 .996 .441 .020030 .998 .637 .040060 1.000 .165 .020072 1.000 .392 .075125 1.000 .629 .005010
		.992 .688 .050070 .996 .441 .020030 .998 .637 .040060 1.000 .165 .020072 1.000 .392 .075125 1.000 .629 .005010 .992 .754 .040060 .996 .463 .060080 .998 .662 .050070 1.000 .168 .050070 1.000 .395 .010020 1.000 .630 .030060
1000 1110 1000 1010 1000 1010 1000 10		.992 .754 .040060 .996 .463 .060080 .998 .662 .050070 1.000 .168 .050070 1.000 .395 .010020 1.000 .630 .030060 .998 .672 .050012 1.000 .170 .030050 1.000 .400 .010020 1.000 .631 .134156
.635 .005050 .965 .783 .020036 .974 .768 .030050 .980 .757 .080104 .984 .749 .0400 .781 .005010 .966 .391 .040060 .975 .440 .005010 .980 .841 .030050 .984 .794 .0700		.993 .249 .040050 .996 .578 .075090 .998 .678 .032042 1.000 .172 .090120 1.000 .403 .105125 1.000 .632 .090110 .993 .295 .062120 .996 .630 .010015 .998 .694 .020040 1.000 .178 .005010 1.000 .405 .042100 1.000 .633 .015030
		.993 .295 .062120 .996 .666 .040060 .998 .748 .035060 1.000 .176 .005010 1.000 .405 .042100 1.000 .633 .015060
PU. "C2U. C61. PUE. U2U. "U1U. 1C0. U0E. U1U. "CUU. CEP. C1E. 200. 020. 2FO. 000. 010. 000. 020.	000 .700 .000010	000 620. 460. 000. 1 000. 200. 000. 000. 001. 000. 001. 000. 000

O.D. I

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED	BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED
Choose Any O.D. I.D. Thickness* O.D. I.D. Thickness* Choose Any O.D. I.D. Thickness*	Choose Any O.D. I.D. Thickness*
From To From To From To From To From To	From To From To From To From To From To
1.000 636 .060075 1.001 .250 .062120 1.003 .508 .005010 1.014 .848 .005010 1.022 .960 .030042 1.028 .151 .090105	1.038 .440 .025042 1.050 .178 .025040 1.055 .884 .035050 1.060 .772 .060080 1.062 .962 .010030 1.066 .967 .005010
1.000 .638 .100125	1.038 .506 .050075
1.000 .640 .020080 1.001 .253 .010020 1.003 .641 .005012 1.014 .874 .015030 1.023 .127 .005010 1.028 .629 .032048 1.000 .641 .005156 1.001 .260 .080100 1.003 .723 .025040 1.014 .884 .005040 1.023 .302 .030040 1.028 .812 .020040	1.038 .709 .030050
1.000	1.036 .374 .010025 1.050 .320 .176130 1.055 .353 .010020 1.060 .653 .005030 1.062 1.010 .005010 1.067 .344 .010020 1.068 .375 .062120 1.055 .375 .062120 1.055 .375 .062120 1.060 .880 .048072 1.062 1.025 .005010 1.067 .515 .080100
1.000 .649 .005010 1.001 .264 .090120 1.003 .807 .030048 1.015 .652 .060080 1.023 .398 .005015 1.029 .318 .005010	1.039 .626 .030060 1.050 .376 .005010 1.056 .205 .005010 1.060 .881 .025040 1.063 .142 .090105 1.067 .535 .050075
1.000 .655 .030050 1.001 .268 .005010 1.003 .810 .005010 1.015 .671 .010020 1.023 .473 .020030 1.029 .520 .120135	1.039 .890 .010020 1.050 .416 .020030 1.056 .634 .050075 1.060 .882 .010020 1.063 .190 .005010 1.067 .664 .010020
1.000 .656 .005010 1.001 .269 .050070 1.004 .148 .080105 1.015 .755 .005010 1.023 .474 .005010 1.029 .740 .030050	1.039 943 .020040 1.050 .438 .015030 1.056 .659 .005010 1.060 .883 .010020 1.063 .204 .075090 1.068 .205 .030050
1.000 .665 .050070 1.001 .285 .105135 1.004 .185 .005010 1.015 .773 .020030 1.023 .552 .060080 1.029 .765 .050070	1.040 .138 .005010 1.050 .500 .005030 1.056 .676 .040060 1.060 .888 .010020 1.063 .315 .005010 1.068 .254 .010020
1.000 .669 .005032 1.001 .322 .080100 1.004 .320 .020040 1.015 .790 .005010 1.023 .553 .005010 1.030 .171 .050070	1.040 .195 .005010 1.050 .503 .005020 1.056 .719 .032060 1.060 .896 .010020 1.063 .317 .005010 1.068 .341 .100125
1.000 .670 .105125 1.001 .344 .015030 1.004 .423 .005010 1.015 .818 .100125 1.023 .669 .060080 1.030 .189 .075090	1.040 .378 .005010 1.050 .504 .005008 1.056 .726 .005010 1.060 .905 .040060 1.063 .321 .090120 1.068 .636 .090105
1.000 .671 .060090 1.001 .378 .005125 1.004 .458 .050070 1.015 .842 .050070 1.023 .709 .010020 1.030 .194 .030050	1.040 .544 .090120 1.050 .564 .005020 1.056 .841 .005040 1.061 .128 .010020 1.063 .329 .080100 1.068 .750 .040050
1.000 673 .080100 1.001 .380 .025040 1.004 .531 .005010 1.015 .876 .015030 1.023 .725 .050070 1.030 .273 .060075	1.040 .560 .030050 1.050 .567 .100120 1.056 .875 .010020 1.061 .267 .125135 1.063 .343 .100125 1.068 .813 .030050
1.000 .674 .100125 1.001 .385 .005010 1.004 .549 .005010 1.016 .302 .100125 1.023 .730 .005010 1.030 .336 .156187	1.040 .627 .020040 1.050 .570 .015030 1.056 .877 .015030 1.061 .316 .005010 1.063 .394 .005010 1.069 .153 .005010
1.000 .675 .005030	1.040 .714 .120140 1.050 .615 .020040 1.057 .350 .005010 1.061 .386 .080100 1.063 .437 .005030 1.069 .390 .005010 1.040 .809 .012025 1.050 .626 .005050 1.057 .838 .005010 1.061 .442 .005020 1.063 .442 .005010 1.069 .600 .170190
1.000 .676 .020030	1.040 .809 .012025
1.000 .680 .005125	1.040 .869 .005010 1.050 .635 .005010 1.058 .428 .040050 1.061 .505 .010025 1.063 .500 .090105 1.070 .255 .105125
1.000 .686 .030060 1.001 .423 .050070 1.004 .750 .090105 1.016 .650 .005010 1.023 .893 .015030 1.030 .505 .050070	1.040 .875 .025040 1.050 .712 .032060 1.058 .501 .010020 1.061 .510 .070090 1.063 .503 .005010 1.070 .266 .020030
1.000 .688 .008016 1.001 .439 .170190 1.004 .760 .090125 1.016 .750 .005010 1.023 .909 .005010 1.030 .510 .062080	1.040 .915 .010020 1.050 .722 .032042 1.058 .520 .040060 1.061 .531 .005010 1.063 .506 .062083 1.070 .318 .020040
1.000 .690 .025048 1.001 .494 .005010 1.004 .780 .010020 1.016 .761 .015030 1.024 .394 .010020 1.030 .533 .110130	1.040 .926 .020030 1.050 .753 .005010 1.058 .532 .060075 1.061 .533 .035050 1.063 .540 .135156 1.070 .619 .005010
1.000 .691 .005010 1.001 .500 .010020 1.004 .781 .005010 1.016 .920 .005010 1.024 .395 .005010 1.030 .542 .015030	1.041 .788 .015030 1.050 .760 .030050 1.058 .583 .090110 1.061 .562 .005125 1.063 .545 .005010 1.070 .755 .030040
1.000 .700 .005060 1.001 .503 .005100 1.004 .873 .050070 1.016 .929 .005010 1.024 .398 .005010 1.030 .585 .005010	1.041 .909 .005010 1.050 .765 .010020 1.058 .601 .005010 1.061 .574 .005010 1.063 .563 .015030 1.070 .794 .070080
1.000 .709 .015030 1.001 .504 .005030 1.005 .210 .030042 1.017 .301 .050075 1.024 .454 .040060 1.030 .649 .005010	1.041 .919 .005010 1.050 .771 .110120 1.058 .626 .005030 1.061 .657 .170190 1.063 .573 .005010 1.070 .906 .005010
1.000 .716 .005010 1.001 .505 .015025 1.005 .257 .100125 1.017 .627 .005008 1.024 .473 .005010 1.030 .688 .050060	1.042 .544 .090120 1.050 .798 .025048 1.058 .628 .005010 1.061 .750 .030050 1.063 .578 .060075 1.070 .961 .020035
1.000 .720 .010020 1.001 .508 .005105 1.005 .262 .010020 1.017 .754 .005015 1.024 .476 .005010 1.030 .690 .090125	1.042 .773 .015030 1.050 .804 .005010 1.058 .640 .050070 1.061 .783 .025040 1.063 .579 .060080 1.071 .259 .040062
1.000 .724 .040060	1.043 .473 .105135
	1.000 1
1.000 .733 .025040	1.044 .191 .032060
1.000 .750 .005125 1.001 .611 .040062 1.005 .650 .080100 1.018 .688 .050070 1.024 .881 .010020 1.030 .894 .050075	1.044 .378 .020040 1.050 .876 .005010 1.058 .762 .075100 1.062 .073 .020040 1.063 .645 .025040 1.071 .064 .015050
1.000 .751 .100125 1.001 .626 .005020 1.005 .758 .005010 1.018 .696 .050070 1.025 .243 .005010 1.030 .952 .005015	1.044 .512 .020030 1.050 .877 .050070 1.058 .872 .050070 1.062 .120 .010020 1.063 .674 .005010 1.072 .381 .005010
1.000 .752 .040105 1.001 .628 .040062 1.005 .801 .010020 1.018 .747 .048062 1.025 .315 .005010 1.030 .967 .020030	1.044 .750 .100125 1.050 .878 .010090 1.058 .897 .060080 1.062 .128 .048062 1.063 .687 .040060 1.072 .712 .005010
1.000 .753 .050070 1.001 .629 .050070 1.005 .840 .005010 1.018 .807 .010020 1.025 .318 .005010 1.031 .377 .015030	1.044 .828 .025042 1.050 .896 .005010 1.059 .058 .010020 1.062 .137 .080100 1.063 .749 .005010 1.072 .750 .075100
1.000 .754 .020075 1.001 .688 .006016 1.005 .900 .005010 1.018 .824 .020040 1.025 .330 .020040 1.031 .385 .005010	1.044 .987 .010020 1.050 .900 .030050 1.059 .153 .015030 1.062 .188 .020040 1.063 .780 .050070 1.072 1.001 .005010
1.000 .755 .005125 1.001 .690 .050070 1.005 .950 .005010 1.018 .826 .005010 1.025 .337 .060080 1.031 .408 .105135	1.045 .210 .030042 1.050 .950 .030040 1.059 .188 .040060 1.062 .200 .042062 1.063 .781 .060080 1.073 .347 .060080
1.000 .756 .030050	1.045 .230 .008016 1.050 .970 .005010 1.059 .347 .060070 1.062 .211 .050083 1.063 .787 .050070 1.073 .474 .005010
1.000 .759 .005040 1.001 .756 .025050 1.006 .584 .040060 1.019 .166 .015030 1.025 .394 .010020 1.031 .520 .005010	1.045 .252 .005010 1.050 .984 .005010 1.059 .450 .090120 1.062 .218 .020035 1.063 .798 .030050 1.073 .510 .015030
1.000 .760 .060080 1.001 .818 .080105 1.006 .881 .015030 1.019 .415 .020030 1.025 .395 .005010 1.031 .846 .005010	1.045 .288 .030042 1.051 .264 .090110 1.059 .514 .015030 1.062 .252 .030040 1.063 .883 .005010 1.073 .572 .070090 1.045 .300 .005010 1.051 .315 .008015 1.059 .582 .030050 1.062 .259 .045060 1.063 .889 .005010 1.073 .656 .040060
1.000 .761 .035050 1.001 .906 .005010 1.007 .203 .050075 1.019 .613 .015030 1.025 .410 .036060 1.031 .864 .080100 1.000 .764 .105125 1.002 .136 .050070 1.007 .414 .015025 1.019 .665 .030050 1.025 .433 .050070 1.031 .910 .010020	1.045 .300 .005010 1.051 .315 .008015 1.059 .582 .030050 1.062 .259 .045060 1.063 .889 .005010 1.073 .656 .040060 1.045 .407 .030050 1.051 .500 .010020 1.059 .596 .050070 1.062 .262 .007025 1.064 .470 .010020 1.073 .672 .005010
1.000 .764 .103123 1.002 .130 .030070 1.007 .414 .015025 1.019 .065 .030030 1.025 .433 .030070 1.031 .310 .010020	1.045 .465 .005010
1.000 .766 .100125 1.002 .172 .010025 1.007 .528 .080105 1.019 .766 .010030 1.025 .475 .005010 1.032 .175 .100125	1.045 .619 .010020 1.051 .503 .015025 1.059 .750 .050070 1.062 .328 .040060 1.064 .563 .005020 1.074 .680 .135156
1.000 .767 .050075 1.002 .197 .005010 1.007 .569 .135160 1.019 .769 .050070 1.025 .477 .005010 1.032 .259 .062090	1.045 .704 .030050 1.051 .504 .005010 1.059 .768 .020040 1.062 .378 .015125 1.064 .594 .005020 1.074 .720 .020040
1.000 .768 .010020 1.002 .277 .010020 1.007 .641 .015030 1.019 .794 .010020 1.025 .505 .005020 1.032 .378 .010020	1.045 .750 .005032 1.051 .752 .110130 1.059 .890 .040060 1.062 .436 .005010 1.064 .687 .048062 1.074 .971 .015025
1.000 .770 .005060 1.002 .312 .135160 1.007 .647 .100125 1.020 .316 .050075 1.025 .550 .005012 1.032 .529 .100125	1.045 .783 .015030 1.051 .881 .060080 1.059 .965 .015025 1.062 .440 .080104 1.064 .712 .030050 1.075 .350 .005010
1.000 .771 .015030 1.002 .319 .060080 1.007 .725 .062075 1.020 .378 .015030 1.025 .606 .048062 1.032 .566 .010020	1.045 .830 .005010 1.051 .964 .005010 1.060 .150 .060080 1.062 .454 .020040 1.064 .751 .010020 1.075 .525 .100120
1.000 .776 .070090 1.002 .379 .005010 1.007 .752 .036050 1.020 .510 .135160 1.025 .632 .010020 1.032 .633 .080100	1.045 .880 .025040 1.051 .988 .005010 1.060 .172 .010020 1.062 .472 .005010 1.064 .762 .005010 1.075 .689 .075100
1.000 .778 .040060 1.002 .384 .090125 1.007 .764 .005010 1.020 .552 .134156 1.025 .704 .032042 1.032 .656 .100125	1.045 .894 .050060 1.052 .253 .010020 1.060 .180 .030050 1.062 .480 .015030 1.064 .790 .005010 1.075 .694 .050060
1.000 .785 .100125	1.046 .138 .005010
1.000 .787 .060070	1.046 .345 .070090 1.052 .715 .005010 1.060 .258 .025035 1.062 .515 .005010 1.064 .847 .060070 1.075 .810 .005010 1.046 .517 .035050 1.052 .760 .105125 1.060 .283 .156187 1.062 .521 .005010 1.064 .865 .010020 1.075 .814 .005010
1.000 .796 .010015 1.002 .504 .100125 1.008 .778 .015030 1.020 .744 .010020 1.025 .775 .010020 1.032 .325 .013030	1.046 .861 .010020 1.052 .765 .060070 1.060 .284 .040062 1.062 .531 .100125 1.064 .865 .010020 1.075 .834 .005020
1.000 .797 .025125	1.046 .908 .005010 1.052 .846 .040060 1.060 .318 .005010 1.062 .537 .005105 1.064 .951 .015030 1.076 .348 .050075
1.000 .798 .005010 1.002 .507 .010020 1.008 .845 .050070 1.020 .775 .050070 1.025 .787 .030050 1.033 .757 .005010	1.046 .943 .020035 1.052 .881 .050075 1.060 .341 .010020 1.062 .564 .062090 1.065 .165 .025040 1.076 .367 .075090
1.000 .800 .012025 1.002 .531 .035090 1.009 .195 .025042 1.020 .787 .030048 1.025 .788 .010020 1.033 .811 .050075	1.047 .287 .005010 1.053 .530 .075090 1.060 .378 .105135 1.062 .580 .005010 1.065 .395 .062083 1.076 .398 .005010
1.000 .801 .025040 1.002 .532 .005010 1.009 .444 .060080 1.020 .805 .060075 1.025 .804 .040050 1.033 .836 .015030	1.047 .480 .005010 1.053 .627 .070090 1.060 .394 .100125 1.062 .625 .020030 1.065 .434 .005010 1.076 .499 .015030
1.000 805 .005010 1.002 .534 .025040 1.009 .511 .030050 1.020 .861 .025048 1.025 .877 .010020 1.033 .883 .015030	1.047 .499 .006015 1.053 .662 .025050 1.060 .396 .025048 1.062 .626 .048062 1.065 .444 .005010 1.076 .508 .083104
1.000 .815 .005010 1.002 .564 .062083 1.010 .130 .060070 1.020 .960 .015030 1.025 .893 .020040 1.033 .925 .032050	1.047 .522 .005010
1.000 .828 .015025 1.002 .579 .015030 1.010 .388 .005010 1.020 .962 .005020 1.025 .926 .020040 1.034 .130 .005015	1.047 .627 .070090 1.053 .893 .005020 1.060 .451 .105125 1.062 .638 .050070 1.065 .562 .010020 1.076 .535 .060080 1.047 .840 .010020 1.054 .503 .005010 1.060 .469 .105125 1.062 .642 .060080 1.065 .626 1.56 - 187 1.076 .536 .060080
1.000 .837 .040060 1.002 .581 .050070 1.010 .450 .005010 1.021 .257 .050075 1.026 .239 .005010 1.034 .350 .020040 1.000 .845 .030050 1.002 .645 .015030 1.010 .506 .005010 1.021 .316 .040060 1.026 .480 .030050 1.034 .381 .075090	1.047 .840 .010020 1.054 .503 .005010 1.060 .469 .105125 1.062 .642 .060080 1.065 .626 .156187 1.076 .536 .060080 1.047 .916 .005010 1.054 .560 .030050 1.060 .479 .005010 1.062 .656 .075090 1.065 .634 .075090 1.076 .643 .075090
1.000 .850 .005010 1.002 .652 .015030 1.010 .510 .015030 1.021 .575 .005010 1.026 .630 .060080 1.034 .500 .070090	1.047 .916 .005010 1.054 .500 .050050 1.060 .479 .005010 1.062 .657 .075090 1.065 .634 .075090 1.076 .697 .030040 1.076 .690 .080104
1.000 .851 .070080 1.002 .658 .100125 1.010 .540 .015030 1.021 .668 .015020 1.026 .781 .040060 1.034 .654 .005010	1.048 .282 .090105
1.000 .854 .010020 1.002 .685 .060083 1.010 .640 .050060 1.021 .726 .005010 1.026 .917 .005010 1.034 .731 .015030	1.048 .378 .100125
1.000 .855 .005010 1.002 .700 .125135 1.010 .664 .025040 1.021 .750 .025040 1.027 .203 .005010 1.034 .827 .005010	1.048 .431 .042062 1.054 .840 .008012 1.060 .531 .010020 1.062 .721 .050070 1.065 .814 .042060 1.077 .758 .050075
1.000 .875 .016025 1.002 .703 .050070 1.010 .757 .015025 1.021 .766 .015030 1.027 .294 .070090 1.034 .830 .005012	1.048 .504 .006012 1.054 .879 .015025 1.060 .563 .015030 1.062 .727 .060080 1.065 .826 .040060 1.077 .767 .025040
1.000 .876 .005010 1.002 .718 .020040 1.011 .501 .015030 1.021 .878 .020030 1.027 .382 .005010 1.035 .660 .070090	1.048 .517 .020040 1.055 .153 .050070 1.060 .573 .060080 1.062 .750 .100125 1.065 .875 .010025 1.077 .830 .005010
1.000 .879 .030060 1.002 .719 .062083 1.012 .315 .030040 1.021 .930 .015030 1.027 .417 .075090 1.035 .820 .020030	1.048 .629 .008015 1.055 .312 .020040 1.060 .580 .062120 1.062 .755 .005015 1.065 .892 .030050 1.077 .870 .050070
1.000 .880 .010020 1.002 .767 .020040 1.012 .358 .010020 1.022 .219 .005010 1.027 .418 .070090 1.035 .832 .030050	1.048 .657 .010020 1.055 .350 .030050 1.060 .629 .015050 1.062 .764 .100125 1.065 .923 .032042 1.077 .907 .020050
1.000 .892 .030050	1.048 .688 .005010
1.000 .910 .005010 1.002 .842 .030050 1.012 .849 .015030 1.022 .354 .005010 1.027 .542 .070090 1.035 .874 .000080 1.000 1.000	1.046 .883 .015030
1.000 .936 .005010 1.003 .211 .010020 1.012 .896 .010020 1.022 .468 .030050 1.027 .637 .010030 1.035 .954 .020030	1.046 .663 .010020 1.055 .472 .010023 1.060 .652 .060083 1.062 .817 .010020 1.066 .634 .075100 1.078 .456 .005010
1.000 .957 .015025	1.049 .463 .060090 1.055 .758 .010020 1.060 .688 .010020 1.062 .833 .025040 1.066 .664 .005010 1.078 .523 .040060
1.000 .958 .005010 1.003 .410 .005020 1.013 .806 .040060 1.022 .552 .005010 1.027 .721 .040060 1.036 .678 .005010	1.049 .562 .010020 1.055 .786 .015030 1.060 .702 .005010 1.062 .839 .025042 1.066 .725 .020030 1.078 .574 .020040
1.001 .164 .005010 1.003 .441 .030050 1.013 .848 .042060 1.022 .590 .015030 1.027 .793 .060083 1.036 .718 .090105	1.049 .648 .040060 1.055 .791 .005010 1.060 .726 .060080 1.062 .860 .010020 1.066 .728 .105135 1.078 .580 .040060
1.001 .203 .025040 1.003 .445 .010020 1.014 .503 .060080 1.022 .626 .030050 1.027 .826 .020040 1.036 .793 .075090	1.049 .890 .030050 1.055 .856 .005020 1.060 .741 .025040 1.062 .876 .010080 1.066 .766 .030060 1.078 .593 .050075
1.001 .218 .005010 1.003 .455 .062080 1.014 .642 .020040 1.022 .786 .100125 1.027 .830 .060080 1.037 .440 .015030	1.049 .950 .005010 1.055 .865 .050060 1.060 .752 .005010 1.062 .877 .020040 1.066 .873 .030060 1.078 .616 .005010
1.001 .247 .090105 1.003 .498 .005015 1.014 .692 .040060 1.022 .826 .030050 1.027 .872 .050060 1.037 .925 .030048	1.050 .156 .025042 1.055 .880 .040060 1.060 .760 .020030 1.062 .930 .005010 1.066 .874 .030050 1.078 .635 .020040
*Mith DOVED'S avaising weakers you can always the great this large you want from the tool years listed	*Mith POVED'S precision weekers you can abase the exact thickness you want from the tool range listed

(41)

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED	BOKER'S METAL WASHERS ARE FLAT AND TOMBLE DEBURKED
Choose Any O.D. I.D. Thickness*	Choose Any O.D. I.D. Thickness*
From To From To From To From To From To	From To From To From To From To
1.078 .644 .005010 1.090 .355 .015030 1.097 .901 .040060 1.100 .716 .005020 1.103 .316 .005010 1.110 .607 .080010	1.116 .757 .010020 1.120 .640 .016025 1.123 .501 .005010 1.125 .203 .040125 1.125 .741 .020040 1.128 .751 .005010
1.078 .687 .030040 1.090 .433 .030060 1.097 .949 .050060 1.100 .718 .105135 1.103 .395 .005020 1.110 .626 .005010	1.116 .782 .010015 1.120 .644 .100125 1.123 .503 .010110 1.125 .206 .015040 1.125 .745 .100125 1.128 .877 .010020
1.078 .749 .020040 1.090 .500 .100125 1.097 1.003 .010030 1.100 .751 .005010 1.103 .396 .080100 1.110 .684 .060080	1.116 .786 .005010 1.120 .646 .030050 1.123 .516 .125156 1.125 .255 .005060 1.125 .749 .105135 1.128 .889 .050070
1.078 .781 .031042 1.090 .502 .040060 1.098 .220 .005010 1.100 .765 .030050 1.103 .397 .010020 1.110 .690 .030050	1.116 .809 .030060 1.120 .668 .090120 1.123 .524 .005010 1.125 .260 .048125 1.125 .750 .015042 1.129 .474 .090110
1.078 .830 .030050 1.090 .505 .025040 1.098 .375 .070090 1.100 .770 .010020 1.103 .398 .005020 1.110 .700 .100 .120	1.116 .816 .005016 1.120 .669 .015025 1.123 .528 .080100 1.125 .267 .100125 1.125 .751 .010020 1.129 .500 .080105
1.078 .840 .010020 1.090 .534 .030060 1.098 .377 .010020 1.100 .775 .032042 1.103 .473 .005010 1.110 .710 .005010	1.116 .862 .015030 1.120 .688 .048062 1.123 .534 .156187 1.125 .268 .005010 1.125 .753 .015030 1.129 .503 .090105
1.078 .870 .015030 1.090 .595 .090120 1.098 .396 .120140 1.100 .781 .040060 1.103 .502 .010020 1.110 .725 .030040	1.116 .868 .062083 1.120 .746 .005015 1.123 .632 .090110 1.125 .283 .062083 1.125 .754 .005010 1.129 .506 .050070
1.079 .114 .005010 1.090 .932 .060080 1.098 .420 .005010 1.100 .782 .020040 1.103 .554 .005010 1.110 .760 .005008	1.116 .879 .005010 1.120 .750 .005010 1.123 .636 .005010 1.125 .289 .060083 1.125 .755 .005010 1.129 .620 .100125
1.079 .257 .005010 1.091 .625 .032062 1.098 .504 .010020 1.100 .794 .005080 1.103 .560 .015030 1.110 .780 .020035	1.116 .883 .016025 1.120 .753 .030050 1.123 .691 .125156 1.125 .296 .020040 1.125 .760 .050090 1.129 .705 .105135
1.079 .509 .030050 1.091 .850 .070090 1.098 .597 .030040 1.100 .797 .015035 1.103 .632 .075095 1.110 .805 .015030	1.116 1.002 .005010 1.120 .760 .015032 1.123 .696 .040060 1.125 .298 .060090 1.125 .768 .048062 1.129 .804 .060080
1.079 .567 .025040 1.091 .991 .015030 1.098 .600 .005010 1.100 .827 .125135 1.103 .638 .005010 1.110 .834 .080105	1.117 .159 .105125
1.079 .587 .025040 1.092 .070 .005010 1.098 .660 .105125 1.100 .858 .010020 1.103 .692 .030050 1.110 .835 .005010	1.117 .340 .005015 1.120 .765 .005012 1.123 .750 .005010 1.125 .314 .008015 1.125 .795 .010050 1.130 .163 .005010
1.079 .760 .025040 1.092 .239 .005020 1.098 .671 .005010 1.100 .863 .030042 1.103 .811 .005010 1.110 .868 .005010	1.117 .372 .050075 1.120 .779 .025042 1.123 .765 .020040 1.125 .317 .083120 1.125 .796 .050062 1.130 .171 .050070
1.079 .933 .005010 1.092 .433 .040105 1.098 .752 .120140 1.100 .875 .005010 1.103 .820 .015030 1.110 .875 .050075	1.117 .392 .050070 1.120 .780 .100125 1.123 .770 .005010 1.125 .318 .005010 1.125 .802 .134156 1.130 .200 .060070
1.079 .955 .005010 1.092 .615 .020030 1.098 .754 .120156 1.100 .877 .025040 1.103 .827 .020040 1.110 .880 .042130	1.117 .410 .156187 1.120 .800 .040050 1.123 .784 .040060 1.125 .321 .005020 1.125 .812 .080100 1.130 .302 .020040
1.080 .088 .005010 1.092 .695 .025040 1.098 .761 .005010 1.100 .882 .030040 1.103 .845 .060080 1.110 .893 .083 .083105	1.117 .566 .025040 1.120 .811 .030050 1.123 .807 .005010 1.125 .327 .062090 1.125 .813 .010020 1.130 .340 .170190
1.080 .276 .020040 1.092 .750 .015025 1.098 .846 .110130 1.100 .889 .015030 1.103 .857 .010020 1.110 .940 .005010	1.117 .620 .100125 1.120 .816 .060080 1.123 .815 .030060 1.125 .338 .020030 1.125 .815 .005010 1.130 .376 .005010
1.080 .320 .040060 1.092 .753 .048070 1.098 .929 .005010 1.100 .905 .040060 1.103 .886 .010020 1.110 .965 .042062	1.117 .750 .100125 1.120 .832 .015030 1.123 .853 .005010 1.125 .344 .062083 1.125 .823 .005010 1.130 .410 .060080
1.080 .328 .015030 1.092 .791 .010020 1.098 .939 .005010 1.100 .926 .010020 1.103 .947 .015030 1.110 1.006 .010020	1.117 .756 .050060 1.120 .870 .040060 1.123 .880 .030050 1.125 .362 .105134 1.125 .840 .105125 1.130 .500 .040060
1.080 .505 .005020 1.092 .811 .005010 1.099 .253 .005010 1.100 .941 .015050 1.104 .097 .060090 1.110 1.011 .005010	1.117 .758 .135156 1.120 .880 .020030 1.123 .884 .090105 1.125 .373 .042062 1.125 .845 .005050 1.130 .506 .100125
1.080 .571 .070090 1.092 .812 .015030 1.099 .318 .005010 1.100 .952 .010 0.020 1.104 .396 .060070 1.111 .391 .050070	1.117 .760 .020040 1.120 .882 .060083 1.123 .890 .080090 1.125 .375 .125156 1.125 .848 .062083 1.130 .589 .030050
1.080 .623 .020040 1.093 .239 .012020 1.099 .377 .005010 1.100 .961 .005010 1.104 .496 .005010 1.111 .556 .040060	1.117 .813 .062083 1.120 .890 .060090 1.123 .893 .020030 1.125 .376 .125156 1.125 .872 .100125 1.130 .751 .080105
1.080 .738 .060080 1.093 .405 .030060 1.099 .378 .010015 1.100 .965 .030050 1.104 .552 .110130 1.111 .567 .105125	1.117 .889 .010020 1.120 .920 .010020 1.123 .908 .005030 1.125 .378 .005090 1.125 .875 .032060 1.130 .759 .005010
1.080 .760 .020040 1.093 .421 .050070 1.099 .436 .020040 1.100 .987 .005035 1.104 .633 .110130 1.111 .711 .020030	1.117 .896 .015030 1.120 .945 .015030 1.123 .966 .015025 1.125 .380 .050075 1.125 .878 .005010 1.130 .791 .050070
1.080 .770 .050075 1.093 .500 .050075 1.099 .440 .005010 1.100 .992 .030050 1.104 .670 .080105 1.111 .751 .005010	1.117 .929 .042062 1.120 .997 .005010 1.123 .999 .040060 1.125 .383 .005012 1.125 .880 .010020 1.130 .800 .005010
1.080 .773 .030060 1.093 .641 .015030 1.099 .500 .005010 1.100 .994 .030050 1.104 .752 .050075 1.111 .775 .100125	1.117 .930 .050075 1.120 1.020 .005010 1.123 1.013 .005040 1.125 .390 .005070 1.125 .900 .040060 1.130 .821 .005010
1.080 .780 .005010 1.093 .681 .010030 1.099 .508 .005020 1.100 1.000 .005010 1.104 .826 .005010 1.112 .246 .060090	1.117 .954 .060080 1.121 .160 .010020 1.123 1.072 .005010 1.125 .391 .100125 1.125 .908 .070090 1.130 .855 .062083
1.080 .856 .020035 1.093 .830 .030050 1.099 .558 .010020 1.100 1.007 .010020 1.104 .945 .010020 1.112 .288 .070090	1.117 1.010 .030050 1.121 .260 .005010 1.124 .188 .100125 1.125 .406 .042075 1.125 .920 .050075 1.130 .882 .005010
1.080 .906 .005010 1.093 .871 .025040 1.099 .633 .020030 1.100 1.010 .005020 1.105 .126 .005010 1.112 .312 .060090	1.118 .138 .090110 1.121 .275 .060070 1.124 .199 .010020 1.125 .407 .020030 1.125 .935 .005008 1.130 .951 .070090
1.080 .935 .005010 1.093 .876 .025050 1.099 .650 .110130 1.101 .075 .005010 1.105 .252 .060078 1.112 .313 .080100	1.118 .506 .060075 1.121 .344 .005010 1.124 .251 .010020 1.125 .408 .100125 1.125 .938 .015030 1.130 1.001 .030050
1.080 .973 .030050 1.093 .878 .050075 1.099 .788 .010050 1.101 .255 .110 1.105 .360 .100 .100 .134 1.112 .413 .070090	1.118 .679 .025040 1.121 .386 .050070 1.124 .265 .005010 1.125 .410 .102125 1.125 .939 .050070 1.130 1.070 .005010
1.081 .341 .030050 1.093 .883 .035050 1.099 .816 .015025 1.101 .275 .060070 1.105 .496 .030050 1.112 .421 .025040	1.118 .754 .010020 1.121 .472 .030040 1.124 .273 .005010 1.125 .421 .008015 1.125 .940 .005010 1.131 .251 .050070
1.081 .793 .030050 1.093 .957 .005010 1.099 .840 .015025 1.101 .316 .020030 1.105 .592 .030050 1.112 .478 .050075	1.118 .768 .005010 1.121 .491 .080100 1.124 .317 .050090 1.125 .425 .013 1.125 .950 .040060 1.131 .515 .040060
1.081 .797 .005010 1.094 .313 .005010 1.099 .902 .010030 1.101 .317 .005010 1.105 .635 .010020 1.112 .500 .060090	1.118 .802 .005010 1.121 .511 .050070 1.124 .319 .020040 1.125 .438 .100125 1.125 .958 .020040 1.131 .664 .005010
1.083 .253 .050075 1.094 .395 .040060 1.100 .128 .005010 1.101 .354 .005010 1.105 .640 .010020 1.112 .538 .070090	1.118 .823 .110130
1.083 .475 .010020 1.094 .559 .020030 1.100 .162 .030042 1.101 .356 .015030 1.105 .703 .080090 1.112 .562 .015030	1.118 .940 .005010 1.121 .609 .134156 1.124 .437 .060080 1.125 .441 .090105 1.125 .967 .005010 1.131 .758 .020040
1.083 .670 .010020 1.094 .668 .080100 1.100 .253 .005010 1.101 .444 .010020 1.105 .749 .030070 1.112 .663 .070090	1.118 1.000 .040060
1.083 1.016 .020030	1.118 1.001 .050060 1.121 .644 .100125 1.124 .500 .005010 1.125 .455 .090125 1.126 .170 .050075 1.131 .956 .025042
1.084 .631 .080100 1.094 .846 .030050 1.100 .316 .005010 1.101 .502 .010020 1.105 .881 .070090 1.112 .776 .020040	1.119 .323 .050075 1.121 .664 .105125 1.124 .502 .005010 1.125 .468 .105125 1.126 .270 .025040 1.131 1.034 .025042
1.084 .645 .025040 1.094 .885 .030040 1.100 .346 .050070 1.101 .505 .015025 1.105 .886 .020030 1.112 .890 .030050	1.119 .403 .005010 1.121 .699 .005010 1.124 .509 .100125 1.125 .480 .040060 1.126 .385 .050070 1.132 .170 .060075
1.084 .721 .050070	1.119 .450 .030050 1.121 .720 .005010 1.124 .519 .005010 1.125 .500 .032042 1.126 .406 .100130 1.132 .955 .025050
1.084 .725 .040060 1.094 .993 .020030 1.100 .377 .010020 1.101 .719 .025040 1.105 .916 .005010 1.112 1.017 .020040	1.119 .602 .030050
1.084 .728 .040050 1.095 .375 .025080 1.100 .378 .015030 1.101 .788 .005010 1.105 .954 .005010 1.113 .330 .156190	1.119 .628 .080104 1.121 .761 .020040 1.124 .563 .010020 1.125 .504 .015025 1.126 .546 .060080 1.133 .199 .050060
1.084 .765 .040060	1.119 .658 .060080
1.084 .800 .015030 1.095 .591 .100125 1.100 .416 .015030 1.102 .237 .005010 1.106 .317 .015030 1.113 .757 .015025	1.119 .678 .030040 1.121 .871 .020030 1.124 .607 .100120 1.125 .515 .040050 1.126 .639 .005010 1.133 .971 .005010
1.084 .848 .005010 1.095 .625 .010020 1.100 .426 .157187 1.102 .239 .005010 1.106 .633 .078105 1.113 .760 .060090	1.119 .851 .030050
1.084 .871 .005010	1.119 .880 .080100
1.084 .926 .005010 1.095 .700 .060090 1.100 .440 .005020 1.102 .251 .025040 1.106 .782 .020040 1.113 .888 .010020 1.084 .927 .010020 1.095 .749 .040060 1.100 .452 .005010 1.102 .276 1.80190 1.106 .790 .040060 1.113 .910 .042060	1.119 .885 .040060
1100 1100 1100 1100 1010	1120 1100 1100 1100 1100 1100 1100 1100
1.085 .245 .030050	1.119 .921 .025042 1.122 .195 .005010 1.124 .639 .030050 1.125 .530 .006012 1.126 .851 .005125 1.134 .904 .040060 1.119 .926 .050070 1.122 .329 .030040 1.124 .663 .015030 1.125 .532 .156187 1.126 .880 .005010 1.135 .201 .050060
1.085 .476 .005010 1.095 .808 .015030 1.100 .485 .010020 1.102 .334 .005010 1.107 .912 .030050 1.113 1.011 .020030	1.119 1.041 .005010 1.122 .383 .030050 1.124 .687 .040060 1.125 .535 .020040 1.126 .938 .015025 1.135 .375 .010020
1.085 .572 .070090	1.120 .100 .050074
1.085 .650 .015030	1.120 .132 .015025
1.085 .036 .016036 .016036 .016036 .016036 .016036 .016036 .016036 .016036 .016036 .016036 .016036 .016036 .016036 .016036 .016036 .016036 .016 .036 .016 .036 .016 .036 .016 .036 .016 .036 .016 .036 .036 .016 .036 .036 .036 .036 .036 .036 .036 .03	1.120 .152 .015025
1.085 .749 .050070	1.120 .160 .030042 1.122 .505 .030125 1.124 .750 .005010 1.125 .566 .005010 1.127 .159 .025042 1.135 .770 .020040 1.135 .770 .020040
1.085 1.022 .005 .010 1.096 .375 .030 .060 1.100 .505 .005 .010 1.102 .301 .005 .010 1.108 .563 .005 .010 1.114 .551 .170 .180	1.120 .220 .104134
1.086 .643 .050030 1.096 .398 .050083 1.100 .506 .005010 1.102 .473 .005010 1.108 .636 .050070 1.114 .665 .010020	1.120 .255 .100125
1.086 .820 .010020 1.096 .441 .060075 1.100 .515 .100125 1.102 .474 .005010 1.108 .714 .060075 1.114 .749 .005010	1.120 .313 .062075 1.122 .595 .015030 1.124 .794 .020030 1.125 .573 .100125 1.127 .267 .048062 1.136 .946 .030050
1.086 .915 .020035 1.096 .450 .060070 1.100 .525 .010020 1.102 .476 .005020 1.108 .778 .030050 1.115 .204 .005010	1.120 .359 .090110 1.122 .627 .020040 1.124 .860 .104125 1.125 .590 .100125 1.127 .375 .020030 1.136 .961 .060075
1.086 .948 .032050 1.096 .500 .070090 1.100 .560 .005010 1.102 .477 .005010 1.108 .786 .015030 1.115 .224 .005010	1.120 .380 .025040 1.122 .629 .050070 1.124 .870 .020030 1.125 .594 .050075 1.127 .410 .100125 1.137 .253 .125135
1.087 .281 .030050 1.096 .577 .015030 1.100 .562 .040060 1.102 .511 .160190 1.108 .801 .030040 1.115 .256 .015030	1.120 .390 .020125 1.122 .750 .005015 1.124 .879 .005010 1.125 .609 .040060 1.127 .438 .005010 1.137 .693 .005010
1.087 .562 .036060 1.096 .675 .005015 1.100 .563 .015035 1.102 .541 .015030 1.108 .832 .005010 1.115 .500 .075090	1.120 .391 .005075 1.122 .755 .050070 1.124 .891 .030060 1.125 .625 .005010 1.127 .507 .005010 1.137 .814 .040060
1.087 .597 .005010 1.096 .690 .030050 1.100 .566 .005010 1.102 .564 .100120 1.108 .844 .050070 1.115 .642 .005010	1.120 .420 .040060 1.122 .758 .010020 1.124 .905 .005010 1.125 .626 .020105 1.127 .521 .025042 1.137 .907 .030050
1.087 .740 .040060 1.096 .754 .005010 1.100 .578 .080090 1.102 .590 .090105 1.109 .318 .010020 1.115 .644 .015030	1.120 .439 .050075 1.122 .771 .020040 1.124 .914 .060080 1.125 .628 .090125 1.127 .531 .060083 1.137 .953 .030050
1.087 .848 .005010 1.096 .803 .010020 1.100 .607 .075100 1.102 .598 .030050 1.109 .488 .005010 1.115 .645 .005010	1.120 .450 .100125
1.088 .194 .062083 1.096 .872 .005020 1.100 .626 .005020 1.102 .632 .005020 1.109 .504 .030050 1.115 .663 .005010	1.120 .472 .100125 1.122 .889 .020035 1.124 .961 .040060 1.125 .632 .090105 1.127 .643 .015025 1.138 .568 .070090
1.088 .214 .005010 1.096 .922 .025040 1.100 .627 .005010 1.102 .666 .040060 1.109 .506 .025040 1.115 .664 .005010	1.120 .496 .040060 1.122 .890 .005010 1.124 .967 .005010 1.125 .638 .010020 1.127 .695 .012018 1.138 .570 .025040
1.088 .306 .030050	1.120 .500 .060080 1.122 .891 .005010 1.124 1.087 .005010 1.125 .640 .156187 1.127 .773 .075090 1.138 .692 .156190
1.088 .541 .005010 1.096 .937 .032060 1.100 .630 .005015 1.102 .670 .030050 1.109 .830 .005010 1.115 .760 .005010	1.120 .507 .008016 1.122 .893 .015030 1.125 .080 .050075 1.125 .645 .100125 1.127 .885 .080100 1.138 .738 .025050
1.088 .840 .080100 1.097 .079 .005010 1.100 .632 .010075 1.102 .689 .050070 1.109 .835 .010020 1.115 .780 .050070	1.120 .512 .005015 1.122 1.002 .015025 1.125 .125 .040060 1.125 .654 .050075 1.127 .931 .050070 1.138 .781 .062083
1.089 .460 .020030 1.097 .598 .170190 1.100 .635 .005010 1.102 .766 .005010 1.109 .917 .040050 1.115 .807 .005010	1.120 .522 .100125
1.089 .687 .110130	1.120 .573 .005050 1.123 .208 .008016 1.125 .155 .060083 1.125 .669 .010020 1.127 .997 .005010 1.138 .872 .090110
1.089 .843 .050070 1.097 .638 .030050 1.100 .643 .050070 1.102 .787 .060080 1.110 .097 .045060 1.115 .875 .030050	1.120 .578 .040060
1.089 .875 .042060 1.097 .782 .005010 1.100 .672 .015035 1.102 .827 .010020 1.110 .228 .030042 1.115 .876 .050075	1.120 .591 .050060 1.123 .344 .005010 1.125 .162 .015030 1.125 .687 .090105 1.128 .314 .075090 1.138 .952 .030050
1.090 .120 .020030	1.120 .601 .060080
1.090 .245 .005010	1.120 .603 .010050
1.090 .314 .025036	1.120 .620 .120156
1.090 .329 .100125 1.097 .883 .005010 1.100 .696 .020040 1.102 .866 .050060 1.110 .467 .020040 1.116 .547 .050075 1.090 .340 .010020 1.097 .900 .030050 1.100 .700 .040060 1.102 .948 .005010 1.110 .517 .005010 1.116 .688 .005010	1.120 .625 .010020 1.123 .409 .156187 1.125 .189 .090125 1.125 .718 .075100 1.128 .747 .005010 1.139 .778 .015030 1.120 .628 .005010 1.123 .417 .020030 1.125 .202 .090120 1.125 .719 .040060 1.128 .749 .025040 1.140 .134 .060075
010 600. 600. 611.1 010 600. 116. 011.1 010 600. 648. 201.1 000 040. 001.1 060 060. 066. 160.1 020 610. 040. 060.1	070 000. 134. 041. 040 020. 841. 021.1 000 040. 811. 021.1 021 080. 202. 021.1 000 020. 114. 021.1 010 000. 020. 021.1
*IA/Ab DOL/ED/C avacining upplying the page the great third was a very the tool was a listed	*Mith POVED'S precision weakers you can absence the exact thickness you want from the tool range listed

0.0								BUKER	3 IVIE	IAL I	VASHER	, <u> </u>		I AND IC		E DE	BUKK
O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Ar Thickness*
1 101	.950	From To .010			From To	1 100		From To	1 107		From To	4.000	1 010	From To	1 017		.0050
1.181 1.181	.965	.012040	1.186 1.186	.975 1.015	.010030 .025040	1.189 1.189	.380 .627	.110130 .160190	1.197 1.197	.362 .376	.005010	1.200		.005020	1.217 1.217	1.013	.0200
	1.000	.012040	1.186		.025040	1.189	.751	.040060	1.197	.500	.030050	1.200 1.201	1.011	.050070 .005010	1.217	.277	.0200
	1.020	.005010	1.186		.015030	1.189	.798	.005010	1.197	.570	.005010	1.201	.314	.030050	1.218	.315	.0350
1.182	.315	.005010	1.187	.142	.005030	1.189	.828	.005010	1.197	.637	.005010	1.201	.395	.005030	1.218	.355	.0400
1.182	.316	.010020	1.187	.156	.050062	1.189	.999	.010020	1.197	.880	.005010	1.201	.562	.020030	1.218	.380	.0200
1.182	.317	.005020	1.187	.212	.040062		1.032	.005010	1.197		.020035	1.201	.721	.050070	1.218	.439	.0300
1.182	.395	.010020	1.187	.283	.080104	1.190	.128	.030050	1.198	.398	.105125	1.201	.755	.005010	1.218	.474	.0050
1.182	.398	.005010	1.187	.313	.010025	1.190	.250	.100125	1.198	.441	.010020	1.201	.760	.050070	1.218	.565	.0420
1.182	.429	.060070	1.187	.374	.042062	1.190	.265	.062090	1.198	.500	.005010	1.201	.763	.050075	1.218	.627	.0050
1.182	.506	.005020	1.187	.378	.005010	1.190	.317	.100125	1.198	.522	.005010	1.201	.774	.025040	1.218	.758	.0250
1.182	.550	.050060	1.187	.390	.134187	1.190	.392	.090110	1.198	.552	.025040	1.201	.800	.015030	1.218	.855	.0600
1.182	.558	.080100	1.187	.404	.020040	1.190	.410	.010020	1.198	.632	.030050	1.201	1.003	.010020	1.218	.856	.0600
1.182	.561	.030050	1.187	.477	.100125	1.190	.500	.032050	1.198	.640	.070090	1.201	1.050	.050062	1.218	.889	.0500
1.182 1.182	.635 .714	.100125	1.187	.512 .516	.060080	1.190	.531	.050070	1.198	.875	.025042	1.202	.439	.040060	1.218	1.038	.0600
1.182	.750	.090120	1.187	.519	.065080 .010020	1.190 1.190	.543 .564	.060080 .020035	1.198 1.198	.890 1.045	.025040 .020040	1.202	.793 .937	.015030 .025040	1.219	.268	.0600
1.182	.752	.100125	1.187	.550	.025040	1.190	.626	.025070			.010030	1.202 1.202	.996	.025040	1.219	.270	.0050
1.182	.753	.005010	1.187	.594	.080100	1.190	.656	.110120	1.198		.020040		1.057	.010020	1.219	.315	.0350
1.182	.801	.010020	1.187	.625	.030050	1.190	.738	.050070	1.199	.187	.020040	1.202	1.065	.010020	1.219	.473	.0050
1.182	.867	.010020	1.187	.632	.006020	1.190	.752	.042060	1.199	.379	.020040	1.203	.138	.020040	1.219	.515	.0500
1.182	.879	.060080	1.187	.636	.115135	1.190	.753	.015040	1.199	.503	.005010	1.203	.353	.060080	1.219	.534	.0500
1.182	.906	.005010	1.187	.640	.040060	1.190	.787	.080104	1.199	.510	.005030	1.203	.439	.050075	1.219	.552	.005
1.182	.960	.005010	1.187	.656	.048062	1.190	.817	.048062	1.199	.550	.005010	1.203	.502	.100125	1.219	.595	.025
1.182	.993	.005010	1.187	.660	.005010	1.190	.830	.040125	1.199	.562	.015030	1.203	.627	.005010	1.219	.642	.005
1.183	.405	.010020	1.187	.674	.090120	1.190	.881	.025040	1.199	.679	.005010	1.203	.793	.015030	1.219	.751	.010
1.183	.485	.110130	1.187	.686	.060075	1.190	.890	.050060	1.199	.735	.050070	1.203	.822	.015025	1.219	.801	.005
1.183	.771	.060080	1.187	.687	.050083	1.190	.918	.010020	1.199	.737	.020040	1.203	.961	.015030	1.219	.890	.020
1.183 1.183	.807 .810	.006015 .105125	1.187 1.187	.688 .753	.060080 .050060	1.190		.030040	1.199	.830 .985	.040060	1.203	1.004	.030050	1.219 1.219	.940 1.000	.040 .020
1.183	.933	.070090	1.187	.755	.020040	1.190	.459	.005010 .010020	1.199	1.012	.020030	1.204 1.204	.757 1.030	.005015 .005010	1.220	.125	.020
	1.000	.040060	1.187	.757	.100125	1.191	.460	.020040	1.199	1.050	.040060	1.204	.508	.040060	1.220	.194	.075
1.184	.127	.060083	1.187	.765	.025083	1.191	.560	.170190	1.199		.005010	1.205	.870	.005090	1.220	.258	.050
1.184	.325	.050060	1.187	.812	.062083	1.191	.646	.005010	1.200	.086	.010020	1.205	.922	.015030	1.220	.283	.015
1.184	.585	.010020	1.187	.823	.032120	1.191	.731	.030050	1.200	.138	.050070	1.206	.920	.025040	1.220	.375	.090
1.184	.626	.050074	1.187	.825	.005010	1.191	.882	.005010	1.200	.168	.030050	1.206	1.072	.005010	1.220	.394	.005
1.184	.635	.062083	1.187	.874	.010020	1.191	.900	.070090	1.200	.186	.020040	1.207	.258	.050070	1.220	.455	.012
1.184	.730	.025040	1.187	.880	.010020	1.191	.934	.050075	1.200	.213	.040060	1.207	.381	.160190	1.220	.476	.005
1.184 1.184	.753 .807	.005010 .005010	1.187 1.187	.881 .882	.005010 .010025	1.192 1.192	.739 .778	.030050 .040060	1.200	.220 .250	.005010	1.207	.707 .974	.005010 .050070	1.220 1.220	.504 .507	.005 .110
1.184	.995	.005010	1.187	.944	.010025	1.192		.040060	1.200 1.200	.250	.080100	1.207 1.208	.259	.005010	1.220	.564	.010
	1.073	.005010	1.187	.954	.005010		1.014	.020040	1.200	.327	.010020	1.208	.390	.010050	1.220	.602	.090
1.185	.089	.060090	1.187	1.017	.005012	1.193	.159	.005010	1.200	.350	.005010	1.209	.893	.020030	1.220	.640	.100
1.185	.252	.040060	1.187	1.025	.050060	1.193	.282	.050060	1.200	.376	.005020	1.210	.312	.015030	1.220	.672	.025
1.185	.313	.100125		1.029	.005010	1.193	.445	.060078	1.200	.377	.100125	1.210	.383	.050075	1.220	.680	.030
1.185	.315	.050075		1.031	.005010	1.193	.640	.040060	1.200	.378	.005125	1.210	.674	.050062	1.220	.699	.030
1.185	.328	.100125	1.188	.094	.020030	1.193	.940	.060080	1.200	.383	.090125	1.210	.878	.005020	1.220	.799	.010
1.185	.365	.075125	1.188	.128	.020035	1.193	1.003	.010020	1.200	.408	.050070	1.210	.958	.100125	1.220	.809	.050
1.185 1.185	.375 .435	.100125 .100125	1.188	.195	.040062	1.194	.760	.050070	1.200	.443	.005020	1.210	1.038	.050075	1.220 1.220	.831	.060 .050
1.185	.437	.060080	1.188 1.188	.240 .254	.050070 .050070	1.194 1.194	.932	.030050 .050070	1.200 1.200	.500 .501	.005020 .005020	1.211	.201	.010020 .075090	1.220	.844 .875	.062
1.185	.568	.005010	1.188	.310	.050070	1.194		.005010	1.200	.502	.005020	1.211	.751	.050075	1.220	.960	.050
1.185	.609	.030040	1.188	.312	.005010	1.194		.060080	1.200	.503	.005020	1.211		.005010	1.220		.010
1.185	.645	.010040	1.188	.326	.062083	1.194		.005010	1.200	.504	.005020	1.211		.010020	1.220		.005
1.185	.700	.005015	1.188	.439	.060080	1.194		.005010	1.200	.520	.050070	1.212		.030050	1.220		.042 -
1.185	.709	.100125	1.188	.508	.020040	1.195	.057	.005010	1.200	.562	.005020	1.212		.015030		1.116	.040 -
1.185	.753	.005010	1.188	.515	.040060	1.195	.312	.005010	1.200	.570	.080100	1.212	1.015	.020040	1.221	.131	.015 -
1.185	.755	.030050	1.188	.530	.048075	1.195	.379	.040050	1.200	.600	.105125		1.016	.020040	1.221	.194	.020 -
1.185	.768	.005010	1.188	.563	.005075	1.195	.575	.120135		.626	.005020	1.212		.070090	1.221	.257	.040 -
1.185	.783	.050125	1.188	.621	.080100	1.195	.641	.040060		.629	.010020	1.213		.005020	1.221	.867	.020 -
1.185	.875 880	.050083	1.188	.623	.040060	1.195	.692	.008020	1.200	.642	.015030	1.213		.015025	1.221	.899	.025 -
1.185 1.185	.880 .908	.012025 .005020	1.188 1.188	.626 .656	.105125 .025040	1.195	.730 .795	.030050		.650 .751	.025042 .030050	1.214	.569	.050070	1.221 1.221	.916 .985	.005 - .074 -
1.185	.940	.030062	1.188	.688	.040060	1.195 1.195	.795	.050070 .015030	1.200 1.200	.751	.030050	1.214 1.214	.860 .879	.030050 .015025	1.221	.986	.020 -
1.185	.973	.005010	1.188	.720	.030050	1.195	.872	.005010	1.200	.760	.020040	1.214		.015025	1.221		.010 -
1.185	.990	.080104	1.188	.759	.156187	1.195	.912	.010020	1.200	.761	.120135	1.215	.260	.040060	1.221		.035 -
1.185		.040060	1.188	.763	.005105	1.195	.915	.005010	1.200	.786	.080090	1.215	.410	.010020	1.222	.194	.020 -
1.185		.005010	1.188	.765	.070090	1.195	.964	.032048	1.200	.796	.005010	1.215	.474	.005010	1.222	.691	.020 -
	1.067	.015030	1.188	.799	.050070	1.195	.980	.005015	1.200	.817	.080105	1.215	.753	.030050	1.222	.835	.020 -
1.186	.189	.105125	1.188	.880	.005160	1.195	.983	.010020	1.200	.829	.005010	1.215	.875	.062090	1.222	.877	.090 -
1.186	.378	.156190	1.188	.920	.010020	1.195		.060080	1.200	.865	.135156	1.215	.906	.010020	1.222		.005 -
1.186	.437	.010100	1.188	.922	.040060	1.195		.010030	1.200	.900	.030050	1.216	.377	.060083		1.063	.040 -
4 400	.506	.060090	1.188		.005010	1.195		.010020	1.200	.935	.005010		1.000	.005010	1.222		.005 -
1.186	.559 685	.090125		1.000	.062089	1.195		.015030	1.200	.952	.030040	1.216		.070090	1.223	.252	.110 -
1.186	.685	.020040 .020040		1.001	.005010 .015025	1.196 1.196	.081	.005010 .025042	1.200	.990 1.000	.005020 .005060	1.216 1.217	.701	.005010 .005010	1.223	.385	.100 -
1.186 1.186	710	.020040		1.038	.025040	1.196	.204	.025042		1.000	.005060	1.217	.757	.005010	1.223	.628	.000 -
1.186 1.186 1.186	.710 .740	040 - 060			.0-0 .0-0	1.190							.902				.025 -
1.186 1.186 1.186 1.186	.740	.040060 .005010				1.196	859	040 - 060	1 2000	7 (1/4×	005 - 000	1.217	.502	.005013	1.//.3	./:::::::::::::::::::::::::::::::::::::	
1.186 1.186 1.186		.040060 .005010 .010020	1.189 1.189	.140	.015030 .025040	1.196 1.196	.859 1.013	.040060 .005010		1.048	.005010 .025040	1.217 1.217	.995	.005015 .005010	1.223 1.223	.755 .793	.020

									NO	100	LING CH	ANGE	FUR	ANT OF	THE,	SIZES	SLISTE
O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*
1.140	.195	.060075	1.150	.125	.062083	1.156	.562	.010020	1.168	.922	.005010	1.175	.260	.090125	1.180	.239	.10512
1.140	.210	.060075	1.150	.186	.062083	1.156	.565	.100130	1.168	.985	.005020	1.175	.438	.015030	1.180	.251	.156187
1.140	.260	.060075	1.150	.187	.030050	1.156	.582	.050075	1.168	.996	.005015	1.175	.514	.020035	1.180	.315	.025040
1.140	.320	.060075	1.150	.203	.062083	1.156	.765	.105135	1.168	1.000	.005010	1.175	.625	.010020	1.180	.317	.090110
1.140	.357	.020040	1.150	.250	.062083	1.156	.794	.040062	1.169	.126	.010025	1.175	.715	.010020	1.180	.319	.005010
1.140	.383	.060075	1.150	.252	.005010	1.156	.812	.005012	1.169	.390	.060083	1.175	.716	.005010	1.180	.331	.140160
1.140 1.140	.570 .627	.010125 .020040	1.150 1.150	.313 .375	.062083	1.156 1.156	.890 .893	.050070 .005020	1.169 1.169	.410 .419	.070090 .090125	1.175 1.175	.726 .750	.005010 .005010	1.180 1.180	.354 .357	.010020 .150170
1.140	.629	.020040	1.150	.376	.010020	1.156	.906	.025040	1.169	.691	.090125	1.175	.814	.020040	1.180	.383	.04807
1.140	.642	.030060	1.150	.377	.015030	1.156	.911	.020040	1.169	.698	.030050	1.175	.840	.005010	1.180	.398	.005020
1.140	.657	.005020	1.150	.381	.005020	1.156	.966	.005010	1.169	.796	.020040	1.175	.868	.005010	1.180	.409	.005010
1.140	.690	.020040	1.150	.382	.020030	1.156	.968	.010030	1.169	.878	.080100	1.175	.905	.030050	1.180	.438	.050070
1.140	.722	.005010	1.150	.383	.105125	1.157	.378	.050070	1.169	.880	.040060	1.175	.910	.005010	1.180	.472	.005010
1.140	.723	.005010	1.150	.450	.005010	1.157	.570	.020040	1.169	.883	.005010	1.175	.925	.020030	1.180	.474	.005010
1.140	.742	.005010	1.150	.503	.005020	1.157	.748	.015030	1.169	.995	.005010	1.175	.947	.015030	1.180	.475	.005010
1.140	.753	.010020	1.150	.505	.005010	1.157	.785	.020030	1.169	1.119	.010020	1.175	.985	.080100	1.180	.476	.02504
1.140 1.140	.780 .809	.005010 .005010	1.150 1.150	.553 .628	.005010	1.158 1.158	.237 .408	.020040 .010030	1.169	1.590	.015030	1.175	.999	.015020	1.180 1.180	.485 .499	.01002 .01502
1.140	.812	.031042	1.150	.630	.005010	1.158	.476	.010030	1.170 1.170	.224 .256	.005010 .020030		1.031	.005010 .010020	1.180	.512	.00502
1.140	.936	.005010	1.150	.736	.005002	1.158	.504	.005010	1.170	.378	.020030	1.175	.127	.010020	1.180	.521	.07009
1.140	.950	.005015	1.150	.750	.040090	1.158	.505	.010020	1.170	.440	.090105	1.176	.371	.040060	1.180	.540	.01502
1.140	.961	.005010	1.150	.763	.005010	1.158	.588	.020030	1.170	.524	.005010	1.176	.439	.005010	1.180	.563	.01002
1.140	.970	.025050	1.150	.803	.040060	1.158	.971	.050060	1.170	.611	.020040	1.176	.443	.005020	1.180	.635	.04006
1.140	.990	.015030	1.150	.814	.048125		1.052	.015030	1.170	.675	.032050	1.176	.500	.070090	1.180	.638	.00501
	1.010	.005010	1.150	.830	.032042	1.159	.298	.025040	1.170	.710	.005010	1.176	.506	.005010	1.180	.671	.15017
1.140		.005010	1.150	.951	.025040	1.159	.393	.015030	1.170	.758	.050070	1.176	.589	.020030	1.180	.694	.08010
1.141	.162	.030050	1.150	.986	.005020	1.159	.687	.020040	1.170	.793	.030050	1.176	.625	.040105	1.180	.714	.12013
1.141	.394	.005010	1.150	.988	.010020 .005012	1.159	.901	.005010	1.170	.815	.005010	1.176	.682	.005010	1.180	.747	.03005
1.141 1.141	.395 .642	.005015 .090105	1.150 1.150	.993 1.045	.005012	1.159	1.008	.015025	1.170	.860	.020040	1.176	.756	.030050	1.180 1.180	.773 .787	.01503 .01002
1.141	.717	.015025		1.050	.030040	1.160 1.160	.130	.025035 .035050	1.170 1.170	.870 .880	.010020	1.177 1.177	.271 .445	.005015 .005030	1.180	.788	.09010
1.141	.787	.005010	1.151	.127	.020040	1.160	.655	.100125	1.170	.919	.025040	1.177	.525	.010020	1.180	.789	.01005
1.141	.818	.105125	1.151	.157	.035050	1.160	.710	.030050	1.170	.920	.005010	1.177	.759	.050070	1.180	.793	.10512
1.142	.132	.010020	1.151	.249	.015030	1.160	.750	.042062	1.170	.936	.010025	1.177	.782	.005010	1.180	.808	.02004
1.142	.472	.005010	1.151	.633	.010020	1.160	.752	.030048	1.170	.985	.040062	1.177	.790	.030050	1.180	.890	.01002
1.142	.532	.080100	1.151	.700	.005010	1.160	.759	.030050	1.170	1.000	.020032	1.177	.823	.093125	1.180	.895	.00501
1.142	.552	.005010	1.151	.729	.005010	1.160	.800	.050062	1.170	1.002	.005020	1.177	.865	.062090	1.180	.903	.00501
1.142	.638	.020040	1.151	.755	.062120	1.160	.829	.060080	1.171	.259	.010015	1.177	.875	.025040	1.180	.947	.01002
1.142	.751	.005020	1.151	.900	.010020	1.160	.889	.025040	1.171	.659	.025040	1.177	.878	.105135	1.180	.981	.00501
1.142	.753 .790	.090110		1.046	.005010	1.160	.942	.050075	1.171	.778	.040060	1.177	.883	.105120	1.180	.995 1.015	.00504 .04006
1.142 1.142	.826	.005010 .080104	1.152 1.152	.380	.020030 .005010	1.160 1.160	.955 .989	.030060 .032050	1.171 1.171	.853 .965	.050070 .070090	1.177 1.177	.893 .911	.005010 .050070	1.180 1.180	1.015	.04006
1.142	.945	.040080	1.152	.563	.040060	1.161	.408	.005030	1.171	1.005	.060080	1.177	.954	.060080	1.181	.239	.00501
1.143	.187	.060075	1.152	.673	.120135	1.161	.753	.060080	1.171		.005010	1.177	.989	.070090	1.181	.252	.00501
1.143	.206	.040060	1.152	.781	.090105	1.161	.770	.010020	1.171	1.105	.005010	1.177	.990	.025040	1.181	.265	.03005
1.143	.250	.060075	1.152	1.048	.010020	1.161	.794	.080100	1.172	.190	.040060	1.177	.992	.005010	1.181	.326	.00501
1.143	.313	.060075	1.152	1.053	.010020	1.161	.922	.040060	1.172	.356	.090110	1.177	1.000	.005010	1.181	.335	.06007
1.143	.314	.062080	1.153	.062	.025042	1.162	.443	.070090	1.172	.473	.120135	1.178	.380	.090125	1.181	.379	.00501
1.143	.375	.060075	1.153	.626	.010032	1.162	.600	.075100	1.172	.523	.005010	1.178	.395	.100125	1.181	.394	.01503
1.143	.376	.020035	1.153	.731	.100125	1.162	.906	.060080	1.172	.600	.050187	1.178	.442	.060080	1.181	.395	.00506
1.143	.504	.005020	1.153	.843	.015030	1.162	.955	.040060	1.172	.628	.040060	1.178	.631	.005020	1.181	.396	.08010
1.143 1.143	.651 .739	.140160 .005010	1.154	.159	.030060	1.163	.408	.010020 .135156	1.172	.632	.030040	1.178	.636	.005010	1.181	.414 .472	.09010 .01002
1.143	.812	.100120	1.154 1.154	.375 .387	.100125	1.163 1.163	.419 .480	.040060	1.172 1.172	.694 .800	.050075 .010020	1.178	.663	.090110 .005010	1.181 1.181	.472	.01002
1.143	.848	.015040	1.154	.499	.050075	1.163	.800	.030042	1.172	.816	.050075	1.178 1.178	.709 .753	.015010	1.181	.474	.0050
1.143	.916	.005010	1.154	.584	.030060	1.163	.846	.040060	1.172	.819	.005010	1.178	.820	.015030	1.181	.477	.00501
1.143	.952	.050070	1.154	.609	.005010	1.163		.010020	1.172	.897	.030050	1.178		.020040	1.181	.482	.03006
1.145	.210	.005010	1.154	.710	.005010	1.164	.351	.005010	1.172	.917	.080090	1.179	.170	.010020	1.181	.512	.10512
1.145	.355	.135156	1.154	.787	.090100	1.164	.787	.083120	1.172	.958	.050062	1.179	.381	.170190	1.181	.518	.1351
1.145	.856	.005010	1.154	.803	.030050	1.164	.801	.060080	1.172		.050075	1.179	.473	.010020	1.181	.531	.01002
1.145	.896	.030060	1.154	.856	.025040	1.164	.802	.040060	1.173	.063	.015025	1.179	.502	.005010	1.181	.552	.1051
1.145		.030050	1.154	.875	.010020	1.164	.946	.031048	1.173	.412	.130150	1.179	.569	.030060	1.181	.560	.1001
1.146	.289	.015030	1.154	.877	.005010	1.165	.315	.070090	1.173	.413	.156190	1.179	.632	.010020	1.181	.577	.0700
1.146		.005010	1.154	.921	.020040	1.165	.735	.010020	1.173	.600	.090105	1.179	.641	.050070	1.181	.607	.0050
1.146		.005020 .010020	1.154		.005010	1.165	.781	.070090	1.173	.710	.005010	1.179	.648	.015030	1.181	.627 .628	.0200
1.146 1.147	.316	.050070	1.155 1.155	.250 .266	.040060 .050075	1.165 1.165		.005015 .005010	1.173 1.173	.722 .804	.005010 .030050	1.179 1.179	.687 .721	.030060 .060080	1.181 1.181	.626 .640	.0250 .0901
1.147	.775	.070090	1.155	.437	.050075	1.165		.005010	1.173	.851	.030030	1.179	.829	.030060	1.181	.649	.1601
1.148	.221	.070090	1.155	.501	.075090	1.165		.005010	1.173	.891	.020030	1.179	.874	.005010	1.181	.669	.0700
1.148	.251	.105135	1.155	.510	.030040	1.166	.689	.010020	1.173	.940	.070090	1.179	.875	.005010	1.181	.696	.0100
1.148	.630	.020030	1.155	.567	.020040	1.166	.957	.025035	1.173	.998	.020030	1.179	.911	.040062	1.181	.708	.0050
1.148	.809	.005010	1.155	.594	.080105	1.167	.990	.060080	1.174	.207	.100125	1.179	.914	.035050	1.181	.787	.1351
1.148	.941	.020030	1.155	.766	.020030	1.168	.194	.020030	1.174	.261	.125156	1.179	.931	.040060	1.181	.801	.0050
1.149	.187	.030050	1.155	.775	.030050	1.168	.229	.020040	1.174	.419	.090105	1.179	.936	.040060	1.181	.802	.0250
1.149	.313	.090110	1.155	.823	.010020	1.168	.458	.005010	1.174	.876	.030050	1.179	.996	.040060	1.181	.829	.0250
1.149	.383	.010015	1.155	.967	.025042	1.168	.600	.135156	1.174	.891	.060080	1.179		.025040	1.181	.877	.0400
1.149	.632	.060080	1.156	.125	.005010	1.168	.697	.025040	1.174	.921	.020040	1.179		.020040	1.181	.885	.0400
1.149	.851	.005010	1.156	.188	.100125	1.168	.704	.135156	1.174	.963	.015030	1.180	.140	.016032	1.181	.891	.0600
		.030050	1.156	.379	.040060	1.168	.750	.005010	1.175	.054	.020040	1.180	.156	.060080	1.181	.943	.03008
1.149	.943 .999	.040060	1.156	.532	.025040	1.168	.843	.005010	1.175	.063	.020032	1.180	.238	.005010	1.181	.945	.01002

									NO	1001	LING CH	ARGE	FUR	ANT OF	IHE:	SIZES	LISIE
O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Ar Thickness'
1.223	.998	.005030	1.235	.945	.010020	1.242	1.021	.015030	1.246	.909	.050075	1.248	1.004	.062083	1.250	.203	.0161
1.223	1.020	.030060	1.235	.962	.010020	1.243	.220	.035060	1.246	.937	.005010	1.248	1.020	.005010	1.250	.208	.0050
1.223	1.069	.010020	1.235	1.007	.020040	1.243	.405	.030050	1.246	.952	.050067	1.248	1.045	.015030	1.250	.213	.0100
	1.085	.005010	1.235	1.010	.005020	1.243	.491	.125156	1.246	1.035	.075090	1.248	1.060	.005015	1.250	.217	.0150
.224	.754	.070090	1.236	.131	.005010	1.243	.613	.005010	1.246	1.046	.020040	1.248	1.145	.040060	1.250	.227	.0050
	1.020	.020040	1.236	.413	.005010	1.243	.614	.005010	1.246	1.060	.020040	1.249	.140	.005050	1.250	.250	.0200
	1.090	.040060	1.236	.500	.005010	1.243	.699	.005010	1.247	.064	.015030	1.249	.188	.015030	1.250	.252	.0121
.225	.120	.015030	1.236	.501	.090110	1.243	.855	.070090	1.247	.125	.040060	1.249	.203	.005105	1.250	.254	.0050
.225	.375	.015030	1.236	.635	.005010	1.243	.965	.090105	1.247	.254	.060080	1.249	.250	.030050	1.250	.255	.0050
.225	.564	.010020	1.236	.644	.060070	1.243		.005010	1.247	.263	.050075	1.249	.253	.005010	1.250	.259	.0050
.225	.640	.005010	1.236	.812	.020040	1.243		.030040	1.247	.354	.100125	1.249	.318	.170190	1.250	.260	.0400
.225	.826	.040060	1.236	.967	.020040		1.037	.015030	1.247	.378	.005010	1.249	.319	.036060	1.250	.262	.0500
.225	.947	.010020	1.236	1.122	.005010		1.100	.042060	1.247	.392	.005010	1.249	.320	.105125	1.250	.264	.0100
.226 .226	.525 .750	.015030 .135156	1.237 1.237	.867 .930	.030050	1.244	.150	.015030	1.247	.450	.020030	1.249	.327	.015030	1.250 1.250	.266 .273	.1201
.227	.381	.005010	1.238	.326	.050070	1.244	.543	.005010 .060125	1.247 1.247	.503 .572	.030050 .030048	1.249	.328	.090125	1.250	.280	.0620
.227	.777	.005010	1.238	.640	.070090	1.244	.770	.020083	1.247	.684	.110120	1.249 1.249	.380 .391	.105125 .042060	1.250	.283	.0600
.227	.812	.005010	1.238	.661	.020030	1.244	.782	.070090	1.247	.699	.005010	1.249	.401	.100125	1.250	.286	.0500
.227	.966	.010020	1.238	.890	.070090	1.244	.793	.005010	1.247	.754	.050070	1.249	.427	.020040	1.250	.295	.0250
.228	.661	.080100	1.239	.718	.005010	1.244	.801	.025040	1.247	.816	.005050	1.249	.444	.036060	1.250	.311	.0200
.228	.926	.010020	1.239	.779	.020030	1.244	.878	.105135	1.247	.850	.070090	1.249	.450	.005010	1.250	.311	.0500
	1.012	.005010	1.239	.879	.062083	1.244	.967	.080100	1.247	.874	.015030	1.249	.455	.005010	1.250	.312	.0050
.229	.416	.005010	1.239	.885	.020030	1.244		.025040	1.247	.937	.016025	1.249	.495	.005010	1.250	.314	.105
.229	.591	.040060	1.239	.950	.010020	1.244		.070090	1.247	.978	.050070	1.249	.510	.070090	1.250	.320	.0050
229	.753	.020040	1.239	.962	.020060	1.244		.005010	1.247	.992	.062083	1.249	.516	.030050	1.250	.327	.0200
.229	.757	.025070	1.239		.015030	1.245	.205	.005075	1.247		.020030	1.249	.532	.156187	1.250	.329	.0700
.229	.785	.032050	1.240	.065	.030040	1.245	.315	.156187	1.247		.035050	1.249	.549	.005010	1.250	.340	.0050
.229	.861	.070090	1.240	.127	.090105	1.245	.340	.005010	1.248	.145	.050075	1.249	.578	.060070	1.250	.341	.0200
.229	.917	.025042	1.240	.130	.040060	1.245	.501	.100125	1.248	.147	.030040	1.249	.605	.005010	1.250	.343	.080
.229	.919	.005010	1.240	.163	.070090	1.245	.527	.005010	1.248	.178	.100125	1.249	.623	.040060	1.250	.354	.0050
.229	.920	.010020	1.240	.172	.010020	1.245	.528	.050070	1.248	.202	.050070	1.249	.635	.005010	1.250	.356	.015
.230	.145	.050070	1.240	.323	.062083	1.245	.550	.015035	1.248	.219	.040060	1.249	.650	.020030	1.250	.359	.060
.230	.176	.040060	1.240	.325	.060083	1.245	.560	.005010	1.248	.255	.005010	1.249	.651	.020040	1.250	.365	.020
.230	.201	.125156	1.240	.378	.005020	1.245	.565	.050083	1.248	.262	.005010	1.249	.660	.020040	1.250	.375	.090
.230	.378	.060080	1.240	.380	.030048	1.245	.595	.080100	1.248	.263	.050075	1.249	.663	.060080	1.250	.377	.0050
.230	.381	.042062	1.240	.412	.005010	1.245	.631	.015025	1.248	.325	.030050	1.249	.689	.050075	1.250	.378	.0050
.230	.501	.050070	1.240	.451	.015030	1.245	.636	.050070	1.248	.333	.050070	1.249	.690	.080100	1.250	.379	.0120
.230	.562	.110130	1.240	.484	.070090	1.245	.741	.015025	1.248	.344	.042060	1.249	.721	.030050	1.250	.382	.100:
.230	.612	.050070	1.240	.560	.075105	1.245	.754	.050075	1.248	.354	.100125	1.249	.723	.010020	1.250	.383	.0300
.230	.761	.005010	1.240	.581	.010020	1.245	.756	.010020	1.248	.375	.005010	1.249	.752	.090110	1.250	.390	.0050
.230	.766 .890	.050134	1.240	.635	.030040	1.245	.758	.040060	1.248	.377	.020040	1.249	.756	.036060	1.250	.397	.0050
.230 .230	.911	.030050 .015025	1.240 1.240	.661 .697	.050105 .030072	1.245 1.245	.760 .768	.060080 .015025	1.248	.378	.042062	1.249	.758	.005010	1.250 1.250	.406 .407	.100 .005
.230	.921	.025040	1.240	.710	.040060	1.245	.773	.015025	1.248 1.248	.428 .451	.005010 .005010	1.249 1.249	.797 .800	.030050 .030050	1.250	.413	.100
.230	.925	.010030	1.240	.720	.020040	1.245	.788	.025040	1.248	.453	.005010	1.249	.812	.050030	1.250	.436	.100
.230	.981	.020030	1.240	.749	.010020	1.245	.836	.030050	1.248	.455	.090120	1.249	.850	.015030	1.250	.437	.0100
.230	.985	.010020	1.240	.812	.025040	1.245	.852	.005010	1.248	.471	.005010	1.249	.905	.015030	1.250	.440	.040:
	1.005	.030050	1.240	.814	.005010	1.245	.880	.015030	1.248	.500	.135187	1.249	.920	.005010	1.250	.441	.0050
.230	1.053	.020040	1.240	.851	.030050	1.245	.887	.050070	1.248	.505	.005020	1.249	.925	.105125	1.250	.442	.040
	1.080	.005010	1.240	.875	.030125	1.245	.906	.100120	1.248	.508	.105125	1.249	.951	.005010	1.250	.443	.105
.231	.625	.060080	1.240	.937	.090105	1.245	.921	.030050	1.248	.510	.005010	1.249	.961	.007015	1.250	.445	.100
.231	.915	.010020	1.240	.938	.020040	1.245	.945	.005020	1.248	.517	.005125	1.249		.030050	1.250	.455	.0150
	1.048	.005010	1.240	.960	.025040	1.245	.947	.080104	1.248	.532	.005010	1.249		.030050	1.250	.480	.0400
.232	.185	.015030		1.015	.025070	1.245	.948	.070090	1.248	.535	.005010	1.249		.025040	1.250	.500	.005
.232	.500	.005010		1.036	.030050	1.245	.990	.100125	1.248	.550	.050070	1.249		.075090	1.250	.501	.070
.232	.661	.040060	1.240	1.062	.010020	1.245	1.010	.020105	1.248	.559	.156187	1.249		.010020	1.250	.503	.005
.232	.751	.005010		1.070	.005010	1.245		.010020	1.248	.574	.005010	1.249		.005010	1.250	.504	.006
.232	.792	.120130		1.075	.030050	1.245		.005010	1.248	.627	.010020	1.249	1.156	.015030	1.250	.505	.0050
	1.027	.040060		1.120	.025042	1.245		.005010	1.248	.636	.110130				1.250	.507	.005
	1.028	.005010	1.241	.279	.005030	1.245		.005010	1.248	.651	.090105				1.250	.508	.015
	1.065	.005010	1.241	.500	.050060	1.245		.005015	1.248	.656	.005010	_			1.250	.510	.090
	1.131	.020030	1.241	.641	.050075	1.246	.252	.080104	1.248	.689	.050070	4		50	1.250	.512	.135
.234	.087	.015030	1.241	.750	.030050	1.246	.254	.015030	1.248	.695	.005010				1.250	.518	.005
234	.279	.005010	1.241	.761	.105125	1.246	.261	.075090	1.248	.723	.005010				1.250	.520	.020
.234	.392	.134156	1.241	.782	.110130	1.246	.287	.005010	1.248	.742	.100125	1 250	.040	005 010	1.250	.531	.135
.234	.505 .849	.070090 .020040	1.241	.788	.010020	1.246	.384	.050083	1.248	.749	.050070	1.250 1.250	.040	.005010 .025040	1.250 1.250	.534 .540	.036005
.234	.906	.105120	1.241 1.241	.937 .945	.030050 .020040	1.246 1.246	.566 .701	.005010 .110130	1.248 1.248	.750 .752	.005010 .008015	1.250	.125	.050075	1.250	.562	.050
.234	.950	.090110	1.241	.945	.020040	1.246	.701	.015030	1.248	.752 .760	.008015	1.250	.123	.030073	1.250	.563	.0050
	1.015	.008016	1.241	.994	.020030	1.246	.750	.015030	1.248	.760	.025040	1.250	.140	.020125	1.250	.564	.104
	1.015	.030050		1.063	.020035	1.246	.753	.050070	1.248	.810	.005010	1.250	.148	.020123	1.250	.571	.0400
	1.023	.020030		1.110	.050033	1.246	.754	.060090	1.248	.811	.040010	1.250	.164	.005010	1.250	.572	.0400
.235	.500	.010020	1.241	.436	.020030	1.246	.755	.020040	1.248	.813	.040100	1.250	.165	.060083	1.250	.580	.135
.235	.626	.005020	1.242	.452	.020030	1.246	.761	.020040	1.248	.877	.040062	1.250	.170	.030060	1.250	.586	.015
.235	.628	.040060	1.242	.535	.090100	1.246	.768	.015030	1.248	.878	.005010	1.250	.179	.015030	1.250	.595	.015
.235	.695	.090100	1.242	.641	.062090	1.246	.769	.040060	1.248	.909	.010015	1.250	.182	.005010	1.250	.625	.020
.235	.732	.005010	1.242	.879	.042062	1.246	.781	.020040	1.248	.932	.010013	1.250	.187	.040083	1.250	.630	.050
	.766	.010020	1.242	.897	.015030	1.246	.783	.020040	1.248	.950	.030050	1.250	.192	.040062	1.250	.636	.0050
.235			1.242	.944	.040060	1.246	.839	.060080	1.248	.984	.010020	1.250	.193	.030060	1.250	.637	.0050
.235	.802	.005010															

								BUKER	2 ME	IAL	WASHERS	ANE	FLAI	AND IC	IMIBL	E DE	BURKED
0.0	ID	Choose Any	0.0	I D	Choose Any	0 D	I D	Choose Any	0 D	I D	Choose Any	0.0	I D	Choose Any	0 D	I D	Choose Any
O.D.	I.D.	Thickness* From To	O.D.	I.D.	Thickness* From To	O.D.	I.D.	Thickness* From To	O.D.	I.D.	Thickness* From To	O.D.	I.D.	Thickness* From To	O.D.	I.D.	Thickness* To
1.250	.641	.100125	1.250	1.010	.010020	1.252	.343	.156190	1.255	1.031	.020030	1.260	.827	.040060	1.274	.969	.080105
1.250	.646	.005015	1.250	1.011	.005010	1.252	.376	.005020	1.255	1.079	.020030	1.260	.984	.025040	1.274	1.125	.005010
1.250	.647	.090125	1.250	1.012	.050070	1.252	.396	.040060	1.256	.139	.050083	1.260	1.002	.080100	1.275	.255	.015030
1.250	.650	.005010	1.250	1.015	.020040	1.252	.407	.090110	1.256	.329	.075100	1.260	1.050	.015025	1.275	.297	.025042
1.250	.656	.070187	1.250	1.017	.060083	1.252	.408	.025042	1.256	.507	.050070	1.260	1.055	.010015	1.275	.313	.060090
1.250	.658	.005010	1.250	1.020	.100120	1.252	.426	.100125	1.256	.519	.100125	1.260		.040060	1.275	.409	.050070
1.250	.660	.020040	1.250	1.033	.005010	1.252	.437	.060075	1.256	.613	.015030	1.260		.040060	1.275	.410	.025042
1.250		.105125	1.250		.050070	1.252	.442	.125156	1.256	.941	.125156	1.260		.010020	1.275	.411	.025040
1.250		.030040	1.250		.080105	1.252	.506	.005010	1.256	1.080	.062080	1.260		.010020	1.275	.500	.075090
1.250	.669	.005010	1.250		.010020	1.252	.585	.030050	1.257	.605	.005010	1.261	.126	.010012	1.275	.672	.025042
1.250		.015030		1.058	.072093	1.252	.625	.005010	1.257	.673	.020030	1.261	.195	.005010	1.275	.797	.025042
1.250		.005010	1.250	1.061	.025040	1.252	.629	.020030	1.257	.787	.120135	1.261	.217	.105135	1.275	.980	.020040
1.250	086. 0	.105125	1.250		.030050	1.252	.630	.105125	1.257	.933	.030048	1.261	.316	.090125		1.009	.090110
1.250		.010020		1.115	.010020	1.252	.633	.050075	1.257	.941	.125156	1.261	.411	.090104	1.275	1.045	.025042
1.250		.090125		1.123	.025040	1.252	.640	.008016	1.257	.956	.005010	1.261	.411	.130160	1.275		.005008
1.25		.010040		1.140	.015025	1.252	.725	.060070		1.014	.005010	1.261	.414	.005010		1.092	.005010
1.25		.005010		1.145	.020040	1.252	.753	.005010		1.100	.005015	1.261	.505	.070090	1.276	.105	.025040
1.25		.015105	1.250		.010025	1.252	.755	.005010		1.120	.010020	1.261	.509	.105125	1.276	.821	.050070
1.25		.020040		1.180	.005015	1.252	.765	.005010		1.166	.025040	1.261	.632	.005010	1.277	.657	.083105
1.25		.050070	1.250		.005015	1.252	.779	.005015	1.258	.380	.005010	1.261		.070090	1.277	.964	.020030
1.25		.005010	1.250		.005010	1.252	.789	.050075	1.258	.473	.005010	1.261		.005010	1.277	1.059	.050070
1.25		.005010	1.251	.131	.050070	1.252	.790	.050075	1.258	.474	.005010	1.261		.030042	1.278	.250	.005015
1.25		.050080	1.251	.132	.070090	1.252	.797	.010020	1.258	.478	.005010	1.262	.187	.020035	1.278	.500	.100125
1.25		.012125	1.251	.187	.005010	1.252	.882	.008016	1.258	.538		1.262	.295	.020033	1.278	.529	.100125
1.25		.180188	1.251	.215	.010020	1.252	.932	.100125	1.258	.632	.015030	1.262	.535	.020040	1.278	.571	.005010
1.25		.040060	1.251	.257	.070090	1.252	.961	.007040	1.258	.643		1.262	.951	.030050	1.278	.750	.015030
1.25		.032042	1.251	.312	.090105	1.252	.965	.020030	1.258	.677	.030050	1.263	.882	.105135	1.278	.821	.030050
1.25		.070090	1.251	.330	.156190	1.252	.998	.008016	1.258	.686	.005010		1.075	.090105	1.278	.924	.005010
1.25		.070125	1.251	.332	.105125	1.252		.016025	1.258	.722	.030050		1.075	.010020	1.279	.438	.005010
1.25		.005070	1.251	.335	.020040	1.252		.025040	1.258	.984	.010015	1.263	1.089	.010020	1.279	.506	.005010
1.25		.005010	1.251	.378	.005010	1.252		.100125	1.258		.015030	1.264	.548	.030050	1.279	.633	.050060
1.25		.040060	1.251	.384	.170190	1.252		.032060	1.258	1.010	.010020	1.265	.354	.120134	1.280	.155	.005015
1.25		.104134	1.251	.401	.015030	1.252		.020040	1.258	1.116		1.265	.376	.060080	1.280	.170	.100125
1.25		.040060	1.251	.410	.015031	1.252		.050070	1.258	1.129	.010015	1.265	.504	.005010	1.280	.221	.070090
1.25		.030050	1.251	.417	.135160	1.252		.005010	1.259	.232	.020040	1.265	.533	.100125	1.280	.318	.050062
1.25		.050070	1.251	.440	.040060	1.252		.010020	1.259	.239	.005010	1.265	.866	.080100	1.280	.438	.030040
1.25		.050075	1.251	.471	.045060	1.252		.005010	1.259	.316		1.265	.875	.040060	1.280	.505	.010020
1.25		.050070	1.251	.480	.030050	1.252		.005010	1.259	.395		1.265	.930	.010020	1.280	.515	.040070
1.25		.005060	1.251	.482	.160190	1.252		.010030	1.259	.425		1.265	.990	.100125	1.280	.518	.020040
1.25		.105135	1.251	.500	.005010	1.252		.005010	1.259	.473	.015030		1.000	.060075	1.280	.530	.015025
1.25		.010020	1.251	.531	.156187	1.253	.390	.100120	1.259	.475			1.206	.005010	1.280	.628	.040060
1.25	0 .795	.007015	1.251	.532	.120135	1.253	.410	.060080	1.259	.501	.005010	1.266	.668	.070090	1.280	.668	.062120
1.25	0 .796	.110125	1.251	.551	.015030	1.253	.573	.030050	1.259	.502		1.266	.680	.050070	1.280	.677	.030050
1.25	0 .798	.015030	1.251	.559	.105125	1.253	.633	.060080	1.259	.566	.005010	1.266	.761	.005010	1.280	.760	.040060
1.25	.803	.080100	1.251	.561	.060120	1.253	.656	.015030	1.259	.633	.090125	1.266	.779	.050075	1.280	.888	.070090
1.25	.808	.010020	1.251	.574	.010020	1.253	.766	.156187	1.259	.641	.110135	1.266	.791	.005010	1.280	.893	.005010
1.25	.812	.010104	1.251	.579	.100125	1.253	.768	.030050	1.259	.679	.070090	1.266	1.047	.060080	1.280	.915	.007012
1.25	0 .814	.005010	1.251	.640	.005010	1.253	.780	.156187	1.259	.748	.005010	1.267	.624	.016032	1.280	1.000	.060090
1.25	0 .828	.020030	1.251	.658	.040062	1.253	.782	.008020	1.259	.882	.010020	1.267	.798	.075100	1.280	1.017	.025040
1.25	0 .829	.090120	1.251	.669	.050070	1.253	.814	.100120	1.259	.927	.040050	1.267	1.049	.075090	1.280	1.020	.070090
1.25	0 .839	.120135	1.251	.692	.090110	1.253	.886	.050070	1.259	.991	.005010	1.267		.020040	1.280	1.031	.010020
1.25	0 .843	.005030	1.251	.695	.025040	1.253	.914	.020030	1.259	1.020	.025040	1.268	.711	.080100	1.280	1.041	.040050
1.25	0 .844	.010020	1.251	.725	.020040	1.253	1.000	.025040	1.259	1.024	.015020	1.268	.918	.080104	1.280	1.045	.040060
1.25	0 .845	.020080	1.251	.752	.020030	1.253	1.025	.030050	1.259	1.114		1.268	.980	.060080	1.280		.010060
1.25	0 .855	.040060	1.251	.755	.015030	1.253	1.110	.010020	1.259	1.181	.030050	1.268		.005010	1.280	1.070	.050070
1.25		.090105	1.251	.759	.105135	1.253	1.123	.005010	1.260	.237	.005010	1.269	.161	.020035	1.280		.030050
1.25		.120135	1.251	.814	.075100	1.254	.058	.030050	1.260	.301	.100125	1.269	.668	.060080	1.280		.020040
1.25		.030050	1.251	.834	.005010	1.254	.516	.048075	1.260	.319		1.269	.890	.070080	1.280		.020040
1.25		.040060	1.251	.874	.050075	1.254	.542	.010020	1.260	.395		1.269	.980	.025040	1.281	.248	.060090
1.25		.050070	1.251	.876	.005010	1.254	.581	.030050	1.260	.398	.005020	1.269	1.004	.005010	1.281	.264	.010020
1.25		.005030	1.251	.879	.005010	1.254	.630	.050070	1.260	.415		1.270	.166	.050075	1.281	.408	.005030
1.25		.090125	1.251	.907	.040062	1.254	.748	.040060	1.260	.440		1.270	.460	.135156	1.281	.442	.060080
1.25		.005010	1.251	.928	.025040	1.254	.765	.050075	1.260	.449		1.270	.527	.156187	1.281	.530	.015030
1.25		.012025	1.251	.942	.090105	1.254	.766	.134156	1.260	.474		1.270	.651	.020040	1.281	.538	.010020
1.25		.060090	1.251	.950	.080100	1.254	.840	.050075	1.260	.475		1.270	.700	.040060	1.281	.550	.156187
1.25		.005090	1.251	.984	.010020	1.254	.990	.005010	1.260	.477		1.270	.764	.090100	1.281	.608	.020030
1.25		.015030	1.251	.999	.005010	1.254		.020040	1.260	.501	.005030	1.270	.793	.100125	1.281	.891	.080100
1.25		.025070		1.003	.005010	1.254		.030050	1.260	.503		1.270	.976	.040060	1.281	.892	.040060
1.25		.050070		1.005	.090105	1.254		.015030	1.260	.505		1.271	.886	.005010	1.281		.010020
1.25		.005010		1.050	.005010	1.255	.501	.060080	1.260	.512		1.271	.940	.006012	1.281		.015030
1.25		.040060	1.251		.070090	1.255	.656	.010120	1.260	.553		1.271		.025040	1.282	.103	.005010
1.25		.100125		1.082	.020040	1.255	.664	.090105	1.260	.625		1.271		.020035	1.282	.248	.060075
1.25		.100125	1.251		.010020	1.255	.714	.110125	1.260	.630		1.272	.525	.050070	1.282	.310	.075090
1.25		.015083		1.110	.020030	1.255	.754	.070080	1.260	.632		1.272	.643	.090120	1.282	.408	.005010
1.25		.015020	1.252	.268	.030050	1.255	.756	.020040	1.260	.675		1.272	.800	.040060	1.282	.409	.005010
1.25		.090105	1.252	.280	.105135	1.255	.843	.135187	1.260	.682		1.273	.780	.080105	1.282	.580	.010020
1.25		.030040	1.252	.316	.025070	1.255	.845	.005010	1.260	.683		1.273	.907	.030050	1.282	.625	.005010
1.25		.060080	1.252	.317	.135156	1.255	.872	.030050	1.260	.689		1.273	.920	.020030	1.282	.942	.010020
	0 1.000	.093125	1.252	.319	.050070	1.255	.911	.105125	1.260	.750		1.274	.711	.030050	1.282		.005010
1.25	0 1.007	.042062	1.252	.329	.048062	1.255	.960	.040060	1.260	.826	.005010	1.274	.938	.015025	1.282	1.043	.030050
			*With E	BOKER'	'S precision v	washers,	you ca	an choose th	e exact	thickne	ess you want	from the	tool ra	nge listed.			
																	(17)

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED	BOKER'S METAL WASHERS ARE FLAT AND TOMBLE DEBURRED
Choose Any O.D. I.D. Thickness*	Choose Any O.D. I.D. Thickness*
From To From To From To From To	From To From To From To From To From To
1.282 1.066 .040060 1.297 .945 .062090 1.300 1.067 .050060 1.310 .231 .080100 1.312 .812 .070090 1.319 1.104 .030040	1.329 .900 .050075
1.282 1.162 .010020 1.297 1.058 .090105 1.300 1.087 .010020 1.310 .379 .005010 1.312 .843 .005010 1.319 1.130 .005010 1.282 1.164 .010020 1.297 1.150 .020040 1.300 1.093 .005010 1.310 .385 170 - 190 1.312 .878 .060080 1.320 .183 .005010	1.329 .990 .105134
1.282 1.164 .010020 1.297 1.150 .020040 1.300 1.093 .005010 1.310 .385 .170190 1.312 .878 .060080 1.320 .183 .005010 1.283 .104 .005010 1.297 1.169 .020050 1.300 1.126 .010020 1.310 .407 .090120 1.312 .890 .090125 1.320 .210 .005010	1.329 1.001 .080100
1.283 .375 .020035	1.329 1.174 .060070 1.339 1.202 .005010 1.349 .749 .050070 1.358 .125 .030050 1.365 .940 .030050 1.370 .698 .050075
1.283 .409 .010020 1.298 .275 .050075 1.300 1.182 .005010 1.310 .505 .010020 1.312 .906 .062080 1.320 .476 .010020	1.329 1.180 .005010 1.339 1.205 .005010 1.349 .984 .050070 1.358 .209 .120135 1.365 1.131 .005010 1.370 .751 .080100
1.283 .650 .080090 1.298 .395 .010020 1.301 .377 .015030 1.310 .510 .012020 1.312 .938 .005010 1.320 .495 .062135	1.329 1.190 .030050 1.339 1.213 .015030 1.349 1.057 .010020 1.358 .601 .040060 1.365 1.150 .050075 1.370 .793 .020030
1.283 .671 .015025 1.298 .441 .010020 1.301 .504 .005020 1.310 .516 .040060 1.312 .941 .030040 1.320 .552 .100120	1.330 .328 .005010 1.340 .250 .062120 1.349 1.294 .005010 1.358 .803 .005010 1.365 1.160 .020030 1.370 .794 .005010
1.283 .890 .015030 1.298 .479 .105125 1.301 .698 .005010 1.310 .529 .040060 1.312 .948 .070090 1.320 .715 .005010	1.330 .385 .005010 1.340 .260 .005010 1.350 .089 .005010 1.358 1.026 .050075 1.365 1.187 .025040 1.370 .886 .070090
1.283 .929 .030040 1.298 .496 .030050 1.301 .756 .018025 1.310 .619 .015030 1.312 .986 .005010 1.320 .753 .005010	1.330 .391 .156190 1.340 .261 .005010 1.350 .090 .025040 1.358 1.037 .008015 1.365 1.192 .005020 1.370 .890 .100125
1.283 1.126 .040060 1.298 .504 .090110 1.301 .820 .040060 1.310 .711 .015030 1.312 1.000 .010020 1.320 .758 .080104	1.330 .744 .030060 1.340 .284 .015030 1.350 .240 .120130 1.358 1.130 .005010 1.365 1.194 .020040 1.370 .900 .005007
1.283 1.167 .005010 1.298 .630 .005010 1.301 .901 .080110 1.310 .751 .100120 1.312 1.001 .080105 1.320 .761 .015060	1.330 .851 .040060
1.284 .192 .050070	1.330 .897 .015030 1.340 .289 .005010 1.350 .312 .050060 1.359 .689 .005010 1.365 1.095 .110130 1.370 .948 .062080 1.330 .910 .025040 1.340 .630 .020040 1.350 .314 .005020 1.359 .860 .130150 1.366 .070 .015030 1.370 .950 .005015
1.284 .324 .080104 1.298 .862 .005010 1.301 .962 .105125 1.310 .755 .005010 1.312 1.027 .005010 1.320 .849 .005010 1.284 .787 .050070 1.298 .880 .070090 1.301 1.068 .030050 1.310 .768 .040060 1.312 1.031 .080105 1.320 .867 .005010	1.330 .910 .025040 1.340 .630 .020040 1.350 .314 .005020 1.359 .860 .130150 1.366 .070 .015030 1.370 .950 .005015 1.330 .985 .050070 1.340 .632 .010020 1.350 .390 .105125 1.359 .888 .005010 1.366 .191 .105125 1.370 .960 .032050
1.284 1.019 .010020 1.298 .906 .015025 1.302 .441 .100125 1.310 .770 .005010 1.312 1.190 .015025 1.320 .880 .005010	1.330 1.100 .030050
1.284 1.089 .015030 1.299 .140 .020040 1.302 .477 .050070 1.310 .772 .020040 1.312 1.251 .105125 1.320 .931 .020035	1.331 .635 .070090 1.340 .726 .105120 1.350 .457 .005010 1.359 1.028 .100125 1.366 .690 .078105 1.370 1.000 .042062
1.284 1.208 .005010 1.299 .245 .005010 1.302 .628 .100125 1.310 .812 .030042 1.313 .268 .035050 1.320 1.000 .090125	1.331 .776 .050070 1.340 .750 .005010 1.350 .500 .005020 1.359 1.126 .060080 1.366 .760 .020030 1.370 1.056 .005015
1.285 .409 .120135 1.299 .253 .030040 1.302 .774 .060090 1.310 .868 .156187 1.313 .375 .100125 1.320 1.024 .015030	1.331 .910 .005010 1.340 .751 .045060 1.350 .503 .005025 1.360 .204 .050075 1.366 .761 .005010 1.370 1.065 .005015
1.285 .505 .120135	1.331 1.123 .005010 1.340 .766 .042062 1.350 .506 .005020 1.360 .338 .005010 1.366 .763 .005010 1.370 1.126 .005010
1.285 .724 .005010 1.299 .395 .005020 1.302 .788 .005010 1.310 .944 .005010 1.313 .563 .005030 1.320 1.130 .040050	1.331 1.128 .010020 1.340 1.000 .105125 1.350 .562 .005010 1.360 .344 .050070 1.366 .883 .080100 1.370 1.127 .040060
1.285 1.000 .020040 1.299 .396 .005010 1.302 1.007 .012020 1.310 1.006 .005010 1.313 .635 .090100 1.321 .780 .050070	1.332 .770 .125156
1.285 1.136 .005010	1.333 .397 .040060
1.286 .509 .156187 1.299 .553 .005015 1.303 .504 .005010 1.310 1.250 .010020 1.313 .687 .105125 1.322 1.175 .040060	1.333 .950 .005010 1.340 1.104 .070080 1.350 .634 .020040 1.360 .656 .100125 1.366 1.028 .070090 1.370 1.163 .040060 1.334 .239 .015030 1.340 1.118 .050083 1.350 .669 .090110 1.360 .791 .090105 1.366 1.030 .050075 1.370 1.188 .060070
1.286 .809 .005010	1.334 .325 .005010 1.340 1.110 .030020 1.350 .675 .005010 1.360 .878 .050070 1.366 1.070 .030105 1.370 1.100 .000010
1.286 .811 .090105 1.299 .812 .025040 1.303 .787 .070090 1.311 .202 .020040 1.313 .759 .080100 1.323 .244 .020040	1.334 .771 .010020 1.340 1.143 .005020 1.350 .700 .030060 1.360 .928 .080105 1.366 1.133 .050070 1.370 1.245 .010020
1.286 .918 .010020	1.334 .886 .105125
1.287 .178 .050083 1.299 .958 .050070 1.304 .250 .040050 1.311 .335 .080100 1.313 .951 .070090 1.323 .394 .015030	1.334 .906 .060075 1.341 .537 .105135 1.350 .751 .005010 1.360 1.003 .005010 1.366 1.144 .005010 1.371 .148 .005010
1.287 .251 .060090 1.299 .960 .005010 1.304 .470 .075125 1.311 .380 .030050 1.313 1.015 .060083 1.323 .551 .050070	1.335 .380 .020035
1.287 .254 .050062 1.299 1.019 .025042 1.304 .504 .090120 1.311 .389 .025040 1.313 1.063 .040060 1.323 .640 .060075	1.335 .632 .035060 1.341 .893 .040060 1.350 .777 .025040 1.360 1.060 .090105 1.366 1.221 .005010 1.371 .281 .005010
1.287	1.335 .650 .050070 1.342 .380 .120156 1.350 .779 .040060 1.360 1.128 .015035 1.367 .758 .070090 1.371 .525 .020030
1.287 1.142 .005010 1.299 1.068 .005010 1.305 .080 .005008 1.311 .573 .005010 1.313 1.148 .020030 1.323 1.001 .015030 1.288 .614 .050070 1.300 .147 .080104 1.305 .255 .040050 1.311 .593 .075090 1.313 1.164 .025040 1.323 1.063 .050070	1.335 .906 .020030
1.288 .761 .030050 1.300 .298 .020030 1.305 .514 .100120 1.311 .635 .005010 1.314 .268 .030060 1.323 1.104 .020040	1.335 1.106 .062080
1.288 .777 .100120	1.335 1.134 .005010 1.342 1.015 .005010 1.350 .863 .005030 1.361 .884 .075100 1.367 .885 .040060 1.371 .651 .030050
1.288 .969 .005010 1.300 .316 .105125 1.305 .734 .020030 1.311 .676 .005010 1.314 .392 .040060 1.324 .529 .105135	1.335 1.146 .005010 1.343 .630 .025040 1.350 .905 .050070 1.361 .890 .050075 1.367 .911 .010020 1.371 .698 .040062
1.288 1.023 .015030 1.300 .318 .005010 1.305 .803 .040060 1.311 .688 .156187 1.314 .439 .050075 1.324 .687 .005030	1.336 .907 .005010 1.343 .871 .050075 1.350 .910 .015030 1.361 1.032 .005010 1.367 1.010 .040060 1.371 .759 .100125
1.288 1.111 .020035	1.336 1.004 .005010 1.343 .907 .042062 1.350 .977 .036048 1.362 .230 .005010 1.367 1.030 .060080 1.371 .760 .005010
1.288 1.113 .075090 1.300 .377 .005020 1.305 .826 .100125 1.311 .875 .020040 1.314 .522 .015030 1.324 1.001 .020040	1.336 1.006 .030050 1.343 1.100 .080105 1.350 .978 .010020 1.362 .439 .015030 1.367 1.067 .040060 1.371 .820 .008040
1.288 1.128 .040060 1.300 .378 .005020 1.305 .942 .020040 1.311 .884 .050135 1.314 .593 .015030 1.325 .125 .010020	1.336 1.038 .080100 1.343 1.126 .030050 1.350 1.000 .050070 1.362 .525 .010020 1.367 1.112 .025040 1.371 .886 .005025
1.288 1.150 .015030 1.300 .380 .005020 1.305 1.006 .015030 1.311 .890 .030050 1.314 .626 .100125 1.325 .139 .040060 1.289 1.113 .075090 1.300 .382 .010020 1.305 1.011 .005010 1.311 .905 .020040 1.314 .673 .015025 1.325 .141 .010020	1.336 1.131 .040062
1.289 1.113 .075090 1.300 .382 .010020 1.305 1.011 .005010 1.311 .905 .020040 1.314 .673 .015025 1.325 .141 .010020 1.290 .128 .020030 1.300 .383 .020030 1.305 1.016 .060070 1.311 .947 .020040 1.314 .827 .010020 1.325 .157 .010020	1.337 .319 .005010 1.343 1.261 .020040 1.350 1.067 .015030 1.362 .656 .100125 1.367 1.180 .005015 1.371 1.020 .005010 1.337 .396 .005010 1.344 .258 .100135 1.350 1.108 .055070 1.362 .750 .010060 1.368 .498 .005010 1.371 1.073 .005010
1.290 .231 .105135	1.337 .440 .042062
1.290 .264 .005010 1.300 .397 .010020 1.305 1.201 .010020 1.311 1.001 .005010 1.314 .969 .040060 1.325 .172 .010020	1.337 .475 .005010 1.344 .376 .100120 1.350 1.209 .010020 1.362 1.002 .005025 1.368 .596 .030050 1.371 1.123 .020040
1.290 .377 .020030	1.337 .500 .100125
1.290 .627 .020030 1.300 .438 .010020 1.306 .758 .040060 1.311 1.009 .030040 1.314 1.090 .042062 1.325 .218 .010020	1.337 .502 .005020 1.344 .812 .040062 1.351 .750 .020030 1.362 1.203 .005010 1.368 .792 .040060 1.371 1.178 .070090
1.290 .760 .030060 1.300 .442 .005020 1.306 .970 .015025 1.311 1.057 .005010 1.314 1.188 .005010 1.325 .251 .010020	1.337 .747 .025040 1.344 1.000 .015030 1.351 1.026 .060080 1.362 1.262 .015030 1.368 .874 .050070 1.371 1.200 .010020
1.290 1.000 .050070 1.300 .504 .005010 1.306 .996 .007015 1.311 1.190 .005010 1.315 .177 .005010 1.325 .270 .010020	1.337 .748 .010020
1.290 1.146 .050060 1.300 .511 .010020 1.306 1.007 .050090 1.312 .197 .025040 1.315 .253 .080104 1.325 .281 .040060 1.290 1.204 .005010 1.300 .518 .010020 1.306 1.070 .015030 1.312 .234 .050075 1.315 .522 .010020 1.325 .295 .080104	1.337 .856 .010020
1.291 .457 .030050	1.337 .945 .060080
1.291 .966 .020040	1.337 .984 .005040 1.345 .408 .005010 1.351 1.212 .010020 1.364 .414 .070090 1.368 1.072 .030080 1.372 .378 .030050
1.291 1.180 .005010 1.300 .629 .005030 1.307 .502 .010020 1.312 .320 .030050 1.315 .703 .010020 1.325 .381 .010020	1.337 1.001 .070090 1.345 .661 .050070 1.351 1.214 .005010 1.364 .505 .025040 1.368 1.073 .080090 1.372 .564 .080125
1.292 1.000 .005010 1.300 .630 .050075 1.307 .655 .005010 1.312 .374 .020040 1.315 .923 .020030 1.325 .410 .010015	1.337 1.094 .005010 1.345 .818 .050070 1.351 1.253 .005010 1.364 .539 .070090 1.368 1.112 .025040 1.372 .637 .020032
1.292 1.121 .010020 1.300 .634 .005020 1.307 1.068 .075090 1.312 .377 .020030 1.315 1.177 .005010 1.325 .440 .010134	1.338 .255 .005010 1.345 .836 .005010 1.352 .670 .180190 1.364 .664 .005010 1.368 1.113 .050075 1.372 .690 .010030
1.292 1.132 .060080 1.300 .650 .080105 1.308 .125 .040062 1.312 .392 .030060 1.316 .655 .005010 1.325 .500 .010015	1.338 .259 .005010 1.345 .907 .060090 1.352 .776 .050075 1.364 .665 .070090 1.368 1.174 .040062 1.372 .730 .105187
1.293 .378 .005010 1.300 .677 .030050 1.308 .220 .050070 1.312 .505 .010015 1.316 .704 .050070 1.325 .600 .010015	1.338 .320 .005010 1.345 .967 .100125 1.353 .988 .075090 1.364 .701 .040060 1.369 .312 .025040 1.372 .750 .020032
1.293 1.200 .005010 1.300 .681 .005010 1.308 .251 .005010 1.312 .507 .042062 1.316 .745 .080100 1.325 .640 .010015 1.293 1.223 .015030 1.300 .754 .005010 1.308 .619 .005010 1.312 .553 .005010 1.316 .881 .020040 1.325 .669 .040060	1.338 .394 .005020 1.345 1.001 .010020 1.353 1.070 .050070 1.364 .780 .135156 1.369 .329 .010020 1.372 .812 .020032 1.338 .396 .010020 1.345 1.039 .025040 1.354 .315 .020040 1.364 .788 .070090 1.369 .505 .065080 1.372 .891 .070090
1.293 1.223 .015030 1.300 .754 .005010 1.308 .619 .005010 1.312 .553 .005010 1.316 .881 .020040 1.325 .669 .040060 1.294 1.058 .100120 1.300 .755 .010030 1.308 .751 .050075 1.312 .563 .005010 1.316 .885 .025050 1.325 .700 .010015	1.338 .396 .010020 1.345 1.039 .025040 1.354 .315 .020040 1.364 .788 .070090 1.369 .505 .065080 1.372 .891 .070090 1.338 .434 .100120 1.345 1.040 .015030 1.354 .538 .005010 1.364 .911 .070090 1.369 .670 .090105 1.372 .908 .050075
1.294 1.135 .010020 1.300 .760 .015030 1.308 .762 .070090 1.312 .564 .020040 1.316 .940 .010015 1.325 .750 .010015	1.338 .473 .005010
1.295 .377 .010020	1.338 .475 .010020
1.295 .511 .135156	1.338 .477 .005010
1.295 .588 .040060 1.300 .887 .010020 1.309 .377 .005015 1.312 .594 .075090 1.317 .744 .005010 1.325 .920 .010015	1.338 .505 .005020 1.346 .443 .005025 1.355 .746 .015030 1.364 1.042 .080100 1.369 .885 .005015 1.372 .973 .005015
1.295 .881 .010020	1.338 .552 .005015 1.347 .441 .005010 1.355 .795 .090105 1.364 1.182 .005010 1.369 .893 .125156 1.372 .983 .025040
1.295 .901 .060080	1.338 .582 .005010
1.295 1.015 .050075 1.300 .960 .062083 1.309 .635 .010020 1.312 .655 .015030 1.317 1.198 .020035 1.325 1.179 .080100 1.295 1.141 .005010 1.300 .962 .010020 1.309 .751 .050070 1.312 .687 .025035 1.317 1.250 .020032 1.326 .314 .025040	1.338 .751 .100134
1.295 1.141 .005010 1.300 .962 .010020 1.309 .751 .050070 1.312 .687 .025035 1.317 1.250 .020032 1.326 .314 .025040 1.295 1.170 .005010 1.300 .963 .020060 1.309 .791 .005010 1.312 .689 .050060 1.318 .180 .005010 1.326 .570 .015070	1.338 .867 .020030
1.295 1.228 .010020	1.338 .983 .010020
1.296 1.111 .015030	1.338 1.121 .020030
1.297 .247 .050083	1.339 .220 .040060 1.348 .566 .080100 1.356 1.000 .015030 1.364 1.281 .005010 1.370 .234 .100125 1.372 1.189 .030050
1.297 .571 .015030 1.300 .996 .050070 1.309 .883 .050080 1.312 .755 .105125 1.319 .387 .090125 1.328 .126 .016025	1.339 .272 .015030
1.297 .736 .005010 1.300 1.006 .010020 1.309 1.000 .020040 1.312 .765 .090120 1.319 .715 .005010 1.328 .415 .156187	1.339 .274 .010020
1.297 .825 .010020	1.339 .316 .005010 1.348 .717 .075090 1.357 .350 .005010 1.365 .354 .060080 1.370 .316 .005010 1.372 1.213 .020035
1.297	1.339 .474 .005010
1.297 .860 .010020	1.339 .640 .100 - 1.25
1.00 1.010 1.010 1.010 1.010 1.010 1.010 1.010 1.010 1.010 1.010 1.010 1.010 1.010 1.010 1.010 1.010 1.010 1.010	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00

Choose Any	Choose Any
O.D. I.D. Thickness*	O.D. I.D. Thickness* O.D. I.D.
1.373 .250 .016032 1.375 .125 .070090 1.375 .941 .010020 1.377 .983 .060080 1.383 1.000 .030050 1.400 .380 .105125	1.410 .690 .105135
1.373 .255 .040060	1.410 .855 .030050 1.418 .504 .005010 1.426 1.110 .005010 1.436 .940 .005010 1.439 1.265 .015030 1.450 .201 .025040
1.373 .380 .120135	1.410 .897 .060090 1.418 .505 .010020 1.426 1.188 .025040 1.436 1.001 .050075 1.440 .235 .020035 1.450 .208 .050075
1.373 .409 .005010 1.375 .144 .040060 1.375 .977 .062083 1.377 1.001 .025090 1.384 .758 .005010 1.400 .505 .080100	1.410 1.030 .020040 1.418 .807 .080104 1.426 1.261 .005020 1.436 1.134 .030050 1.440 .250 .060070 1.450 .220 .020030
1.373 .410 .100125 1.375 .207 .040062 1.375 .995 .005010 1.377 1.018 .030050 1.384 1.171 .012025 1.400 .549 .020040	1.410 1.110 .030050
1.373	1.410 1.143 .010020 1.418 .886 .030050 1.427 .250 .050075 1.436 1.195 .032050 1.440 .375 .090120 1.450 .282 .040060 1.410 1.147 .080100 1.418 .887 .005010 1.427 1.141 .060070 1.436 1.198 .005010 1.440 .377 .005010 1.450 .380 .005020
1.373 .500 .105135 1.375 .252 .040060 1.375 1.006 .100125 1.377 1.241 .005010 1.385 .578 .031042 1.400 .696 .020032	1.410 1.187 .005010
1.373 .563 .070090 1.375 .255 .040060 1.375 1.008 .060080 1.378 .206 .050075 1.385 .796 .005010 1.400 .754 .015030	1.410 1.189 .005008 1.418 .945 .030050 1.427 1.253 .075093 1.436 1.265 .020030 1.440 .395 .005010 1.450 .449 .010020
1.373 .568 .170190 1.375 .260 .015030 1.375 1.015 .005010 1.378 .208 .005010 1.385 .920 .015020 1.400 .755 .005010	1.410 1.202 .005010 1.418 .983 .120135 1.427 1.257 .025040 1.436 1.320 .005010 1.440 .438 .040060 1.450 .450 .005010
1.373 .570 .006015 1.375 .270 .005010 1.375 1.022 .016032 1.378 .240 .105125 1.385 1.010 .030060 1.400 .756 .050070	1.411 .836 .005010 1.418 .985 .015030 1.428 1.014 .060080 1.437 .186 .010020 1.440 .504 .005020 1.450 .531 .080100
1.373 .575 .050075 1.375 .281 .100125 1.375 1.031 .080105 1.378 .313 .020032 1.385 1.015 .075090 1.400 .822 .005010 1.375 .310 .062080 1.375 1.045 .025040 1.378 .315 .010020 1.385 1.220 .005010 1.400 .879 .005010	1.411 1.265 .010025
1.373 .625 .020190	1.412 .836 .105120
1.373 .639 .040050 1.375 .316 .050100 1.375 1.078 .040060 1.378 .324 .005010 1.385 1.339 .005010 1.400 .887 .010020	1.412 1.070 .040060
1.373 .641 .125156	1.412 1.193 .030050 1.419 .407 .156187 1.429 1.100 .020030 1.437 .376 .005025 1.440 1.070 .020030 1.450 .830 .020040
1.373 .737 .010020 1.375 .321 .060080 1.375 1.124 .005010 1.378 .492 .005010 1.386 .655 .170190 1.400 1.017 .090105	1.412 1.246 .005010 1.419 .435 .160180 1.429 1.126 .020040 1.437 .378 .015035 1.440 1.083 .005010 1.450 .952 .040060
1.373 .749 .005010 1.375 .328 .025070 1.375 1.130 .015080 1.378 .500 .010020 1.386 1.084 .060080 1.400 1.050 .070080 1.373 .750 .005010 1.375 .329 .105134 1.375 1.131 .005010 1.378 .657 .060080 1.386 1.124 .005010 1.400 1.076 .025042	1.413 .634 .100125 1.419 .506 .005010 1.429 1.194 .040060 1.437 .383 .005060 1.440 1.120 .050075 1.450 1.019 .105135
1.373 .750 .005010 1.375 .329 .105134 1.375 1.131 .005010 1.378 .657 .060080 1.386 1.124 .005010 1.400 1.076 .025042 1.373 .765 .010020 1.375 .343 .100125 1.375 1.136 .050070 1.378 .660 .105135 1.386 1.187 .030045 1.400 1.150 .005010	1.413 .995 .005010
1.373 .785 .005010 1.375 .355 .070100 1.375 1.146 .025040 1.378 .736 .100125 1.387 1.212 .020040 1.400 1.158 .005010	1.414
1.373 .890 .030050 1.375 .373 .100125 1.375 1.154 .005010 1.378 .754 .005010 1.388 .662 .120134 1.400 1.200 .080090	1.414 .563 .160190 1.419 1.003 .005010 1.430 .640 .100125 1.437 .493 .156187 1.441 1.142 .050075 1.450 1.140 .005010
1.373 .906 .005020 1.375 .375 .062120 1.375 1.159 .005010 1.378 .780 .025050 1.388 .785 .015030 1.400 1.258 .020030	1.414 .595 .090110 1.419 1.070 .090125 1.430 .698 .005010 1.437 .500 .032048 1.441 1.250 .010020 1.450 1.225 .030040
1.373 .912 .040090 1.375 .382 .050075 1.375 1.188 .005010 1.378 .783 .040060 1.388 .825 .020040 1.400 1.260 .030042	1.414 .794 .005010 1.420 .285 .110135 1.430 .716 .010020 1.437 .504 .062080 1.441 1.258 .005010 1.450 1.265 .010020
1.373 .996 .005010 1.375 .391 .090105 1.375 1.189 .030050 1.378 .787 .100120 1.388 1.016 .090110 1.401 .195 .005010 1.373 1.000 .008060 1.375 .395 .062080 1.375 1.195 .005025 1.378 .858 .032050 1.389 .474 .080105 1.401 .986 .045060	1.415 .319 .005010 1.420 .378 .010020 1.430 .749 .010020 1.437 .552 .005015 1.441 1.311 .020040 1.450 1.379 .010020 1.415 .320 .005020 1.420 .380 .030050 1.430 .755 .015030 1.437 .639 .015025 1.442 .411 .062080 1.451 .503 .005010
1.373 1.000 .008060	1.415 .382 .040062
1.373 1.126 .020040 1.375 .422 .060070 1.375 1.201 .025040 1.378 .865 .100125 1.389 1.073 .005010 1.401 1.169 .010020	1.415 .396 .005 .020 1.420 .487 .005 .010 1.430 1.063 .060070 1.437 .761 .105125 1.442 .881 .080105 1.451 1.140 .005015
1.373 1.207 .025040 1.375 .439 .170190 1.375 1.247 .040060 1.378 .876 .090125 1.390 .368 .060083 1.401 1.186 .015025	1.415 .398 .005010 1.420 .504 .105134 1.430 1.065 .005010 1.437 .764 .020030 1.442 1.002 .006012 1.451 1.196 .010020
1.373 1.209 .030060 1.375 .440 .075090 1.375 1.251 .010020 1.378 .878 .060120 1.390 .430 .080134 1.401 1.258 .005030	1.415 .477 .005010 1.420 .507 .012020 1.430 1.128 .050075 1.437 .765 .050075 1.442 1.130 .030040 1.451 1.271 .036060
1.373 1.218 .040060 1.375 .444 .050070 1.375 1.253 .005030 1.378 .957 .105125 1.390 .552 .010020 1.401 1.295 .005010	1.415 .521 .020030
1.373 1.236 .010020 1.375 .445 .015030 1.375 1.265 .005010 1.378 .984 .010020 1.390 .780 .005010 1.402 .295 .030050 1.373 1.255 .005020 1.375 .452 .156187 1.376 .258 .005010 1.378 1.060 .005010 1.390 1.094 .005008 1.402 .504 .005010	1.415 .567 .010025
1.374 .155 .005010 1.375 .500 .100125 1.376 .267 .134187 1.378 1.061 .012020 1.390 1.147 .015030 1.402 .505 .008015	1.415 .896 .060070
1.374 .190 .060080 1.375 .502 .005060 1.376 .383 .005015 1.378 1.075 .030050 1.390 1.187 .015030 1.402 .509 .105135	1.415 1.000 .005010 1.420 .853 .050060 1.431 1.129 .010020 1.437 .850 .075090 1.443 1.179 .040050 1.453 .760 .030050
1.374 .245 .050070 1.375 .505 .030050 1.376 .406 .050075 1.378 1.143 .050070 1.390 1.203 .010020 1.402 .518 .005008	1.415 1.044 .015030 1.420 1.004 .005010 1.431 1.253 .060080 1.437 .873 .156190 1.444 .136 .005010 1.453 1.234 .010020
1.374 .251 .160180 1.375 .515 .060080 1.376 .503 .090125 1.378 1.186 .060080 1.391 .888 .010035 1.402 .760 .005015	1.415 1.100 .010020
1.374 .253 .083104 1.375 .526 .070090 1.376 .513 .005010 1.378 1.201 .005010 1.391 .983 .040060 1.402 1.224 .050070 1.374 .318 .050060 1.375 .530 .005075 1.376 .530 .156187 1.379 .203 .020040 1.391 1.056 .005010 1.402 1.341 .015030	1.415 1.122 .030042 1.420 1.100 .005010 1.432 .995 .100125 1.437 .886 .050075 1.444 1.055 .005010 1.454 .756 .020030 1.415 1.126 .005010 1.420 1.137 .050070 1.432 1.045 .030050 1.437 .895 .040060 1.445 .132 .040062 1.454 1.014 .015030
1.374	1.416 .169 .030050
1.374 .341 .090110 1.375 .560 .005010 1.376 .620 .005010 1.379 .510 .070080 1.393 .611 .060080 1.403 .430 .100125	1.416 .324 .135156
1.374 .378 .050070 1.375 .563 .120135 1.376 .650 .100125 1.379 .564 .005010 1.393 .719 .080104 1.403 .672 .110130	1.416 .473 .005010 1.420 1.270 .010020 1.432 1.160 .020062 1.437 1.001 .156187 1.445 .350 .032060 1.455 .475 .125135
1.374 .389 .060070 1.375 .564 .010020 1.376 .657 .005010 1.379 .599 .015030 1.393 1.281 .005010 1.403 1.022 .010020	1.416 .474 .020030 1.420 1.271 .032050 1.433 .316 .005010 1.437 1.008 .075104 1.445 .690 .090120 1.455 .637 .040050
1.374 .518 .134187 1.375 .571 .060070 1.376 .700 .010020 1.379 .787 .070090 1.394 .654 .005010 1.404 .128 .050070	1.416 .502 .005030
1.374 .562 .015025 1.375 .590 .105125 1.376 .703 .005010 1.379 .812 .005010 1.394 .724 .070090 1.404 .508 .090120 1.374 .563 .005010 1.375 .619 .020040 1.376 .760 .060140 1.379 .835 .005010 1.395 .132 .025035 1.404 1.196 .020040	1.416 .505 .005020
1.374 .568 .005010 1.375 .630 .005007 1.376 .761 .090105 1.379 1.069 .090120 1.395 .420 .105125 1.405 .610 .010020	1.416 .590 .160190
1.374 .575 .090110 1.375 .634 .005010 1.376 .765 .090105 1.379 1.075 .015025 1.395 .550 .050083 1.405 .630 .005010	1.416 .629 .005010 1.421 1.190 .010020 1.433 1.050 .040060 1.437 1.132 .030050 1.446 .250 .050070 1.455 1.101 .040050
1.374 .577 .020042 1.375 .636 .010020 1.376 .780 .110130 1.379 1.089 .030050 1.395 1.157 .040060 1.405 1.008 .015030	1.416 .635 .050070 1.422 .408 .005020 1.433 1.095 .020030 1.437 1.172 .005010 1.446 .253 .105135 1.456 .315 .020030
1.374 .641 .050070 1.375 .641 .157187 1.376 .815 .060080 1.380 .254 .040060 1.396 .563 .060080 1.405 1.265 .005010 1.374 .700 .156187 1.375 .644 .005010 1.376 .847 .005010 1.380 .282 .062 - 190 1.396 .611 .105 - 125 1.406 .139 .030048	1.416 .709 .040060
1.374 .700 .156187 1.375 .644 .005010 1.376 .847 .005010 1.380 .282 .062190 1.396 .611 .105125 1.406 .139 .030048 1.374 .701 .005010 1.375 .656 .040062 1.376 .903 .025040 1.380 .300 .005008 1.396 1.190 .015025 1.406 .390 .005010	1.416 .793 .005010
1.374 .710 .005010 1.375 .700 .120135 1.376 .906 .030060 1.380 .339 .005010 1.396 1.220 .010020 1.406 .954 .050070	1.416 1.039 .040060
1.374 .717 .005010 1.375 .709 .050070 1.376 .984 .030050 1.380 .346 .120134 1.397 .381 .115130 1.406 1.010 .060070	1.416 1.111 .005030 1.422 1.235 .005010 1.434 .873 .120135 1.438 .258 .105125 1.447 .406 .100125 1.457 .505 .005020
1.374 .750 .100125 1.375 .719 .010020 1.376 1.003 .010020 1.380 .398 .005010 1.397 .419 .060125 1.406 1.091 .025040	1.416 1.141 .040060 1.423 .156 .030050 1.434 .936 .090120 1.438 .281 .120135 1.447 .596 .005010 1.457 .675 .050070
1.374 .756 .020030	1.416 1.226 .025040
1.374 .762 .070090 1.375 .751 .050060 1.376 1.016 .050070 1.380 .596 .100125 1.397 .705 .060090 1.407 .290 .025040 1.374 .770 .040060 1.375 .753 .100125 1.376 1.022 .005010 1.380 .694 .120135 1.397 .710 .050075 1.407 .390 .005030	1.416 1.338 .010020
1.374 .800 .010020 1.375 .754 .060080 1.376 1.135 .080105 1.380 .752 .020030 1.397 .815 .005020 1.407 .624 .005010	1.417 .413 .060080
1.374 .807 .090100	1.417 .474 .010020 1.423 1.000 .031042 1.435 .316 .015030 1.438 .682 .060080 1.448 .125 .030050 1.458 .670 .100120
1.374 .825 .040060 1.375 .758 .048062 1.376 1.225 .025040 1.380 .901 .005060 1.397 1.068 .005030 1.407 .705 .005010	1.417 .477 .005020 1.423 1.288 .005010 1.435 .377 .005010 1.438 .751 .100125 1.448 .390 .040050 1.458 .873 .030050
1.374 .829 .010020 1.375 .762 .005010 1.376 1.246 .050070 1.380 .902 .080100 1.397 1.201 .020040 1.407 1.112 .015030	1.417 .511 .105125
1.374 .880 .025040 1.375 .763 .156187 1.376 1.247 .005010 1.380 1.004 .005010 1.398 .505 .005015 1.407 1.125 .005010 1.374 .881 .110135 1.375 .770 .005010 1.377 .269 .040060 1.380 1.009 .105125 1.398 .717 .005010 1.407 1.188 .020030	1.417 .519 .080104
1.374 .884 .025040 1.375 .782 .156187 1.377 .318 .100125 1.380 1.001 .050075 1.398 .872 .025040 1.407 1.105 .025040	1.417 .580 .075090
1.374 .901 .030050	1.417 .632 .005010
1.374 .905 .010020 1.375 .812 .005120 1.377 .346 .100125 1.380 1.180 .005010 1.398 1.160 .010020 1.408 .902 .032050	1.417 .825 .050070
1.374 .912 .010025 1.375 .824 .005020 1.377 .376 .105125 1.380 1.186 .080100 1.398 1.161 .030050 1.408 1.004 .005010	1.417 912 .135187 1.425 .438 .010020 1.435 1.082 .070090 1.438 1.065 .036050 1.448 1.057 .005010 1.459 .951 .030050
1.374 .942 .050070	1.417 .983 .060080
1.374	1.417 1.006 .030040 1.425 .504 .005020 1.435 1.192 .040060 1.438 1.171 .025040 1.448 1.190 .080100 1.400 1.80 .035050
1.374 1.049 .005010 1.375 .875 .100125 1.377 .505 .005020 1.381 1.200 .025040 1.399 .654 .010020 1.409 .502 .005010	1.417 1.031 .050060
1.374 1.059 .030050 1.375 .876 .032048 1.377 .515 .050075 1.382 .542 .010030 1.399 .719 .010060 1.409 .503 .005010	1.417 1.070 .020040 1.425 .515 .005010 1.436 .125 .008016 1.438 1.190 .015030 1.449 .522 .105125 1.460 .569 .050070
1.374 1.078 .010020 1.375 .877 .005020 1.377 .517 .060080 1.382 .543 .040070 1.399 .890 .025040 1.409 .766 .015070	1.417 1.182 .050070
1.374 1.125 .050075 1.375 .878 .090120 1.377 .531 .100125 1.382 .633 .020030 1.399 .906 .050070 1.409 1.187 .005010 1.374 1.128 .010020 1.375 .883 .010020 1.377 .754 .060080 1.382 1.093 .005010 1.399 1.160 .030050 1.409 1.189 .050060	1.418 .204 .040060 1.425 1.155 .005010 1.436 .377 .010040 1.439 .466 .005010 1.449 .966 .040060 1.460 .761 .010020 1.418 .322 .010020 1.425 1.161 .040050 1.436 .383 .010040 1.439 .515 .125135 1.449 .990 .010020 1.460 .950 .040060
1.374 1.126 .010020 1.375 .000020 1.377 .754 .000000 1.382 1.093 .005010 1.399 1.100 .030050 1.409 1.109 .030050 1.300 1.300050 1.300 1.300050 1.300 1.300050 1.300	1.418 .375 .070090
1.374 1.209 .040060 1.375 .922 .015030 1.377 .790 .020040 1.382 1.138 .005010 1.400 .140 .020040 1.410 .265 .060080	1.418 .473 .005010 1.425 1.251 .060075 1.436 .555 .005010 1.439 .757 .040060 1.449 1.057 .040060 1.460 1.394 .020025
1.374 1.265 .030050 1.375 .936 .020032 1.377 .860 .005010 1.382 1.192 .020040 1.400 .269 .050070 1.410 .500 .015030	1.418
1.375 .100 .025045 1.375 .940 .060090 1.377 .895 .032048 1.383 .629 .090125 1.400 .379 .080100 1.410 .660 .015030	1.418

(51)

Dec Dec Dec Dec										NO	1001	LING CH	ARGE	FOR	ANY OF	IHE:	SIZES	LISTED
1440 1447 090	0.0	I D	Choose Any	0.0	1.0	Choose Any	0.0	ın		0.0	10	Choose Any	0.0	I D	Choose Any	0 D	1.0	Choose Any
1481 1580 1595 1597 1597 1598 1599	O.D.	1.D.	From To		1.D.	From To	O.D.	1.0.	From To	O.D.	1.0.	From To	O.D.	1.0.	From To	O.D.	1.0.	From To
1441 1450 1500 1500 1475 1500 1150 1485 1290 1055 105 1485 1290 1055 1055 1485 1290 1050 1																		
1442 500 2600 2																		
1442 557 0.08 0.08 4.75 5.06 0.08 0.09 0																		
1442 1427 1476 1670 1670 1476 1670 1670 1470																		
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1468 849 000 - 110																		
1488 189	1.463	.480	.090110															.005015
1.464 1.500	1.463	.813	.090110	1.475	.828	.062090	1.486	.893	.005010	1.493	1.314	.005010	1.496	1.181	.010020	1.498	1.021	.005010
1464 774 680												.015030	1.496	1.189				
1464 138 074 082 082 1478 256 05																		
1486 1379 015-022 1476 500 505 005 - 001 1487 3940 905 - 005 007 - 202 1485 1285 260 - 007 1489 1707 107 - 108 108 108 108 108 108 108 108 108 108 108 108 108 108																		
1486 377																		
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1466 1982 095 - 075 1477 1281 095 - 080 1.487 1.283 015 - 020 1.494 877 087 089 - 104 1.486 1.215 005 - 0.01 1.498 1.215 00																		
1.465 1.905 2.905 0.767 1.477 1.201 0.070 0.480 1.487 1.488 1.900 0.02	1.465	.812	.105134		.617											1.498	1.098	.030060
1468 1262 680 - 680 1478 1310 625 - 642 1488 550 100 - 125 1494 1057 680 - 1010 1497 1497 357 600 - 2000 1494 1075 600 - 000 1494 1075 600 - 000 1494 1075 600 - 000 1494 1075 600 - 000 1494 1075 600 - 000 1494 1075 600 - 000 1494 1075 600 - 000 1494 1075 600 - 000 1494 1075 600 - 000 1494 1075 600 - 000 1494 1075 600 - 000 1494 1075 600 - 000 1494 1075 600 - 000 1494 1075 1000 - 000 1494 1075 1000 - 000 1494 1075 1000 - 000 1494 1075 1000 - 000 1494 1075 1000 - 000 1494 1075 1000 - 000 1494 1075 1000 - 000 1494 1075 1000 - 000 1494 1075 1000 - 000 1494 1075 1000 - 000 1494 1075 1000 - 000 1494 1000 1000 - 000 1494 1000 1000 - 000 1494 1000 1000 - 000 1494 1000 1000 - 000 1494 1000 1000 - 000 1494 1000 1000 - 000 1494 1000 1000 - 000 1494 1000 1000 - 000 1494 1000 1000 - 000 1494 1000 1000 - 000 1494 1000 1000 - 000 1494 1000 1494 1000 1000 - 000 1494 1000 1000 - 000 1494 1000				1.477	1.201		1.487	1.368	.020030	1.494	.937	.030050	1.496	1.311	.010020			
1465 1366 035 - 056 1479 770 000 020 - 030 1488 1389 030 - 050 1479 1477 1375 050 - 080 1479 1377 030 - 050 1488 1389 040 - 050 1486 1489 1370 040 - 050 1489 1489 1365 040 - 050 1486 1489 1370 040 - 050 1489 1489 1365 040 - 050 1486 1479 1489 1													1.497	.145	.020040			
1466 1367 603 605 607 60																		
1466 576																		
1.466 1.664 1.605 1.005 1.407 1.138 1.015 1.005 1.408 1.318 1.005 1.005 1.408 1.318 1.005 1.005 1.408 1.318 1.005 1.005 1.408 1.318 1.005 1.005 1.408 1.318 1.005 1.005 1.408 1.318 1.005 1.005 1.408 1.318 1.005 1.005 1.408 1.318 1.005 1.005 1.408 1.308 1.005 1.005 1.408 1.308 1.005 1.005 1.408 1.308 1.005 1.005 1.408 1.308 1.005 1.005 1.408 1.308 1.005 1.005 1.408 1.308 1.005 1.005 1.408 1.308 1.005 1.005 1.408 1.308 1.005 1.005 1.408 1.308 1.005 1.005 1.408 1.308 1.005 1.005 1.408 1.308 1.005 1.005 1.408 1.308 1.005 1.005 1.408 1.308 1.005 1.005 1.408 1.308 1.005 1.408 1.40																		
1.466 1.072 0.00 - 0.00 1.479 1.147 0.05 - 0.01 1.488 1.313 0.30 - 0.042 1.494 1.265 0.05 - 0.00 1.497 1.421 1.585 - 1.867 1.498 1.378 0.05 - 0.01 1.486 1.278 0.00 - 0.00 1.488 1.305 0.30 - 0.042 1.494 1.265 0.00 - 0.01 1.497 5.15 1.00 - 1.005 - 0.01 0.490 0.00 - 0.00 1.486 1.285 0.00 - 0.00 1.497 1.496 1.005 0.00 - 0.00 1.490 0.00 0.00 1.486 1.285 0.00 - 0.00 0.																		
1.466 1.672 0.00 0.00																		
1.466 1.165 0.20 0.40																		
1.467 841 015 - 030 1 480 682 109 - 125 1489 1 004										1.494	1.270		1.497					
1.467 384 0.15 0.30																		
1.467 0.389 0.75 0.90																		
1.467 1.038 .075 .090 .1480 .702 .015 .060 .1490 .702 .025 .042 .1494 .1425 .025 .040 .1497 .733 .060 .081 .1499 .281 .005 .010 .1488 .310 .010 .020 .1480 .769 .005 .010 .1490 .243 .080 .100 .1495 .276 .005 .010 .1497 .753 .025 .080 .1499 .283 .070 .090 .1491 .1488 .348 .050 .070 .1480 .243 .080 .100 .1495 .254 .005 .010 .1497 .753 .025 .080 .1499 .281 .001 .125 .1488 .349 .050 .070 .1490 .281 .050 .050 .1490 .281 .050 .050 .1490 .281 .050 .050 .1490 .281 .050 .1490 .1490 .281 .050 .1490 .1490 .281 .050 .1490 .14																		
1.466 3.10 0.10 0.20 1.480 7.07 0.90 0.10 1.490 1.71 0.30 0.50 0.149 2.3 0.90 0.10 1.495 2.76 0.05 0.10 1.497 7.23 0.50 0.80 1.499 2.87 0.07 0.90 1.486 3.84 0.90 0.10 1.490 2.84 0.90 0.10 1.490 2.84 0.90 0.05 1.490 0.25																		
1.468 3.40 0.00 0.00 0.1480 7.69 0.05 0.01 1.490 243 0.80 1.00 1.496 2.66 0.05 0.01 1.497 7.53 0.25 0.04 1.499 2.68 0.07 0.090 1.486 3.49 0.05 0.07 0.1480 8.42 1.05 1.35 1.490 5.11 1.05 1.25 1.495 2.55 1.00 1.25 1.495 1.25 1.495 2.55 1.00 1.25 1.495 2.55 1.00 1.25 1.495 2.55 1.00 1.25 1.495 2.55 1.00 1.25 1.495 2.55 1.00 1.25 1.495 2.55 1.00 1.25 1.495 2.55 1.00 1.25 1.495 2.55 1.00 1.25 1.495 2.55 1.00 1.25 1.495 2.55 1.00 1.25 1.495 2.55 1.00 1.25 1.495 2.55 1.00 1.25 1.495 1.25 1.25 1.495 1.25 1.495 1.25																		
1.468 384 0.860 .0105 1.480 784 0.75 .080 1.490 3.25 1.66 1.87 1.485 2.24 2.25 1.00 1.25 1.487 7.57 0.10 .000 0.149 3.03 0.40 0.060 1.486 3.48 0.00 0.000 0.1480 0.84 0.00 0.000 0.1490 0.80 0.10 0.000 0.1490 0.80 0.10 0.000 0.1490 0.80 0.10 0.000 0.1490 0.80 0.10 0.000 0.1490 0.80 0.10 0.000 0.1490 0.80 0.10 0.000 0.1490 0.80 0.10 0.000 0.1490 0.80 0.10 0.125 0.1480 0.148																		
1.488 4.40 0.10 0.20	1.468	.384	.080105	1.480	.784	.075090	1.490									1.499	.281	.100125
1.468 8.640 0.50 - 0.75 1.480 1.049 120 - 1.56 1.480 8.88 0.01 - 0.20 1.485 355 0.05 - 101 1.497 8.170 0.05 - 101 1.480 1.120 1.01 - 0.20 1.480 8.88 0.05 - 101 1.487 8.180 0.05 - 101 0.499 3.95 1.35 - 1.56 1.481 1.481 1.19 1.125 1.480 7.60 0.02 - 0.30 1.495 4.59 1.56 - 1.87 1.497 8.81 0.05 - 101 0.499 3.99 1.56 - 1.90 1.488 1.250 0.05 - 0.10 1.480 1.124 0.05 - 0.01 1.480 8.20 0.05 - 0.01 1.480 1.250 0.05 - 0.01 1.480 1.222 0.05 - 0.01 1.480 8.20 0.05 - 0.01 1.485 5.50 1.05 - 1.55 1.497 9.06 1.00 - 1.25 1.489 4.99 0.05 - 0.01 1.488 1.250 0.05 - 0.01 1.480 1.222 0.05 - 0.01 1.480 8.20 0.05 - 0.01 1.485 5.50 1.05 - 1.55 1.497 9.06 1.00 - 1.25 1.499 4.74 0.05 - 0.01 1.489 6.65 1.00 - 1.20 1.481 1.229 0.05 - 0.01 1.480 8.20 0.05 - 0.01 1.495 5.50 1.05 - 1.55 4.5 0.01 0.05 0.01 1.497 1.119 0.00 1.00 - 1.25 1.499 4.74 0.05 0.01 1.498 8.08 0.05 - 0.01 1.481 1.622 0.05 - 0.01 1.495 6.29 0.00 - 0.05 1.497 1.126 1.35 - 1.56 1.499 4.74 0.05 0.00 1.499 8.00 0.05 0.01 1.498 1.00 1.00 1.25 1.495 1.00 1.00 1.00 1.00 1.00 1.148 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0										1.495	.295	.100125	1.497	.757	.010030			
1.488 820 005 -010 1.480 1.120 010 .020 1.480 .688 080 -100 1.495 375 030 .050 1.497 810 005 .010 1.499 385 1.35 .156 1.488 828 005 -010 1.480 1.134 1.030 .060 1.480 .760 020 -030 1.485 .500 1.05 .125 1.497 806 1.00 .100 1.499 399 391 1.56 .010 1.488 1.235 010 .005 .010 1.480 1.234 0.005 .010 1.480 820 .040 -0.600 1.485 .510 .070 .080 1.497 1.060 1.00 .125 1.499 399 .005 .010 1.488 1.310 0.005 .005 .010 1.480 1.226 0.005 .010 1.480 1.226 0.005 .010 1.480 1.226 0.005 .010 1.480 1.226 0.005 .010 1.480 1.226 0.005 .010 1.480 1.226 0.005 .010 1.480 1.226 0.005 .010 1.480 1.226 0.005 .010 1.480 1.226 0.005 .010 1.480 1.226 0.005 .010 1.480 1.226 0.005 .010 1.480 1.226 0.005 .010 1.480 1.226 0.005 .010 1.480 1.026 0.005 .010 1.480 1.080 0.005 0.000 1.480 1.080 0.005 0.000 1.4																		
1.488 9.88 0.05 - 0.10 1.480 1.134 110 - 1.125 1.480 7.60 0.20 - 0.300 0.149 4.59 1.56 - 1.87 1.497 9.89 1.00 - 1.00 1.499 3.99 0.05 - 0.10 1.488 1.250 0.05 - 0.10 1.480 1.222 0.05 - 0.10 1.480 8.26 0.05 - 0.10 1.480 1.222 0.05 - 0.10 1.480 8.26 0.05 - 0.10 1.480 1.222 0.05 - 0.10 1.480 8.26 0.05 - 0.10 1.480 1.220 0.05 - 0.10 1.480 1.220 0.05 - 0.10 1.480 8.26 0.05 - 0.10 1.481 1.22 0.05 - 0.10 1.481 0.22 0.05 - 0.10 1.481 0.22 0.05 - 0.10 1.481 0.22 0.05 - 0.10 1.481 0.22 0.05 - 0.10 1.481 0.22 0.05 - 0.10 1.480 1.220 0.05 - 0.10 1.481 0.22 0.05 - 0.10 1.480 1.220 0.05 - 0.10 1.481 0.22 0.05 - 0.10 1.480 1.220 0.05 - 0.10 1.481 0.22 0.05 - 0.10 1.481 1.120 0.05 - 0.10 1.480 1.120 0.05 - 0.10 1.481 0.25 0.05 0.10 1.480 1.120 0.05 - 0.10 1.485 0.20 0.05 - 0.10 1.481 1.120 0.05 - 0.10 1.480 1.120 0.05 - 0.10 1.485 0.120 0.1497 1.150 0.00 - 0.10 1.489 5.04 0.05 - 0.10 1.470 1.720 0.05 - 0.10 1.482 0.15 - 0.30 1.480 1.130 0.10 - 0.25 1.485 0.05 - 0.07 0.1497 1.130 0.05 - 0.10 1.489 0.140 0.05 - 0.10 1.480 1.120 0.05 - 0.10 1.480 1.120 0.05 - 0.10 1.480 1.120 0.05 - 0.10 1.480 1.120 0.05 - 0.10 1.480 1.120 0.05 - 0.10 1.480 1.120 0.05 - 0.10 1.480 1.120 0.05 - 0.10 1.480 1.120 0.05 - 0.10 1.480 1.120 0.05 - 0.10 1.480 1.120 0.05 - 0.10 1.480 1.120 0.05 - 0.10 1.480 1.120 0.05 - 0.10 1.480 1.120 0.05 - 0.10 1.480 1.120 0.05 - 0.10 1.480 1.120 0.05 - 0.10 1.480 1.120 0.05 - 0.10 1.480 1.120 0.05 - 0.10 1.480 1.120 0.05 - 0.10 1.480 0.120 0.05 - 0.10 1.480 0.05 - 0.10 1.480 0.05 - 0.10 1.480 0.05 - 0.10 1.480 0.05 - 0.10 1.480 0.05 - 0.10 1.480 0.05 - 0.10 1.480 0.05 - 0.10 1.480 0.05 - 0.10 1.480 0.05 - 0.10 1.48																		
1.468 1235 0.010 0.020 0.480 0.154 0.030 0.660 1.490 0.764 0.030 0.505 1.495 5.10 0.070 0.900 1.497 1.096 1.00 1.20 1.499 3.99 0.005 0.010 1.488 1.310 0.020 0.032 1.480 1.269 0.080 0.105 1.490 1.490 0.005 0.010 1.495 5.10 0.070 0.050 0.050 1.497 1.119 0.040 0.660 1.499 4.74 0.055 0.010 1.499 7.50 0.080 0.090 1.481 1.699 0.042 0.062 1.490 1.005 0.010 0.1495 6.629 0.040 0.050 1.497 1.137 0.055 0.101 1.499 5.050 0.055 0.011 1.499 1.705 0.080 0.055 0.011 1.490 1.025 0.055 0.011 1.495 6.829 0.040 0.050 0.0																		
1.488 1250 .005010 1.480 1.232 .005010 1.490 .875 .010125 1.495 .545 .010020 1.497 1.680 .109 .1499 .474 .005010 .1498 .686 .686 .100120 .1497 .1491 .494 .486 .005010 .1496 .686 .100120 .1497 .1491 .1494																		
1.488 1.310 0.20 0.32 1.480 1.269 0.80 0.155 1.480 0.875 1.00 1.255 1.485 5.26 0.01 0.205 1.487 1.119 0.40 0.60 0.1487 1.116 1.365 1.689 4.74 0.05 0.05 1.487 1.186 1.395 1.00 1.487 1.186 1.089 1.085 0.05 0.107 1.486 1.080 0.05 0.107 1.487 1.186 1.080 0.05 0.107 1.487 1.187 0.05 0.010 1.489 5.05 0.075 0.05 0.010 1.487 1.185 0.05 0.010 1.487 1.187 0.05 0.010 1.489 5.05 0.075 0.05 0.010 1.485 1.080 0.05 0.010 1.487 1.185 0.05 0.010 1.487 1.185 0.05 0.010 1.487 1.185 0.05 0.010 1.487 1.185 0.05 0.010 1.487 1.185 0.05 0.010 1.487 1.185 0.05 0.010 1.487 1.185 0.05 0.010 1.487 1.185 0.05 0.010 1.487 1.185 0.05 0.010 1.487 1.185 0.05 0.010 1.487 1.242 0.03 0.05 0.101 1.487 1.242 0.03 0.05 0.101 1.487 1.242 0.05 0.010 1.487 1.242 0.05 0.010 1.489 1.245 0.05 0.010 1.487 1.242 0.05 0.010 1.489 1.245 0.05 0.010 1.487 1.242 0.05 0.010 1.489 1.245 0.0																		
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1.470 1.711 0.05 - 0.10 1.481 1.108 0.05 - 0.42 1.490 1.130 0.10 - 0.25 1.495 1.028 0.06 - 0.00 1.497 1.142 0.03 - 0.05 1.499 5.61 0.05 - 0.10 1.470 0.05 0.05 0.10 1.470 0.05 0.05 0.10 1.470 0.05 0.05 0.10 1.470 0.05 0.05 0.10 1.470 0.05 0.05 0.10 1.470 0.05 0.05 0.10 1.470 0.05 0.05 0.10 1.470 0.05 0.05 0.10 1.470 0.05 0.05 0.10 1.470 0.05 0.05 0.10 1.470 0.05 0.05 0.10 1.470 0.05 0.05 0.10 1.470 0.05 0.05 0.10 1.470 0.05 0.10 1.470 0.05 0.05 0.10 1.470 0.05 0.05 0.10 1.470 0.05 0.05 0.10 1.470 0.05 0.05 0.05 0.10 1.470 0.05							1.490	1.063	.080100			.010020			.005010	1.499		
1470 203 010 - 020 1482 250 015 - 030 1490 1562 030 1490 105 - 030 05 - 010 1497 1292 005 - 012 1499 562 015 - 025 1490 1490 055 - 010 1497 1292 005 - 012 1499 562 015 - 025 1490 1490 1490 055 - 010 1497 1292 005 - 012 1499 563 010 - 020 1470 782 100 - 125 1482 823 135 - 156 1490 1790 005 - 010 1495 1.116 090 - 104 1497 1295 005 - 012 1499 574 050 - 080 1470 820 010 - 020 1482 884 020 - 040 1490 1193 010 - 020 1495 1.180 005 - 010 1497 1293 010 - 020 1499 599 000 - 030 1470 820 010 - 020 1482 884 020 - 040 1490 1272 080 - 080 1495 1.85 060 - 080 1497 1392 010 - 020 1499 682 005 - 010 1470 1062 048 - 075 1483 755 105 - 125 1490 1280 005 - 010 1495 1.85 020 - 030 1498 128 015 - 030 1499 630 005 - 010 1470 1062 048 - 075 1483 185 105 125 1490 1280 005 - 010 1495 1.85 185 020 - 030 1498 1480 1499 648 005 - 010 1470 1110 040 - 050 1494 1490 1490 1490 1490 1490 1490 149																		
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1.470 1.375 0.05 0.05 0.10 1.484 882 0.40 0.60 1.490 1.361 0.40 0.60 0.05 0.10 1.495 1.318 0.05 0.01 0.1498 3.60 0.05 0.10 0.499 7.63 0.40 0.60 0.55 0.10 0.495 1.395 0.05 0.10 0.498 3.61 0.05 0.05 0.10 0.499 0.63 0.05 0.10 0.495 0.305 0.10 0.495 0.65 0.05 0.10 0.495 0.65 0.05 0.10 0.495 0.65 0.05 0.10 0.495 0.65 0.05 0.10 0.495 0.65 0.05 0.10 0.495 0.65 0.05 0.10 0.495 0.65 0.05 0.10 0.495 0.05																		
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1.471 .877 .100125 1.485 .070 .030050 1.491 1.210 .010020 1.496 .256 .005010 1.498 .400 .170190 1.499 .876 .005010 1.471 .938 .105125 1.485 .138 .030050 1.491 1.312 .005010 1.496 .296 .010020 1.498 .406 .050125 1.499 .880 .040060 1.471 .333 .005040 1.485 .472 .080104 1.492 .394 .005010 1.496 .438 .040060 1.498 .412 .005010 1.499 .881 .040060 1.472 .501 .005010 1.485 .550 .060080 1.492 .886 .020032 1.496 .473 .005010 1.498 .502 .005010 1.499 .997 .105125 1.472 .762 .010020 1.485 .660 .005010 1.492 .1062 .100125 1.496 .512 .170190 1.498 .521																		
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1.474 1.357 .005010 1.485 1.108 .050070 1.493 1.008 .050070 1.496 .994 .010020 1.498 .825 .005010 1.499 1.135 .040060																		
	1.474	1.357	.005010	1.485	1.108	.050070	1.493	1.008	.050070	1.496	.994	.010020	1.498	.825				.040060

																		_
	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*
	1.499	1.142	.005012	1.500	.497	.105125	1.500	.900	.040060	1.500	1.389	.030050	1.508	.315	.105125	1.525	.685	.040060
		1.150	.040060	1.500	.498	.070090	1.500	.904	.104125	1.501	.125	.075090	1.508	.910	.080105	1.525	.800	.010020
		1.202 1.250	.005015 .050075	1.500 1.500	.500 .502	.005060	1.500 1.500	.908 .910	.026048 .140160	1.501	.188	.020040	1.509	.301	.090120	1.525		.005010
		1.256	.030040	1.500	.505	.005050	1.500	.934	.040060	1.501 1.501	.190 .200	.005010 .100125	1.509 1.510	.781 .510	.090105 .060080	1.525 1.525		.025040 .070090
		1.260	.040060	1.500	.506	.005125	1.500	.935	.030040	1.501	.280	.060090	1.510	.900	.030050	1.525		.040060
				1.500	.512	.060156	1.500	.937	.050075	1.501	.336	.105125	1.510	1.032	.015030	1.526		.040060
				1.500 1.500	.513 .515	.100125 .100125	1.500 1.500	.938 .942	.093109	1.501 1.501	.372 .382	.050070 .005012		1.089	.015030	1.526 1.526		.025042 .005010
				1.500	.519	.080104	1.500	.954	.050070	1.501	.385	.005012		1.236 1.258	.005010 .005010	1.526		.050070
				1.500	.521	.105125	1.500	.970	.080100	1.501	.437	.005010		1.312	.060070	1.527		.060078
	4		00	1.500	.530	.015125	1.500	.975	.005010	1.501	.508	.030050	1.511	.213	.090100	1.527		.015030
			UU	1.500 1.500	.536 .537	.006134 .030048	1.500 1.500	.993 .996	.025040 .050070	1.501 1.501	.514 .626	.005010 .010020	1.511 1.511	.630 .792	.080105 .090105	1.528 1.528	.187 .195	.025040 .050100
				1.500	.550	.090125		1.001	.005015	1.501	.715	.005010	1.511	.823	.170190	1.528	.250	.010030
	1.500	.084	.020035	1.500	.560	.005015	1.500		.040090	1.501	.755	.010020	1.511		.005010	1.528	.728	.005010
	1.500 1.500	.094 .126	.005010 .040060	1.500	.562	.050190	1.500		.005156	1.501	.773	.100125	1.511		.050075		1.009 1.276	.050070 .010020
	1.500	.130	.020032	1.500 1.500	.563 .564	.015030 .100120	1.500 1.500		.015050 .010070	1.501 1.501	.817 .820	.100125	1.511 1.511	1.113	.040060 .005010		1.285	.020040
	1.500	.135	.090104	1.500	.571	.025040	1.500		.040140	1.501	.840	.010020		1.227	.005010	1.529	.466	.005010
	1.500	.150	.040062	1.500	.577	.010015	1.500		.005020	1.501	.876	.040060	1.514	.940	.125135	1.529	.791	.030050
	1.500 1.500	.156 .157	.030125	1.500 1.500	.579 .605	.110130 .050070	1.500 1.500		.010020 .040190	1.501	.909	.050070		1.126	.062080	1.529 1.529	.984 1.052	.080105 .080100
	1.500	.161	.100125	1.500	.625	.030050	1.500		.100125		1.008	.080100	1.515 1.515	.583 .765	.120134 .050070		1.117	.100110
	1.500	.163	.010040	1.500	.626	.010125	1.500	1.019	.005012		1.010	.005010	1.515	.892	.045060	1.529		.020040
	1.500	.185	.050083	1.500	.634	.005010	1.500		.005125		1.012	.030050		1.360	.010015	1.529		.020040
	1.500 1.500	.188 .194	.005010 .025042	1.500 1.500	.636 .638	.060180 .020040	1.500 1.500		.020040 .005010	1.501	1.121 1.132	.020030	1.515 1.515	1.360	.040060 .020040	1.529 1.529	1.416 1.453	.020030 .005010
	1.500	.195	.048075	1.500	.640	.110130	1.500		.105125		1.133	.060080	1.515	1.378	.020040	1.530	.251	.015030
	1.500	.200	.010030	1.500	.655	.005020	1.500		.048134		1.188	.050070	1.516	.293	.050075	1.530	.282	.060080
	1.500	.209	.105125	1.500	.656	.075130	1.500		.008105	1.501		.020030	1.516	.915	.050070	1.530	.312	.030050
	1.500 1.500	.219 .245	.050070 .032060	1.500 1.500	.660 .665	.040060 .005010	1.500 1.500		.005010 .005010	1.501 1.502	1.290 .185	.005010		1.194 1.199	.005010 .005010	1.530 1.530	.536 .548	.005010 .005010
	1.500	.250	.010020	1.500	.687	.030050	1.500		.156187	1.502	.220	.060080	1.517	.755	.003010	1.530	.832	.020030
	1.500	.259	.060090	1.500	.688	.050070	1.500		.050075	1.502	.345	.080104	1.518	.770	.050070	1.530	1.031	.075090
	1.500	.265	.100125	1.500	.690	.120135	1.500		.020040	1.502	.349	.030048	1.518	1.195	.050070		1.141	.050070
	1.500 1.500	.266 .267	.015025 .005010	1.500 1.500	.694 .700	.005010 .070090	1.500 1.500		.010060 .005030	1.502 1.502	.375 .411	.060125 .005010	1.518 1.519	1.405 .271	.005010 .005010		1.202 1.280	.010030 .050060
	1.500	.269	.030048	1.500	.701	.050070	1.500		.005062	1.502	.441	.030050	1.519	.623	.005010	1.531	.333	.005010
	1.500	.275	.080090	1.500	.703	.005010	1.500		.005010	1.502	.444	.120135	1.519	.689	.060080	1.531	.390	.100125
	1.500 1.500	.280 .281	.040060 .156187	1.500 1.500	.713 .715	.005010 .005020	1.500 1.500		.032048 .005010	1.502	.562	.134187	1.520	.195	.035050	1.531 1.531	.516 .625	.060080 .005010
	1.500	.282	.008015	1.500	.713	.104125		1.127	.060083	1.502 1.502	.563 .648	.005010 .100120	1.520 1.520	.328 .753	.015020 .060080	1.531	.689	.060080
	1.500	.283	.005010	1.500	.725	.070090	1.500		.105125	1.502	.656	.156188	1.520	.760	.100110	1.531	.776	.025040
	1.500	.303	.005010	1.500	.749	.010025	1.500		.015030	1.502	.752	.105125	1.520	.801	.030050	1.531	.808	.030050
	1.500 1.500	.311 .312	.104134 .160190	1.500 1.500	.753 .754	.010125 .040060	1.500 1.500		.025042 .005010	1.502 1.502	.877 .885	.080100	1.520 1.520	.804 .808	.050070 .040070	1.531 1.531	1.000 1.015	.020032 .025042
	1.500	.313	.062080	1.500	.758	.105125	1.500		.070090	1.502	.891	.025040	1.520	.811	.080100		1.223	.010020
	1.500	.315	.008110	1.500	.760	.030050	1.500	1.175	.030050	1.502	.960	.060080	1.520	.816	.060080	1.532	.098	.030050
	1.500	.325	.048075	1.500	.761	.100125	1.500		.020040		1.015	.020030	1.520	.821	.040060	1.532	.765	.005010 .015025
	1.500 1.500	.330	.005010 .120135	1.500 1.500	.765 .768	.020080 .020030		1.180 1.186	.060080 .105135		1.067 1.110	.100125	1.520 1.520	.838 .850	.060080 .080090	1.532 1.532		.070020
	1.500	.340	.005010	1.500	.781	.015110		1.187	.015125		1.119	.120135	1.520	.890	.050070	1.533		.040060
	1.500	.345	.050070	1.500	.782	.050075		1.190	.005010		1.125	.005010	1.520	.891	.040060	1.533		.050060
	1.500 1.500	.346	.105135 .005010	1.500 1.500	.783 .785	.156187	1.500		.105125 .050070		1.150	.090125 .005010	1.520		.005010 .020050	1.534 1.534	.325 .505	.080104
	1.500	.364	.005010	1.500	.786	.005010	1.500		.005040	1.502	1.380 .509	.005010	1.520 1.520		.020030	1.534		.105125
	1.500	.372	.040060	1.500	.788	.105135	1.500		.090105	1.503	.701	.050070	1.521	.326	.030050	1.534	1.046	.015030
	1.500	.375	.060187	1.500	.792	.005040		1.202	.031048	1.503	.845	.025040	1.521	.390	.040060	1.534		.020040
	1.500	.376 .377	.015025 .005010	1.500	.804	.005012 .080104	1.500	1.204	.035048		1.008	.005010	1.521	.706 .889	.060080 .050070	1.534 1.535	.322	.020035 .050075
	1.500	.379	.030050	1.500	.810	.025040	1.500		.005010		1.020	.050075	1.521		.040060	1.535	.330	.156187
	1.500	.384	.010025	1.500	.812	.050100	1.500	1.225	.020030	1.504	.687	.010020	1.522	.966	.090110	1.535	.635	.025040
	1.500	.385	.005010	1.500	.813	.050100	1.500		.005010	1.504	.764	.020040	1.523	.346	.050070	1.535	.697	.156164
	1.500	.391	.050070 .010020	1.500 1.500	.817 .820	.005135 .020040	1.500	1.251	.025040 .105125	1.504 1.504	.784 .789	.042062	1.523 1.523	.503	.005010 .005020	1.535 1.535	.710 .710	.005010
	1.500	.395	.050083	1.500	.830	.015135		1.264	.020030	1.504	.811	.100125	1.523	.584	.050070	1.535	.788	.050070
	1.500	.397	.030050	1.500	.841	.040050		1.265	.005010		1.036	.120135	1.523		.005010	1.535	.867	.105125
	1.500 1.500	.398 .406	.005015 .005187	1.500	.853	.080104	1.500 1.500	1.266	.010020		1.230	.062090	1.524	.329	.110130	1.535 1.535	.904	.100125 .080104
	1.500	.411	.020030	1.500 1.500	.871 .873	.010020 .170190	1.500		.010020 .008018		1.287 1.378	.040060	1.524 1.524	.432	.100125 .040060	1.535		.005020
	1.500	.413	.075090	1.500	.874	.020040	1.500	1.277	.090125	1.505	.408	.015030	1.524	.560	.040060	1.535	1.140	.030040
	1.500	.437	.040125	1.500	.876	.100125		1.282	.008016	1.505	.440	.156187	1.524		.042060	1.535		.005010
	1.500 1.500	.440 .442	.005080 .005032	1.500 1.500	.877 .880	.100125 .010020	1.500	1.298 1.300	.010025 .050075	1.505 1.505	.510	.105125	1.524		.040060	1.535 1.535		.060080 .012025
	1.500	.450	.100125	1.500	.882	.110134	1.500		.050075		.845 1.003	.025035	1.525 1.525	.250	.050070 .005010	1.535		.020035
	1.500	.451	.005010	1.500	.883	.040125	1.500	1.316	.010020	1.505	1.109	.040060	1.525	.268	.005010	1.536	.188	.090120
	1.500	.453	.170190	1.500	.886	.156187		1.332	.025040		1.310	.015025	1.525	.501	.005010	1.536	.501	.010020
	1.500 1.500	.454 .479	.100125 .156187	1.500 1.500	.892 .893	.105120 .062090	1.500 1.500		.050070 .015060		1.249 1.324	.050075 .005010	1.525 1.525	.617 .657	.050060 .005010	1.536 1.536	.576 .651	.015030 .015030
1					.550	.000	1.000	1.070	.010 .000	1.507	1.024	.000 .010	1.020	.031	.000010		.501	.0.0
				*With B	OKER'	S precision v	vashers	, you ca	an choose th	e exact	thickne	ss you want	from the	tool ra	ange listed.			
				_	-			•			_	•		_	-			(F2)

Column	NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED	BOKER'S WEIAL WASHERS ARE FLAT AND TOWIDLE DEBURKED
Column	Choose Any Choose Any Choose Any O.D. I.D. Thickness* O.D. I.D. Thickness* O.D. I.D. Thickness* O.D. I.D. Thickness*	Choose Any
See	From To From To From To From To From To	From To From To From To From To
September 19		
State Stat	1.012 1.10 .000 .010	11020 1101 1100 1100
State Stat		
1		1020 1110 1020 1110
Column		
No.		
State Stat	1.537 .501 .010020 1.551 .438 .010020 1.561 .562 .005010 1.564 .501 .025040 1.572 1.255 .025040 1.577 1.341 .070090	1.598 .720 .005010 1.605 .881 .015030 1.617 1.390 .030050 1.624 .621 .050070 1.625 .882 .060070 1.629 1.125 .015025
1	1.537 .670 .005010 1.551 .440 .010020 1.561 .629 .075105 1.564 .511 .020040 1.572 1.258 .007016 1.578 .771 .025040	1.598 1.000 .080125 1.605 1.009 .105125 1.618 .107 .110130 1.624 .626 .010040 1.625 .932 .005012 1.629 1.319 .005010
Column C		1101 1001 1000 1010 1000 1010 1000
Second		
No.		11010 1010
State Stat		
150 150	11010 11010 1000	11010 1000 1110 1100 1100 1110 1100 1100 1100 1100 1100
Second S	1010 1012 1010 1000	
Section Sect	1.010 1.000 1.010 1.000 1.010	1010 10
1	1.010 1.010 1.010 1.010	
Fig. St.		
Section Sect	1.540 1.102 .025040 1.554 1.193 .060080 1.561 1.439 .005010 1.565 1.228 .030050 1.573 1.264 .005010 1.580 1.081 .010020	
Secondary Seco		1.600 .253 .005010 1.608 1.444 .015030 1.619 1.470 .010020 1.624 1.135 .015030 1.625 1.130 .090125 1.630 1.274 .005010
Second Person		102 1111 1000 1010 11000 1010
Part		
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1		1102 1120 1000 1100 1000
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Section Sect	100 100 100 100 100 100 100 100 100 100	
1-24 1.00		
Leg		
1.44 1.10 1.00 2.00 1.55 1.76 1.00	1.543 1.257 .025040 1.556 1.260 .015030 1.562 .746 .075105 1.567 .992 .010020 1.574 1.130 .012020 1.584 1.009 .040060	
154 1182 255 256		
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1.64 1.68 1.09 1.00		11000 1
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1.550 .500 .050070 1.560 .772 .005010 1.562 1.354 .005010 1.570 1.031 .080105 1.575 1.240 .030050 1.594 .657 .030060	1.601 .631 .005010 1.615 .629 .090100 1.623 .511 .090105 1.625 .634 .100125 1.627 1.267 .005030 1.643 .678 .080104
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NO TOOLING CHANGE FOR ANY OF THE SIZES EISTED	BOREN S WILLIAG WASHENS AND TOWNDER DEBORNED
Choose Any	Choose Any O.D. I.D. Thickness*
From To From To From To From To From To	From To From To From To From To
1.644 1.458 .020040 1.653 .631 .005010 1.668 1.144 .005010 1.685 1.190 .010020 1.698 1.449 .005010 1.715 .950 .050080	1.731 1.195 .025040 1.741 1.239 .030050 1.747 1.006 .110130 1.749 1.080 .050060 1.750 .627 .005010 1.750 1.316 .010020
1.644 1.528 .030050 1.653 .633 .020040 1.668 1.264 .005010 1.685 1.269 .062080 1.699 .625 .015030 1.715 1.033 .060080	1.731 1.255 .040050 1.742 .198 .050075 1.747 1.030 .020040 1.749 1.124 .100125 1.750 .628 .005032 1.750 1.318 .005008
1.645 .625 .015050 1.653 1.273 .050060 1.669 .987 .005010 1.685 1.300 .050060 1.699 .754 .010020 1.715 1.513 .015030	1.731 1.497 .030050 1.742 1.020 .020060 1.747 1.222 .005010 1.749 1.125 .010020 1.750 .629 .005090 1.750 1.319 .005010
1.645 .956 .105125 1.653 1.274 .050070 1.670 .635 .005010 1.685 1.360 .020030 1.699 .949 .050060 1.715 1.551 .005010	1.731 1.585 .010020 1.742 1.459 .010020 1.747 1.253 .005010 1.749 1.140 .030050 1.750 6.31 .005020 1.750 1.324 .035050
1.645 1.073 .005010 1.653 1.326 .070090 1.670 1.009 .100135 1.685 1.567 .032050 1.699 1.404 .005010 1.716 .405 .090120	1.732 .186 .010020 1.742 1.512 .060070 1.747 1.255 .005025 1.749 1.155 .080100 1.750 .635 .120135 1.750 1.329 .030050
1.645 1.250 .140160	1.732 .473 .005010 1.742 1.555 .050070 1.747 1.309 .050075 1.749 1.187 .016025 1.750 .637 .025040 1.750 1.351 .060080
1.645 1.328 .060080 1.653 1.416 .070090 1.670 1.131 .070080 1.686 .317 .020040 1.700 .125 .100125 1.716 .953 .050070	1.732
1.646 1.236 .030050 1.653 1.481 .040060 1.670 1.255 .025042 1.686 .345 .050070 1.700 .204 .100125 1.716 1.312 .020040	1.732
1.646 1.411 .015030 1.653 1.486 .030050 1.670 1.314 .005010 1.686 .350 .005010 1.700 .206 .100120 1.717 .410 .075090	1.732 .631 .010020 1.743 .511 .005010 1.747 1.376 .020030 1.749 1.255 .040060 1.750 .656 .010060 1.750 1.383 .005010
1.646 1.427 .015030 1.654 .128 .010020 1.670 1.380 .030050 1.686 1.070 .005012 1.700 .364 .100125 1.717 .758 .040060	1.732 .695 .007012 1.743 .532 .100125 1.747 1.394 .042062 1.749 1.256 .005010 1.750 .657 .040060 1.750 1.384 .015025
1.646 1.435 .070090 1.654 .475 .010020 1.670 1.417 .005010 1.686 1.190 .015030 1.700 .500 .005020 1.717 1.186 .015030	1.732 .748 .005030
1.646 1.460 .015025	1.732 .750 .070080
1.646 1.525 .005010 1.654 .639 .090105 1.671 .922 .005010 1.686 1.383 .016025 1.700 .505 .010020 1.718 .360 .050070	1.732 .993 .005010 1.743 1.339 .090105 1.747 1.451 .015025 1.749 1.400 .010020 1.750 .687 .005010 1.750 1.389 .060080
1.647 .619 .010020 1.654 .691 .005010 1.671 1.152 .030050 1.686 1.560 .005010 1.700 .578 .005010 1.718 .630 .015030	1.732 1.257 .040060 1.743 1.503 .020030 1.747 1.499 .015030 1.749 1.494 .005010 1.750 .688 .100125 1.750 1.394 .090120
1.647 .621 .025040 1.654 .820 .005010 1.671 1.200 .075105 1.687 .255 .080104 1.700 .579 .090100 1.718 .656 .100125	1.732 1.338 .040060 1.743 1.536 .040060 1.748 .116 .015030 1.749 1.499 .005010 1.750 1.398 .032050
1.647 .722 .005010 1.654 .834 .005050 1.672 .874 .105125 1.687 .375 .030050 1.700 .585 .135156 1.718 .705 .135156	1.732 1.387 .025040 1.744 1.254 .020040 1.748 .256 .010020 1.749 1.510 .010020 1.750 1.400 .005050
1.647 1.053 .010020 1.654 .886 .070090 1.672 1.198 .005010 1.687 .406 .105135 1.700 .631 .005020 1.718 1.130 .060083	1.732 1.420 .020040 1.744 1.322 .010020 1.748 .266 .042060 1.749 1.568 .025040 1.750 .733 .015025 1.750 1.410 .005020 1.732 1.429 .010020 1.744 1.398 .020040 1.748 .267 .030042 1.750 1.750 1.749 .050070 1.750 1.411 .008015
1.647 1.310 .050070	1.732 1.429 .010020 1.744 1.398 .020040 1.748 .267 .030042 1.750 .749 .050070 1.750 1.411 .008015 1.732 1.623 .020040 1.744 1.447 .030050 1.748 .278 .005010 1.750 .750 .100156 1.750 1.420 .070090
1.647 1.426 .005010 1.654 1.265 .050070 1.673 .714 .005010 1.687 .562 .005020 1.700 .860 .090105 1.718 1.402 .005010 1.648 .408 .062080 1.654 1.272 .010020 1.674 1.150 .040060 1.687 .634 .030050 1.700 .938 .135156 1.719 .481 .090110	1.732 1.630 .010020 1.744 1.503 .020040 1.748 .281 .048062 1.750 .751 .090110 1.750 1.435 .005040
1.648 .543 .040060	1.732 1.030 .010020 1.744 1.505 .030105 1.748 .281 .048002 1.750 .754 .015030 1.750 1.436 .120134 1.750 .754 .015030 1.750 1.436 .120134
1.648 1.008 .010020 1.654 1.420 .005010 1.675 .771 .060075 1.687 .893 .005010 1.700 1.000 .060083 1.719 1.063 .030050	1.733 .992 .015030 1.744 1.567 .005010 1.748 .395 .010025
1.648 1.194 .090105 1.655 .203 .050075 1.675 .800 .042075 1.687 1.226 .030050 1.700 1.000 .000083 1.719 1.003 .030030 1.719 1.003 .030 1.719 1.003 .030 1.719 1.003 .030 1.719 1.003 .030 1.719 1.003 .030 1.719 1.003 .030 1.719 1.003 1.003 1.719 1.003 1.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
1.648 1.270 .020030 1.655 .473 .005010 1.675 .855 .005010 1.687 1.312 .030040 1.700 1.190 .020080 1.719 1.275 .070090	1.733 1.257 .040050 1.745 .162 .015030 1.748 .562 .100125 1.750 1.750 .750 .005010 1.750 1.450 .040060
1.648 1.403 .005010 1.655 .629 .005010 1.675 1.285 .060080 1.687 1.520 .060070 1.700 1.192 .100125 1.719 1.378 .050070	1.733 1.506 .050075 1.745 .195 .005012 1.748 .627 .060080 1.750 1.
1.648 1.515 .040050	1.733 1.575 .010020 1.745 .315 .060080 1.748 .752 .005030 1.750 .127 .005010 1.750 .815 .005030 1.750 1.500 .025040
1.649 .055 .005010	1.734 .253 .105125
1.649 .505 .005010	1.734 .924 .005010
1.649 .562 .010020 1.655 .905 .050070 1.677 1.499 .020030 1.688 1.090 .070090 1.700 1.380 .005010 1.710 1.720 .217 .040070	1.734 1.257 .100115 1.745 .636 .005010 1.748 .765 .050070 1.750 .194 .075100 1.750 .025 .030010 1.750 1.531 .030080
1.649 .621 .030050 1.655 .985 .015030 1.678 .717 .020030 1.688 1.097 .030050 1.700 1.385 .040060 1.720 .250 .042062	1.734 1.257 .120140 1.745 .640 .020030 1.748 .767 .100125 1.750 .195 .030050 1.750 .832 .050070 1.750 1.532 .025045
1.649 1.296 .005010 1.655 1.063 .030050 1.678 .756 .105125 1.688 1.262 .050075 1.700 1.389 .005010 1.720 .257 .070080	1.734 1.382 .070090 1.745 .647 .005010 1.748 .770 .010020 1.750 .201 .080100 1.750 .876 .030105 1.750 1.550 .010015
1.649 1.366 .060080 1.655 1.125 .020030 1.678 .769 .025040 1.688 1.432 .030050 1.700 1.400 .040060 1.720 .265 .052083	1.734 1.399 .005010 1.745 .695 .100125 1.748 .781 .050075 1.750 .204 .105125 1.750 .878 .006016 1.750 1.565 .005010
1.649 1.449 .050070 1.655 1.179 .005020 1.678 1.342 .080100 1.688 1.507 .040060 1.700 1.451 .005010 1.720 .503 .005010	1.734 1.451 .005010 1.745 .885 .050070 1.748 .785 .100125 1.750 .220 .050070 1.750 .906 .100125 1.750 1.566 .005010
1.649 1.499 .050070 1.655 1.395 .005010 1.679 .897 .156188 1.689 .517 .075105 1.700 1.504 .030050 1.720 .655 .025040	1.734 1.536 .015030 1.745 1.073 .010020 1.748 .875 .020040 1.750 .238 .060090 1.750 .907 .110130 1.750 1.567 .010020
1.649 1.501 .010020 1.655 1.412 .005010 1.679 .951 .040060 1.689 .940 .090125 1.700 1.515 .012020 1.720 .718 .005010	1.735 .113 .030050
1.650 .051 .015030 1.655 1.440 .030050 1.679 1.050 .005010 1.689 1.230 .100125 1.700 1.542 .010020 1.720 .760 .105125	1.735 .378 .030050
1.650 .132 .010020 1.655 1.541 .005010 1.679 1.182 .040060 1.689 1.376 .020030 1.701 .560 .010020 1.720 1.000 .060083	1.735 .896 .080105 1.745 1.133 .010020 1.748 1.019 .060083 1.750 .252 .025125 1.750 .943 .060080 1.751 .325 .005010
1.650 .377 .030050 1.656 1.101 .120156 1.679 1.365 .015030 1.690 .125 .020040 1.701 1.004 .005010 1.720 1.225 .008015	1.735 1.259 .125156
1.650 .411 .015025 1.656 1.223 .090105 1.679 1.375 .005010 1.690 .410 .105125 1.701 1.266 .015030 1.720 1.400 .015030	1.735 1.265 .015030 1.745 1.196 .020040 1.748 1.060 .010020 1.750 .262 .025042 1.750 .954 .010020 1.751 .511 .005010
1.650 .424 .100125 1.656 1.344 .050070 1.679 1.389 .040060 1.690 .711 .050070 1.701 1.385 .030050 1.720 1.464 .010020	1.735 1.399 .005010 1.745 1.370 .025040 1.748 1.072 .005010 1.750 .270 .120135 1.750 1.000 .010020 1.751 .560 .010060
1.650 .440 .010020 1.656 1.390 .030050 1.680 .250 .010035 1.690 .890 .080104 1.701 1.450 .040060 1.721 1.306 .050075	1.735 1.438 .075090 1.745 1.375 .005010 1.748 1.136 .075090 1.750 .272 .010020 1.750 1.003 .050070 1.751 .626 .025040
1.650 .441 .005010 1.656 1.437 .040060 1.680 .500 .010105 1.690 1.163 .040050 1.702 .208 .040060 1.721 1.408 .005010	1.735 1.513 .093105 1.745 1.448 .020030 1.748 1.161 .040060 1.750 .320 .100120 1.750 1.005 .015187 1.751 .628 .100125
1.650 .449 .010020 1.656 1.581 .005010 1.680 .605 .040060 1.690 1.187 .020040 1.702 .820 .080100 1.721 1.514 .020030	1.735
1.650 .500 .005010 1.657 .345 .005010 1.680 .712 .040060 1.690 1.303 .030050 1.702 .825 .156190 1.722 .417 .005010	1.736 .475 .005010 1.745 1.560 .010020 1.748 1.293 .070090 1.750 .343 .100125 1.750 1.010 .050070 1.751 .720 .156187
1.650 .503 .005060 1.657 .352 .005010 1.680 .768 .040060 1.690 1.378 .030060 1.702 1.000 .010020 1.722 .752 .045060	1.736 1.149 .030060 1.745 1.561 .015025 1.748 1.299 .005010 1.750 .365 .105125 1.750 1.015 .156188 1.751 .890 .105135
1.650	1.736 1.253 .060080 1.746 .373 .060080 1.748 1.316 .070090 1.750 .375 .090125 1.750 1.016 .050070 1.751 1.002 .105125
1.650 620 .015125 1.657 1.135 .090110 1.680 .813 .040060 1.691 .772 .010020 1.703 .114 .005015 1.723 .265 .050083	1.737 .350 .015030
1.650 625 .005020 1.657 1.182 .100120 1.680 .856 .040060 1.691 1.083 .005010 1.703 1.320 .050075 1.723 .354 .060080	1.737 .401 .005010 1.746 .497 .025040 1.748 1.374 .100125 1.750 .395 .100125 1.750 1.020 .005125 1.751 1.033 .050075
1.650 .626 .020030	1.737 1.501 .040060 1.746 .595 .005010 1.748 1.380 .020040 1.750 .396 .090120 1.750 1.025 .010020 1.751 1.132 .050075
1.650 .629 .005010 1.658 1.182 .010015 1.680 .927 .040060 1.691 1.477 .005010 1.704 .114 .005010 1.723 1.415 .020040	1.737 1.502 .005010 1.746 .781 .100125 1.748 1.499 .015030 1.750 .398 .005010 1.750 1.031 .135156 1.751 1.198 .070090
1.650 .630 .010020 1.658 1.229 .005010 1.680 .965 .040060 1.691 1.563 .005010 1.704 .169 .010025 1.723 1.513 .070090	1.738 .771 .015025
1.650 .634 .020040 1.659 .754 .025040 1.680 1.102 .030050 1.692 .885 .080100 1.705 1.250 .005012 1.724 .375 .040060 1.650 .686 .062080 1.659 1.518 .050062 1.680 1.195 .090120 1.693 .803 .040060 1.705 1.418 .015030 1.724 1.195 .060080	1.738 .882 .090105
1.650	1.738 1.249 .005010 1.746 1.066 .005010 1.749 .141 .060080 1.750 .410 .100125 1.750 1.060 .030060 1.751 1.302 .005010
1.650 .750 .156190 1.660 .634 .010020 1.680 1.372 .010025 1.694 .723 .005010 1.706 .586 .070090 1.725 1.410 .005010	1.738 1.257 .005020 1.746 1.133 .040060 1.749 .211 .105125 1.750 .436 .150187 1.750 1.062 .050075 1.751 1.405 .050075
1.650 1.010 .090 -1.05	1.738 1.260 .070090 1.746 1.141 .005010 1.749 .270 .075090 1.750 .437 .060120 1.750 1.120 .005010 1.751 1.434 .020040
1.650 1.094 .040060 1.660 .964 .010020 1.680 1.450 .032060 1.694 1.260 .090110 1.707 .780 .005010 1.726 1.385 .030050	1.738 1.548 .005015
1.650 1.181 .025060 1.660 1.188 .005010 1.681 .196 .005010 1.694 1.499 .025040 1.707 1.002 .105135 1.727 1.623 .020035	1.739 1.114 .030050 1.746 1.190 .090125 1.749 .335 .005010 1.750 .440 .005020 1.750 1.124 .100125 1.751 1.569 .020035
1.650 1.250 .005030 1.660 1.250 .015030 1.681 .894 .050070 1.694 1.500 .005015 1.708 .381 .060080 1.728 .878 .100125	1.739 1.302 .020040 1.746 1.254 .100125 1.749 .350 .060080 1.750 .471 .170190 1.750 1.126 .010083 1.751 1.583 .025040
1.650 1.252 .105156 1.660 1.354 .015030 1.681 1.034 .105125 1.695 .203 .040060 1.708 1.247 .005020 1.728 1.509 .060080	1.739 1.446 .040060 1.746 1.320 .005010 1.749 .375 .005010 1.750 .500 .120140 1.750 1.130 .105125 1.752 .262 .100120
1.650 1.253 .020030 1.660 1.375 .090120 1.681 1.193 .020040 1.695 .314 .040060 1.708 1.311 .030050 1.729 .870 .020040	1.740 .362 .050070 1.746 1.448 .050075 1.749 .381 .005010 1.750 .504 .010060 1.750 1.135 .005010 1.752 .375 .030050
1.650 1.262 .005010 1.660 1.389 .090105 1.681 1.300 .040060 1.695 .998 .005010 1.708 1.312 .050075 1.729 1.361 .020040	1.740 .501 .025040 1.746 1.535 .060080 1.749 .389 .156187 1.750 .505 .005060 1.750 1.139 .015060 1.752 .381 .040060
1.650 1.321 .100125 1.660 1.390 .110130 1.681 1.372 .005020 1.695 1.010 .100125 1.709 .391 .005015 1.729 1.475 .005010	1.740 .503 .070090 1.747 .282 .025040 1.749 .502 .015025 1.750 .508 .040060 1.750 1.141 .060080 1.752 .485 .156190
1.650 1.328 .005010 1.661 1.141 .080100 1.681 1.400 .005010 1.695 1.537 .060075 1.709 .761 .156187 1.730 .632 .005010	1.740 .765 .032060 1.747 .286 .005010 1.749 .534 .005010 1.750 .510 .048134 1.750 1.150 .090120 1.752 .531 .005010
1.650 1.399 .050070 1.661 1.194 .025042 1.682 1.016 .060080 1.696 1.002 .060083 1.710 .760 .100125 1.730 .748 .005010	1.740 .878 .100125 1.747 .314 .100125 1.749 .546 .156187 1.750 .515 .120135 1.750 1.170 .030048 1.752 .563 .110130
1.650 1.413 .015025 1.661 1.359 .105125 1.683 .819 .010020 1.696 1.200 .020040 1.710 1.093 .015035 1.730 1.000 .080105	1.740 1.008 .050060 1.747 .333 .090110 1.749 .701 .050070 1.750 .516 .005010 1.750 1.187 .030080 1.752 .640 .010020
1.650 1.430 .070090 1.661 1.381 .005010 1.683 .918 .010020 1.696 1.397 .005010 1.710 1.345 .005010 1.730 1.300 .060070	1.740 1.058 .060080 1.747 .502 .032048 1.749 .781 .040060 1.750 .531 .015125 1.750 1.189 .100125 1.752 .800 .025040
1.651 .276 .030040 1.662 1.375 .040060 1.683 1.006 .050075 1.696 1.452 .080105 1.711 1.143 .156187 1.730 1.330 .010050	1.740 1.199 .025040 1.747 .515 .005010 1.749 .783 .005010 1.750 .532 .100125 1.750 1.190 .005010 1.752 .907 .180199
1.651 .690 .005010 1.662 1.410 .040125 1.683 1.298 .090105 1.697 .453 .100125 1.711 1.300 .050070 1.730 1.353 .005010 1.651 818 .040 .060 1.663 .340 .005 .010 1.684 1.188 .005 .010 1.697 .961 .000 .105 1.734 1.407 .000 .040 1.730 1.300 .040 .060	1.740 1.236 .105125
1.651 .818 .040060	1.740 1.244 .005010 1.747 .543 .100125 1.749 .894 .005010 1.750 .535 .105135 1.750 1.226 .015040 1.752 1.000 .030060 1.740 1.260 .010060 1.747 .565 .050075 1.749 .920 .005015 1.750 .543 .040060 1.750 1.250 .010030 1.752 1.051 .020040
1.651 1.251 .005010 1.663 1.291 .020040 1.684 1.389 .025040 1.697 1.308 .105125 1.712 .905 .025040 1.730 1.478 .010020 1.651 1.300 .015025 1.663 1.298 .060090 1.684 1.442 .005010 1.697 1.328 .005010 1.712 1.617 .005010 1.730 1.498 .040060	1.740 1.260 .010060 1.747 .565 .050075 1.749 .920 .005015 1.750 .343 .040060 1.750 1.250 .010030 1.752 1.051 .020040 1.740 1.261 .066012 1.747 .620 .050075 1.749 .937 .020040 1.750 .551 .060080 1.750 1.252 .010020 1.752 1.062 .100125
1.651 1.300 .015025 1.663 1.298 .000090 1.684 1.442 .005010 1.697 1.328 .005010 1.712 1.617 .005010 1.730 1.496 .040000 1.651 1.413 .020030 1.664 1.471 .015030 1.684 1.525 .015030 1.697 1.338 .010020 1.713 1.500 .050070 1.730 1.541 .015030	1.740 1.261 .006012 1.747 .620 .050075 1.749 .937 .020040 1.750 .562 .005080 1.750 1.252 .010020 1.752 1.062 .100125 1.740 1.313 .062093 1.747 .626 .032060 1.749 1.000 .025040 1.750 .562 .005187 1.750 1.253 .005010 1.752 1.064 .110130
1.652 .562 .005020	1.740 1.313 .002093 1.747 .626 .032060 1.749 1.000 .025040 1.750 .362 .003167 1.750 1.253 .003010 1.762 1.064 .110130 1.740 1.380 .090110 1.747 .701 .125134 1.749 1.001 .050070 1.750 .564 .010020 1.750 1.254 .020082 1.752 1.256 .020040
1.652 .786 .070090 1.665 1.437 .070090 1.685 .340 .025042 1.698 .453 .100125 1.714 1.409 .050070 1.731 .748 .015030	1.740 1.530 .005010 1.747 .701 .125134 1.749 1.001 .050070 1.750 .304 .010020 1.750 1.254 .020020 1.752 1.250 .020040 1.740 1.530 .005010 1.747 .815 .010020 1.749 1.005 .125135 1.750 .566 .105125 1.750 1.255 .010020 1.752 1.450 .080100
1.652 1.760 1.770 1.090 1.000 1.437 1.070 1.090 1.085 1.000 1.090 1.090 1.090 1.090 1.731 1.740 1.090 1.090 1.731 1.740 1.090 1.731 1.740 1.090 1.090 1.731 1.740 1.090 1.090 1.731 1.740 1.090 1.090 1.090 1.090 1.090 1.090 1.090 1.090 1.090 1.090 1.090 1.731 1.740 1.090 1.090 1.731 1.740 1.090	1.740 1.531 .015030 1.747 .885 .100125 1.749 1.015 .015030 1.750 .300 .103125 1.750 1.256 .090105 1.752 1.453 .083120
1.653 .474 .020030	1.740 1.535 .040060 1.747 .892 .075105 1.749 1.020 .105135 1.750 .623 .020075 1.750 1.259 .080105 1.752 1.500 .080090
1.653 .475 .005010 1.666 .895 .005008 1.685 .782 .020040 1.698 .715 .090105 1.714 1.613 .005010 1.731 .866 .080100	1.740 1.600 .005010 1.747 .906 .120140 1.749 1.031 .105135 1.750 .624 .100125 1.750 1.260 .005042 1.752 1.507 .050070
1.653 .492 .090 - 125 1.667 1.400 .005 - 010 1.685 1.065 .032060 1.698 .753 .060090 1.715 .185 .060080 1.731 .881 .040060	1.740 1.609 .020040 1.747 .908 .010020 1.749 1.038 .010020 1.750 .625 .010160 1.750 1.261 .040060 1.752 1.513 .042062
1.653 .502 .005010 1.668 1.010 .042060 1.685 1.070 .040050 1.698 .760 .080100 1.715 .188 .020030 1.731 1.135 .005010	1.741 1.010 .025040 1.747 .918 .070090 1.749 1.074 .090105 1.750 .626 .010020 1.750 1.300 .040060 1.752 1.528 .070090

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED	BOKER'S METAL WASHERS ARE FLAT AND TOMBLE DEBURKED
Choose Any O.D. I.D. Thickness*	Choose Any
O.D. I.D. Thickness* O.D. I.D.	O.D. I.D. Thickness*
1.753 .343 .080104 1.770 1.250 .040060 1.790 1.679 .005010 1.805 .338 .005010 1.813 .251 .083104 1.838 1.571 .030050	1.850 1.071 .060080 1.870 .795 .040060 1.874 1.450 .150170 1.876 1.156 .105135 1.886 1.446 .050075 1.900 1.651 .080100
1.753 .387 .040080 1.770 1.265 .005010 1.791 1.276 .010020 1.805 .375 .090105 1.813 .751 .025040 1.839 1.251 .025030	1.850 1.107 .005010 1.870 .880 .042062 1.874 1.479 .020030 1.876 1.257 .105135 1.887 .670 .040060 1.900 1.660 .005010
1.753 .751 .080100 1.770 1.542 .010020 1.791 1.280 .040060 1.805 .550 .025040 1.813 .754 .030040 1.839 1.382 .005010	1.850 1.122 .005020 1.870 .901 .005010 1.874 1.515 .010020 1.876 1.260 .005040 1.887 1.186 .010020 1.900 1.375 .010020
1.753 .752 .105125 1.770 1.565 .050070 1.791 1.605 .030050 1.805 1.117 .020040 1.813 .906 .025040 1.840 .249 .060075	1.850 1.199 .040050 1.870 .909 .015030 1.874 1.588 .020040 1.876 1.265 .025040 1.887 1.300 .040060 1.901 .626 .025040
1.753 1.067 .005010 1.77 1.569 .020040 1.792 1.605 .010020 1.805 1.375 .030060 1.813 .938 .005010 1.840 .509 .050070	1.850 1.310 .005007 1.870 .911 .005010 1.874 1.595 .030050 1.876 1.380 .010020 1.888 .755 .005010 1.901 .726 .105125
1.753 1.268 .005010 1.770 1.629 .015025 1.793 .638 .005010 1.805 1.398 .005010 1.813 1.140 .156187 1.840 .679 .050070	1.850 1.391 .010020 1.870 1.004 .020030 1.874 1.625 .015030 1.876 1.381 .015040 1.888 .788 .050070 1.901 .760 .120140
1.753 1.313 .080100 1.771 .257 .050070 1.793 .999 .010020 1.805 1.565 .010020 1.813 1.266 .090105 1.840 .700 .030040	1.850 1.438 .100120 1.870 1.032 .105125 1.874 1.627 .025040 1.876 1.382 .020040 1.889 .760 .015030 1.901 .781 .105125
1.753 1.323 .005010 1.771 .433 .105125 1.793 1.499 .020030 1.805 1.584 .015030 1.813 1.323 .010020 1.840 1.000 .020040	1.850 1.570 .020050 1.870 1.196 .010020 1.874 1.752 .010020 1.876 1.438 .100125 1.890 .380 .105135 1.901 1.501 .010020
1.753 1.385 .005008 1.771 .812 .020030 1.794 .387 .010020 1.805 1.591 .070090 1.813 1.394 .040060 1.840 1.005 .005010	1.850 1.581 .005010 1.870 1.273 .010020 1.875 .125 .030050 1.876 1.508 .020060 1.890 .512 .005010 1.902 .631 .005010
1.753 1.564 .050070 1.771 1.332 .090105 1.794 1.588 .010020 1.805 1.718 .005010 1.813 1.585 .010020 1.840 1.008 .090105	1.850 1.640 .005010 1.870 1.392 .010015 1.875 .159 .010020 1.876 1.592 .090105 1.890 .630 .005010 1.902 1.101 .040062
1.754 .894 .100125	1.850 1.685 .015025
1.754 1.254 .062083 1.771 1.397 .005010 1.795 .510 .105125 1.806 .350 .005010 1.814 1.300 .025050 1.840 1.343 .010020	1.851 1.505 .025040 1.870 1.419 .010020 1.875 .204 .100125 1.876 1.752 .020030 1.890 1.023 .010025 1.902 1.256 .083104
1.754 1.375 .105125 1.772 .501 .010025 1.795 1.001 .005010 1.806 1.344 .015030 1.815 .323 .005016 1.840 1.424 .050075	1.851 1.590 .005012 1.870 1.504 .025040 1.875 .250 .050105 1.876 1.764 .010020 1.890 1.220 .040090 1.902 1.420 .020040
1.754 1.387 .020030 1.772 1.313 .050060 1.795 1.625 .025040 1.806 1.655 .030050 1.815 .410 .070110 1.840 1.425 .065080	1.851 1.630 .005025 1.870 1.513 .060090 1.875 .317 .015030 1.877 .320 .100125 1.890 1.256 .040060 1.902 1.570 .005010
1.755 .186 .060080 1.772 1.360 .005010 1.796 1.688 .015030 1.806 1.660 .005010 1.815 .523 .010020 1.840 1.479 .040060	1.852 .290 .020030
1.755 .257 .040060 1.772 1.361 .005010 1.797 1.687 .020030 1.806 1.690 .030050 1.815 .772 .100125 1.840 1.519 .040060	1.852 .560 .070090 1.871 1.009 .005010 1.875 .375 .040060 1.877 1.008 .015030 1.890 1.384 .005010 1.903 .719 .010125
1.755 .281 .080100	1.852 .629 .005010 1.871 1.260 .156187 1.875 .408 .060080 1.877 1.376 .005010 1.890 1.389 .010020 1.903 1.031 .050070
1.755 .322 .050070	1.852 1.165 .035045 1.871 1.377 .050070 1.875 .409 .090120 1.877 1.505 .070090 1.890 1.496 .020040 1.903 1.404 .015025
1.755 .906 .040062 1.773 .471 .130150 1.798 .931 .050075 1.807 1.007 .050070 1.815 1.192 .080100 1.841 .402 .040060	1.852 1.378 .005010 1.871 1.417 .060080 1.875 .437 .005010 1.877 1.525 .015030 1.890 1.510 .010020 1.904 1.510 .025040
1.755 1.285 .060080 1.773 .501 .005020 1.798 1.076 .005010 1.807 1.209 .090105 1.815 1.523 .015030 1.841 .551 .105125	1.852 1.524 .070090 1.871 1.770 .015030 1.875 .450 .105125 1.877 1.527 .050070 1.890 1.562 .005010 1.904 1.565 .010020
1.755 1.536 .050070 1.773 1.023 .050070 1.798 1.122 .105125 1.807 1.223 .005010 1.816 .751 .010020 1.841 1.189 .015040	1.852 1.590 .008015 1.872 .626 .050075 1.875 .510 .090125 1.877 1.563 .025040 1.890 1.614 .040060 1.905 1.160 .005010
1.756 .484 .105135 1.773 1.149 .050070 1.798 1.255 .100125 1.807 1.438 .040060 1.816 1.338 .020030 1.841 1.404 .005010	1.854 1.658 .020030 1.872 .632 .156187 1.875 .620 .062075 1.877 1.637 .030040 1.891 1.000 .008015 1.905 1.510 .005010
1.757 .252 .080 - 1.04 1.773 1.386 .070090 1.799 .096 .030050 1.807 1.518 .030060 1.818 .631 .020030 1.841 1.407 .005010	1.855 1.416 .030050 1.872 .756 .005010 1.875 .626 .015030 1.878 .621 .005020 1.891 1.339 .040060 1.905 1.590 .010030
1.757 .629 .100125 1.773 1.500 .010020 1.799 .180 .030050 1.808 .690 .030050 1.818 1.065 .015030 1.841 1.569 .005010	1.855 1.500 .125135 1.872 .891 .005010 1.875 .629 .040060 1.878 .655 .090120 1.891 1.719 .010020 1.905 1.627 .025040
1.757 1.437 .005010 1.774 .127 .015030 1.799 .377 .005010 1.808 1.534 .010020 1.818 1.404 .025040 1.842 .378 .100125	1.856 1.263 .105125 1.872 .909 .010025 1.875 .632 .104135 1.878 .690 .005010 1.892 .989 .005010 1.905 1.640 .080100
1.758 .562 .005010 1.774 1.182 .040060 1.799 .753 .042060 1.809 .096 .040060 1.818 1.406 .020030 1.842 .640 .025040	1.857 .586 .020030 1.872 1.260 .075135 1.875 .718 .062075 1.878 .754 .125156 1.892 1.367 .100125 1.906 .194 .070090
1.758 1.476 .050070 1.774 1.362 .005010 1.799 .795 .036050 1.809 .463 .025040 1.818 1.498 .040060 1.842 .828 .005010	1.857 .710 .090125 1.872 1.318 .040060 1.875 .757 .005010 1.878 .812 .105125 1.892 1.719 .005010 1.906 .316 .060080
1.760 .445 .015030 1.774 1.484 .020030 1.799 .945 .100125 1.809 1.063 .093113 1.818 1.502 .020030 1.842 1.098 .080100	1.857 1.435 .005012 1.872 1.387 .005010 1.875 .781 .075090 1.878 1.053 .005010 1.893 .508 .104125 1.906 .381 .090120
1.760 .631 .010020 1.775 1.275 .100130 1.799 1.020 .040060 1.809 1.121 .105120 1.818 1.572 .005010 1.842 1.251 .090125	1.858 1.340 .020030 1.872 1.509 .005010 1.875 .875 .015030 1.878 1.500 .060080 1.893 .535 .100125 1.906 .409 .050070
1.760 .767 .007016 1.775 1.511 .025040 1.799 1.029 .120135 1.809 1.437 .005008 1.819 .450 .010020 1.842 1.531 .040060	1.858 1.360 .025040 1.872 1.513 .005010 1.875 .876 .010020 1.878 1.505 .010020 1.884 .868 .020030 1.906 1.314 .080105
1.760 1.140 .007016 1.775 1.517 .030040 1.799 1.380 .050075 1.810 .100 .020050 1.819 1.580 .005008 1.842 1.643 .025040	1.859 .389 .050075 1.873 .177 .050070 1.875 .890 .110130 1.878 1.650 .030040 1.894 1.180 .005010 1.906 1.557 .015030
1.760 1.270 .020040 1.775 1.520 .025040 1.799 1.397 .015030 1.810 .167 .093125 1.820 .447 .010020 1.843 .316 .015030	1.859 .818 .005010 1.873 .252 .005015 1.875 .891 .040060 1.879 .523 .005010 1.894 1.535 .050070 1.906 1.590 .015025
1.760 1.286 .005010 1.776 .685 .005010 1.800 .147 .080104 1.810 .180 .015030 1.820 .630 .010020 1.843 .816 .025035	1.859 1.435 .005010 1.873 .386 .090125 1.875 .906 .105125 1.879 1.029 .120135 1.895 .378 .100125 1.907 .365 .060080
1.761 .408 .015030	1.859 1.642 .060080 1.873 .478 .005010 1.875 .936 .105135 1.879 1.130 .005010 1.895 1.159 .005010 1.907 1.157 .120134
1.761 .699 .080105 1.776 1.235 .060080 1.800 .195 .005010 1.810 .824 .005010 1.820 1.450 .020090 1.843 1.188 .020050	1.860 .201 .050075
1.762 .408 .015030	1.860 .620 .105125
1.762 .538 .090110 1.776 1.452 .030050 1.800 .308 .050070 1.810 1.059 .090120 1.820 1.515 .005010 1.843 1.455 .038060	1.860 .631 .010020 1.873 .844 .105135 1.875 1.093 .025040 1.879 1.431 .060070 1.896 .752 .005010 1.909 .802 .080100
1.762 .950 .140160 1.776 1.576 .015025 1.800 .473 .025040 1.810 1.066 .040060 1.821 1.006 .050075 1.843 1.456 .030050	1.860 1.268 .025050 1.873 .882 .015030 1.875 1.113 .080104 1.879 1.463 .015030 1.896 .761 .005010 1.909 1.250 .020040
1.762 1.388 .060080 1.777 .998 .010020 1.800 .475 .005020 1.810 1.130 .100125 1.821 1.585 .020040 1.843 1.706 .020040	1.860 1.345 .030040 1.873 1.140 .100125 1.875 1.135 .050070 1.879 1.501 .015030 1.897 .309 .005010 1.909 1.275 .005010
1.763 .505 .030040 1.777 1.110 .015030 1.800 .490 .090110 1.810 1.464 .005010 1.822 1.270 .040060 1.844 .260 .105125	1.860 1.445 .050075 1.873 1.260 .065080 1.875 1.140 .010042 1.879 1.563 .025040 1.897 1.414 .005010 1.909 1.348 .005010
1.763 .547 .090105 1.778 .199 .020040 1.800 .504 .005010 1.810 1.518 .040062 1.822 1.586 .030050 1.844 .418 .010020	1.861 1.446 .005010 1.873 1.349 .030050 1.875 1.142 .007016 1.879 1.605 .025040 1.898 .305 .005010 1.910 1.159 .040060
1.763 1.126 .135160 1.778 1.682 .030050 1.800 .505 .005020 1.810 1.583 .005060 1.823 .434 .050070 1.844 .816 .005010	1.862 1.510 .012025 1.873 1.381 .090125 1.875 1.152 .005010 1.879 1.687 .010020 1.898 .511 .120135 1.910 1.437 .100125
1.764 .453 .010040 1.779 .999 .050070 1.800 .508 .005020 1.811 .275 .005010 1.823 1.066 .020040 1.844 1.098 .050075	1.863 .650 .005010 1.873 1.386 .100134 1.875 1.156 .032125 1.880 .585 .156187 1.898 .629 .010020 1.910 1.438 .105125
1.764 .504 .090125 1.779 1.057 .005010 1.800 .510 .010021 1.811 .313 .050060 1.823 1.135 .010100 1.844 1.100 .030050	1.863 .819 .005010 1.873 1.437 .100125 1.875 1.171 .100125 1.880 .960 .005010 1.898 .636 .120135 1.910 1.610 .010020
1.764 .514 .105134 1.779 1.380 .010020 1.800 .631 .010020 1.811 .501 .030050 1.823 1.205 .020030 1.844 1.263 .005010	1.863 1.361 .110130 1.873 1.444 .062075 1.875 1.188 .015070 1.880 1.000 .050070 1.898 .754 .005010 1.910 1.640 .105125
1.764 .950 .110130 1.780 .250 .020032 1.800 .754 .005010 1.811 1.013 .100125 1.823 1.250 .035050 1.844 1.624 .005010	1.863 1.375 .090 110 1.873 1.508 .005020 1.875 1.244 .040062 1.880 1.020 .020040 1.898 .910 .050075 1.911 1.631 .005010
1.764 1.268 .060090 1.780 .509 .020040 1.800 .814 .010020 1.811 1.144 .020030 1.824 1.083 .060080 1.845 .140 .040060	1.863 1.501 .105125 1.873 1.533 .005010 1.875 1.250 .020040 1.880 1.131 .025040 1.899 .194 .005010 1.912 1.758 .030050
1.764 1.475 .080104 1.780 .720 .005010 1.800 .880 .010020 1.811 1.203 .050070 1.825 1.140 .005010 1.845 .391 .050070	1.863 1.577 .005010 1.873 1.639 .005010 1.875 1.254 .005010 1.880 1.193 .015030 1.899 .340 .156190 1.912 1.801 .020030
1.765 .297 .042060	1.864 1.482 .005010 1.873 1.671 .005015 1.875 1.258 .030050 1.880 1.272 .040060 1.899 .380 .030050 1.913 1.096 .005010
1.765 .308 .042062 1.780 .953 .120135 1.800 .900 .135156 1.811 1.379 .005010 1.827 1.481 .015025 1.845 1.190 .105125	1.865 .354 .070090 1.873 1.734 .010020 1.875 1.259 .020040 1.880 1.392 .070080 1.899 .437 .156190 1.913 1.337 .015030
1.765 .394 .005010 1.780 1.250 .015030 1.800 .906 .005010 1.811 1.521 .025040 1.828 1.420 .050060 1.845 1.201 .020030	1.865 .770 .050070
1.765 .504 .100125 1.780 1.343 .005010 1.800 .968 .050060 1.811 1.540 .090120 1.829 1.520 .005010 1.845 1.250 .040060	1.865 .888 .050062 1.874 .252 .005010 1.875 1.310 .040062 1.880 1.745 .010020 1.899 .630 .005010 1.913 1.779 .005010
1.765 .630 .008016	1.865 1.023 .100125
1.765 .993 .100125	1000 10
1.00 1.00 1.00	1.865 1.134 .075100 1.874 .282 .015060 1.875 1.370 .060083 1.880 1.814 .015030 1.900 .378 .030075 1.915 1.346 .040060 1.865 1.390 .040060 1.874 .375 .100125 1.875 1.375 .006030 1.881 .786 .010025 1.900 .500 .005010 1.915 1.586 .007015
1.765 1.024 .036060 1.780 1.691 .020030 1.800 1.173 .083120 1.812 .328 .156187 1.83 1.46 .005010 1.845 1.569 .005010 1.765 1.044 .090105 1.781 .936 .080105 1.800 1.251 .010020 1.812 .456 .060080 1.830 1.530 .050070 1.845 1.623 .005010	1.865 1.502 .025040 1.874 .376 .070125 1.875 1.379 .005075 1.881 1.204 .015030 1.900 .502 .005010 1.915 1.675 .010020
1.765 1.350 .030050 1.781 1.157 .020040 1.880 1.268 .020030 1.812 .629 .005010 1.830 1.530 .030060 1.846 .792 .080120	1.867 .315 .100125
1.765 1.361 .050070 1.781 1.517 .015030 1.880 1.380 .005010 1.812 .751 .156187 1.831 1.200 .020030 1.846 1.312 .020030	1.867 .334 .040060
1.765 1.382 .062083 1.782 .396 .005010 1.880 1.385 .005010 1.812 .792 .035048 1.832 .156 .030048 1.846 1.401 .050070	1.867 1.387 .040060
1.765 1.569 .020040 1.782 .645 .005010 1.800 1.430 .040060 1.812 1.062 .075100 1.832 .764 .015030 1.846 1.441 .125156	1.867 1.438 .100125
1.766 1.382 .060080 1.783 .880 .010030 1.801 1.451 .015030 1.812 1.124 .050075 1.832 .765 .050070 1.847 .375 .005010	1.868 .897 .040060 1.874 .625 .015030 1.875 1.502 .105125 1.883 1.585 .040060 1.900 .870 .060080 1.918 1.519 .050070
1.767 1.607 .015030	1.868 1.063 .040060 1.874 .628 .040060 1.875 1.503 .005032 1.884 1.010 .015040 1.900 .881 .099125 1.918 1.632 .005010
1.768 .793 .005010 1.784 1.330 .010020 1.800 1.548 .005010 1.812 1.156 .080104 1.833 1.589 .015030 1.848 .258 .005010	1.868 1.257 .120140 1.874 .631 .105125 1.875 1.505 .040083 1.884 1.494 .050075 1.900 1.000 .050070 1.919 1.263 .040060
1.768 1.232 .005010 1.784 1.616 .060080 1.800 1.562 .005010 1.812 1.188 .050080 1.834 .764 .020032 1.848 .332 .050070	1.869 .380 .040060 1.874 .713 .005012 1.875 1.512 .105125 1.884 1.577 .040050 1.900 1.002 .075105 1.919 1.390 .060080
1.768 1.380 .030050 1.785 .881 .050070 1.800 1.569 .025040 1.812 1.300 .030050 1.834 1.382 .005010 1.848 .485 .020040	1.869 .405 .020040 1.874 .749 .070090 1.875 1.550 .020050 1.884 1.585 .030060 1.900 1.006 .040060 1.919 1.501 .010020
1.768 1.382 .005010 1.785 1.084 .032048 1.801 .502 .005010 1.812 1.312 .010015 1.834 1.384 .005010 1.849 .375 .090105	1.869 .501 .110135
1.769 .406 .080104 1.785 1.264 .105115 1.801 .505 .010020 1.812 1.381 .050075 1.834 1.384 .015030 1.849 1.081 .060070	1.869 1.136 .005010 1.874 .875 .110130 1.875 1.585 .010020 1.885 .376 .060080 1.900 1.256 .080104 1.919 1.754 .015030
1.769 .641 .090120 1.788 .330 .080100 1.801 .751 .005010 1.812 1.402 .015030 1.834 1.574 .015030 1.849 1.333 .083100	1.869 1.277 .050105 1.874 .879 .005020 1.875 1.640 .050070 1.885 .956 .062090 1.900 1.320 .040060 1.920 .859 .080104
1.769 .838 .040060 1.788 .698 .050075 1.801 1.501 .050070 1.812 1.410 .030050 1.835 .255 .020030 1.849 1.731 .010020	1.869 1.283 .090105 1.874 .883 .005010 1.875 1.681 .050070 1.885 .985 .080105 1.900 1.321 .040060 1.920 1.000 .070090
1.769 1.299 .050070 1.788 1.124 .010015 1.801 1.610 .020030 1.812 1.436 .040060 1.835 .430 .005010 1.850 .252 .030050	1.869 1.438 .050062 1.874 .907 .080105 1.875 1.688 .005015 1.885 1.060 .042062 1.900 1.375 .050075 1.920 1.263 .062083
1.769 1.301 .040060 1.788 1.425 .075100 1.801 1.611 .010020 1.812 1.444 .040060 1.835 1.382 .030060 1.850 .366 .050070	1.869 1.567 .025040 1.874 .951 .050070 1.875 1.707 .025040 1.885 1.136 .060080 1.900 1.395 .040060 1.920 1.264 .040060
1.769 1.391 .025040 1.788 1.586 .090105 1.802 .425 .040060 1.812 1.445 .020040 1.835 1.501 .005010 1.850 .440 .005020	1.870 .080 .020040
1.770 .439 .005010 1.788 1.587 .050065 1.802 1.257 .005010 1.812 1.480 .050075 1.835 1.620 .010020 1.850 .502 .010020	1.870 .315 .105125
1.770 .781 .050070 1.788 1.605 .020040 1.803 .712 .070090 1.812 1.498 .010020 1.836 1.646 .005010 1.850 .505 .010020	1.870 .500 .100125
1.770 .789 .040060 1.789 .761 .080125 1.803 .760 .060080 1.812 1.510 .005010 1.837 1.343 .005010 1.850 .510 .005010	1.870 .505 .100125
1.770 .810 .030040 1.790 .620 .015125 1.803 .906 .020032 1.812 1.522 .020040 1.837 1.345 .005015 1.850 .561 .170190	1.870 .642 .005010 1.874 1.257 .070090 1.876 .754 .062083 1.886 1.188 .005010 1.900 1.600 .030050 1.920 1.826 .010020
1.770 .827 .030048 1.790 .820 .015125 1.803 1.362 .040060 1.812 1.523 .030050 1.838 .126 .030050 1.850 .625 .030040	1.870 .661 .105125
1.770 1.065 .050070 1.790 1.063 .005010 1.804 1.270 .010020 1.812 1.524 .015030 1.838 .419 .005010 1.850 .626 .010020	1.870 .696 .060080 1.874 1.331 .005010 1.876 1.007 .015032 1.886 1.397 .005010 1.900 1.628 .030050 1.921 .566 .015030
1.770 1.181 .010020 1.790 1.530 .010020 1.804 1.366 .005010 1.812 1.563 .015030 1.838 1.371 .040060 1.850 .967 .100120	1.870 .698 .050075 1.874 1.443 .050070 1.876 1.129 .015030 1.886 1.398 .005010 1.900 1.650 .025060 1.921 1.500 .010020
*NATAL DOVED!O was is in a cool and a cool the sound this language the standard from the standard warms listed	*M/Ab DOL/CD/C massisian washess you can also see the great this large you want from the tool years listed

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED	BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED
Choose Any	Choose Any
1.921 1.671 .062083 1.935 1.656 .010020 1.949 1.555 .015030 1.967 .394 .080100 1.979 1.775 .020030 1.994 .885 .110135	1.998 1.417 .030050 2.000 .399 .020040 2.000 1.250 .008040 2.002 1.276 .050070 2.030 1.434 .050070 2.049 1.854 .005010
1.922 .317 .015030	1.998 1.501 .050060 2.000 .405 .100135 2.000 1.253 .010156 2.002 1.381 .020030 2.030 1.500 .005010 2.050 .140 .060080
1.922 .565 .150170	1.998 1.506 .020030 2.000 .415 .090105 2.000 1.256 .050070 2.002 1.390 .010020 2.030 1.715 .016030 2.050 .253 .005010
1.922 .972 .080104 1.936 .688 .025040 1.950 .190 .015040 1.967 1.519 .005010 1.980 1.478 .050070 1.994 1.475 .010020 1.922 1.079 .080104 1.936 .780 .060080 1.950 .320 .005010 1.967 1.596 .030050 1.500 .050070 1.994 1.476 .010020	1.998 1.508 .010020 2.000 .437 .050070 2.000 1.262 .083104 2.002 1.501 .050075 2.031 .936 .005010 2.050 .406 .105125 1.998 1.531 .156187 2.000 .438 .156190 2.000 1.263 .050075 2.002 1.530 .025035 2.031 1.755 .005030 2.050 .506 .005010
1.922 1.176 .080104 1.936 .818 .005060 1.950 .490 .005010 1.967 1.654 .005010 1.980 1.507 .005010 1.994 1.476 .010020	1.998 1.531 .156187 2.000 .438 .156190 2.000 1.263 .050075 2.002 1.530 .025035 2.031 1.755 .005030 2.050 .506 .005010 1.998 1.635 .010020 2.000 .451 .090125 2.000 1.264 .090120 2.002 1.560 .105135 2.032 .489 .005010 2.050 .626 .010020
1.922 1.341 .080104	1.998 1.664 .030050
1.922 1.410 .080104 1.936 1.564 .060080 1.950 .810 .005010 1.968 .283 .050070 1.980 1.601 .010020 1.994 1.662 .010020	1.998 1.734 .050070 2.000 .503 .105125 2.000 1.281 .040060 2.002 1.733 .080105 2.033 .877 .025040 2.050 .629 .005010
1.922 1.574 .010020 1.936 1.579 .015042 1.950 .878 .125135 1.968 .315 .040060 1.980 1.778 .005010 1.994 1.789 .005010 1.994 1.789 .005010 1.993 .390 .015030 1.936 1.586 .090100 1.950 1.321 .005010 1.968 .386 .110135 1.980 1.850 .005010 1.994 1.885 .020040	1.998 1.748 .080100 2.000 .504 .010060 2.000 1.282 .005010 2.002 1.758 .005010 2.033 1.525 .010030 2.050 .630 .005020 1.998 1.750 .050070 2.000 .505 .005010 2.000 1.285 .025040 2.002 1.812 .070090 2.033 1.562 .020030 2.050 .651 .080100
1.923 .881 .105135	1.998 1.789 .005010 2.000 .506 .020030 2.000 1.285 .025040 2.002 1.812 .070090 2.033 1.562 .020030 2.030 .031 .080100 1.998 1.789 .005010 2.030 .506 .020030 2.030 1.290 .157187 2.002 1.828 .005010 2.033 1.732 .030050 2.050 .731 .010020
1.923 1.181 .025040 1.936 1.719 .005010 1.950 1.500 .050070 1.968 .625 .005010 1.981 1.519 .040060 1.995 .147 .005010	1.999 .193 .005010 2.000 .507 .100125 2.000 1.291 .005010 2.003 .161 .025040 2.033 1.745 .010020 2.050 1.425 .030050
1.923 1.262 .080104 1.936 1.740 .005010 1.950 1.600 .005050 1.968 .630 .105125 1.981 1.736 .005010 1.995 .395 .005010	1.999 .238 .005015 2.000 .509 .156187 2.000 1.311 .005010 2.003 .752 .075090 2.033 1.790 .020040 2.050 1.660 .075090
1.923 1.533 .050070	1.999 .280 .120135 2.000 .516 .090120 2.000 1.321 .080100 2.003 .843 .005010 2.033 1.845 .040060 2.050 1.708 .040060 1.999 .310 .005010 2.000 .522 .005010 2.000 1.330 .080104 2.003 1.077 .050070 2.034 1.574 .020040 2.052 .626 .025040
1.923 1.720 .005010 1.937 1.015 .075090 1.951 .504 .110130 1.968 .984 .005010 1.983 .515 .030050 1.995 .453 .060080	1.999 .313 .050070 2.000 .530 .060080 2.000 1.332 .005010 2.003 1.126 .070090 2.035 .423 .030050 2.054 1.274 .020050 2.054 1.274 .010020
1.924 .315 .015030 1.937 1.021 .156187 1.951 1.000 .105135 1.968 .995 .005010 1.983 .914 .005010 1.995 .634 .005010	1.999 .318 .090110 2.000 .536 .005010 2.000 1.350 .010020 2.003 1.481 .005015 2.035 .788 .105125 2.054 1.384 .025040
1.924 .691 .050070	1.999 .388 .105135 2.000 .570 .005010 2.000 1.375 .050090 2.003 1.557 .020040 2.035 1.002 .090110 2.054 1.632 .015030 1.999 .406 .160190 2.000 .591 .025040 2.000 1.376 .015030 2.003 1.694 .020030 2.035 1.690 .040060 2.055 1.570 .005010
1.924 .860 .062083 1.937 1.157 .020040 1.951 1.781 .005010 1.968 1.026 .090100 1.984 .229 .005010 1.995 .886 .090120 1.924 .973 .062083 1.937 1.250 .005010 1.952 .812 .040060 1.968 1.028 .005010 1.984 .395 .005190 1.995 1.000 .030050	1.999 .406 .160190 2.000 .591 .025040 2.000 1.376 .015030 2.003 1.694 .020030 2.035 1.690 .040060 2.055 1.570 .005010 1.999 .407 .100125 2.000 .594 .170190 2.000 1.380 .135156 2.003 1.781 .010020 2.035 1.750 .050075 2.056 .528 .048062
1.924 1.068 .025040 1.937 1.260 .040062 1.952 1.055 .020040 1.968 1.150 .005010 1.984 1.329 .040060 1.995 1.128 .120135	1.999 .452 .100125 2.000 .619 .015030 2.000 1.386 .030060 2.004 .756 .040060 2.035 1.834 .025042 2.057 .390 .040060
1.924 1.080 .062083	1.999 .484 .070090 2.000 .620 .040060 2.000 1.389 .015080 2.004 .843 .100125 2.035 1.933 .020030 2.058 .482 .048062
1.924 1.177 .062083	1.999 .515 .156187 2.000 .625 .005010 2.000 1.394 .005010 2.004 1.131 .010020 2.036 1.557 .040062 2.058 .519 .156190
1.924 1.180 .062083	1.999 .562 .100125 2.000 .625 .100125 2.000 1.402 .105125 2.005 .204 .080104 2.037 1.588 .005010 2.058 .630 .105135 1.999 .667 .030040 2.000 .626 .015030 2.000 1.450 .005010 2.005 1.260 .025040 2.037 1.676 .050070 2.058 1.010 .010020
1.924 1.263 .062083 1.937 1.436 .030050 1.954 .377 .050075 1.968 1.501 .015030 1.985 1.590 .010020 1.995 1.818 .015030	1.999 .687 .156187 2.000 .627 .040060 2.000 1.499 .005010 2.005 1.261 .070090 2.038 .989 .080100 2.058 1.196 .050070
1.924 1.265 .005010	1.999 .691 .120140 2.000 .628 .020040 2.000 1.500 .005125 2.005 1.515 .010020 2.038 1.875 .015030 2.058 1.515 .020040
1.924 1.341 .062083 1.937 1.527 .005010 1.954 1.108 .125156 1.968 1.578 .015125 1.985 1.695 .040060 1.996 .381 .005010 1.924 1.410 .062083 1.937 1.528 .050075 1.954 1.627 .005010 1.968 1.625 .015030 1.985 1.860 .010020 1.996 .391 .105125	1.999 .749 .025040 2.000 .632 .005020 2.000 1.502 .010020 2.006 1.280 .105135 2.039 .281 .030050 2.058 1.671 .050060 1.999 .750 .156187 2.000 .636 .005010 2.000 1.511 .030125 2.006 1.775 .005010 2.039 1.527 1.05135 2.059 .402 .030060
1.924 1.410 .062083 1.937 1.528 .050075 1.954 1.627 .005010 1.968 1.625 .015030 1.985 1.860 .010020 1.996 .391 .105125 1.925 .328 .030040 1.937 1.657 .010020 1.955 .421 .050070 1.968 1.692 .040060 1.986 .540 .005010 1.996 .451 .005010	1.999 .750 .156187 2.000 .636 .005010 2.000 1.511 .030125 2.006 1.775 .005010 2.039 1.527 .105135 2.059 .402 .030060 1.999 .753 .020030 2.000 .644 .090105 2.000 1.513 .015030 2.007 .826 .005010 2.039 1.781 .005010 2.039 1.781 .005010 2.059 1.671 .030060
1.925 .564 .010020	1.999 .781 .110130 2.000 .657 .100125 2.000 1.515 .005060 2.007 1.533 .040060 2.040 .990 .015030 2.059 1.750 .050075
1.925 .573 .015030	1.999 .797 .020040 2.000 .670 .090125 2.000 1.536 .005010 2.008 .765 .105125 2.040 1.383 .005010 2.059 1.759 .005010
1.925 .690 .050070 1.937 1.809 .005010 1.955 1.519 .080104 1.969 .881 .015030 1.987 .671 .100120 1.996 .821 .005010 1.925 .754 .060080 1.938 .319 .015030 1.955 1.780 .005010 1.969 1.339 .050060 1.987 .888 .050070 1.996 1.045 .005010	1.999 .813 .135156
1.925 .754 .060080 1.938 .319 .015030 1.955 1.780 .005010 1.969 1.339 .050060 1.987 .888 .050070 1.996 1.045 .005010 1.925 1.253 .005010 1.938 1.313 .020040 1.956 .995 .050090 1.969 1.380 .070090 1.987 1.313 .030040 1.996 1.120 .135156	1.999 .977 .015030
1.925 1.317 .020040	1.999 1.000 .030040 2.000 .750 .105125 2.000 1.635 .005015 2.008 1.676 .070090 2.040 1.787 .050070 2.060 .390 .005010
1.925 1.391 .025040 1.938 1.395 .005010 1.956 1.520 .005010 1.969 1.468 .010020 1.988 .899 .005010 1.996 1.504 .010020	1.999 1.015 .005010 2.000 .752 .010020 2.000 1.649 .005020 2.008 1.801 .010020 2.041 1.500 .040060 2.060 .443 .005010
1.925 1.510 .010020 1.938 1.468 .030050 1.956 1.564 .010015 1.969 1.469 .030070 1.988 1.497 .005010 1.996 1.666 .005010 1.925 1.554 .050075 1.938 1.502 .025040 1.957 1.415 .030050 1.969 1.470 .105125 1.988 1.575 .050075 1.996 1.751 .050070	1.999 1.033 .160190 2.000 .753 .005010 2.000 1.654 .005105 2.009 .239 .040060 2.041 1.773 .020030 2.060 .530 .050075 1.999 1.034 .005010 2.000 .754 .110130 2.000 1.670 .025040 2.009 1.508 .015030 2.042 .331 .040060 2.060 .762 .090110
1.925 1.715 .062083	1.999 1.143 .005010 2.000 .758 .005010 2.000 1.695 .005010 2.009 1.783 .070090 2.042 .331 .040060 2.060 .800 .025036
1.926 1.554 .020040 1.938 1.758 .005010 1.959 1.861 .005010 1.969 1.657 .050070 1.989 .750 .020030 1.997 .310 .080100	1.999 1.289 .025040 2.000 .761 .090110 2.000 1.749 .010060 2.009 1.804 .030050 2.042 1.630 .040060 2.060 .890 .080104
1.926 1.684 .032060 1.938 1.809 .005010 1.960 .754 .120134 1.969 1.692 .030050 1.989 .786 .105135 1.997 .407 .050070	1.999 1.308 .005020 2.000 .779 .005010 2.000 1.755 .080100 2.010 .567 .105125 2.042 1.795 .050075 2.060 1.141 .040060
1.926 1.691 .030042 1.939 .126 .030050 1.960 .870 .150170 1.970 .413 .105125 1.989 .875 .100125 1.997 .500 .105125 1.927 .480 .005010 1.939 1.062 .060070 1.960 1.011 .105120 1.970 .556 .030050 1.989 1.753 .030050 1.997 .561 .005010	1.999 1.475 .005010 2.000 .780 .015030 2.000 1.780 .005010 2.010 .664 .030050 2.042 1.940 .020030 2.060 1.438 .030050 1.999 1.504 .025042 2.000 .781 .005060 2.000 1.780 .015040 2.010 .792 .120140 2.043 1.825 .015030 2.060 1.450 .025042
1.927 .810 .005010 1.939 1.380 .110130 1.960 1.065 .070090 1.970 .594 .010020 1.990 .222 .005010 1.997 .623 .156190	1.999 1.560 .005010 2.000 .786 .005010 2.000 1.810 .005020 2.010 1.084 .005010 2.043 1.023 .015020 2.060 1.511 .005010
1.928 .533 .008020 1.939 1.578 .030050 1.960 1.500 .020040 1.970 .938 .090110 1.990 .245 .005010 1.997 .700 .005010	1.999 1.655 .040060 2.000 .795 .005010 2.000 1.843 .010025 2.010 1.470 .050070 2.044 1.025 .050070 2.060 1.520 .040060
1.928 1.265 .025040	1.999 1.685 .020030 2.000 .797 .020040 2.000 2.064 .015030 2.010 1.699 .050070 2.044 1.826 .010020 2.060 1.629 .015030
1.928 1.585 .005010 1.940 .687 .090105 1.960 1.619 .020040 1.970 1.428 .020040 1.990 .317 .005010 1.997 .766 .010020 1.928 1.664 .070090 1.940 .880 .065080 1.960 1.642 .005010 1.970 1.500 .050070 1.990 .318 .007012 1.997 .913 .005010	1.999 1.692 .030040 2.000 .812 .080105 2.001 .198 .010020 2.010 1.705 .005010 2.045 .344 .040060 2.060 1.672 .020040 2.000 .875 .010020 2.001 .245 .005010 2.012 .886 .005010 2.045 .722 .005030 2.060 1.805 .005010
1.929 1.550 .015025	2.000 .075 .016020 2.001 .245 .003010 2.012 .000 .003010 2.043 .722 .000050 2.061 1.291 .060080
1.930 .375 .032048	2.000 .880 .010020 2.001 .315 .105120 2.013 1.003 .005010 2.045 1.256 .050070 2.061 1.734 .020035
1.930 .451 .015025	2.000 .906 .015060
1.930 1.181 .050070 1.940 1.402 .015030 1.961 1.188 .010020 1.970 1.692 .010020 1.990 .754 .005010 1.997 1.254 .005010 1.997 1.254 .005010 1.997 1.254 .005010 1.997 1.254 .005010 1.997 1.414 .005010	2.000 .977 .025040 2.001 .375 .105125 2.013 1.502 .020040 2.045 1.703 .005010 2.062 .515 .100125 2.013 1.658 .005010 2.045 1.703 .005010 2.062 .515 .100125 2.013 1.658 .005010 2.045 1.730 .010020 2.062 .625 .005032
1.930 1.532 .010020 1.940 1.769 .005010 1.961 1.312 .050083 1.971 1.268 .093125 1.990 1.376 .040060 1.997 1.503 .080105	2.000 1.000 .055070 2.001 .447 .005010 2.015 1.383 .030040 2.045 1.881 .005010 2.062 .630 .050070
1.930 1.600 .025042 1.941 1.627 .065080 1.961 1.584 .090125 1.971 1.541 .005030 1.990 1.379 .093125 1.997 1.584 .005010	2.000 .160 .005015 2.000 1.005 .005010 2.001 .499 .170190 2.016 1.687 .005010 2.046 1.536 .060080 2.062 .766 .040060
1.930 1.650 .005010 1.941 1.629 .075090 1.962 1.735 .008020 1.972 .379 .015030 1.990 1.519 .060080 1.997 1.777 .005010 1.930 1.824 .005030 1.942 .314 .105125 1.963 .281 .005010 1.972 .505 .015030 1.990 1.779 .015030 1.997 1.849 .005010	2.000 .165 .050070 2.000 1.006 .083105 2.001 .501 .015030 2.017 1.614 .020040 2.046 1.611 .070090 2.062 1.371 .070090 2.000 .180 .005010 2.000 1.014 .035060 2.001 .592 .120135 2.018 1.510 .030050 2.046 1.730 .020030 2.062 1.381 .015040
1.930 1.824 .005030 1.942 .314 .105125 1.963 .281 .005010 1.972 .505 .015030 1.990 1.779 .015030 1.997 1.849 .005010 1.930 1.880 .010020 1.942 1.157 .080100 1.963 .481 .005010 1.972 .875 .105125 1.991 .317 .105130 1.998 .251 .105125	2.000 .194 .036050 2.000 1.015 .050075 2.001 .750 .005010 2.019 .502 .030050 2.046 1.750 .040060 2.063 .392 .050070
1.931 .181 .015025	2.000 .205 .060125 2.000 1.020 .015030 2.001 .755 .005010 2.019 .508 .050070 2.047 .551 .060080 2.063 .751 .030050
1.931 .566 .156190	2.000 .210 .105135
1.931 1.595 .005020	2.000 .221 .030050 2.000 1.031 .050070 2.001 .814 .060080 2.020 .280 .100125 2.047 .807 .070090 2.063 1.312 .005010 2.000 .250 .025125 2.000 1.060 .015030 2.001 .942 .105135 2.020 1.551 .080100 2.047 .828 .025040 2.063 1.628 .005010
1.932 1.126 .136 -136 1.944 .800 .156187 1.964 1.740 .005010 1.974 1.170 .005010 1.992 .419 .005010 1.998 .531 .120135	2.000 .253 .005010 2.000 1.062 .100125 2.001 1.020 .015030 2.020 1.031 .000100 2.047 .828 .025040 2.063 1.020 1.0
1.932 1.695 .025040	2.000 .253 .050070 2.000 1.064 .100125 2.001 1.105 .080104 2.021 .604 .005010 2.047 .985 .070080 2.065 1.564 .040070
1.932 1.779 .005010 1.945 .426 .050070 1.964 1.790 .012020 1.974 1.503 .005010 1.992 .999 .020030 1.998 .647 .005010	2.000 .255 .030060 2.000 1.075 .015030 2.001 1.155 .105125 2.021 1.014 .005010 2.047 1.102 .060080 2.065 1.570 .050070
1.933 .750 .130150	2.000 .261 .060080 2.000 1.090 .005010 2.001 1.282 .105125 2.021 1.669 .015030 2.047 1.274 .005010 2.065 1.722 .015030 2.000 .266 .040060 2.000 1.108 .040060 2.001 1.312 .050070 2.022 1.184 .010020 2.047 1.417 .060080 2.065 1.857 .075090
1.933 1.556 .050060	2.000 .270 .080100 2.000 1.125 .015062 2.001 1.397 .015025 2.024 .810 .030050 2.047 1.417 .000080 2.066 1.718 .030050
1.933 1.565 .030050	2.000 .282 .060080 2.000 1.131 .030062 2.001 1.505 .005010 2.025 1.531 .050070 2.047 1.773 .015030 2.068 .756 .050070
1.934 1.002 .030050	2.000 .291 .050075 2.000 1.158 .025042 2.001 1.522 .005010 2.025 1.600 .010020 2.047 1.811 .025040 2.070 1.180 .080104
1.934 1.562 .050062 1.948 1.083 .070090 1.965 1.503 .005010 1.976 1.385 .015030 1.993 .474 .030050 1.998 1.021 .070090 1.985 1.948 1.578 .005010 1.965 1.513 .005010 1.976 1.673 .030050 1.993 .499 .090110 1.998 1.029 .005010	2.000 .298 .005010 2.000 1.165 .020040 2.001 1.583 .025040 2.026 1.874 .040060 2.048 .296 .005010 2.070 1.530 .020030 2.000 .299 .020040 2.000 1.166 .005010 2.001 1.602 .030050 2.027 1.575 .015030 2.048 .626 .005010 2.070 1.780 .090105
1.935 .500 .060083	2.000 .316 .005010 2.000 1.190 .080187 2.002 .101 .005010 2.029 1.222 .005010 2.048 .626 .005010 2.071 1.749 .010020
1.935 .651 .020040 1.948 1.820 .005020 1.965 1.694 .005010 1.977 1.798 .010020 1.993 1.017 .005010 1.998 1.093 .025040	2.000 .317 .015030 2.000 1.199 .005010 2.002 .380 .090134 2.029 1.626 .050070 2.048 1.260 .070090 2.072 1.277 .015030
1.935 1.032 .156187	2.000 .328 .070090 2.000 1.201 .080100 2.002 .437 .050075 2.029 1.755 .005010 2.048 1.378 .030050 2.074 .628 .005010
1.935 1.190 .005010 1.949 .820 .005010 1.966 1.006 .005010 1.978 1.694 .020030 1.993 1.664 .005010 1.998 1.126 .005010 1.998 1.126 .005010 1.935 1.309 .105125 1.949 1.062 .030050 1.966 1.206 .005010 1.978 1.776 .050070 1.993 1.933 .005010 1.998 1.136 .110135	2.000 .344 .060075 2.000 1.208 .050075 2.002 .510 .005010 2.030 .936 .050070 2.048 1.387 .005010 2.074 1.500 .040060 2.000 .376 .050060 2.000 1.217 .005010 2.002 .533 .156187 2.030 1.060 .050070 2.048 1.393 .070090 2.075 1.969 .030050
1.935 1.500 .090100	2.000 .380 .160190 2.000 1.220 .035060 2.002 .665 .105120 2.030 1.184 .050070 2.048 1.385 .070040 2.076 1.629 .050070
1.935 1.555 .060083 1.949 1.526 .005010 1.966 1.722 .020040 1.979 1.660 .005010 1.994 .412 .005010 1.998 1.409 .025040	2.000 .398 .010020 2.000 1.248 .156187 2.002 .855 .005010 2.030 1.310 .050070 2.049 1.209 .005010 2.077 1.155 .080104
*With BOKER'S precision washers, you can choose the exact thickness you want from the tool range listed	*With ROKER'S precision washers, you can choose the exact thickness you want from the tool range listed

									NO	TOO	LING CHA	ARGE	FOR	ANY OF	THE	SIZES	LISTED
O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*
		From To			From To			From To			From To			From To			From To
	1.380 1.639	.080104 .030050	2.113 2.113		.020040 .005010	2.125 2.125		.005010 .015104	2.143 2.143		.005010 .020040	2.165	.670	.105135 .020040	2.198 2.198	1.126	.040060 .005010
	1.719	.030050	2.113		.025040	2.125		.040060	2.143		.010020	2.165 2.165		.020040	2.199	.250	.005010
	1.237	.005010	2.114		.015030	2.125		.005060	2.144	1.831	.050070	2.165		.050070	2.199	.629	.015030
	1.620	.005010	2.115	.986	.080100	2.125		.040060	2.144		.005010	2.165		.005010	2.199	.706	.050070
2.078	1.691	.050060 .060080	2.115 2.116		.020030 .030050	2.125 2.125		.005010 .050070	2.145 2.145	.845 1 730	.005010 .005010	2.165 2.165	1.701	.080100 .030050	2.199 2.200	.840 .360	.005010 .050070
2.080		.070090	2.117		.005010	2.125		.005010	2.145		.005010	2.165		.040050	2.200	.628	.010020
	1.600	.005040	2.117		.005010	2.125		.015030	2.146		.070090	2.165		.005010	2.200	.880	.060070
	1.695	.090105	2.118		.070090	2.125		.010040	2.146		.075090	2.165		.005010	2.200		.005060
2.080	1.719	.030040	2.118 2.118		.105125	2.125 2.125		.040060 .010020	2.146 2.147		.005020 .030050	2.166 2.166	.458	.090105 .050070	2.200 2.200		.105125 .030050
	1.060	.010020	2.118		.070080	2.125		.010020	2.148	.626	.015030	2.166		.060090	2.200		.048075
	1.883	.005010	2.118		.060080	2.125		.090105	2.148	.690	.105135	2.167		.070090	2.200		.048075
	1.942	.020030	2.118		.025040	2.125		.025050	2.148	.878	.105135	2.167		.005010	2.200		.105120
	1.440	.040060	2.119		.005010	2.125 2.125		.025040 .015030	2.148 2.148		.010020 .030040	2.167 2.169	.720	.070090 .020030	2.200		.030050
	1.801	.025040	2.119		.005010	2.125		.015030	2.148		.050070	2.170	.536	.005010	2.200		.060080
2.086		.020035	2.119		.050070	2.125		.050070	2.148		.060075	2.170	.597	.005010	2.200		.020030
	1.536	.030050 .005010	2.119		.020040	2.125		.005010	2.150	.505	.010020	2.170		.015030	2.201	.505 .755	.005020
2.089		.050070	2.120 2.120	.628 .810	.050075 .015030	2.125 2.126	.439	.005020	2.150 2.150	.631 .813	.010020 .100125	2.170 2.171	1.556 .662	.005010 .005010	2.201 2.201	1.520	.040060
2.090		.070090	2.120	.875	.040062	2.126	.631	.005010	2.150		.100125	2.171		.050070	2.201		.010020
2.090		.110135	2.120	.927	.156187	2.126	.755	.050105	2.150		.020040	2.171		.010020	2.201		.005010
	1.801	.010020	2.120		.015030	2.126		.040060	2.150		.015050		1.969	.005010	2.202	.752	.015030
2.093	.223	.100125 .060080	2.120 2.120		.015025 .040060	2.127 2.127	.385 .406	.005010	2.150 2.151	.629	.005010 .005010	2.172 2.172	.476	.005010 .020030	2.202 2.203	.255	.005010 .100125
2.093		.005010	2.120		.030050	2.127	.754	.040060	2.151	.687	.100125	2.172		.005010	2.203		.010020
2.095		.080100	2.120		.030050	2.127	.999	.010020	2.151	.874	.100125	2.173		.005010	2.203	1.582	.050075
2.095		.005010	2.120		.090105	2.127		.080105	2.151		.025040		1.710	.020040	2.203		.030050
2.095 2.095		.105135 .105135	2.120 2.120		.050070 .050075	2.127		.005010	2.152	.630	.005010	2.176	.942	.050070	2.204 2.205		.040060 .050070
2.095		.005010	2.120		.010020	2.127 2.127		.005010 .040060	2.153 2.153	.724 .875	.100134 .100125	2.176 2.177	2.068	.010020 .120140	2.205		.040060
	1.901	.005010	2.120		.050075	2.128		.050075	2.153		.050070	2.177		.010020	2.205		.070090
2.095		.005010	2.120		.080105	2.128		.060080	2.153		.040060	2.177		.040060	2.205		.070090
2.096		.015020	2.120		.025040	2.128		.050070	2.154	.132	.016030	2.178	.362	.050070	2.206	.631	.005010
	1.186	.015030 .110125	2.121 2.122		.010020 .020030	2.128 2.128		.005010	2.154 2.154		.040060 .010020	2.179 2.179	1.208	.005010 .030050	2.206 2.206		.005010
2.098		.025040	2.122		.020030	2.129	.251	.050070	2.155		.050070	2.179	.780	.005010	2.208		.060070
2.098		.015030	2.122	1.877	.005010	2.129	.533	.105135	2.155		.005010	2.180	.781	.015030	2.209		.010020
	1.013	.010020	2.122		.020040	2.129	.735	.020040	2.155		.015030	2.180		.070090	2.210		.050060
2.098	1.635	.010020 .020040	2.123 2.123	.890 .906	.090105 .090125	2.129 2.129	1.282	.050070 .010020	2.156 2.156	.345	.030060	2.180 2.180		.005075 .080100	2.210 2.210	1.215	.090125 .040125
2.099		.010020	2.123		.050123		1.524	.100125	2.156	.877 1.312	.110130	2.180	.499	.015030	2.211	.127	.040123
2.099		.005010	2.123		.105125	2.130	.293	.050070	2.156		.015030	2.181		.025040		1.933	.010020
2.100		.025040	2.123		.105125	2.130	.516	.040060	2.157	.344	.050075	2.182		.050070	2.213		.010020
2.100	.794 1.391	.010020 .020030	2.123 2.124	1.811	.005010	2.130	.532	.134156	2.157	.350	.005010	2.182		.010020	2.215 2.215	.880 .913	.050075 .005040
	1.406	.050070	2.124	.312	.015030	2.130 2.130	.549 860	.040060 .100125	2.157 2.157	.629 1 253	.005010	2.182	1.384	.025035 .100125	2.215	.916	.005040
	1.640	.005015	2.124		.010020	2.130		.015030	2.157		.050075	2.184		.030040	2.215	.933	.040060
	1.656	.105125	2.124	1.580	.040060	2.130		.005010	2.157		.040050	2.185		.030050	2.215		.060090
	1.675	.005010	2.124		.070090	2.130		.040060	2.157		.015030	2.186		.020040	2.215		.075100
	1.700 1.825	.040060 .005010	2.124 2.125	.346	.015030 .050075	2.130 2.130		.005010 .025040	2.157 2.158		.010020 .075090	2.187 2.187	.251 .565	.050070 .005010	2.215 2.215		.005010 .010020
	1.830	.010020	2.125	.380	.100125	2.130		.010020	2.158		.080120	2.187		.060080	2.215		.010020
	1.900	.050075	2.125	.500	.080100	2.131		.015030	2.158		.005010	2.187		.005010			.050060
	1.933	.005010	2.125	.507	.005010	2.131		.080105	2.158		.080120	2.188	.320	.050070	2.216		.025040
	1.971 .564	.010020 .010020	2.125 2.125	.562 .565	.100125 .010020	2.131		.030050 .090110	2.158		.030050	2.188	.446	.050070	2.217 2.218	1.632 .127	.040060 .042060
	1.731	.010020	2.125	.626	.010020	2.132 2.132		.060080	2.159 2.159	.386 1.690	.010020 .025040	2.188 2.188		.100134 .030050	2.218	.328	.042060
	.792	.030040	2.125	.655	.075100	2.132		.020040	2.160		.020030	2.188		.050075	2.219		.010020
	1.781	.010020	2.125	.695	.090105	2.134		.015030	2.160	1.400	.040125	2.189	1.690	.025040	2.220	.190	.005010
	1.250	.060080	2.125	.705	.005010	2.134		.060080	2.160		.020040	2.190		.025040	2.220	.886	.005010
	1.680	.040060 .015030	2.125 2.125	.761 .813	.060090 .110135	2.134 2.134		.005012	2.162 2.162	.668 .756	.020030 .025040	2.190 2.190		.020040 .015030	2.220 2.220		.150164 .010030
	1.814	.050075	2.125	.895	.005010	2.135		.100120	2.162		.020030	2.190		.015030	2.220		.050070
2.107	.314	.105125	2.125	.907	.020030	2.136	1.578	.060080	2.162	1.512	.080105	2.190	1.711	.015030	2.221	1.312	.100125
	1.801	.075090	2.125		.105125	2.137		.005010	2.162		.134160		1.254	.015030	2.222	.826	.030050
	1.726 1.829	.025040 .080100	2.125 2.125		.005010 .010020	2.138 2.138		.005010 .025040	2.162 2.163		.032050 .030050	2.191 2.191		.060080 .015030	2.225 2.225	.812 1.804	.020040 .050070
	1.929	.005010	2.125		.030050	2.139		.080104	2.163		.005010	2.191		.040062	2.226		.080100
2.111	1.436	.010020	2.125	1.123	.060080	2.139	1.454	.005010	2.163		.060080	2.192		.030040	2.226	1.650	.020040
	1.260	.080105	2.125		.050075	2.139		.005010	2.163		.005010	2.193		.025042	2.227		.050070
	1.509	.020040 .050070	2.125		.090105	2.139		.025040	2.164	.987	.050070	2.193		.030040	2.227		.020070 .105135
	1.831	.006016	2.125		.075090 .025050	2.139		.030040 .025040	2.164 2.164		.025040	2.193		.010020 .010020	2.227		.105135
	.876	.015030	2.125		.080105	2.140		.040060		1.908	.050070	2.196		.005010	2.228		.060090
	1.497	.070090	2.125		.015030	2.142	1.545	.030050	2.165	.254	.005010	2.196	1.982	.005010	2.230		.010020
	1.535	.010020	2.125		.030050	2.142		.005010	2.165	.323	.030050	2.197		.040060	2.230		.030120
2.113	1.735	.040060	2.125	1.439	.015030	2.142	2.003	.005010	2.165	.502	.010020	2.198	1.047	.040060	2.230	1.93/	.072090
			*\^/:+ - [OKED!							ss vou want						

									S ME	IAL V	VASHER	SARE	FLAI		IMBLE D	
O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness*	O.D. I.D.	Choose Any Thickness*
2.230	1.939	.005010	2.248	1.655	.005090	2.250	1.263	.060080	2.254	1.511	.020030	2.300	1.678	.005010	2.330 1.20	
2.231		.050060		1.749	.015035	2.250		.050135	2.254		.110130		1.950	.030050	2.331 1.62	
2.232 2.232	1.761	.050070 .010030	2.248	1.753 1.767	.005010 .080100	2.250 2.250		.080104	2.255 2.255		.090120 .030040	2.300	2.000	.040060 .005010	2.334 2.16 2.334 2.16	
2.233		.010020		1.834	.005010	2.250		.005010	2.255		.040062		1.480	.050125	2.335 1.96	
2.234		.015025		1.875	.030050	2.250		.010020	2.255		.005010		1.620	.050070	2.335 1.99	
	1.034 1.499	.005010		1.889	.025040 .050070	2.250 2.250		.040060	2.256		.090125		2.000	.005010	2.338 1.63 2.339 .43	
	1.509	.050070 .005030		1.912 1.990	.005010	2.250		.040060	2.256 2.257		.030040 .005010		2.194 1.905	.005010	2.339 .43 2.339 2.23	
	1.640	.005010		2.000	.010020	2.250		.010020	2.260	.880	.030040		2.000	.005010	2.340 1.75	
	1.950	.040060		2.002	.080100	2.250		.015030	2.260		.005010		1.498	.008016	2.341 2.20	
	1.442 1.562	.005010 .070090	2.249 2.249	.316 .438	.050070 .156187	2.250 2.250		.105134	2.260 2.260		.010030 .015030	2.305	1.681 1.899	.050075 .048062	2.342 1.77 2.342 2.00	
2.238	.640	.130150	2.249	.439	.104120	2.250		.030050	2.265		.005010		1.199	.030050	2.343 1.77	
2.238	1.427	.025040	2.249	.540	.015030	2.250		.050075	2.265		.010020		1.893	.110130	2.344 1.03	
2.239	.875 1.020	.100125 .156188	2.249 2.249	.542 .752	.150170 .005010	2.250 2.250		.060156 .005010	2.266 2.267	.354	.060080 .025040		2.208 1.061	.005015	2.345 .71 2.345 1.37	
	1.260	.050060	2.249	.756	.005010	2.250		.042060	2.268	.316	.015030	2.310	.661	.015030	2.346 1.75	
	1.773	.050070	2.249	.800	.080100	2.250		.050104	2.269	.916	.005010	2.310	.890	.030050	2.346 2.07	
2.240	.782	.156188	2.249		.005010	2.250		.030050	2.269		.050070		1.136	.080105	2.347 1.43	
	1.115 1.200	.020030 .016032	2.249	1.640 1.711	.005020 .040060	2.250 2.250		.015030 .040060	2.270 2.270		.020030 .030050		1.636 1.693	.005010 .005010	2.347 2.11 2.348 .74	
	1.384	.080105			10.10 1000	2.250		.110130	2.270		.036060		1.873	.070090	2.348 .78	
2.240		.105135				2.250		.005020	2.270		.070090		1.997	.010025	2.348 1.38	
2.240	1.631	.015030				2.250		.005020 .020075	2.270	1.980	.015030	2.311	.312 .532	.030050 .050070	2.348 2.00 2.348 2.06	
2.240		.005040				2.250		.025040	2.271		.000000	2.311	.633	.030070	2.349 .50	
2.240		.005010	- /	- /	50	2.250	1.751	.005020	2.271		.005010	2.311	1.067	.005010	2.349 1.49	
2.241	.698 .880	.020040 .030050			\mathbf{U}	2.250		.040060	2.272	.443	.080100		1.688	.025040	2.349 2.00 2.350 .75	
2.241	1.578	.100125	2.250	.125	.050070	2.250		.050075 .005010	2.273	.590 .665	.100125	2.311	1.934	.050070 .030050	2.350 .75 2.350 1.25	
2.241	1.700	.015030	2.250	.136	.015025	2.250		.050070	2.273		.010020	2.312	.250	.050070	2.350 1.26	
2.242	.644	.005010	2.250	.164	.010020	2.250		.090105	2.273		.005020	2.312	.502	.125135	2.350 1.39	
	1.565 1.726	.005010 .080105	2.250 2.250	.216 .257	.060080 .020040	2.250 2.250		.100134 .125135	2.274 2.275	1.544 .881	.010020 .025040	2.312	.563 1.003	.050070 .005010	2.350 1.81 2.350 1.94	
2.242		.050070	2.250	.325	.075104	2.250		.040075	2.275		.005010		1.640	.015030	2.350 2.01	
	1.844	.080105	2.250	.370	.050070	2.250		.050075	2.277		.060080		1.651	.105134	2.351 .27	
2.243 2.243	.762 1.009	.030050 .060080	2.250 2.250	.378 .394	.050075 .030050	2.250 2.250		.040060 .070090	2.277		.005010		1.802	.005010	2.351 .62 2.351 1.65	
	1.551	.010020	2.250	.400	.100125	2.250		.020040	2.278 2.278		.105135 .050070	2.312	2.000	.010020 .040060	2.351 1.63	
2.244	1.857	.015030	2.250	.439	.100125	2.250		.010015	2.278		.040060		1.828	.015030	2.352 1.66	
2.245	.330	.005010	2.250	.478	.030050	2.250		.005010	2.278		.040060		1.992	.005010	2.354 2.10	
2.245 2.245	.633 .886	.005010 .105125	2.250 2.250	.500 .507	.105120	2.250 2.250		.020040 .005010	2.278 2.279	.313	.050070 .030050	2.313	2.185 .745	.005010 .070090	2.355 1.87 2.355 2.21	
	1.005	.060070	2.250	.517	.005110	2.251	.266	.005010	2.279		.020030		1.313	.020060	2.356 .81	
	1.192	.005010	2.250	.519	.170190	2.251	.378	.025040	2.280		.040060		1.758	.025040	2.358 1.09	
2.245 2.245		.090105 .025040	2.250 2.250	.531 .562	.050060 .135156	2.251 2.251	.540 .579	.134156	2.280 2.280		.025040 .050070		1.991 1.906	.005010 .040060	2.358 1.54 2.358 1.60	
2.245		.025042	2.250	.620	.030050	2.251	.812	.005010	2.282		.125135		1.986	.090105	2.358 1.93	
2.245		.080105	2.250	.626	.015030	2.251	.905	.030050	2.282		.050070		2.032	.040060	2.358 2.13	
2.245 2.245		.030050 .010020	2.250 2.250	.629 .639	.040060 .015030	2.251		.120140 .040060	2.283	.334	.060080	2.316	.173	.040060	2.359 1.26 2.360 .43	
2.245		.080125	2.250	.640	.156187	2.251 2.251		.030050	2.283 2.283		.080104 .015030	2.316 2.316	.623 1.757	.020040	2.360 .72	
2.245	1.738	.110130	2.250	.641	.125156	2.251	1.519	.025040	2.284	2.043	.040060		2.058	.005010	2.360 1.00	3 .050070
2.245		.020040	2.250	.642	.105125	2.251		.005010	2.284		.030040		1.941	.025040	2.360 1.13	
2.245 2.246	.378	.010015 .080100	2.250 2.250	.643 .662	.135156 .140160	2.251 2.251		.030040 .105135	2.285 2.285	.768 2.070	.075090 .005010	2.317 2.318	1.969 .771	.070080 .005010	2.360 1.26 2.360 1.37	
2.246	.627	.025040	2.250	.688	.104125	2.251	2.125	.040060	2.287	.770	.080104		1.760	.005010	2.360 1.57	8 .005040
2.246	.631	.156179	2.250	.745	.020040	2.252	.377	.025040	2.290		.105134		1.942	.020040	2.360 1.95	
2.246		.050070 .050070	2.250	.750 .759	.075104	2.252 2.252	.758 .781	.040060 .090120	2.290		.020040		1.580 1.681	.070090 .005010	2.360 2.16 2.361 1.00	
2.246		.025040	2.250	.771	.060080	2.252		.040060	2.291		.030030		1.580	.010020	2.361 1.04	7 .005010
2.246	1.813	.050075	2.250	.781	.100134	2.252	1.032	.005010	2.295	1.857	.030050	2.321	2.053	.005010	2.361 1.18	.080120
2.247 2.247	.538 .762	.010020 .005010	2.250 2.250	.790 .795	.040060 .050070	2.252 2.252		.050070	2.295		.080090	2.322		.015030	2.361 1.77 2.361 2.02	
2.247	.905	.010020	2.250	.874	.060080	2.252		.050075 .005010	2.295 2.295		.020030 .025040		1.770 2.000	.030040 .015030	2.362 .24	
2.247		.010020	2.250	.875	.125156	2.252	1.887	.005010	2.296	.187	.025040	2.323	.311	.015030	2.362 .50	
2.248	.250	.105120	2.250	.877	.070090	2.252		.080105	2.296	.501	.015025		1.693	.040060	2.362 1.00	
2.248 2.248	.620 .656	.015030 .156187	2.250 2.250	.880 .885	.005010 .125135	2.253 2.253	.188 .252	.025040 .025040	2.296 2.297		.025040 .005010		1.948 2.165	.070090 .050070	2.362 1.54 2.362 1.57	
2.248	.883	.005010	2.250	1.004	.080100	2.253	.517	.105125	2.298	.402	.105125		1.813	.005010	2.362 1.87	5 .005010
2.248		.105120	2.250		.005010	2.253	.642	.120135	2.298		.005010		1.253	.025040	2.362 1.89	
2.248 2.248		.050075 .005010	2.250 2.250		.090104 .010090	2.253 2.253	.780 1.011	.005010 .030050	2.299 2.300	1.205 .158	.005010 .040060		1.811 1.851	.020040 .050070	2.362 2.07 2.363 1.01	
2.248		.015030	2.250		.015030	2.253	1.063	.120156	2.300	.196	.005010		2.008	.015060	2.363 1.12	
2.248	1.250	.090105	2.250	1.067	.005010	2.253	1.145	.120134	2.300	.504	.010020	2.325	2.062	.005010	2.363 1.52	6 .120135
2.248		.105125 .005010		1.180 1.255	.105135 .040060	2.253 2.253		.105135 .050070	2.300	.628	.005010		2.148	.005010	2.363 1.87 2.363 1.88	
2.248 2.248		.030050	2.250		.040060	2.253		.050070	2.300 2.300	.631 1.314	.005010 .105135	2.328 2.328	.500 1.199	.120135 .030050	2.363 1.88	
2.248		.005010	2.250		.025042	2.253		.020032	2.300		.050070		2.006	.005010	2.364 .63	
			*With E	BOKER'	S precision v	washers	, you ca	an choose th	e exact	thickne	ss you want	from the	e tool ra	nge listed.		

									NO	TOOI	ING CH	ARGE	FOR	ANY OF	THE	SIZES	LISTED
O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*
2.365	.674	.125156	2.375	1.381	.005010	2.396	2.099	.010060	2.430	2.118	.015025	2.468	.381	.105135	2.497	1.506	.020040
2.365		.005010	2.375		.025050	2.396		.030050	2.430		.005010		1.270	.010020	2.497		.030050
2.365 2.366		.015030 .030050	2.375 2.375		.010020 .100125	2.397		.030050	2.431		.005010	2.469		.010020	2.497 2.497		.005010
2.366		.030050	2.375		.005010	2.398 2.399		.005010	2.431 2.432		.020030 .015025	2.469 2.470	.502	.005010 .040060	2.497	.125	.030050
2.366		.030050	2.375		.030040	2.399		.025040	2.432		.025040	2.470		.005010	2.498	.188	.025040
2.367		.100125	2.375		.050075	2.399		.025040	2.432		.040050	2.472	.814	.125135	2.498	.283	.025040
2.368 2.368		.040060 .015030	2.375 2.375		.015030	2.399 2.399		.005010	2.432		.005015	2.473 2.473		.070090	2.498 2.498	.300 .379	.040060
2.368		.050070	2.375		.042060	2.399		.005010	2.432 2.433		.020030	2.475	.568	.010020 .005010	2.498	.385	.020040
2.368		.005010	2.375	1.925	.050070	2.399	2.133	.050075	2.433		.010020	2.475	.870	.125135	2.498	.752	.005010
2.369	.245	.010020	2.375		.050090	2.399		.020040	2.434		.030050	2.475		.070080	2.498	.755	.005010
2.369 2.369	.816 1.701	.015030	2.375 2.375		.010020 .020040	2.400 2.400	.504 .505	.005010	2.434 2.434		.050075 .030050	2.475 2.477		.005010	2.498 2.498	1.062	.090105 .090120
	1.875	.050070	2.375		.005010	2.400	.511	.105135	2.434		.050070	2.478		.075105	2.498		.060080
2.370	.135	.005010	2.375		.040060	2.400	.753	.010020	2.435		.125156	2.478		.005010	2.498		.015030
2.370 2.370	.246 .510	.005010	2.376 2.376	.314 .631	.060080	2.400 2.400		.015030	2.435 2.435		.050075 .010015	2.478 2.478		.080090	2.498 2.498		.070090 .125135
2.370	.852	.005010	2.376	.755	.030060	2.400		.005010	2.435		.015030	2.478		.020040 .060070	2.498		.110135
2.370	.884	.050060	2.376	1.406	.010020	2.400		.060080	2.436		.090105	2.479		.015030	2.498	1.568	.020050
2.370		.110130	2.376		.040060	2.400		.010020	2.436		.005010	2.480	.750	.060075	2.498		.010020
2.370 2.370		.090105 .005010	2.376 2.376		.030050 .040060	2.400 2.400		.005010	2.437 2.437		.050070 .040060	2.480 2.481		.005010 .105135	2.498 2.498		.005010
2.370		.005020	2.377	.261	.090120	2.400		.005010	2.437		.025042	2.481		.005010	2.498		.060070
2.370		.080105	2.377	.502	.005010	2.400		.050070	2.437		.010020	2.482		.025040	2.498		.005015
2.370 2.370		.005020 .050070	2.377 2.377		.050075	2.400 2.400		.020040	2.437		.020035	2.482		.050070	2.498 2.498		.050070 .015030
2.370		.050070	2.378	.689	.040060	2.400		.015050	2.437 2.437		.005075 .025040	2.483 2.483		.080090 .020030	2.498		.060080
2.371	1.815	.020040	2.378	1.255	.005010	2.400		.050070	2.437		.020040	2.484		.005010	2.498	2.198	.005020
2.371		.015030	2.378		.025035	2.401	.761	.010030	2.438	.350	.005010		1.055	.135156	2.498		.070080
2.372 2.372	.418 .866	.015030 .025060	2.378 2.378		.090125 .090105	2.401 2.401		.015030	2.438 2.438	.390 .691	.042060	2.485 2.485		.105125 .010020	2.499 2.499	.325 1.026	.060080
2.372		.025040	2.378		.090115	2.401		.025040	2.438	.940	.100125	2.487		.134187	2.499		.050070
2.372		.100125	2.378		.040060	2.402	.760	.015030	2.438		.020040	2.487		.030050	2.499		.005010
2.372		.050075	2.378		.040060	2.402	.857	.050070	2.438		.040060	2.487		.005010	2.499		.105135
2.372 2.372		.040080	2.379 2.379	.876 1.505	.060080	2.402 2.402		.070090	2.438 2.438		.015025 .040060	2.488 2.489		.010020 .050070	2.499 2.499		.060070
2.373	.193	.060080	2.379		.010030	2.402		.005030	2.439		.040060	2.489		.015020	2.499	1.498	.025040
2.373	.210	.030050	2.379		.030040	2.403		.005010	2.439		.005015	2.489		.005010	2.499		.005020
2.373 2.373	.630 .642	.015030	2.380	.551 .670	.080105	2.404	.135	.005010 .005010	2.439	.837	.015030 .105135	2.490		.005010 .005010	2.499		.040060
2.373	.755	.005010	2.380	.870	.060090	2.405	.467	.050070	2.440		.050070	2.490		.003010	2.499		.005010
2.373	.876	.050070	2.380		.040060	2.405	.993	.080104	2.440		.005010	2.490	1.996	.105125	2.499		.010020
2.373		.025040	2.380		.030040	2.405		.010025	2.440		.020030	2.490		.005010	2.499	2.061	.015020
2.373 2.373	1.281	.030045	2.380		.010020	2.405 2.407	.658	.040060	2.440		.015030	2.491 2.491		.120156 .080125			
2.373		.050070	2.380		.050060		1.875	.020040	2.440		.090105		1.069	.005010			$\mathbf{\Omega}$
2.373		.015025	2.380		.040060	2.409		.030050	2.440		.040050	2.493	.752	.048062	7	.5)	00
2.373 2.373		.005010 .030050	2.380 2.380		.015030 .090105	2.410 2.411		.007035	2.440	2.290	.005010 .010020	2.493 2.493		.080100 .025035			
2.373		.040060	2.380		.010020	2.414		.005010	2.441		.050070	2.493		.080105	2.500	.100	.015030
2.374	.346	.105125	2.381	.328	.050070	2.414	1.935	.025040	2.446	.315	.105125	2.493		.125156	2.500	.113	.015035
2.374	.560	.040060	2.381		.025040	2.416		.040060	2.447		.005010	2.493		.120135	2.500	.144	.005020
2.374 2.374	.625 .900	.050075 .020040	2.381 2.382		.020040 .105125	2.416 2.417		.030040 .050070	2.447 2.447		.015030 .005010	2.493 2.493		.040060 .040060	2.500 2.500	.149 .188	.080090 .090105
2.374	1.066	.005010	2.383	.881	.060080	2.418		.020040	2.447		.040060	2.494	.616	.030050	2.500	.198	.010020
2.374		.030187	2.383		.005010	2.419		.005010	2.448		.005010	2.494		.005010	2.500	.261	.100135
2.374 2.374		.050070 .040060	2.384 2.385	.318 .254	.090110	2.420 2.420		.020030	2.448 2.448		.070090 .005010	2.495 2.495	.508 .616	.105125 .010020	2.500 2.500	.266 .312	.005010 .125156
2.374		.020040	2.385		.010020	2.420		.020035	2.449		.015035	2.495	.620	.010020	2.500	.370	.050070
2.374		.010020	2.385		.060080	2.420	2.186	.015030	2.450	.504	.010020	2.495	1.150	.005010	2.500	.375	.080104
2.374 2.374		.005050	2.387 2.388		.050075 .060070	2.420		.030050	2.450	.753 1.192	.015030 .040060	2.495		.060080	2.500 2.500	.385 .390	.125156 .090120
2.374	.139	.040062	2.388		.050070	2.421 2.422	1.522	.110130	2.450		.040060	2.495 2.495		.105135 .005010	2.500	.400	.005010
2.375	.165	.030050	2.388	2.048	.040060	2.422	2.040	.100125	2.450		.005030	2.495	1.651	.030050	2.500	.405	.105135
2.375	.280	.025040	2.389		.050060	2.422	2.215	.005010	2.450		.012020	2.495		.005010	2.500	.438	.090110
2.375 2.375	.369 .375	.156187	2.390 2.390		.015030 .050070	2.423 2.423		.005008	2.450 2.451	2.305	.040050 .010020	2.495 2.495		.050075 .090110	2.500 2.500	.440 .454	.080100 .105135
2.375	.390	.160190	2.390		.010050	2.423		.110130	2.451	.814	.010020	2.495		.090110	2.500	.475	.120140
2.375	.503	.015025	2.390	1.850	.020040	2.425	1.520	.040060	2.452	1.630	.060080	2.496	1.123	.010050	2.500	.500	.090135
2.375	.506	.080100	2.391		.005010		1.552	.020030	2.453		.060075	2.496		.080093	2.500	.501 .520	.015035 .105125
2.375 2.375	.640 .687	.040060 .050075	2.391 2.393		.040060 .010050	2.425 2.427		.010020 .010020	2.453 2.453		.075095 .060080	2.496 2.497		.005010 .030050	2.500 2.500	.563	.036060
2.375	.717	.100135		.813	.040060	2.427		.050070	2.453		.134156	2.497		.045060	2.500	.623	.040060
2.375	.945	.006020	2.395		.050070	2.428		.050070		2.050	.120135	2.497		.005010	2.500	.624	.005010
2.375 2.375	.955 1.067	.100120	2.395 2.395		.050070	2.428 2.428		.020030 .042060	2.454 2.454	1.020	.015030 .105125	2.497 2.497		.005010 .040060	2.500 2.500	.628 .630	.010020 .010020
2.375		.120140	2.395		.005010	2.426		.010020	2.454		.050060	2.497		.080105	2.500	.635	.010020
2.375	1.345	.050070	2.396	1.085	.010020	2.430	1.938	.010020	2.462	1.727	.050070	2.497	1.331	.005010	2.500	.641	.120135
2.375	1.371	.100120	2.396	1.783	.005010	2.430	2.000	.020040	2.462	1.940	.020040	2.497	1.498	.040060	2.500	.656	.156187

								DUKER	2 ME	IAL	WASHERS	AIL	LA	AND IC	IVIDE	E DE	BURKED
O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*	O.D.	I.D.	Choose Any Thickness*									
		From To			From To			From To									
2.500	.660	.105135	2.500		.005010	2.541		.025040	2.600	.752	.015030	2.625	.750	.040070	2.655		.050060
2.500 2.500	.688 .751	.105125 .060080	2.500 2.500		.020030 .005010	2.542 2.544		.005010 .005010	2.600	.753 .755	.008015	2.625	.874	.050075	2.657 2.660		.040050 .010020
2.500	.752	.010020	2.501	.253	.010020	2.544		.040060	2.600 2.600	.812	.010020 .005020	2.625 2.625	1.000	.060070 .005010	2.662		.040060
2.500	.756	.100125	2.501	.447	.050070	2.548		.050070	2.600	1.185	.005020	2.625		.005010	2.665		.040060
2.500	.760	.090105	2.501	.627	.010125	2.548		.005010	2.600		.020030	2.625		.030040	2.665		.040060
2.500	.770	.070090	2.501	.688	.160190		1.904	.005010	2.600	1.542	.040060	2.625		.005010	2.666		.040060
2.500	.822	.120135	2.501	1.199	.005010	2.549	2.049	.005010		1.782	.020030	2.625		.080100	2.673	1.003	.020040
2.500	.845	.105125	2.501	1.249	.005070	2.550	.410	.005010	2.600	2.120	.060080	2.625	1.413	.080104	2.674	1.003	.010020
2.500	.871	.015030	2.501		.060090		2.022	.005010	2.600	2.176	.018031	2.625	1.516	.100125	2.675		.040060
2.500	.879	.005010	2.501		.005010	2.550		.005010		2.180	.018030	2.625		.104134	2.676		.040060
2.500	.912	.090110	2.501		.005010	2.550		.010020		2.300	.040060	2.625		.010060	2.677		.030050
2.500	.934	.070090 .040060	2.501 2.501		.080100	2.555		.005010		1.391	.070090	2.625		.025040	2.677		.060080 .020032
2.500 2.500	.951 .984	.070090	2.501		.104134	2.555 2.556		.030048 .040060		2.011 1.378	.040060 .010020	2.625		.005010	2.677 2.684		.020032
2.500	1.000	.005040		2.137	.020040	2.557		.010020			.030050	2.625		.015030 .010020	2.685	.843	.020032
	1.006	.060070	2.502	.314	.005010	2.558		.050075		1.250	.020040	2.625		.050075	2.685	.844	.030050
2.500		.110130	2.502	.401	.015030	2.558		.030050		1.932	.050070	2.625		.050070	2.685		.010030
2.500	1.020	.005010	2.502	.637	.005010	2.558		.060070		2.180	.020031	2.625		.105125	2.687		.090105
2.500	1.034	.036050	2.502	.771	.005010	2.559	.417	.135156	2.604	1.559	.050070	2.625		.005010	2.692	.126	.005010
2.500	1.038	.005010	2.502	1.134	.040060	2.559	1.639	.010020	2.605	1.685	.050070	2.625	2.010	.020030	2.694	2.081	.080093
2.500		.120156	2.502		.020030		1.897	.105120			.050070	2.625		.040060	2.700	.780	.040060
2.500		.010060	2.502		.080100	2.560	.531	.135187		2.015	.010030	2.626	.440	.005010	2.700	2.370	.020040
2.500		.093100		1.796	.070090		1.136	.050070		2.063	.050070	2.626	.500	.104134	2.700		.005010
2.500		.020040		1.800	.070090 .125156		1.220	.040050		2.063	.025040	2.626	.895	.105135	2.713		.020035
2.500		.040060		2.273	.005010	2.560 2.560		.025040 .030050	2.608	2.200 .513	.035050 .090135	2.626 2.626		.100125 .006015		2.010	.020040
2.500		.050070		2.273	.025040	2.560		.005010		2.185	.020040		1.562	.006015	2.730		.020035
2.500		.015025	2.503	.509	.010020		1.898	.090105		2.262	.005010	2.626		.030050		2.060	.040060
2.500	1.275	.105125	2.503	.625	.040060		2.366	.005010		2.303	.030050	2.626		.060090	2.734		.020030
2.500	1.279	.100125	2.503	1.252	.090100	2.561	.760	.020040	2.612	2.300	.050070	2.626	1.745	.060090	2.735	1.985	.030040
	1.280	.005010		1.578	.020030	2.561		.100134	2.613	1.697	.025040	2.626	1.807	.025040	2.735		.050060
2.500		.010020		2.076	.070090		2.091	.042060	2.615	.560	.100125	2.626		.060090		2.253	.010020
2.500		.070090		2.139	.030040	2.561		.010020		2.136	.010020	2.626		.060080		2.403	.020040
2.500		.005010	2.504 2.504	.875	.100120	2.562 2.562	.407	.030050		2.140	.050075		1.849	.005010	2.740	2.200	.010030
	1.346	.005010		1.515	.020040	2.562		.100125		2.354 2.380	.020030 .015030	2.626 2.626		.010020 .060090	2.740		.010020
	1.375	.030040	2.505	.145	.025040	2.562		.010020		1.549	.050075	2.626		.015050		1.728	.030040
		.040060	2.505	.195	.060080	2.562		.020040		1.760	.105125	2.626		.060080	2.743		.030040
2.500	1.394	.040060	2.505	.929	.050070	2.563	.756	.020040	2.618	2.007	.015030	2.627	.394	.010020	2.745	.888	.005010
2.500		.105125		1.413	.120135	2.563		.020040	2.619	1.754	.015030	2.627	.395	.005010	2.745		.020030
2.500		.020050		1.416	.100134	2.563		.015030			.015025	2.627	.500	.135187		1.400	.025040
2.500 2.500	1.511	.050060 .005010	2.505	1.989 .562	.005010 .050125	2.563		.005010	2.620	.412	.010020	2.627		.025040	2.749	1.376 2.497	.040050 .005010
		.050070		2.310	.030123	2.564 2.564		.080105	2.620	.553 1.124	.005010	2.627 2.627		.060075 .060080	2.749	2.497	.005010
2.500	1.529	.070090	2.510	.502	.090105	2.565	.412	.005010	2.620		.040060	2.627		.060075			
2.500	1.561	.050075	2.511	.698	.105125	2.565		.015045		1.322	.005010	2.627		.060075		7	50
2.500	1.606	.025042	2.511	.781	.040060	2.565	2.434	.005020	2.620	2.381	.010020	2.627		.105125	-/		5 ()
	1.624	.040060	2.511	1.980	.030060	2.566	2.320	.040060	2.622	.252	.120134	2.627	1.949	.025040			U
	1.625	.005060	2.515		.015030	2.567	.407	.030050	2.622	.341	.075090	2.627		.010020	0.750	505	010 000
	1.635	.090125		2.218	.080100	2.570		.070090		1.067	.015030	2.627		.040060	2.750	.505	.010020
	1.750 1.755	.040060 .005010	2.516	1.683	.070090 .030050	2.570 2.571	.710	.010020 .080100		1.130 1.637	.050075 .030050	2.628 2.628	.351 .634	.005010	2.750 2.750	.563 .628	.090125 .010030
	1.756	.105125		1.575	.060080	2.574		.010020		1.868	.030030	2.628		.080100 .040060	2.750	.629	.010020
	1.759	.090105		1.918	.040060	2.575	.711	.040060		2.002	.015030	2.628		.005010	2.750	.760	.020040
	1.770	.040060	2.520	.354	.060080	2.578		.030060	2.623		.005010	2.628		.050070	2.750		.020030
2.500	1.777	.015062	2.520	.368	.005010	2.578	2.076	.005010	2.623	2.025	.075090	2.629		.050070	2.750	1.250	.010020
	1.787	.040060	2.520		.020030	2.579		.090120		2.372	.010020	2.629		.005010	2.750		.020035
	1.796	.075156	2.520		.005010	2.580		.120135		2.376	.005010	2.630	.254	.020040	2.750		.040060
	1.814	.010031		2.121	.015030	2.580		.020040	2.624	.124	.030050	2.630	.411	.015030	2.750		.050070
	1.820 1.850	.005010 .015030		2.194 2.255	.050070 .005010		2.196	.015025	2.624	.750	.105125	2.630		.030050	2.750 2.750		.040060 .020030
	1.889	.030050		1.921	.005010	2.580	1.750	.020040 .010020	2.624	.754 1.533	.040060 .080100	2.630 2.630		.090105 .020040	2.750		.020030
	1.890	.020030		2.040	.035062	2.583	.880	.040060		1.533	.110130	2.630		.020040	2.750		.010050
	1.900	.010025	2.524		.005010	2.585	.536	.110130		1.781	.030050	2.630		.005010	2.750		.010015
2.500	1.945	.010060	2.528	2.328	.020030	2.586		.020040	2.624		.015030	2.630		.030060	2.750	2.453	.005010
	1.954	.025040		1.251	.060070	2.588	.391	.060080		1.897	.005010	2.631	2.288	.005010	2.750		.010020
	1.978	.042062		1.875	.060080		2.100	.040060		1.958	.090120	2.635		.005010	2.755		.010020
	1.990	.010031		2.040	.005010	2.590	.345	.105125		1.996	.005010	2.635		.015030	2.755		.035045
2.500	2.001	.005010 .036135		2.192 2.260	.005010		2.253 2.373	.050070 .020030	2.625 2.625	.251	.040050	2.635		.080100 .005010	2.755 2.755		.025035
2.500		.040060		2.200	.020030		2.376	.020030	2.625	.347	.080104 .100125	2.636 2.640		.005010	2.756		.010020
	2.030	.020030		2.331	.015025	2.594		.020030	2.625	.362	.005010	2.640		.030050	2.756		.040050
	2.124	.020040		2.365	.005010	2.595		.020080	2.625	.376	.050075	2.645		.010020	2.756		.040050
2.500	2.125	.040050	2.534	2.087	.050060	2.598		.080100	2.625	.383	.100125	2.645	2.175	.030040	2.760	1.850	.020040
	2.146	.005010	2.539	.301	.040060		2.392	.005010	2.625	.385	.048062	2.647		.020040	2.780		.025040
	2.175	.005060		1.528	.030050		1.378	.010020	2.625	.469	.105135	2.650	.628	.010020	2.780		.020040
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NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

Color Colo	Choose Any
2.786 2.436 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Thickness*
2.786 2.480 006 - 078	.020040
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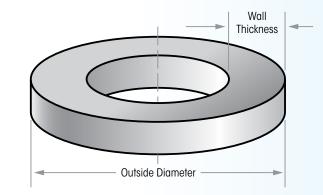


NEW TOOLS CONTINUALLY ADDED!

For the most up-to-date list of washer sizes, please visit **bokers.com**

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.



MINIMUM WALL THICKNESS

but not less than above chart

WALL THICKNESS TABLE

O.D. RANGE

Pre-tempered high carbon steel*

Inches	Millimeters	Inches	Millimeters			
.1875375	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			
Fo	or:	Minimum Wall:				
Low carbon steel 1050 high carbo Copper alloys—c Aluminum alloys	n steel—annealed all tempers	Two times material thickness but not less than above chart				
Stainless steel ar	nnealed blue steel*	Three times material thickness				

^{*}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"

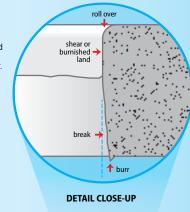
Boker's maximum burr on metallic washers and stampings

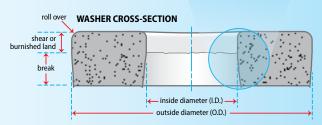
Feature Size: This is to be measured only in cut portion of the hole and cut portion of the outside diameter.

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.





BOKER'S ER

The Designer's Guide to Precision Metal Stampings

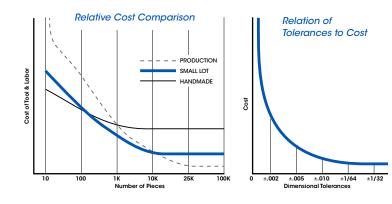
Outside Radius Edge Offset Form/Emboss Outside Bend Radius Wipe / V Form Radius Corner Radius Form/Emboss Outside Bend Radius

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.



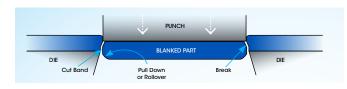
What are the advantages of short-run custom stampings?

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.



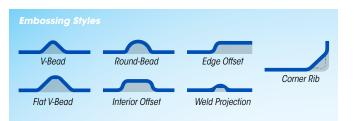
Metal Piercing

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.



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 burn

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

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

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 flatbottomed 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

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

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

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 aloss when observed at any angle; a perfectly diffused reflectina 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

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

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

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

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

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

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

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 auantity 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 reshapina 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 existina 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,

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

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

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

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 **DENKER'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

Digital Servo Feeders

- (2) High Speed Minster Progressive Die Presses (60 to 150 tons)
- Electric Coil Reels (6,000 lb. capacity)
- 48" Press Brake
- Optical Part Detection Systems Press Control Automation
- Tonnage Monitors
- (2) Material Handling Conveyors





Heat Treating Department

• Electric High Temperature Hardening Furnaces

Stanat Model Rolling Mill

Electric Tempering Furnaces (all furnaces calibrated)

Raw Stock & Shear Department

- (3) 10' Shears (.20" thick maximum)
- IRM Rolling Mill
- Cooper Weymouth Roller Levelers

Wilder Coil Slitter

- Coil Set Straightener
- 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



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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