

STAMPINGS & WASHERS

2023 CATALOG

METRIC EDITION



BOKER'S, INC.

STAMPING & WASHER SPECIALISTS SINCE 1919

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

AS9100:2016
ISO9001:2015
CERTIFIED

A NOTE FROM BOKER'S

We are pleased to bring you the Boker's, Inc. 2023 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.

As you are likely aware, our lead times in 2021 and well into 2022 were longer than they ever have been. Globally, manufacturers faced the same challenge of re-stocking the world after the pandemic shutdowns left retailers and distribution centers empty and OEM's work-in-process nearly diminished. The overwhelming increase of "super-sized" orders led us to a point where our capacity was booked out further than ever before. We have now dug out of our backlog and have made major strides in meeting or exceeding customer on-time delivery expectations. Boker's understands that long lead times have an adverse effect on our customers and their ability to plan and execute; we are excited to announce that Boker's team continues to work hard and has significantly reduced our lead times to provide you, our customer, with world-class service.

As we continue to drive our lead times back down to the quick delivery we are known for, please reach out to understand the lead time required to manufacture your order. Our lead times are back, and we are stronger than ever.

As always, it is our pleasure to be at your service.

 Amy Kersey
CEO/President



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 **BOKER'S, INC.**

1860

Vitus Boker started using short run stamping methods in Denmark

1901

Vitus immigrated to the United States

1919

V.A. Boker & Sons was founded in Minneapolis

1923

Check Protector patented

1926

Second location on Erie Street

1933

Third location at Bohemian Flats



100+ YEARS OF PRECISION MANUFACTURING

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

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

A Part of Every Industry

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

Customers trust Boker's because of their quality, on-time delivery and service. 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.

Continuing the Legacy

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

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

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 at least the next 100 years.

— Chuck Kersey, Assistant Sales Manager

4th location on Snelling Avenue

Held the first meeting of the board of directors

William Tedlund becomes sole owner

66,500 square foot expansion totaling over 165,000 square feet

1939

1942

1947

1968

1986

2008

2018

2019

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

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

Expansion completed totaling over 90,000 square feet

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.

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.



Boker's Environmental Compliance

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

Certified Quality Management System

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

Quality Assurance and Certification

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



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!
Scan or visit
bokersbulletin.com

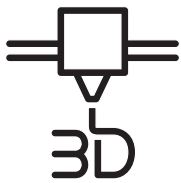




Prototype Before Production

No more guess work or uncertainty. Only precision.

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



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.

100◆

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.



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 pierced 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 specifications before being released for shipping.





Precision Fabrication

When you've been successful for 100+ years, quality isn't just a promise, it's our 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 out.

Washers, Spacers & Shims

Metric Sizes No Problem! 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 for a fast quote or to search stock metric sizes.



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)

SPACE AIR LAND SEA

Serving a World of Industries

AEROSPACE, AVIATION & DEFENSE • MEDICAL • ELECTRONIC MEASUREMENT & TESTING • TELECOMMUNICATIONS • RENEWABLE ENERGY • OIL & GAS HYDRAULICS • INDUSTRIAL EQUIPMENT • AGRICULTURE • APPLIANCES HVAC • RECREATIONAL VEHICLES • AUTOMOTIVE • INFORMATION TECHNOLOGY PHOTOGRAPHIC & IMAGING EQUIPMENT • OFFICE MACHINES • CUTLERY & HAND TOOLS • CABINET & FURNITURE • CONSUMER PRODUCTS AND MORE

With a commitment to continuous improvement, Boker's recently surveyed a subset of our customer base in our pursuit of perfection. Our customer service team, comprised of key personnel, reviewed every response and identified action assignments focused on providing the highest quality customer service. Thank you to everyone who participated. We are listening.

Here's what our customers are saying:

“

BOKER'S STAFF HAVE ALWAYS **JUMPED THROUGH HOOPS TO ACCOMMODATE US** WHENEVER WE WERE IN DIRE STRAITS. *I ENJOY WORKING WITH THEIR STAFF EVERY TIME WE NEED TO PLACE AN ORDER.*

- Customer in Defense Industry

BOKER'S HAS BEEN VERY GOOD IN THESE HARD TIMES. DELIVERY HAS BEEN MUCH BETTER. *CUSTOMER SERVICE IS EXCELLENT.*

- Customer in Pressure Gauge Manufacturing Industry

HONESTLY, BOKER'S PROVIDES EXACTLY WHAT WE NEED IN CUSTOM STAMPED WASHERS AND SPACERS.

- Customer in Firearm Industry

WE'VE BEEN A **SATISFIED BOKER'S CUSTOMER FOR OVER 20 YEARS.** THE QUALITY OF THE PRODUCTS, CUSTOMER SERVICE, AND **LEAD TIMES HAVE ALWAYS BEEN EXCELLENT.**

- Customer in Prosthetics & Orthotics Industry

GIVEN ALL THE **GENERAL SUPPLY CHAIN ISSUES**, BOKER'S HAS **DONE GREAT AND EXCEEDED EXPECTATIONS.**

- Customer in Photography & Imaging Industry

”

Customer Satisfaction is Our #1 Goal

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

Boker's Non-Standard Washers and Spacers

This is our list of stock tools from which our washers are made to your order in any quantity without a tooling charge. We do NOT carry any washers in stock. You can choose an exact thickness for washers within the tool range indicated. For the most up-to-date list of sizes, please visit bokers.com

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
2.032	1.245	.127 - .254	2.718	1.397	.127 - .305	3.124	2.032	.254 - .508	3.454	1.626	.381 - .762	3.810	1.118	.127 - .254	3.962	2.540	.406 - .635
2.057	.8382	.127 - .254	2.743	1.397	.127 - .508	3.124	2.083	.254 - .508	3.454	1.854	.127 - .254	3.810	1.168	.127 - .254	3.962	2.616	.381 - .762
2.134	1.092	.127 - .254	2.769	1.194	.305 - .508	3.150	.7112	.127 - .254	3.454	2.286	.127 - .254	3.810	1.422	.381 - .508	3.962	2.692	.127 - .254
2.134	1.219	.305 - .508	2.769	1.473	.254 - .508	3.150	1.600	.127 - .254	3.454	2.413	.305 - .508	3.810	1.448	.254 - .508	3.962	2.921	.127 - .254
2.134	1.651	.127 - .254	2.769	1.702	.203 - .457	3.150	1.651	.381 - .635	3.480	1.245	.127 - .254	3.810	1.499	.127 - .254	3.988	1.092	.508 - .762
2.159	1.016	.127 - .254	2.794	.8128	.254 - .381	3.150	1.676	.381 - .762	3.480	1.676	.305 - .635	3.810	1.651	.127 - .254	3.988	1.448	.127 - .635
2.159	1.092	.127 - .254	2.794	1.372	.127 - .254	3.150	1.854	.127 - .254	3.480	1.956	.508 - .762	3.810	1.676	.152 - .254	3.988	1.549	.254 - .508
2.159	1.219	.254 - .381	2.794	1.397	.254 - .508	3.175	1.245	.127 - .254	3.480	2.311	.203 - .406	3.810	1.854	.127 - .254	3.988	1.626	.127 - .254
2.184	.6858	.254 - .508	2.794	1.854	.127 - .254	3.175	1.321	.127 - .305	3.505	1.245	.254 - .508	3.810	1.956	.254 - .508	3.988	1.676	.254 - .508
2.184	.9144	.127 - .203	2.819	1.549	.254 - .508	3.175	1.372	.381 - .635	3.505	1.778	.127 - .254	3.810	2.108	.254 - .508	3.988	2.184	.127 - .254
2.184	1.143	.127 - .254	2.819	1.702	.381 - .635	3.175	1.397	.508 - .762	3.505	1.854	.127 - .254	3.810	2.210	.254 - .381	3.988	2.235	.127 - .254
2.184	1.219	.254 - .381	2.819	2.083	.127 - .254	3.175	1.524	.381 - .762	3.505	1.905	.381 - .762	3.810	2.235	.127 - .254	3.988	2.311	.254 - .508
2.210	.6350	.127 - .254	2.845	.9906	.127 - .254	3.175	1.575	.254 - .508	3.505	2.235	.127 - .254	3.810	2.261	.381 - .635	3.988	2.337	.254 - .508
2.210	1.092	.381 - .762	2.845	1.118	.305 - .508	3.175	1.600	.127 - .508	3.505	2.591	.127 - .254	3.810	2.286	.381 - .762	3.988	2.388	.508 - .762
2.235	.8128	.127 - .254	2.845	1.499	.381 - .635	3.175	1.626	.254 - .508	3.531	1.194	.127 - .254	3.810	2.311	.127 - .305	3.988	2.438	.127 - .762
2.235	1.676	.127 - .381	2.845	1.549	.127 - .254	3.175	1.651	.127 - .762	3.531	1.346	.127 - .305	3.810	2.515	.508 - .635	3.988	3.048	.127 - .254
2.261	1.118	.127 - .254	2.845	1.575	.381 - .635	3.175	1.676	.127 - .762	3.531	1.422	.254 - .508	3.810	2.946	.406 - .508	3.988	3.226	.127 - .254
2.261	1.651	.127 - .381	2.845	1.702	.381 - .635	3.175	1.702	.381 - .635	3.531	1.448	.127 - .305	3.835	1.422	.381 - .635	4.013	1.016	.254 - .508
2.286	.7620	.254 - .381	2.845	1.854	.127 - .254	3.175	1.727	.254 - .813	3.531	1.600	.127 - .254	3.835	1.753	.127 - .254	4.013	1.168	.305 - .635
2.286	1.270	.254 - .381	2.870	1.321	.127 - .254	3.175	1.753	.127 - .254	3.531	1.676	.381 - .762	3.835	1.854	.127 - .254	4.013	1.270	.508 - .889
2.286	1.372	.254 - .381	2.870	1.880	.127 - .254	3.175	1.829	.305 - .508	3.531	2.413	.254 - .508	3.835	1.956	.381 - .508	4.013	1.448	.254 - .508
2.286	1.626	.203 - .305	2.896	1.016	.762 - 1.02	3.175	1.930	.508 - .635	3.531	2.464	.127 - .254	3.835	1.981	.254 - .508	4.013	1.524	.508 - .762
2.311	.7874	.127 - .254	2.896	1.118	.127 - .254	3.175	1.981	.127 - .254	3.556	1.575	.127 - .254	3.835	2.108	.635 - .762	4.013	2.261	.508 - .813
2.311	1.651	.127 - .254	2.896	1.676	.127 - .254	3.200	1.067	.203 - .813	3.556	1.854	.127 - .254	3.861	2.388	.508 - .635	4.013	2.388	.635 - .889
2.337	.6858	.254 - .381	2.896	1.854	.127 - .254	3.200	1.270	.127 - .305	3.556	2.083	.127 - .813	3.861	2.413	.381 - .635	4.013	2.413	.127 - .254
2.337	1.041	.203 - .305	2.921	.7874	.254 - .508	3.200	1.321	.203 - .635	3.556	2.286	.127 - .254	3.861	2.489	.127 - .254	4.013	2.489	.127 - .381
2.337	1.092	.254 - .508	2.921	.8382	.127 - .254	3.200	1.448	.635 - .813	3.556	2.413	.127 - .254	3.861	2.540	.127 - .254	4.013	2.540	.381 - .508
2.337	1.118	.127 - .254	2.921	1.549	.127 - .254	3.200	1.575	.203 - 1.02	3.556	2.769	.254 - .381	3.886	1.422	.254 - .508	4.013	2.565	.127 - .254
2.337	1.194	.127 - .254	2.921	2.007	.127 - .381	3.200	1.626	.127 - .254	3.581	1.549	.127 - .254	3.886	1.549	.127 - .254	4.013	3.023	.381 - .635
2.337	1.524	.127 - .254	2.946	.9398	.127 - .254	3.200	1.651	.127 - .381	3.581	1.651	.381 - .635	3.886	1.575	.127 - .254	4.039	1.956	.127 - .254
2.337	1.727	.127 - .254	2.946	1.397	.254 - .508	3.200	1.727	.127 - .254	3.581	1.702	.254 - .406	3.886	1.854	.381 - .635	4.039	2.057	.127 - .254
2.362	.9144	.254 - .508	2.946	1.676	.381 - .635	3.200	1.854	.127 - .254	3.581	1.930	.127 - .254	3.886	1.956	.635 - .889	4.039	2.413	.127 - .254
2.362	1.245	.254 - .508	2.946	1.702	.127 - .254	3.200	2.032	.127 - .254	3.581	2.007	.381 - .635	3.886	1.981	.127 - .381	4.039	2.540	.254 - .635
2.362	1.295	.127 - .508	2.946	1.854	.127 - .254	3.200	2.413	.127 - .381	3.581	2.337	.381 - .635	3.886	2.057	.508 - .889	4.039	2.794	.127 - .305
2.388	1.575	.254 - .381	2.972	.8128	.127 - .254	3.200	2.438	.127 - .254	3.607	.9652	.381 - .762	3.886	2.413	.508 - .762	4.064	1.524	.127 - .381
2.413	.6096	.254 - .381	2.972	.8890	.127 - .305	3.226	.9906	.508 - .813	3.607	1.854	.127 - .254	3.886	2.540	.254 - .635	4.064	2.235	.254 - .508
2.413	1.092	.127 - .254	2.972	1.422	.254 - .381	3.226	1.067	.254 - .508	3.607	1.930	.127 - .254	3.912	1.854	.508 - 1.02	4.064	2.286	.127 - .254
2.413	1.245	.127 - .254	2.997	1.473	.254 - .508	3.226	1.194	.381 - .762	3.607	1.981	.127 - .254	3.912	2.413	.127 - .254	4.064	2.413	.635 - 1.02
2.413	1.321	.127 - .254	2.997	1.854	.127 - .508	3.226	1.651	.305 - .508	3.607	2.108	.127 - .254	3.912	2.565	.127 - .254	4.089	1.600	.381 - .762
2.413	1.422	.381 - .508	2.997	1.905	.127 - .381	3.226	1.702	.254 - .508	3.607	2.261	.508 - .762	3.912	2.794	.508 - .762	4.089	1.753	.254 - .508
2.464	1.524	.127 - .254	2.997	2.032	.127 - .305	3.226	1.956	.381 - .635	3.607	2.489	.254 - .381	3.912	2.921	.127 - .254	4.089	1.930	.381 - .762
2.464	1.880	.127 - .254	2.997	2.311	.127 - .254	3.226	2.108	.381 - .762	3.632	1.321	.127 - .254	3.937	1.626	.381 - .762	4.115	1.549	.127 - .508
2.489	1.016	.127 - .254	3.048	.9906	.254 - .508	3.226	2.362	.254 - .381	3.632	2.108	.381 - .635	3.937	1.676	.127 - .254	4.115	1.956	.305 - .508
2.489	1.626	.254 - .508	3.048	1.016	.254 - .508	3.226	2.388	.203 - .381	3.632	2.413	.254 - .508	3.937	1.753	.127 - .381	4.115	2.184	.508 - .813
2.489	1.651	.127 - .254	3.048	1.041	.127 - .254	3.251	1.422	.381 - .635	3.632	2.464	.127 - .381	3.937	1.829	.508 - 1.02	4.115	2.337	.381 - .762
2.515	1.270	.127 - .254	3.048	1.270	.127 - .254	3.251	1.854	.127 - .254	3.658	1.651	.127 - .254	3.937	1.930	.254 - .508	4.115	2.464	.254 - .508
2.540	.6604	.254 - .381	3.048	1.575	.254 - .508	3.251	1.930	.381 - .762	3.658	1.854	.127 - .254	3.937	1.981	.203 - .305	4.115	2.845	.127 - .254
2.540	.8890	.127 - .254	3.048	1.600	.381 - .762	3.251	1.981	.127 - .254	3.658	1.930	.254 - .508	3.937	2.057	.127 - .254	4.140	2.083	.381 - .762
2.540	1.016	.127 - .254	3.048	1.651	.127 - .254	3.251	2.261	.127 - .254	3.683	1.422	.127 - .254	3.937	2.134	.127 - .254	4.140	2.794	.381 - .508
2.540	1.397	.508 - .762	3.048	1.778	.381 - .762	3.251	2.616	.127 - .254	3.683	1.727	.127 - .305	3.937	2.388	.381 - .635	4.140	3.251	.127 - .254
2.540	1.575	.127 - .254	3.048	1.854	.127 - .254	3.277	2.108	.254 - .508	3.683	2.286	.127 - .254	3.937	2.819	.127 - .254	4.140	3.277	.127 - .254
2.540	1.651	.127 - .508	3.048	2.032	.254 - .406	3.302	1.549	.254 - .508	3.683	2.464	.127 - .254	3.937	3.150	.254 - .508	4.166	2.057	.254 - .508
2.540	1.702	.381 - .635	3.073	1.092	.127 - .305	3.302	1.600	.508 - .762	3.683	2.946	.127 - .254	3.962	1.118	.381 - .889	4.166	2.210	.127 - .254
2.565	.9144	.381 - .635	3.073	1.194	.127 - .254	3.302	1.854	.127 - .254	3.708	1.168	.254 - .508	3.962	1.245	.127 - .381	4.166	2.540	.127 - .305
2.565	1.143	.127 - .762	3.073	1.372	.254 - .635	3.327	1.499	.127 - .305	3.708	1.651	.127 - .254	3.962	1.321	.254 - .813	4.166	2.896	.254 - .508
2.565	1.245	.381 - .508	3.073	1.575	.254 - .508	3.353	1.854	.127 - .254	3.708	1.854	.127 - .254	3.962	1.346	.127 - .305	4.191	1.016	.127 - .254
2.565	1.270	.127 - .254	3.073	1.829	.127 - .254	3.378	1.321	.127 - .254	3.708	2.718	.127 - .254	3.962	1.575	.508 - 1.02	4.191	1.143	.381 - .762
2.591	1.016	.508 - .762	3.073	2.337	.127 - .254	3.378	2.235	.127 - .254	3.734	1.702	.508 - .813	3.962	1.626	.406 - .635	4.191	1.321	.254 - .762
2.591	1.346	.508 - .762	3.099	1.245	.254 - .508	3.378	2.438	.254 - .508	3.734	2.819	.254 - .635	3.962	1.651	.508 - 1.02	4.191	1.549	.635 - 1.02
2.642	1.118	.508 - .762	3.099	1.422	.127 - .254	3.404	1.041	.127 - .254	3.759	1.727	.254 - .508	3.962					

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
4.216	1.854	.254 - .508	4.496	3.023	.762 - 1.07	4.699	3.404	.127 - .254	4.775	3.251	.127 - .914	5.004	1.575	.762 - 1.27	5.156	1.422	.127 - .254
4.216	1.905	.127 - .254	4.496	3.099	.381 - .508	4.699	3.454	.254 - .635	4.775	3.277	.508 - .762	5.004	1.956	.127 - .254	5.156	1.600	.127 - .813
4.216	2.057	.127 - .254	4.496	3.175	.127 - .254	4.699	3.683	.127 - .254	4.775	3.327	.508 - .762	5.004	2.311	.508 - 1.02	5.156	1.829	.381 - 1.02
4.216	2.743	.254 - .508	4.496	3.226	.127 - .254	4.724	.7112	.152 - .254	4.775	4.166	.254 - .508	5.004	2.515	.127 - .254	5.156	2.311	.254 - 1.02
4.216	3.175	.127 - .254	4.521	1.270	.762 - 1.02	4.724	.8890	.127 - .254	4.801	1.092	.635 - 1.02	5.004	2.616	.127 - .254	5.156	2.337	.762 - 1.02
4.216	3.277	.127 - .254	4.521	1.956	.381 - .762	4.724	.9652	.127 - .254	4.801	1.346	.762 - 1.02	5.004	2.946	.127 - .254	5.156	2.362	1.02 - 1.52
4.242	.7874	.127 - .254	4.521	2.870	.127 - .381	4.724	1.168	.254 - .508	4.801	1.626	.254 - 1.27	5.004	3.073	.127 - .254	5.156	2.718	.127 - .254
4.242	1.651	.254 - .508	4.521	3.023	.762 - 1.07	4.724	1.626	.203 - .508	4.801	2.388	1.02 - 1.52	5.004	3.099	.508 - 1.02	5.156	2.896	.381 - 1.02
4.242	1.981	.127 - .254	4.521	3.124	.127 - .254	4.724	1.905	.381 - .635	4.801	2.413	.635 - 1.14	5.004	3.277	.127 - .254	5.156	3.124	.127 - .254
4.242	2.159	.254 - .508	4.521	3.480	.254 - .508	4.724	2.007	.381 - 1.02	4.801	2.591	.127 - .254	5.004	3.531	.762 - 1.02	5.156	3.150	.254 - .508
4.242	2.743	.254 - .508	4.521	3.531	.127 - .254	4.724	2.184	.127 - .254	4.801	2.743	.254 - .508	5.004	3.734	.381 - .635	5.156	3.251	.381 - .635
4.267	2.083	.127 - .254	4.547	.9906	.127 - .254	4.724	2.235	.381 - .635	4.801	2.769	.127 - .254	5.029	2.235	.254 - .508	5.156	3.480	.508 - 1.02
4.267	2.438	.635 - 1.02	4.547	2.565	.254 - .508	4.724	2.362	.381 - .762	4.801	3.023	.127 - .254	5.029	2.337	.254 - .762	5.156	4.318	.127 - .508
4.267	3.302	.127 - .254	4.547	2.616	.127 - .254	4.724	2.388	.635 - .889	4.801	3.454	.254 - .508	5.029	2.413	.381 - .762	5.156	4.445	.127 - .254
4.293	2.921	.381 - .635	4.547	2.870	.127 - .254	4.724	2.438	.127 - .254	4.826	.7620	.127 - .254	5.029	2.464	.127 - .254	5.156	4.470	.127 - .254
4.318	.8636	.127 - .254	4.547	2.921	.635 - .762	4.724	2.489	.305 - .635	4.826	1.219	.127 - .254	5.029	2.591	.508 - .762	5.182	1.118	.127 - .254
4.318	1.448	.127 - .254	4.572	2.057	.508 - .889	4.724	2.515	.127 - .254	4.826	2.311	.127 - .254	5.029	2.896	.127 - .254	5.182	1.905	.635 - 1.02
4.318	1.626	.381 - .813	4.572	2.261	.127 - .813	4.724	2.616	.127 - .254	4.826	2.413	1.02 - 1.52	5.029	2.946	.127 - .254	5.182	2.540	.127 - .254
4.318	1.702	.254 - .508	4.572	2.286	.254 - .508	4.724	2.743	.254 - .508	4.826	2.870	.254 - .508	5.029	3.200	.508 - .762	5.182	2.667	.762 - 1.02
4.318	1.778	.508 - .762	4.572	2.388	.254 - .635	4.724	2.997	.762 - 1.02	4.826	3.251	.254 - .381	5.029	3.327	.508 - 1.02	5.182	3.175	.635 - 1.02
4.318	2.261	.381 - .635	4.572	2.438	.127 - .254	4.724	3.023	.127 - .254	4.826	3.302	.381 - .762	5.029	3.734	.127 - .254	5.182	3.632	.508 - .762
4.318	2.464	.127 - .254	4.572	2.540	.635 - 1.02	4.724	3.150	.508 - .762	4.826	3.353	.127 - .254	5.055	1.270	.127 - .254	5.182	3.988	.254 - .508
4.318	2.769	.635 - .889	4.572	2.896	.508 - 1.02	4.724	3.175	.254 - .762	4.851	.9652	.127 - .254	5.055	2.235	.762 - 1.27	5.207	.9652	.381 - .635
4.318	3.073	.127 - .254	4.572	2.921	.127 - .254	4.724	3.200	.127 - .254	4.851	.9906	.254 - .508	5.055	2.667	.762 - 1.27	5.207	1.270	.762 - 1.02
4.343	1.651	.127 - .254	4.572	2.997	.127 - .254	4.724	3.226	.254 - .381	4.851	1.600	.254 - .406	5.055	3.099	.254 - .508	5.207	2.007	.508 - .762
4.343	2.184	.762 - 1.27	4.572	3.251	.127 - .254	4.724	3.277	.508 - 1.02	4.851	1.651	.635 - 1.27	5.055	3.912	.127 - .381	5.207	2.388	.254 - .508
4.343	2.210	.381 - .762	4.572	3.581	.127 - .254	4.724	3.454	.254 - .508	4.851	1.753	.635 - 1.02	5.055	4.013	.381 - .508	5.207	2.464	.254 - .508
4.343	2.286	.127 - .762	4.597	1.803	.127 - .254	4.724	3.937	.127 - .254	4.851	1.905	1.02 - 1.52	5.080	.6604	.127 - .254	5.207	2.845	.254 - .508
4.343	2.489	.178 - .381	4.597	1.981	.178 - .406	4.750	1.067	.381 - .762	4.851	1.956	.127 - .762	5.080	1.346	.127 - .254	5.207	2.921	.381 - .635
4.343	2.565	.254 - .508	4.597	2.210	.127 - .254	4.750	1.880	.381 - .762	4.851	2.337	.813 - 1.27	5.080	1.448	.127 - .254	5.207	3.327	.254 - .508
4.343	3.251	.254 - .508	4.597	2.362	.127 - .254	4.750	1.956	.508 - 1.02	4.851	2.642	.508 - .762	5.080	1.676	.127 - .254	5.207	3.480	.635 - 1.02
4.343	3.277	.254 - .508	4.597	2.413	.254 - .406	4.750	1.981	.635 - 1.27	4.851	3.023	.254 - .508	5.080	1.829	.508 - .762	5.207	3.734	.635 - .762
4.343	3.302	.127 - .254	4.597	2.946	.381 - .762	4.750	2.032	.127 - .254	4.851	3.607	.127 - .254	5.080	1.981	.508 - .762	5.232	1.295	.127 - .381
4.369	.9144	.127 - .254	4.597	3.226	.381 - .635	4.750	2.057	.127 - .254	4.851	3.835	.127 - .254	5.080	2.007	.254 - .508	5.232	2.388	.127 - .254
4.369	1.880	.127 - .508	4.597	3.251	.127 - .635	4.750	2.083	.127 - 1.07	4.851	4.115	.381 - .508	5.080	2.184	.635 - 1.02	5.232	3.912	.127 - .254
4.369	2.032	.381 - .635	4.623	1.321	.254 - .508	4.750	2.134	.127 - .254	4.877	2.311	.508 - 1.02	5.080	2.210	.635 - 1.02	5.232	4.089	.127 - .254
4.369	2.057	.508 - .762	4.623	1.448	.305 - .508	4.750	2.184	.762 - 1.27	4.877	2.997	.127 - .254	5.080	2.286	.254 - .508	5.258	2.845	.127 - .254
4.369	2.438	.508 - .813	4.623	1.727	.254 - .508	4.750	2.261	.254 - .762	4.877	3.048	.508 - 1.02	5.080	2.337	.127 - .254	5.258	3.226	.381 - .635
4.369	2.616	.254 - .508	4.623	2.108	1.02 - 1.27	4.750	2.286	.635 - 1.02	4.877	3.175	.127 - .254	5.080	2.413	.381 - .635	5.258	3.353	.508 - .762
4.369	2.769	.508 - 1.02	4.623	2.388	.381 - .762	4.750	2.311	.381 - .635	4.877	3.378	.127 - .254	5.080	2.438	.127 - .254	5.258	3.378	.508 - .762
4.369	3.251	.127 - .254	4.623	2.794	.254 - .508	4.750	2.413	.127 - .254	4.877	3.785	.381 - .635	5.080	2.464	.381 - .762	5.258	3.658	.254 - .508
4.394	1.651	.381 - .762	4.623	3.302	.127 - .406	4.750	2.438	.254 - .635	4.902	1.905	.381 - .762	5.080	2.489	.381 - .635	5.258	3.734	.127 - .254
4.394	1.778	.508 - .762	4.623	3.404	.127 - .254	4.750	2.489	.381 - .635	4.902	2.413	.508 - 1.02	5.080	2.540	1.02 - 1.27	5.283	2.515	.254 - .508
4.394	2.007	.508 - .762	4.648	1.702	.305 - .635	4.750	2.540	.127 - .254	4.902	2.616	.254 - .508	5.080	2.565	.127 - 1.02	5.283	3.048	.127 - 1.52
4.394	2.235	.127 - .254	4.648	2.286	.254 - .508	4.750	2.642	.813 - 1.07	4.902	2.819	.127 - .254	5.080	2.591	.127 - .762	5.283	3.226	.381 - .635
4.394	2.337	.508 - .889	4.648	2.438	.508 - .762	4.750	2.692	.381 - 1.02	4.902	3.124	.381 - .762	5.080	2.667	.254 - .635	5.283	3.251	1.02 - 1.27
4.394	2.438	.508 - 1.02	4.648	2.464	.127 - .254	4.750	2.743	.127 - .254	4.902	3.302	.127 - .254	5.080	2.794	.635 - .889	5.283	3.277	.508 - .762
4.394	2.540	.254 - .508	4.648	2.565	.508 - .914	4.750	2.921	.381 - .813	4.902	3.378	.127 - .254	5.080	2.946	.254 - .508	5.283	3.302	.127 - .254
4.394	2.591	.254 - .508	4.648	2.667	.127 - .254	4.750	2.946	.254 - .508	4.902	4.115	.254 - .305	5.080	3.150	.508 - .914	5.283	3.734	.127 - .254
4.394	2.642	.406 - .635	4.648	2.692	.254 - .508	4.750	3.099	.127 - .254	4.928	1.651	.508 - .762	5.080	3.175	.127 - .254	5.283	3.937	.127 - .254
4.394	2.896	.254 - .508	4.648	2.997	.381 - .762	4.750	3.150	.508 - .762	4.928	1.727	1.02 - 1.52	5.080	3.200	.508 - .914	5.283	4.140	.254 - .381
4.394	2.972	.127 - .635	4.648	3.048	.127 - .254	4.750	3.175	.127 - .254	4.928	2.388	.127 - .254	5.080	3.251	.635 - 1.02	5.309	1.981	.127 - .254
4.420	1.118	.508 - .762	4.648	3.327	.381 - .635	4.750	3.200	.127 - .254	4.953	.8128	.127 - .254	5.080	3.632	.381 - .762	5.309	2.286	.381 - .762
4.420	1.956	.254 - .508	4.648	3.353	.127 - .254	4.750	3.226	.254 - .508	4.953	1.905	.508 - .762	5.080	3.886	.127 - .254	5.309	2.896	.127 - .254
4.420	2.362	1.02 - 1.52	4.648	3.581	.127 - .508	4.750	3.251	.127 - .254	4.953	1.930	.381 - .762	5.080	4.064	.508 - .762	5.309	2.946	.635 - 1.02
4.420	2.413	.508 - .813	4.648	3.632	.203 - .305	4.750	3.277	.127 - .305	4.953	1.981	.127 - .203	5.080	4.140	.127 - .254	5.309	2.972	.127 - .254
4.420	2.464	.635 - 1.02	4.674	1.575	.254 - .508	4.750	3.429	.127 - .254	4.953	2.515	.762 - 1.27	5.080	4.496	.254 - .508	5.309	3.251	.381 - .762
4.420	2.692	.127 - .254	4.674	1.651	.127 - .254	4.775	.7620	.508 - .813	4.953	2.540	.508 - .889	5.105	.9652	.127 - .254	5.309	3.632	.305 - .508
4.420	3.480	.254 - .508	4.674	2.184	.381 - .762	4.775	.7874	.127 - .254	4.953	2.591	.508 - 1.02	5.105	1.702	.254 - .508	5.309	3.708	.381 - .635
4.445	1.422	.127 - .635	4.699	1.778	.635 - 1.27	4.775	1.168	.127 - .254	4.953								

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
5.385	2.362	.381 - .762	5.537	3.251	.127 - .508	5.664	3.429	.254 - .508	5.918	2.794	.127 - .254	6.045	2.921	1.02 - 1.52	6.223	5.182	.254 - .508
5.385	3.048	.254 - .508	5.537	3.353	.203 - .381	5.664	3.531	.381 - .635	5.918	2.997	.508 - 1.02	6.045	3.200	.762 - 1.27	6.248	1.397	.127 - .305
5.385	3.150	.127 - .254	5.537	3.480	.127 - .254	5.664	3.937	.127 - .254	5.918	3.150	.254 - .508	6.045	3.226	.127 - .254	6.248	2.032	.127 - .254
5.385	3.327	.127 - .254	5.537	3.505	.508 - 1.02	5.664	4.851	.127 - .254	5.918	3.226	.127 - .254	6.045	3.632	.127 - .254	6.248	2.388	.254 - .508
5.385	3.429	.127 - .381	5.537	3.556	.381 - .635	5.690	1.905	.635 - 1.02	5.918	3.302	.127 - .381	6.045	3.708	.762 - 1.02	6.248	3.099	.635 - 1.02
5.385	3.480	.381 - .635	5.537	3.581	.635 - .914	5.690	3.531	.127 - .305	5.918	3.734	.127 - .254	6.045	4.597	.508 - .762	6.248	3.251	.127 - .254
5.385	3.505	.127 - .305	5.537	3.632	.381 - .762	5.690	3.581	.127 - .254	5.918	3.937	.127 - .254	6.071	1.727	.203 - .406	6.248	3.327	.127 - .254
5.385	4.013	.381 - .635	5.537	4.293	.381 - .635	5.690	3.734	.127 - .254	5.918	4.140	.254 - .381	6.071	2.388	.127 - .254	6.248	3.404	.127 - .254
5.410	1.092	.127 - .305	5.563	1.778	.508 - .762	5.715	1.600	.127 - .254	5.918	4.242	.254 - .508	6.071	3.327	.813 - 1.27	6.248	3.607	.381 - .762
5.410	1.676	.635 - 1.02	5.563	2.159	.127 - .254	5.715	2.286	.381 - .762	5.918	4.318	.508 - .762	6.071	3.581	.381 - .762	6.248	4.318	.127 - .254
5.410	1.956	.381 - .762	5.563	2.286	.127 - .254	5.715	2.337	.127 - .254	5.918	4.394	.127 - .254	6.071	3.607	.381 - .762	6.248	4.597	.127 - .762
5.410	2.540	.127 - .254	5.563	2.616	.254 - .508	5.715	2.565	.381 - .762	5.918	4.851	.127 - .254	6.071	3.759	.127 - .254	6.248	5.004	.381 - .635
5.410	2.743	.127 - .254	5.563	2.692	.127 - .508	5.715	2.819	.381 - .762	5.944	.9906	.127 - .254	6.071	4.089	.762 - 1.27	6.274	1.295	.254 - .508
5.410	2.794	.254 - .508	5.563	3.150	.508 - 1.02	5.715	2.870	.127 - .254	5.944	1.676	1.07 - 1.57	6.071	4.140	.762 - 1.02	6.274	1.600	.762 - 1.27
5.410	3.302	.635 - 1.02	5.563	3.200	.254 - .762	5.715	3.175	.381 - .813	5.944	2.438	1.07 - 1.52	6.071	4.597	.127 - .254	6.274	2.032	.254 - 1.02
5.410	3.912	.127 - .254	5.563	3.226	.762 - 1.02	5.715	3.277	.762 - 1.27	5.944	3.073	.127 - .508	6.071	4.826	.127 - .381	6.274	2.286	.508 - .762
5.410	4.064	.254 - .635	5.563	3.277	.254 - .381	5.715	3.429	.127 - .381	5.944	3.200	.381 - .635	6.096	.6096	.127 - .254	6.274	2.311	.762 - 1.27
5.410	4.115	.508 - .762	5.563	3.302	.381 - .762	5.715	3.607	.127 - .381	5.944	3.251	.381 - .762	6.096	1.829	.127 - .254	6.274	2.413	1.02 - 1.52
5.436	1.270	.127 - .254	5.563	3.607	.127 - .254	5.715	3.658	.381 - .762	5.944	3.277	.127 - .254	6.096	2.286	.508 - .762	6.274	2.464	.127 - .508
5.436	1.575	.381 - .762	5.563	3.734	.635 - 1.02	5.715	3.734	.635 - 1.02	5.944	3.404	.508 - .762	6.096	2.591	.254 - .508	6.274	2.540	.127 - .254
5.436	2.261	.254 - .508	5.563	3.962	.254 - .508	5.715	3.810	.127 - .254	5.944	3.429	.762 - 1.27	6.096	2.667	.254 - .508	6.274	2.997	.127 - .508
5.436	2.489	.254 - .508	5.563	4.089	.127 - .889	5.715	4.166	.127 - .254	5.944	3.505	.254 - .508	6.096	2.743	.635 - 1.02	6.274	3.023	.635 - 1.02
5.436	2.540	.381 - .635	5.563	4.343	.127 - .254	5.740	2.210	.127 - .254	5.944	3.556	.127 - .254	6.096	2.769	.127 - .254	6.274	3.175	.508 - .813
5.436	2.769	.508 - .762	5.563	4.394	.127 - .254	5.740	2.489	.381 - 1.27	5.944	3.607	.889 - 1.27	6.096	3.175	.635 - 1.52	6.274	3.200	.584 - .813
5.436	3.200	.127 - .254	5.588	1.016	.127 - .254	5.740	2.743	.508 - .762	5.944	4.877	.254 - .508	6.096	3.327	.127 - .254	6.274	3.226	.635 - 1.07
5.436	4.140	.254 - .508	5.588	1.295	.635 - .889	5.740	2.896	.635 - 1.02	5.969	1.219	.127 - .254	6.096	3.429	.127 - .762	6.274	3.353	.508 - .762
5.436	4.216	.127 - .254	5.588	1.600	.254 - .508	5.740	3.277	.127 - .762	5.969	1.727	.254 - 1.27	6.096	3.454	.127 - .254	6.274	3.505	.127 - .254
5.436	4.293	.254 - .381	5.588	1.651	.508 - .813	5.740	4.445	.127 - .254	5.969	2.184	.508 - .762	6.096	3.531	.127 - .254	6.274	3.556	.127 - .254
5.436	4.572	.127 - .254	5.588	1.753	.127 - .254	5.740	4.902	.127 - .254	5.969	2.235	.508 - .762	6.096	3.835	.127 - .254	6.274	3.581	.508 - .813
5.461	.8636	.254 - .762	5.588	1.778	.508 - .762	5.766	1.270	.254 - .508	5.969	2.286	.127 - .254	6.096	4.064	.381 - 1.02	6.274	3.658	.127 - .254
5.461	1.600	.127 - .254	5.588	2.286	.127 - .254	5.766	3.226	.127 - .254	5.969	2.515	.127 - .254	6.096	4.775	.127 - .254	6.274	3.734	.127 - .254
5.461	1.854	.762 - 1.02	5.588	2.311	.127 - 1.02	5.766	3.886	.508 - .813	5.969	2.591	.381 - .762	6.121	2.616	.127 - .254	6.274	4.013	.762 - 1.02
5.461	2.235	.254 - .381	5.588	2.515	.127 - .254	5.791	1.295	.508 - .762	5.969	2.743	.762 - 1.27	6.121	3.023	.508 - .889	6.274	4.039	.254 - .508
5.461	2.286	1.07 - 1.57	5.588	2.692	.127 - .381	5.791	2.311	.127 - .254	5.969	2.896	.254 - .762	6.121	3.251	.381 - .762	6.274	4.166	.127 - .254
5.461	2.311	.254 - .635	5.588	2.743	.254 - .508	5.791	2.438	.254 - .508	5.969	3.200	.762 - 1.27	6.121	3.759	.127 - .254	6.274	4.293	.508 - .762
5.461	2.540	.254 - 1.27	5.588	2.769	.127 - .254	5.791	2.692	.508 - .889	5.969	3.302	.381 - .762	6.121	4.115	.127 - .254	6.274	4.699	.127 - .254
5.461	2.642	.254 - .508	5.588	2.870	.813 - 1.22	5.791	2.997	.254 - 1.27	5.969	3.327	.635 - 1.02	6.121	4.572	.127 - .254	6.274	4.826	.254 - .508
5.461	2.692	.127 - .381	5.588	2.896	.254 - .508	5.791	3.073	.254 - .508	5.969	3.404	.508 - .889	6.147	1.829	.127 - .254	6.274	5.207	.127 - .254
5.461	2.845	.508 - 1.02	5.588	2.972	.635 - 1.07	5.791	3.277	.508 - .762	5.969	3.505	.381 - .635	6.147	2.540	.127 - .254	6.274	5.232	.127 - .254
5.461	3.124	.381 - .889	5.588	3.099	.635 - 1.02	5.791	3.327	.381 - .762	5.969	3.531	.635 - 1.02	6.147	2.997	.254 - .508	6.299	1.321	.889 - 1.27
5.461	3.226	.127 - .305	5.588	3.175	.508 - .762	5.791	3.759	.127 - .254	5.969	3.861	.508 - .813	6.147	3.251	.127 - .254	6.299	1.600	.381 - .635
5.461	3.480	.254 - .381	5.588	3.226	.635 - 1.22	5.791	4.242	.127 - .254	5.969	3.962	.254 - .508	6.147	3.277	.381 - .635	6.299	1.651	.381 - .762
5.461	3.505	.508 - .762	5.588	3.251	.127 - 1.27	5.817	2.438	.254 - .508	5.969	4.089	.127 - .254	6.147	3.683	.254 - .381	6.299	1.702	.381 - .762
5.461	3.658	.762 - 1.27	5.588	3.277	.508 - .889	5.817	3.531	.381 - .635	5.969	4.166	.254 - .508	6.147	3.708	.127 - .254	6.299	1.981	.381 - .762
5.461	4.115	.127 - .254	5.588	3.556	.254 - .508	5.817	3.785	.127 - .254	5.969	4.242	.508 - .914	6.147	3.734	.254 - .508	6.299	2.210	.127 - .381
5.461	4.166	.127 - .254	5.588	3.658	.635 - .889	5.817	4.216	.254 - .508	5.969	5.131	.127 - .254	6.147	4.140	.635 - .889	6.299	2.261	.508 - .889
5.461	4.216	.127 - .254	5.588	3.734	.381 - .635	5.842	.9652	.508 - .762	5.994	1.397	.508 - 1.02	6.147	4.369	.635 - 1.02	6.299	2.311	.762 - 1.02
5.461	4.267	.254 - .508	5.588	4.039	.127 - .254	5.842	1.270	.508 - .762	5.994	1.549	.127 - .254	6.147	4.877	.305 - .508	6.299	2.337	.127 - .381
5.461	4.318	.127 - .254	5.588	4.216	.381 - .508	5.842	1.854	.381 - .762	5.994	1.778	.254 - .508	6.147	4.928	.127 - .254	6.299	2.362	.127 - .762
5.486	1.372	.381 - .813	5.588	4.496	.381 - .508	5.842	2.388	1.07 - 1.57	5.994	1.981	.127 - .254	6.172	2.413	.381 - .635	6.299	2.388	1.02 - 1.52
5.486	1.397	.127 - .254	5.588	4.547	.127 - .254	5.842	2.464	.254 - .508	5.994	2.032	.508 - .762	6.172	3.302	.254 - 1.27	6.299	2.489	.127 - .254
5.486	1.448	.508 - .762	5.613	1.549	.127 - 1.52	5.842	2.743	.127 - .254	5.994	2.083	.381 - .762	6.172	3.378	.127 - .254	6.299	2.540	.381 - .762
5.486	2.794	.254 - .508	5.613	1.651	.127 - .254	5.842	3.048	.127 - .254	5.994	2.311	.508 - .762	6.172	3.454	.127 - .254	6.299	2.692	1.52 - 2.03
5.486	3.048	.254 - .508	5.613	2.134	.508 - .889	5.842	3.073	.254 - .508	5.994	2.388	.381 - .762	6.172	3.683	.254 - .508	6.299	2.997	.381 - .813
5.486	3.200	.127 - .254	5.613	2.515	.508 - .762	5.842	3.302	.127 - 1.52	5.994	2.464	.381 - .762	6.172	3.708	.254 - .508	6.299	3.048	.635 - 1.02
5.486	3.759	.127 - .254	5.613	2.692	.254 - .508	5.842	3.683	.254 - 1.02	5.994	2.489	.762 - 1.22	6.172	4.115	.508 - .889	6.299	3.099	.381 - .813
5.486	4.115	.254 - .508	5.613	2.972	.127 - .254	5.842	3.861	.254 - .508	5.994	2.718	.508 - .762	6.172	4.318	.254 - .508	6.299	3.124	.508 - .762
5.512	2.032	.508 - .762	5.613	3.099	.508 - .889	5.842	4.064	.254 - .508	5.994	2.997	.127 - .254	6.172	4.775	.127 - .254	6.299	3.251	.127 - 1.02
5.512	2.134	.381 - .762	5.613	3.175	.508 - .889	5.842	4.242	.127 - .254	5.994	3.226	.127 - .254	6.172	5.029	.127 - .508	6.299	3.277	.762 - 1.27
5.512	2.540	.762 - 1.27	5.613	3.200	.508 - .889	5.842	4.470	.127 - .254	5.994								

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
6.325	3.632	.381 - .762	6.375	1.930	.127 - .254	6.528	5.410	.127 - .254	6.756	3.124	.787 - 1.22	6.960	2.362	.127 - 1.02	7.061	3.835	.127 - .762
6.325	3.658	.762 - 1.27	6.375	2.362	.127 - .254	6.553	1.702	.381 - .762	6.756	3.327	.914 - 1.52	6.960	2.413	.127 - .254	7.061	3.937	.127 - .254
6.325	3.861	.127 - .254	6.375	2.565	.635 - 1.02	6.553	2.413	.381 - .635	6.756	3.404	.635 - 1.02	6.960	3.073	.127 - .254	7.061	4.648	.127 - .254
6.325	4.013	.508 - .762	6.375	2.743	.508 - 1.02	6.553	3.785	.127 - .254	6.756	4.267	.635 - 1.02	6.960	3.226	.762 - 1.52	7.061	4.826	.127 - .254
6.325	4.064	.508 - 1.02	6.375	2.870	.762 - 1.27	6.553	3.912	.127 - .254	6.756	4.343	.508 - .889	6.960	3.353	.635 - .889	7.061	4.851	.381 - .813
6.325	4.318	.635 - 1.02	6.375	2.921	1.02 - 1.52	6.553	4.140	.381 - .762	6.756	4.547	.508 - .762	6.960	4.318	.762 - 1.27	7.061	5.690	.254 - .508
6.325	4.369	.254 - .508	6.375	3.099	.889 - 1.27	6.553	4.293	.508 - .762	6.756	4.699	.381 - .635	6.960	4.369	1.02 - 1.52	7.061	5.994	.127 - .254
6.325	4.724	.127 - .254	6.375	3.175	.254 - .508	6.553	4.496	.127 - .381	6.756	5.131	.127 - .254	6.960	4.420	.889 - 1.27	7.087	1.143	.127 - .381
6.325	4.801	.381 - .813	6.375	3.226	.254 - .635	6.579	2.946	.127 - .254	6.756	5.537	.127 - .254	6.960	4.445	1.02 - 1.27	7.087	2.616	.127 - .254
6.325	4.826	.127 - .203	6.375	3.302	.381 - .762	6.579	4.064	.127 - .254	6.782	1.499	.254 - .508	6.960	4.851	.127 - .508	7.087	2.946	.254 - .508
6.325	4.902	.203 - .305	6.375	3.327	.127 - 1.27	6.579	5.410	.127 - .254	6.782	2.540	.762 - 1.27	6.960	5.359	.127 - .254	7.087	3.277	.254 - .381
6.350	.6858	.127 - .254	6.375	3.454	.127 - .254	6.604	1.651	.254 - .508	6.782	3.175	.127 - .254	6.960	6.020	.127 - .254	7.087	3.531	.813 - 1.22
6.350	.9906	.127 - .635	6.375	3.505	.127 - .254	6.604	2.261	.254 - .508	6.782	3.556	.381 - .762	6.985	1.803	.254 - .508	7.087	3.556	.762 - 1.02
6.350	1.118	.127 - .381	6.375	3.683	.381 - 1.22	6.604	2.743	.381 - .762	6.782	3.632	.254 - .635	6.985	2.007	.254 - .508	7.087	3.658	.635 - 1.02
6.350	1.321	.127 - .305	6.375	3.708	.381 - .762	6.604	2.870	.381 - .762	6.782	3.658	.508 - .762	6.985	2.057	.508 - 1.02	7.087	3.962	.508 - .762
6.350	1.600	.127 - .254	6.375	3.785	1.02 - 1.27	6.604	3.048	.508 - 1.52	6.782	4.267	.127 - .254	6.985	2.311	.508 - 1.02	7.087	4.318	.381 - .635
6.350	1.829	.127 - .305	6.375	3.835	.635 - 1.02	6.604	3.073	.178 - .381	6.782	4.318	.762 - 1.27	6.985	2.438	.127 - .254	7.087	4.953	.127 - 1.02
6.350	1.956	.305 - .635	6.375	3.988	1.02 - 1.52	6.604	3.251	1.02 - 1.52	6.782	4.521	.635 - 1.02	6.985	2.489	.762 - 1.27	7.087	5.004	.381 - .762
6.350	2.083	.127 - .254	6.375	4.013	.127 - .381	6.604	3.277	.635 - 1.02	6.782	4.826	.127 - .203	6.985	2.921	.127 - .254	7.087	5.512	.381 - .762
6.350	2.108	.381 - .508	6.375	4.064	.127 - .254	6.604	3.658	.508 - 1.02	6.782	5.207	.381 - .762	6.985	2.997	.508 - 1.02	7.087	5.893	.127 - .254
6.350	2.159	.127 - .762	6.375	4.115	.635 - 1.07	6.604	3.759	.127 - .305	6.782	5.359	.508 - .762	6.985	3.099	.508 - 1.02	7.087	6.274	.254 - .381
6.350	2.311	.508 - .762	6.375	4.750	.254 - .508	6.604	4.013	.127 - .508	6.807	2.769	.381 - .762	6.985	3.200	.254 - .508	7.112	1.702	.127 - .381
6.350	2.362	1.57 - 2.11	6.375	4.775	.127 - .203	6.604	4.140	.508 - 1.02	6.807	3.150	.381 - .762	6.985	3.429	.127 - .305	7.112	2.007	.762 - 1.27
6.350	2.388	.127 - .635	6.375	4.826	.127 - .381	6.604	4.242	.127 - .254	6.807	3.734	.813 - 1.27	6.985	3.632	.254 - .508	7.112	2.540	.127 - .254
6.350	2.413	.178 - 1.02	6.375	4.877	.127 - .254	6.604	4.318	1.02 - 1.52	6.807	4.394	.127 - .254	6.985	3.658	1.02 - 1.27	7.112	2.667	.381 - .813
6.350	2.464	.762 - 2.03	6.375	4.953	.127 - .254	6.604	4.394	.508 - 1.02	6.807	4.547	.127 - .254	6.985	4.140	.381 - .635	7.112	2.921	.381 - .762
6.350	2.489	.254 - .635	6.375	5.080	.381 - .635	6.604	4.445	.127 - .254	6.807	5.055	.254 - .508	6.985	4.216	.508 - .762	7.112	2.997	.254 - .508
6.350	2.515	.813 - 1.27	6.375	5.207	.178 - .381	6.604	4.470	.508 - 1.02	6.807	5.131	.127 - .381	6.985	4.318	.813 - 1.22	7.112	3.099	.635 - 1.22
6.350	2.540	.635 - 1.02	6.375	5.436	.127 - .254	6.604	4.775	.127 - .381	6.807	5.410	.254 - .508	6.985	4.572	.508 - 1.02	7.112	3.200	.508 - .762
6.350	2.591	.127 - 1.52	6.401	1.981	1.52 - 1.83	6.604	4.826	.254 - .508	6.833	3.531	.508 - .762	6.985	4.801	.762 - 1.27	7.112	3.226	.127 - .254
6.350	2.667	.127 - .889	6.401	2.515	.127 - .254	6.604	5.207	.254 - .508	6.833	3.962	.381 - .635	6.985	4.826	.127 - .254	7.112	3.251	.254 - .813
6.350	2.692	.762 - 1.27	6.401	2.616	.381 - .635	6.629	2.642	.127 - 1.78	6.833	4.013	.254 - .508	6.985	4.877	.127 - .254	7.112	3.378	.508 - 1.02
6.350	2.743	.127 - .254	6.401	3.048	.254 - .508	6.629	2.794	.127 - .254	6.833	4.064	.381 - .762	6.985	5.080	.127 - .254	7.112	3.404	.127 - .254
6.350	2.794	.127 - .762	6.401	3.226	.762 - 1.27	6.629	2.819	.762 - 1.27	6.833	4.089	1.22 - 1.57	6.985	5.156	.762 - 1.27	7.112	3.429	.508 - .889
6.350	2.946	.508 - 1.02	6.401	3.251	.127 - .254	6.629	5.105	.127 - .254	6.833	4.547	.635 - 1.02	6.985	6.147	.254 - .508	7.112	3.683	.813 - 1.27
6.350	2.972	.508 - 1.02	6.401	3.581	.508 - 1.02	6.629	5.232	.127 - .254	6.833	4.826	.127 - .254	7.010	2.057	.127 - .254	7.112	3.759	.127 - .254
6.350	3.048	.762 - 1.27	6.401	3.708	.203 - .406	6.655	1.575	.508 - .762	6.833	5.410	.127 - .254	7.010	2.311	.381 - .635	7.112	3.937	.635 - 1.14
6.350	3.099	.127 - 1.52	6.401	4.039	.635 - 1.02	6.655	2.972	.381 - .762	6.858	2.007	.127 - .254	7.010	2.769	.381 - 1.02	7.112	3.962	1.02 - 1.52
6.350	3.150	.254 - .813	6.401	4.851	.254 - 1.02	6.655	3.277	.127 - .254	6.858	2.438	.127 - .635	7.010	2.845	.762 - 1.27	7.112	4.089	.381 - .762
6.350	3.175	.254 - 1.27	6.401	4.953	.305 - .508	6.655	3.607	.127 - .254	6.858	2.515	.508 - .762	7.010	2.896	1.02 - 1.52	7.112	4.293	.127 - .381
6.350	3.200	.127 - .508	6.401	5.004	.508 - .762	6.655	3.962	.381 - .762	6.858	2.769	.381 - .762	7.010	3.099	.203 - .406	7.112	4.902	.254 - .381
6.350	3.226	.178 - 1.27	6.401	5.207	.127 - .254	6.655	4.521	.381 - .762	6.858	2.870	.127 - .254	7.010	3.200	.508 - .762	7.112	5.105	.127 - .508
6.350	3.251	.127 - 1.57	6.426	1.219	1.02 - 1.27	6.655	4.775	.635 - 1.02	6.858	3.353	.635 - .889	7.010	3.378	.127 - .254	7.112	5.131	.635 - 1.02
6.350	3.277	.254 - 1.27	6.426	1.346	.254 - .508	6.655	4.877	.508 - .762	6.858	3.429	.787 - 1.07	7.010	3.581	1.02 - 1.52	7.112	5.512	.508 - .762
6.350	3.302	.127 - 1.07	6.426	1.422	.635 - 1.02	6.655	5.055	.508 - 1.02	6.858	3.759	.254 - .508	7.010	3.607	.127 - .254	7.112	5.994	.254 - .813
6.350	3.327	.127 - 1.52	6.426	2.438	.635 - 1.02	6.680	1.549	.127 - .254	6.858	4.064	.127 - .254	7.010	3.632	.381 - .762	7.137	1.321	.254 - .508
6.350	3.353	.813 - 1.32	6.426	2.921	.127 - .305	6.680	2.311	.635 - 1.02	6.858	4.572	.127 - .254	7.010	3.708	.127 - .381	7.137	1.702	.813 - 1.27
6.350	3.404	.127 - .254	6.426	2.946	.127 - .305	6.680	3.277	.254 - .508	6.858	5.258	.127 - .254	7.010	3.886	.508 - .889	7.137	2.388	1.02 - 1.52
6.350	3.429	.762 - 1.22	6.426	3.175	1.02 - 1.52	6.680	4.013	.762 - 1.27	6.858	5.334	.508 - 1.02	7.010	4.039	.762 - 1.27	7.137	2.438	.127 - .254
6.350	3.454	.127 - .254	6.426	3.226	.508 - .762	6.680	4.851	.127 - .254	6.883	3.226	.381 - .635	7.010	4.089	.127 - .381	7.137	2.845	1.02 - 1.27
6.350	3.556	.127 - 1.52	6.426	3.353	.635 - 1.02	6.680	4.902	.127 - .254	6.883	3.302	.203 - .381	7.010	4.115	.254 - .508	7.137	2.972	.635 - 1.02
6.350	3.708	.254 - .508	6.426	3.683	.635 - 1.02	6.680	4.953	.127 - .254	6.883	3.505	.127 - 1.02	7.010	4.242	.127 - .254	7.137	3.099	.254 - .508
6.350	3.734	.127 - 1.27	6.426	4.216	.508 - 1.02	6.680	5.055	.254 - .635	6.883	3.708	.127 - .254	7.010	4.826	.508 - 1.02	7.137	3.200	.127 - .254
6.350	3.810	.127 - .381	6.426	4.826	.508 - 1.02	6.706	2.743	.635 - 1.02	6.883	4.445	.762 - 1.27	7.010	4.877	.381 - 1.02	7.137	3.353	.127 - .254
6.350	3.886	.254 - .508	6.426	4.851	.508 - 1.02	6.706	3.531	.381 - .635	6.883	4.826	.381 - .635	7.010	4.978	.127 - .254	7.137	3.404	1.02 - 1.52
6.350	3.912	.381 - .635	6.426	4.877	.127 - .254	6.706	3.734	.127 - .254	6.883	5.055	.381 - .635	7.010	5.080	.254 - .508	7.137	3.607	.254 - .762
6.350	3.988	.635 - 1.02	6.426	5.004	.127 - .254	6.706	4.115	.635 - 1.02	6.883	5.613	.508 - .762	7.010	5.309	.254 - .508	7.137	3.632	.127 - .254
6.350	4.013	.381 - .762	6.452	1.295	.762 - 1.27	6.706	4.267	.381 - .635	6.909	.8128	.254 - .508	7.036	2.235	.127 - .254	7.137	3.962	.127 - .254
6.350	4.039	.508 - .914	6.452	2.972	.254 - .508	6.706	4.420	1.27 - 1.52	6.909	2.362	.635 - 1.07	7.036	2.337	.254 - .508	7.137	4.039	.381 - .762
6.350	4.089	.127 - .254	6.														

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
7.188	2.413	.127 - .254	7.391	.6858	.127 - .254	7.569	3.937	.127 - .254	7.671	5.029	.381 - .762	7.823	5.334	.381 - .635	7.899	3.607	1.02 - 1.78
7.188	2.438	.381 - .762	7.391	.8128	.254 - .508	7.569	4.013	.203 - .406	7.671	5.207	.762 - 1.27	7.823	6.452	.127 - .254	7.899	3.734	2.03 - 2.29
7.188	2.489	.813 - 1.57	7.391	1.981	.381 - .762	7.569	4.089	.635 - 1.02	7.671	6.401	.127 - .381	7.849	.7874	.254 - .508	7.899	3.937	.381 - 1.27
7.188	2.819	.254 - .508	7.391	3.175	1.02 - 1.52	7.569	4.166	.762 - 1.27	7.696	2.896	.127 - .254	7.849	1.778	.381 - .635	7.899	4.039	.127 - .635
7.188	3.556	.635 - 1.07	7.391	4.039	1.02 - 1.52	7.569	4.572	.381 - .762	7.696	3.251	.127 - .254	7.849	2.388	.254 - .508	7.899	4.064	.254 - .508
7.188	3.632	.254 - .381	7.391	4.470	.508 - 1.02	7.569	4.597	.762 - 1.27	7.696	4.343	.508 - 1.02	7.849	2.769	.635 - 1.02	7.899	4.216	1.02 - 1.57
7.188	4.191	.203 - .381	7.391	4.674	.203 - .381	7.569	4.902	.381 - .635	7.696	4.597	.762 - 1.27	7.849	3.734	.254 - .508	7.899	4.242	.127 - .381
7.188	4.216	.127 - .254	7.391	4.826	.635 - 1.27	7.569	5.080	.127 - .254	7.696	4.851	.635 - 1.02	7.849	4.039	.127 - .762	7.899	4.496	.127 - .254
7.188	4.267	.635 - 1.02	7.391	4.953	.127 - .254	7.569	5.207	.127 - .254	7.696	5.004	.762 - 1.27	7.849	4.064	.127 - .254	7.899	4.648	1.07 - 1.57
7.188	4.394	.762 - 1.02	7.391	5.893	.127 - .254	7.569	6.121	.127 - .254	7.696	5.029	.127 - .254	7.849	4.089	1.02 - 1.57	7.899	4.750	.635 - 1.07
7.188	4.674	.127 - .254	7.391	6.198	.381 - .635	7.595	2.667	.762 - 1.02	7.696	5.080	.127 - .254	7.849	4.369	.508 - .889	7.899	4.775	.127 - 1.27
7.188	4.826	.203 - .381	7.391	6.350	.127 - .254	7.595	2.946	.254 - .508	7.696	5.588	.762 - 1.27	7.849	4.470	.508 - .762	7.899	4.826	.381 - .762
7.188	5.080	.254 - .508	7.417	2.896	1.02 - 1.52	7.595	3.683	.254 - .762	7.696	5.715	.127 - .254	7.849	4.851	.762 - 1.27	7.899	4.851	.203 - 1.02
7.188	5.486	.127 - .762	7.417	3.683	.635 - 1.02	7.595	5.131	.127 - .254	7.696	5.944	.127 - .254	7.849	4.928	.635 - 1.02	7.899	4.953	.127 - .254
7.188	5.512	.127 - .254	7.417	3.708	.127 - .254	7.620	1.143	.635 - 1.02	7.696	6.096	.508 - .762	7.849	4.953	1.27 - 1.78	7.899	5.182	.127 - .508
7.188	5.537	.127 - .635	7.417	3.759	.508 - 1.02	7.620	1.422	.127 - .254	7.696	6.375	.254 - .508	7.849	5.131	.762 - 1.27	7.899	5.461	.127 - .254
7.188	6.096	.127 - .254	7.417	3.785	.762 - 1.02	7.620	1.651	.203 - 1.02	7.722	2.108	.635 - 1.02	7.849	5.334	.254 - .508	7.899	5.512	.508 - 1.02
7.188	6.350	.127 - .254	7.417	4.191	1.27 - 1.52	7.620	1.880	.127 - .254	7.722	4.140	.254 - .508	7.849	6.274	.127 - .254	7.899	5.563	.508 - .889
7.214	2.413	.381 - .635	7.417	4.343	.127 - .254	7.620	2.057	.127 - .254	7.722	4.420	.127 - .254	7.849	6.375	.381 - .762	7.899	5.867	.635 - 1.02
7.214	3.023	.635 - 1.02	7.417	4.877	.254 - .381	7.620	2.413	.254 - .508	7.722	5.512	.762 - 1.27	7.849	6.452	.254 - .762	7.899	6.045	.127 - .254
7.214	3.175	.127 - .381	7.417	4.902	.508 - .762	7.620	2.464	.406 - 2.29	7.722	6.121	.254 - .508	7.849	6.477	.381 - .762	7.925	.9906	.127 - .305
7.214	4.851	.254 - .457	7.417	5.004	1.02 - 1.27	7.620	2.540	.127 - .381	7.722	6.223	.381 - .508	7.874	1.194	.635 - .889	7.925	1.143	.635 - .889
7.214	5.080	.254 - .508	7.417	5.994	.127 - .254	7.620	2.946	.508 - 1.02	7.722	6.350	.508 - .762	7.874	1.524	.254 - .635	7.925	1.372	.127 - .254
7.214	5.385	.127 - .254	7.442	.8636	.381 - .635	7.620	2.972	.635 - 1.02	7.747	2.210	.635 - 1.02	7.874	1.803	.127 - .254	7.925	1.575	.381 - .762
7.239	2.007	.127 - .254	7.442	3.150	.254 - .508	7.620	3.023	.127 - .254	7.747	2.667	.762 - 1.27	7.874	1.930	.508 - 1.02	7.925	1.676	.254 - .508
7.239	2.235	.127 - .254	7.442	3.277	.127 - .254	7.620	3.251	.127 - 1.52	7.747	3.175	.127 - .254	7.874	2.235	.381 - .635	7.925	1.829	.127 - .254
7.239	2.718	.508 - .813	7.442	3.734	.127 - .254	7.620	3.302	.762 - 1.27	7.747	3.277	.254 - .508	7.874	2.286	.305 - .635	7.925	1.854	.381 - .635
7.239	2.921	.381 - .762	7.442	4.775	.762 - 1.27	7.620	3.429	.127 - .254	7.747	3.556	.813 - 1.52	7.874	2.362	.635 - 1.02	7.925	2.286	.635 - 1.27
7.239	2.972	.254 - .508	7.442	4.877	1.02 - 1.27	7.620	3.505	.508 - 1.52	7.747	3.886	.381 - .635	7.874	2.413	.635 - .889	7.925	2.362	.127 - 1.57
7.239	3.226	.254 - .889	7.442	5.563	.127 - .254	7.620	3.658	.381 - .762	7.747	3.962	.254 - .508	7.874	2.438	.127 - .254	7.925	2.388	.508 - .762
7.239	3.251	.254 - .889	7.468	2.184	.381 - .762	7.620	3.683	.127 - .305	7.747	4.064	.635 - 1.02	7.874	2.591	.381 - .762	7.925	2.413	.813 - 1.07
7.239	3.327	.127 - .254	7.468	2.261	.381 - .762	7.620	3.988	.508 - .762	7.747	4.115	.381 - .762	7.874	2.642	.508 - 1.02	7.925	2.438	.381 - .635
7.239	3.734	.762 - 1.27	7.468	3.099	.381 - .762	7.620	4.115	.635 - 1.02	7.747	4.293	.635 - 1.02	7.874	2.692	.635 - 1.27	7.925	2.489	1.52 - 1.78
7.239	4.089	.127 - .254	7.468	3.200	.381 - .762	7.620	4.216	.127 - .254	7.747	4.775	.254 - .508	7.874	2.946	.762 - 1.02	7.925	2.515	.254 - .508
7.239	4.191	.381 - .762	7.468	4.496	1.02 - 1.52	7.620	4.242	.762 - 1.07	7.747	5.004	.127 - .254	7.874	3.023	.635 - 1.27	7.925	2.540	1.27 - 1.52
7.239	4.445	.635 - 1.22	7.468	4.750	.762 - 1.27	7.620	4.293	.381 - .762	7.747	5.182	.635 - 1.22	7.874	3.048	.762 - 1.52	7.925	2.642	.127 - .203
7.239	4.877	.508 - .889	7.468	4.877	.127 - .305	7.620	4.445	.635 - 1.02	7.747	5.207	.635 - 1.07	7.874	3.099	.635 - .889	7.925	2.667	.381 - .635
7.239	4.928	.127 - .254	7.468	5.690	.127 - .254	7.620	4.470	.127 - .254	7.747	5.613	.127 - .254	7.874	3.150	.127 - .254	7.925	2.845	.254 - .508
7.239	5.182	.254 - .508	7.493	2.007	1.27 - 1.52	7.620	4.496	.254 - .508	7.747	5.715	.254 - .508	7.874	3.226	.508 - 1.91	7.925	2.946	.127 - .254
7.239	5.258	.508 - .762	7.493	2.692	.203 - .406	7.620	4.572	.381 - .635	7.772	1.143	.254 - .635	7.874	3.302	.762 - 1.27	7.925	3.099	.381 - .762
7.239	6.071	.254 - .381	7.493	3.226	.635 - 1.02	7.620	4.623	.127 - .254	7.772	3.226	.635 - 1.02	7.874	3.353	.381 - .762	7.925	3.200	.127 - 2.29
7.264	3.175	.813 - 1.22	7.493	3.302	.254 - 1.02	7.620	4.699	.254 - .508	7.772	3.505	.508 - 1.02	7.874	3.404	.381 - .762	7.925	3.226	.254 - .508
7.264	3.810	.813 - 1.27	7.493	3.505	.381 - .762	7.620	4.877	.127 - .254	7.772	3.556	.127 - .254	7.874	3.556	.381 - .635	7.925	3.251	.508 - 1.02
7.264	4.140	.127 - .254	7.493	3.759	.762 - 1.02	7.620	5.080	.127 - .254	7.772	4.826	.381 - .762	7.874	3.734	.127 - .254	7.925	3.277	.254 - .762
7.264	4.318	.254 - .508	7.493	4.115	.508 - 1.02	7.620	5.156	.254 - .508	7.772	4.928	.762 - 1.27	7.874	3.861	.381 - .635	7.925	3.302	.127 - .381
7.264	4.724	.254 - .508	7.493	4.242	.635 - 1.02	7.620	5.486	.406 - .635	7.772	5.156	.127 - .381	7.874	3.937	.762 - 1.07	7.925	3.353	.254 - .635
7.264	4.775	.127 - .254	7.493	4.293	.127 - .254	7.620	5.588	.381 - .635	7.772	5.791	.406 - .635	7.874	4.013	1.27 - 1.78	7.925	3.404	.254 - .381
7.264	4.953	.127 - .254	7.493	4.318	1.02 - 1.27	7.620	5.842	.254 - .508	7.772	6.172	.127 - .254	7.874	4.089	.127 - .254	7.925	3.531	.127 - .203
7.264	5.359	.127 - .254	7.493	4.394	.762 - 1.27	7.620	6.299	.381 - .762	7.798	2.032	.127 - .254	7.874	4.115	.762 - 1.02	7.925	3.607	.152 - .762
7.290	2.997	.127 - .254	7.493	4.420	.508 - .813	7.620	6.604	.127 - .305	7.798	2.057	1.52 - 2.03	7.874	4.343	.254 - .508	7.925	3.632	.127 - .305
7.290	4.648	.127 - .254	7.493	4.496	.254 - .508	7.645	2.769	.635 - 1.02	7.798	2.413	.508 - 1.02	7.874	4.420	.254 - .508	7.925	3.658	.127 - .508
7.290	4.953	.152 - .305	7.493	4.547	1.27 - 1.52	7.645	3.226	.381 - .635	7.798	3.302	2.03 - 2.54	7.874	4.775	.762 - 1.27	7.925	3.708	.203 - .406
7.290	4.978	.127 - .508	7.493	4.750	.127 - .254	7.645	3.251	.254 - .508	7.798	3.632	.635 - 2.03	7.874	4.801	.254 - .508	7.925	3.759	1.02 - 1.52
7.315	3.251	.762 - 1.27	7.493	4.877	.127 - 1.02	7.645	3.302	.381 - .762	7.798	4.039	.762 - 1.27	7.874	4.826	.305 - .635	7.925	3.810	.508 - 1.02
7.315	3.327	.635 - 1.02	7.493	4.902	.381 - .762	7.645	3.353	.127 - .254	7.798	4.089	.127 - .254	7.874	4.851	.127 - .254	7.925	3.912	.127 - 1.52
7.315	5.004	.381 - .762	7.493	4.953	.127 - .254	7.645	3.607	1.52 - 2.03	7.798	4.216	.127 - .254	7.874	4.902	.635 - 1.02	7.925	3.962	.406 - 2.03
7.341	.9398	.508 - .762	7.493	5.055	.508 - .762	7.645	3.658	.508 - 1.02	7.798	4.420	.127 - .254	7.874	4.953	.127 - .254	7.925	3.988	.127 - .889
7.341	1.168	.127 - .254	7.493	5.334	.254 - .508	7.645	3.708	.127 - .254	7.798	4.496	.381 - .635	7.874	5.055	.762 - 1.27	7.925	4.013	.127 - .508
7.341	2.134	.127 - .254	7.518	3.023	.381 - 1.52	7.645	3.861	.508 - .762	7.798	4.623	.254 - .508	7.874	5.105	.813 - 1.27	7.925	4.064	1.02 - 1.52
7.341	2.286	1.91 - 2.29	7.518														

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
7.925	5.613	.127 - .254	8.001	3.556	.508 - 1.02	8.153	5.156	.127 - .254	8.331	6.223	.178 - .406	8.509	6.528	.254 - .762	8.712	2.235	1.52 - 1.91
7.925	5.664	.127 - 1.07	8.001	3.734	.508 - .762	8.153	5.740	.254 - .508	8.331	6.401	.508 - .787	8.509	6.553	.127 - .254	8.712	2.337	.127 - .254
7.925	5.766	.762 - 1.07	8.001	3.988	.127 - .381	8.153	6.426	.508 - .762	8.331	6.426	.127 - .254	8.509	6.579	.127 - .381	8.712	2.388	.635 - 1.52
7.925	5.791	.762 - 1.27	8.001	4.064	.127 - .254	8.179	1.270	.127 - .254	8.331	6.502	.254 - .508	8.534	1.143	.127 - .254	8.712	2.464	.254 - .508
7.925	5.867	.635 - 1.02	8.001	4.115	.508 - .762	8.179	3.251	.254 - .508	8.331	6.604	.508 - 1.02	8.534	1.219	.127 - .254	8.712	2.794	.635 - 1.02
7.925	6.375	.127 - .254	8.001	4.140	.127 - .254	8.179	3.683	.381 - .762	8.331	6.934	.127 - .254	8.534	2.972	1.02 - 1.52	8.712	2.946	.381 - .762
7.925	6.401	.635 - 1.07	8.001	4.242	.508 - 1.02	8.179	5.232	.127 - .254	8.357	.7620	.254 - .508	8.534	2.997	1.02 - 1.52	8.712	3.404	.178 - .406
7.925	6.452	.381 - .762	8.001	4.318	.508 - 1.02	8.179	5.690	.254 - .508	8.357	2.540	.635 - 1.02	8.534	3.505	.127 - 1.22	8.712	3.505	1.02 - 1.52
7.950	1.575	.127 - .254	8.001	4.597	.127 - .254	8.179	5.791	.635 - 1.02	8.357	2.743	.127 - .254	8.534	4.851	.762 - 1.27	8.712	4.089	.127 - .203
7.950	2.083	.127 - .254	8.001	4.826	.127 - .254	8.179	6.121	.254 - .508	8.357	2.819	.254 - .508	8.534	5.004	.127 - .254	8.712	4.242	.254 - .508
7.950	2.438	1.91 - 2.29	8.001	4.953	1.02 - 1.52	8.179	6.147	.635 - 1.02	8.357	5.232	.127 - .254	8.534	5.537	.127 - .254	8.712	4.902	.127 - 1.52
7.950	2.540	.203 - 1.07	8.001	5.664	.762 - 1.27	8.179	7.290	.254 - .508	8.357	5.309	.762 - 1.27	8.534	5.842	.254 - .508	8.712	4.928	1.52 - 1.98
7.950	2.565	1.02 - 1.52	8.001	5.690	.127 - .254	8.204	2.388	.254 - .508	8.357	5.613	.127 - .254	8.534	6.528	.508 - 1.02	8.712	4.953	.152 - 1.78
7.950	2.667	.203 - .508	8.001	6.045	.254 - .508	8.204	2.515	.508 - 1.02	8.357	6.223	.508 - 1.02	8.534	6.858	.127 - .254	8.712	4.978	.254 - .508
7.950	2.794	.203 - .381	8.001	6.096	.127 - .254	8.204	3.150	.127 - .254	8.357	6.426	.127 - .254	8.534	6.985	.127 - .254	8.712	5.004	.635 - 1.02
7.950	3.048	.127 - .254	8.001	6.350	.127 - .508	8.204	3.302	.635 - 1.07	8.357	7.315	.127 - .254	8.534	7.772	.127 - .254	8.712	5.512	1.02 - 1.27
7.950	3.124	1.27 - 1.78	8.026	2.489	.762 - 1.27	8.204	4.064	.127 - .635	8.382	2.362	.127 - .254	8.560	3.277	.127 - .305	8.712	5.563	.813 - 1.27
7.950	3.200	.508 - 1.02	8.026	2.667	.635 - 1.22	8.204	4.216	.508 - .762	8.382	3.150	.508 - .813	8.560	4.191	.381 - .635	8.712	5.715	.508 - .762
7.950	3.277	.127 - .254	8.026	3.150	1.52 - 1.91	8.204	4.343	.381 - .762	8.382	3.556	1.07 - 1.57	8.560	6.401	.508 - .762	8.712	5.817	.127 - .254
7.950	3.302	.635 - 1.02	8.026	3.404	.127 - .254	8.204	4.572	1.07 - 2.29	8.382	3.632	.508 - 1.02	8.560	6.426	.127 - .254	8.712	5.842	.635 - .889
7.950	3.378	.381 - .762	8.026	3.505	.508 - 1.02	8.204	4.978	.127 - .254	8.382	4.902	.127 - .254	8.560	7.036	.381 - .762	8.712	6.223	.127 - .254
7.950	3.429	.762 - 1.27	8.026	3.556	.127 - .254	8.204	5.080	.508 - .813	8.382	5.207	1.02 - 1.52	8.560	7.239	.381 - .762	8.712	6.629	.254 - .508
7.950	3.505	.635 - 1.02	8.026	3.886	.127 - .254	8.204	5.359	.508 - .762	8.382	5.232	.127 - .381	8.585	2.921	.127 - .254	8.712	6.960	.508 - 1.02
7.950	3.556	1.02 - 1.52	8.026	3.988	.127 - .254	8.204	5.410	.127 - .254	8.382	5.512	.127 - .254	8.585	4.267	1.83 - 2.29	8.738	2.591	.127 - .254
7.950	3.734	.762 - 1.27	8.026	4.242	.127 - .254	8.204	5.664	.127 - .254	8.382	5.817	.635 - 1.02	8.585	4.318	.254 - .762	8.738	3.861	.635 - 1.14
7.950	3.835	.127 - .254	8.026	4.572	.508 - .762	8.230	.8890	.127 - .254	8.382	6.350	.127 - .254	8.585	5.105	1.27 - 1.52	8.738	4.191	.381 - .762
7.950	3.962	1.02 - 1.27	8.026	5.029	.254 - .508	8.230	2.515	.127 - .254	8.382	6.375	.127 - .508	8.585	6.045	.127 - .254	8.738	4.242	.381 - .635
7.950	3.988	.127 - .254	8.026	5.055	.762 - 1.27	8.230	3.200	.508 - 1.02	8.382	6.426	.508 - 1.02	8.585	6.375	.381 - .762	8.738	4.369	.889 - 1.27
7.950	4.013	.381 - .762	8.026	5.105	.127 - 1.27	8.230	3.683	.254 - .508	8.382	6.528	.508 - .914	8.585	6.426	.254 - .508	8.738	4.674	.635 - 1.02
7.950	4.064	.152 - .762	8.026	5.258	.127 - .254	8.230	4.115	1.52 - 2.03	8.382	6.629	.127 - .254	8.611	3.810	.254 - .508	8.738	4.801	.381 - .635
7.950	4.115	.127 - .254	8.026	5.309	.127 - .254	8.230	4.191	1.52 - 2.03	8.407	1.702	.254 - .635	8.611	3.835	.127 - .254	8.738	4.826	.127 - .203
7.950	4.318	1.52 - 2.03	8.026	6.071	.127 - .254	8.230	4.826	.127 - .254	8.407	3.150	.508 - .762	8.611	3.988	.127 - .254	8.738	4.978	.508 - 1.52
7.950	4.394	.635 - 1.27	8.026	6.401	.127 - .254	8.230	5.080	.254 - .508	8.407	3.277	.127 - .254	8.611	4.470	.508 - 1.02	8.738	6.401	.635 - 1.02
7.950	4.547	.127 - .635	8.026	6.477	.152 - .254	8.230	5.182	1.02 - 1.52	8.407	3.556	.762 - 1.27	8.611	5.232	.127 - .254	8.738	6.782	.635 - 1.02
7.950	4.699	.127 - .254	8.052	2.413	.203 - .508	8.230	5.232	1.02 - 1.52	8.407	4.013	.127 - .254	8.611	5.664	.127 - .254	8.738	7.366	.254 - .508
7.950	4.750	.127 - .254	8.052	2.540	.152 - .762	8.230	5.258	.508 - .762	8.407	4.242	.508 - .762	8.636	2.159	.381 - .762	8.738	7.391	.127 - .254
7.950	4.826	.254 - .381	8.052	2.896	.127 - .254	8.230	6.147	.635 - 1.07	8.407	4.978	.127 - .254	8.636	3.810	.381 - .635	8.763	1.092	.127 - .254
7.950	5.080	.254 - .508	8.052	3.353	.127 - .254	8.230	6.452	.127 - .254	8.407	5.029	.381 - .762	8.636	4.013	.508 - 1.02	8.763	3.175	.508 - .813
7.950	5.232	.762 - 1.27	8.052	3.759	1.27 - 1.78	8.255	2.997	.127 - .254	8.407	5.080	1.02 - 1.52	8.636	4.166	.762 - 1.52	8.763	3.353	.813 - 1.22
7.950	5.258	.508 - 1.02	8.052	5.207	.254 - .508	8.255	3.175	.381 - .635	8.407	5.994	.381 - .762	8.636	4.801	.305 - .508	8.763	3.429	.813 - 1.22
7.950	5.283	.127 - .254	8.052	5.817	.127 - .254	8.255	3.302	.381 - .635	8.407	6.020	.508 - .762	8.636	4.826	.127 - .254	8.763	3.810	.762 - 1.07
7.950	5.690	.508 - 1.02	8.052	6.096	.635 - .889	8.255	3.404	.127 - .254	8.407	6.452	.127 - .203	8.636	4.851	.635 - 1.27	8.763	4.039	.127 - .254
7.950	5.842	.127 - .381	8.052	7.137	.127 - .254	8.255	3.556	1.02 - 1.52	8.407	7.087	.127 - .254	8.636	4.928	.127 - .254	8.763	4.318	.127 - .254
7.950	5.893	.127 - .381	8.077	2.388	.127 - .254	8.255	3.607	.203 - .457	8.433	4.166	.127 - .254	8.636	4.978	.508 - 1.02	8.763	4.801	.127 - .254
7.950	6.147	.127 - .254	8.077	2.464	.127 - .254	8.255	4.166	.381 - .762	8.433	4.445	1.27 - 1.91	8.636	5.004	.127 - .889	8.763	4.877	.127 - 1.91
7.950	6.426	.508 - .762	8.077	3.175	.254 - .508	8.255	4.293	.127 - .254	8.433	4.877	.406 - .762	8.636	5.182	.914 - 1.27	8.763	4.902	.635 - 1.52
7.950	6.477	.381 - .635	8.077	3.353	.254 - .508	8.255	5.080	.127 - 1.27	8.433	5.156	.254 - .508	8.636	5.258	.762 - 1.27	8.763	5.029	1.02 - 1.52
7.976	.9906	.254 - .508	8.077	3.632	.203 - .508	8.255	5.969	.127 - .254	8.433	5.410	.127 - .203	8.636	5.334	.762 - 1.27	8.763	5.207	.127 - .254
7.976	1.092	.127 - .254	8.077	4.039	.508 - 1.02	8.255	5.994	.635 - 1.02	8.433	5.994	.127 - .762	8.636	5.385	.508 - 1.02	8.763	5.486	.127 - .254
7.976	2.235	.381 - .889	8.077	4.216	.508 - 1.02	8.255	6.198	.381 - .635	8.458	3.124	.508 - 2.03	8.636	5.639	.635 - 1.57	8.763	5.664	.254 - 1.27
7.976	2.616	.635 - 1.14	8.077	4.420	.381 - .762	8.255	6.452	.381 - .635	8.458	4.394	.813 - 1.22	8.636	5.918	1.27 - 1.52	8.763	5.791	.381 - .762
7.976	2.819	.254 - .635	8.077	4.851	.254 - .508	8.255	6.502	.127 - .254	8.458	4.445	.508 - 1.27	8.636	6.096	.762 - 1.27	8.763	6.401	.254 - .508
7.976	2.896	.813 - 1.27	8.077	5.029	.762 - 1.52	8.280	3.505	.127 - .254	8.458	5.385	.508 - .914	8.636	6.528	.254 - .508	8.763	7.010	.381 - .762
7.976	3.099	.635 - 1.22	8.077	5.791	.203 - .406	8.280	3.810	.762 - 1.27	8.458	5.715	.254 - .508	8.636	7.188	.381 - .635	8.763	7.036	.127 - .254
7.976	3.251	.127 - .381	8.077	6.020	.127 - .254	8.280	4.572	.127 - .254	8.458	6.528	.381 - .635	8.661	1.321	.635 - 1.02	8.788	1.118	.381 - .762
7.976	3.531	1.02 - 1.52	8.103	3.556	.381 - .762	8.280	4.597	.127 - .254	8.484	.9906	.381 - .635	8.661	1.549	.127 - .254	8.788	1.168	.635 - 1.02
7.976	3.759	.635 - 1.57	8.103	3.708	.508 - .762	8.280	4.801	1.27 - 1.78	8.484	1.016	.127 - .254	8.661	2.286	1.52 - 2.03	8.788	2.134	.762 - 1.27
7.976	3.861	.889 - 1.27	8.103	4.521	.127 - .254	8.280	4.978	.127 - .254	8.484	1.168	.127 - .254	8.661	2.362	.508 - 1.02	8.788	2.946	.127 - .254
7.976	4.013	1.52 - 2.03	8.103	5.791	.254 - .508	8.280	6.502	.127 - .254	8.484	3.099	.127 - .254	8.661	3.048	.127 - .254	8.788	3.251	1.27 - 1.78
7.976	4.089	1															

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
8.814	6.502	.152 - .406	8.966	4.826	.381 - .762	9.119	4.826	.508 - 1.02	9.271	6.477	.381 - .635	9.398	4.013	.254 - .508	9.449	8.001	.127 - .254
8.814	6.680	.127 - .254	8.966	5.715	.813 - 1.27	9.119	4.953	.762 - 1.27	9.271	6.528	.381 - .762	9.398	4.039	.889 - 1.52	9.474	.9906	.635 - .889
8.814	7.290	.127 - .254	8.966	5.740	.508 - 1.07	9.119	5.182	.254 - .635	9.271	6.731	.107 - 1.57	9.398	4.064	1.78 - 2.03	9.474	1.041	.254 - .508
8.839	4.267	.508 - 1.02	8.966	5.893	.508 - 1.02	9.119	5.334	.635 - 1.07	9.271	6.807	.127 - 1.254	9.398	4.343	.127 - .508	9.474	1.727	.381 - .762
8.839	4.369	.127 - .254	8.966	6.020	.127 - .254	9.119	5.613	.635 - 1.02	9.271	6.858	.508 - 1.02	9.398	4.394	.508 - 1.02	9.474	2.057	1.02 - 1.57
8.839	4.394	.254 - 1.07	8.966	6.147	.381 - .635	9.119	6.096	.127 - .254	9.271	7.798	.127 - .254	9.398	4.572	.508 - .762	9.474	3.226	.127 - .381
8.839	4.420	.127 - .254	8.966	6.452	.127 - .254	9.119	6.528	.254 - .508	9.271	7.925	.127 - .508	9.398	4.801	.508 - 1.02	9.474	3.607	1.57 - 1.98
8.839	5.715	.635 - 1.07	8.966	7.137	.127 - .254	9.119	6.553	.508 - 1.02	9.271	8.001	.127 - .254	9.398	4.851	.127 - .254	9.474	3.988	.508 - 1.02
8.865	3.124	.254 - .508	8.992	1.219	.127 - .254	9.119	6.604	.787 - 1.07	9.296	1.956	.127 - .254	9.398	4.978	.254 - .508	9.474	4.039	.508 - 1.02
8.865	4.343	.381 - .762	8.992	1.321	.762 - 1.27	9.119	6.782	.508 - .813	9.296	3.277	.381 - .635	9.398	5.055	.381 - .635	9.474	4.191	.127 - .381
8.865	4.470	.254 - .381	8.992	1.549	.381 - .635	9.119	7.214	.254 - .508	9.296	4.013	.381 - .762	9.398	5.131	1.52 - 2.03	9.474	4.267	.254 - .508
8.865	4.851	.889 - 1.27	8.992	1.778	.381 - .635	9.119	7.442	.127 - .381	9.296	4.826	1.02 - 1.52	9.398	5.207	.127 - .254	9.474	4.420	.127 - .254
8.865	4.877	.381 - .762	8.992	2.515	.254 - .508	9.144	.9652	.127 - .254	9.296	5.232	.127 - .508	9.398	5.232	.635 - 1.02	9.474	4.445	1.27 - 1.98
8.865	5.004	.508 - .762	8.992	2.896	1.52 - 2.03	9.144	2.032	.127 - .254	9.296	5.537	.406 - .813	9.398	5.359	1.52 - 2.03	9.474	4.801	.762 - 1.27
8.865	5.588	.381 - .762	8.992	3.023	1.02 - 1.52	9.144	2.413	.127 - .254	9.296	5.563	.381 - .762	9.398	5.385	1.02 - 1.27	9.474	4.851	.762 - 1.83
8.865	6.401	.381 - .762	8.992	3.175	.127 - 1.78	9.144	2.591	.381 - .762	9.296	5.715	.508 - 1.02	9.398	5.537	1.02 - 1.52	9.474	4.877	.254 - 1.52
8.865	7.239	.508 - .762	8.992	3.251	.635 - 1.02	9.144	2.921	.762 - 1.02	9.296	6.121	.508 - 1.02	9.398	5.588	.381 - .762	9.474	4.902	.127 - 1.52
8.865	7.366	.127 - .254	8.992	3.658	.762 - 1.27	9.144	3.200	.127 - .254	9.296	6.426	.127 - .381	9.398	6.401	.127 - .254	9.474	4.978	.127 - .254
8.865	7.544	.127 - .254	8.992	3.683	.508 - 1.02	9.144	3.454	.127 - .508	9.296	6.452	.127 - .762	9.398	6.452	.508 - 1.02	9.474	5.080	.127 - .254
8.890	1.524	.127 - .254	8.992	3.734	.508 - .889	9.144	4.166	.508 - .813	9.296	6.807	.762 - 1.27	9.398	6.502	.381 - .762	9.474	5.334	.127 - .254
8.890	2.261	.127 - .254	8.992	3.861	1.52 - 2.03	9.144	4.343	.635 - 1.02	9.296	6.909	.635 - .889	9.398	6.629	.127 - .254	9.474	5.639	.381 - .762
8.890	2.286	.127 - .254	8.992	4.089	.254 - .508	9.144	4.445	.127 - .508	9.296	6.960	.254 - .508	9.398	6.833	1.02 - 1.52	9.474	6.045	.762 - 1.27
8.890	3.073	.254 - .508	8.992	4.115	.254 - .508	9.144	4.496	1.27 - 1.78	9.296	7.468	.127 - .305	9.398	7.620	.508 - .762	9.474	6.426	1.02 - 1.52
8.890	3.099	.127 - .254	8.992	4.521	.254 - .508	9.144	4.699	.127 - .254	9.296	7.747	.406 - .635	9.398	8.382	.127 - .254	9.474	6.502	1.07 - 1.52
8.890	3.912	.127 - .254	8.992	5.182	1.02 - 1.52	9.144	4.724	1.02 - 1.52	9.296	7.925	.381 - .635	9.423	2.515	.508 - 1.02	9.474	6.833	.127 - .254
8.890	4.064	.508 - 1.02	8.992	5.740	.127 - .254	9.144	4.775	.381 - .762	9.322	2.489	.762 - 1.27	9.423	3.277	1.27 - 1.78	9.474	8.052	.254 - .508
8.890	4.242	.381 - .762	8.992	6.020	.254 - .508	9.144	4.826	.762 - 1.27	9.322	2.667	.381 - .635	9.423	3.302	1.27 - 1.91	9.474	8.077	.127 - .254
8.890	4.267	.762 - 1.27	8.992	6.045	.127 - 1.02	9.144	4.877	1.52 - 2.29	9.322	3.175	2.29 - 3.18	9.423	3.327	.508 - .762	9.500	1.245	.127 - .254
8.890	4.343	.127 - .254	8.992	6.223	.127 - .254	9.144	4.902	.127 - .381	9.322	4.470	1.27 - 1.57	9.423	3.810	.127 - .254	9.500	2.108	.914 - 1.27
8.890	4.597	.635 - 1.02	8.992	7.087	.127 - .254	9.144	5.156	.762 - 1.07	9.322	4.724	.127 - .254	9.423	4.470	.127 - .254	9.500	2.515	.127 - .254
8.890	4.928	.127 - .254	8.992	8.001	.127 - .254	9.144	5.258	1.27 - 1.57	9.322	6.553	1.27 - 1.52	9.423	4.674	.254 - .508	9.500	3.048	1.02 - 1.52
8.890	4.953	1.52 - 2.03	9.017	1.778	.381 - .762	9.144	5.842	.254 - .508	9.322	6.604	.381 - .762	9.423	4.953	1.27 - 1.78	9.500	3.302	.254 - .508
8.890	5.156	.813 - 1.07	9.017	2.108	.762 - 1.27	9.144	6.223	.127 - .254	9.322	6.706	.127 - .254	9.423	5.105	1.02 - 1.52	9.500	3.505	.127 - .381
8.890	5.410	.508 - .762	9.017	2.616	1.78 - 2.03	9.144	6.604	.635 - 1.07	9.322	6.909	.508 - 1.02	9.423	5.232	1.52 - 2.11	9.500	3.785	.254 - .381
8.890	5.664	.254 - .508	9.017	3.327	1.27 - 1.98	9.144	7.036	.127 - .254	9.322	6.934	.127 - .254	9.423	5.639	.762 - 1.27	9.500	3.988	.635 - 1.02
8.890	5.867	.381 - .762	9.017	4.013	.635 - 1.07	9.144	7.925	.381 - .635	9.347	1.549	.127 - .254	9.423	5.918	.127 - .254	9.500	4.267	.635 - 1.02
8.890	6.223	1.02 - 1.27	9.017	4.039	1.02 - 1.52	9.169	5.461	.762 - 1.27	9.347	1.600	.127 - .254	9.423	6.223	1.27 - 1.91	9.500	4.369	1.02 - 1.52
8.890	6.401	.127 - .508	9.017	4.064	1.02 - 1.52	9.169	6.172	.635 - 1.02	9.347	2.032	.508 - .762	9.423	6.350	.127 - .813	9.500	4.394	1.02 - 1.52
8.890	6.426	.127 - .254	9.017	4.445	1.02 - 1.52	9.169	7.137	.127 - .254	9.347	3.099	.635 - 1.07	9.423	6.401	.889 - 1.27	9.500	4.445	1.02 - 1.52
8.890	6.477	.635 - 1.02	9.017	4.699	.127 - .254	9.169	7.518	.127 - .254	9.347	3.150	1.02 - 1.27	9.423	6.426	.381 - .762	9.500	4.572	.508 - 2.03
8.890	7.010	.635 - 1.02	9.017	5.029	.762 - 1.27	9.195	3.073	.127 - .254	9.347	3.912	.127 - .254	9.423	6.477	.127 - .305	9.500	4.699	.381 - .762
8.890	7.391	.508 - 1.14	9.017	5.105	.508 - 1.02	9.195	3.632	.381 - .762	9.347	4.039	.127 - .254	9.423	6.502	.127 - .254	9.500	4.851	.127 - 1.52
8.915	1.626	.127 - .254	9.017	5.156	.508 - 1.27	9.195	5.588	.127 - .254	9.347	4.267	.635 - 1.02	9.423	6.604	.127 - .508	9.500	4.928	.127 - .254
8.915	2.311	.762 - 1.27	9.017	5.740	.203 - .406	9.195	5.613	.254 - .508	9.347	4.902	.508 - 1.02	9.423	6.833	.127 - .254	9.500	4.978	.635 - 1.02
8.915	2.388	.127 - .254	9.017	5.842	.127 - .254	9.195	5.969	1.02 - 1.52	9.347	4.928	1.27 - 1.78	9.423	7.137	.508 - .762	9.500	5.055	.127 - .254
8.915	2.464	.127 - .254	9.017	5.994	.127 - .254	9.195	6.274	.381 - .762	9.347	4.953	1.78 - 2.29	9.423	7.188	.254 - .508	9.500	5.080	.127 - .254
8.915	3.302	.127 - .508	9.017	6.477	.254 - .508	9.195	6.528	.762 - 1.27	9.347	5.055	.381 - 1.27	9.423	7.976	.127 - .254	9.500	5.131	.635 - 1.02
8.915	3.683	.127 - .254	9.017	6.604	.762 - 1.02	9.195	6.782	.635 - 1.02	9.347	5.664	1.52 - 2.03	9.449	1.524	.254 - .508	9.500	5.232	.127 - .254
8.915	4.216	.203 - .381	9.017	7.137	.381 - .635	9.195	7.188	.127 - .254	9.347	5.740	.178 - .381	9.449	1.803	.508 - 1.02	9.500	5.613	.254 - .508
8.915	4.343	.127 - .381	9.017	7.163	.127 - .635	9.220	3.861	.127 - .254	9.347	6.502	.127 - .254	9.449	2.108	1.02 - 1.52	9.500	5.639	.127 - .254
8.915	4.674	.127 - .254	9.042	2.819	.635 - 1.02	9.220	4.572	1.27 - 1.78	9.347	6.528	.508 - 1.02	9.449	2.464	1.02 - 1.52	9.500	5.690	.127 - .254
8.915	5.080	.635 - 1.27	9.042	5.029	.762 - 1.52	9.220	4.851	.203 - .406	9.347	6.680	.127 - .254	9.449	2.515	.508 - 1.02	9.500	5.715	.203 - .406
8.915	5.105	.508 - .762	9.042	6.477	.127 - .254	9.220	4.877	.508 - 1.02	9.347	6.731	.127 - .762	9.449	2.692	.635 - 1.02	9.500	5.893	.127 - 1.02
8.915	5.283	.762 - 1.52	9.042	7.163	.635 - 1.02	9.220	6.452	.254 - 1.02	9.347	7.214	.127 - .254	9.449	3.150	.127 - .254	9.500	5.994	1.27 - 1.52
8.915	5.639	.127 - .254	9.068	2.159	.127 - .254	9.220	6.477	.254 - .508	9.347	7.290	.508 - 1.02	9.449	3.886	.635 - 1.07	9.500	6.020	.762 - 1.52
8.915	5.842	1.02 - 1.52	9.068	2.362	.127 - .305	9.220	6.579	.254 - .508	9.347	7.569	.127 - .254	9.449	4.013	.635 - 1.22	9.500	6.401	.127 - 1.02
8.915	6.121	.508 - 1.02	9.068	3.607	.508 - 1.02	9.220	7.264	.635 - .914	9.347	8.204	.127 - .254	9.449	4.115	.508 - 1.02	9.500	6.477	.127 - .254
8.915	6.401	.254 - .508	9.068	3.810	.762 - 1.27	9.220	7.976	.127 - .254	9.373	2.134	.762 - 1.02	9.449	4.166	.381 - .762	9.500	6.528	.635 - 1.52
8.915	6.807	.508 - .762	9.068	4.394	1.78 - 2.29	9.246	3.048	.508 - 1.02	9.373	2.972	.381 - .762	9.449	4.420	.635 - 1.02	9.500	7.112	

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
9.525	3.378	.127 - 1.57	9.550	4.089	.127 - .254	9.601	4.343	.813 - 1.27	9.703	3.353	.635 - 1.02	9.906	4.597	.762 - 1.27	10.01	6.020	.127 - .254
9.525	3.429	.127 - .254	9.550	4.293	.127 - .254	9.601	4.521	.127 - .254	9.703	4.140	.762 - 1.27	9.906	4.699	.127 - .254	10.01	6.071	.635 - 1.02
9.525	3.632	.191 - 2.29	9.550	4.369	.127 - 1.52	9.601	5.080	.254 - .508	9.703	4.445	.381 - .762	9.906	4.953	.508 - 1.27	10.01	6.096	.127 - .635
9.525	3.658	.127 - 1.02	9.550	4.420	1.91 - 2.29	9.601	5.131	.381 - .762	9.703	4.801	1.27 - 1.83	9.906	5.029	.381 - .762	10.01	6.172	.381 - .762
9.525	3.683	.635 - 1.02	9.550	4.496	.508 - .889	9.601	6.198	.127 - .254	9.703	4.953	.127 - .254	9.906	5.105	1.78 - 2.29	10.01	6.375	.127 - 2.03
9.525	3.734	.762 - 1.27	9.550	4.623	.254 - .508	9.601	6.375	.508 - .762	9.703	5.055	.762 - 1.27	9.906	5.512	.381 - .762	10.01	6.477	1.14 - 1.63
9.525	3.759	.762 - 1.27	9.550	4.724	1.52 - 2.03	9.601	6.401	.254 - 1.52	9.703	5.182	.127 - .254	9.906	5.969	1.27 - 2.03	10.01	6.604	1.02 - 1.52
9.525	3.810	.508 - 2.67	9.550	4.750	.762 - 1.27	9.601	6.477	.381 - .635	9.703	5.258	.762 - 1.27	9.906	5.994	.127 - 2.03	10.01	8.103	.127 - .254
9.525	3.861	2.03 - 2.54	9.550	4.801	.127 - .254	9.601	6.553	.508 - .762	9.703	5.715	.762 - 1.27	9.906	6.121	1.52 - 2.03	10.03	2.515	.762 - 1.27
9.525	3.886	.127 - 1.27	9.550	4.826	.508 - 2.03	9.601	6.604	.127 - .254	9.703	6.401	.381 - .635	9.906	6.502	.127 - .254	10.03	4.191	.381 - .762
9.525	3.962	.127 - .305	9.550	4.851	1.02 - 1.52	9.601	6.833	.203 - .406	9.703	7.620	1.22 - 1.57	9.906	6.528	.381 - .762	10.03	4.369	.508 - .889
9.525	4.013	.127 - .254	9.550	4.928	.762 - 1.27	9.601	7.341	.305 - .635	9.703	8.331	.381 - .635	9.906	6.553	.127 - .254	10.03	4.420	.381 - .762
9.525	4.064	.254 - .508	9.550	4.978	.127 - .254	9.601	7.417	.127 - .254	9.728	2.515	.762 - 1.27	9.906	6.604	.127 - .508	10.03	4.445	2.29 - 2.67
9.525	4.089	.508 - 1.02	9.550	5.004	.127 - .254	9.627	3.632	1.27 - 1.78	9.728	2.921	.381 - .762	9.906	6.655	1.02 - 1.52	10.03	4.724	1.78 - 2.29
9.525	4.115	.152 - 2.54	9.550	5.182	.254 - .508	9.627	4.115	.381 - .889	9.728	3.937	.762 - 1.27	9.906	6.756	.635 - 1.02	10.03	4.851	.635 - 2.36
9.525	4.140	.127 - 1.52	9.550	5.207	.127 - .254	9.627	4.140	.508 - .889	9.754	3.226	.508 - .762	9.906	7.214	.127 - .254	10.03	4.953	.127 - .254
9.525	4.191	1.07 - 1.57	9.550	5.512	1.02 - 1.52	9.627	4.166	1.02 - 1.78	9.754	3.658	.762 - 1.27	9.906	7.772	.127 - .254	10.03	5.080	.127 - .254
9.525	4.293	.381 - 1.27	9.550	5.588	.508 - .813	9.627	4.394	.127 - .254	9.754	4.039	.762 - 1.27	9.906	7.976	.635 - 1.02	10.03	5.334	.635 - 1.02
9.525	4.369	.127 - 1.27	9.550	5.639	.127 - .254	9.627	5.029	.127 - .254	9.754	5.436	.762 - 1.27	9.931	2.667	.127 - .254	10.03	5.563	.254 - .508
9.525	4.394	.508 - .762	9.550	5.664	.127 - 1.07	9.627	5.080	.127 - .254	9.754	6.045	.508 - .762	9.931	3.353	3.05 - 3.56	10.03	5.588	.381 - .889
9.525	4.445	.127 - .305	9.550	5.944	.762 - 1.27	9.627	5.613	.127 - .254	9.754	6.883	.381 - .508	9.931	4.140	1.02 - 1.52	10.03	5.715	.254 - .508
9.525	4.496	1.52 - 1.91	9.550	6.198	.813 - 1.27	9.627	6.350	.127 - .254	9.754	7.239	.381 - .762	9.931	4.496	1.02 - 1.52	10.03	5.994	1.02 - 1.52
9.525	4.572	1.52 - 2.03	9.550	6.375	.508 - .813	9.627	6.401	.127 - .254	9.779	3.962	.508 - .813	9.931	5.004	.381 - .762	10.03	6.172	.127 - .381
9.525	4.775	.127 - .762	9.550	6.401	1.02 - 1.27	9.627	6.528	1.02 - 1.57	9.779	4.597	.762 - 1.27	9.931	5.740	.254 - .508	10.03	6.248	.381 - .762
9.525	4.801	2.03 - 2.64	9.550	6.452	.635 - 1.22	9.627	7.544	.762 - 1.07	9.779	4.775	.635 - 1.02	9.931	6.147	.127 - .254	10.03	6.299	1.52 - 1.91
9.525	4.826	2.03 - 2.64	9.550	6.477	1.02 - 1.52	9.652	2.362	.381 - .762	9.779	4.928	1.52 - 2.03	9.931	6.883	.508 - 1.02	10.03	6.375	.508 - .762
9.525	4.851	1.02 - 2.29	9.550	6.604	.127 - .813	9.652	2.413	.381 - .762	9.779	6.071	.127 - .254	9.931	7.239	.508 - .889	10.03	7.036	1.02 - 1.27
9.525	4.877	.127 - 2.29	9.550	6.629	.254 - .508	9.652	2.438	1.52 - 2.03	9.779	6.121	.762 - 1.78	9.931	7.772	.127 - .254	10.03	7.112	1.02 - 1.52
9.525	4.902	.127 - .381	9.550	6.680	.127 - .508	9.652	2.464	1.02 - 1.52	9.779	6.325	.635 - 1.22	9.931	7.798	.254 - .508	10.03	7.214	.127 - 1.22
9.525	4.928	1.02 - 1.52	9.550	6.833	.127 - .254	9.652	2.946	.127 - .254	9.779	6.401	.127 - .305	9.931	7.976	.381 - .508	10.03	7.468	.914 - 1.27
9.525	4.953	.127 - 1.07	9.550	6.883	.254 - 1.02	9.652	3.200	.762 - 1.27	9.779	6.604	.127 - .254	9.931	8.839	.127 - .254	10.03	8.179	.127 - .254
9.525	4.978	.127 - 1.52	9.550	7.010	1.02 - 1.52	9.652	3.759	.635 - 1.02	9.779	6.655	1.27 - 1.52	9.957	3.277	.635 - 1.02	10.03	8.585	.127 - .254
9.525	5.080	1.02 - 1.52	9.550	7.645	.127 - .254	9.652	3.785	2.03 - 2.54	9.779	7.366	.254 - .508	9.957	4.826	.127 - .254	10.06	1.397	.254 - .508
9.525	5.131	.254 - .813	9.550	8.026	.127 - .254	9.652	4.115	1.02 - 1.52	9.779	7.645	.127 - .254	9.957	5.258	.381 - .762	10.06	3.835	1.02 - 1.52
9.525	5.156	.381 - 1.52	9.576	.7874	.127 - .254	9.652	4.394	.127 - .254	9.804	3.073	.762 - 1.27	9.957	5.563	.127 - .254	10.06	4.928	.254 - .381
9.525	5.182	1.52 - 2.03	9.576	.8890	.381 - .635	9.652	4.445	.381 - 2.29	9.804	3.302	.508 - .762	9.957	7.112	.889 - 1.27	10.06	5.156	.508 - 1.02
9.525	5.207	.203 - .381	9.576	1.194	.762 - 1.07	9.652	4.572	.127 - .254	9.804	3.581	.254 - .508	9.957	8.331	.127 - .254	10.06	5.613	.127 - .381
9.525	5.309	.635 - 1.57	9.576	1.727	.762 - 1.07	9.652	4.724	.381 - 1.02	9.804	4.115	1.27 - 1.57	9.957	8.560	.127 - .254	10.06	6.579	.762 - 1.27
9.525	5.359	.254 - .508	9.576	1.803	.127 - .254	9.652	4.826	.127 - .254	9.804	4.597	1.02 - 1.52	9.982	1.067	.127 - .254	10.06	6.604	.762 - 1.27
9.525	5.410	.381 - .635	9.576	2.540	.381 - .762	9.652	4.851	.508 - 1.02	9.804	5.715	.508 - 1.02	9.982	2.616	.254 - .508	10.06	7.036	.508 - 1.02
9.525	5.537	1.52 - 2.03	9.576	2.565	.508 - .762	9.652	4.877	.127 - .254	9.804	6.020	1.02 - 1.27	9.982	2.819	.635 - 1.02	10.06	7.061	.508 - 1.02
9.525	5.588	.127 - .254	9.576	2.794	.508 - .762	9.652	4.928	.127 - .254	9.804	6.350	.381 - 1.02	9.982	3.048	.127 - .254	10.06	7.239	.635 - 1.07
9.525	5.664	1.27 - 1.78	9.576	2.896	.508 - 1.02	9.652	4.953	.127 - .635	9.804	7.645	.508 - 1.02	9.982	4.013	.127 - .508	10.06	8.077	.127 - .254
9.525	5.715	1.27 - 1.78	9.576	2.921	.127 - .254	9.652	5.182	.305 - .635	9.804	7.950	.508 - .762	9.982	4.978	1.02 - 1.27	10.06	8.458	.127 - .762
9.525	5.740	.381 - .762	9.576	3.404	.381 - .762	9.652	5.461	.762 - 1.27	9.830	2.311	.762 - 1.27	9.982	5.105	.762 - 1.27	10.06	8.585	.127 - .203
9.525	5.969	.254 - .508	9.576	3.556	.127 - .254	9.652	5.740	.127 - .254	9.830	2.997	.508 - .762	9.982	5.309	.127 - .254	10.08	6.350	.127 - .254
9.525	6.020	.127 - 1.91	9.576	3.683	1.27 - 1.52	9.652	6.147	.381 - .762	9.830	4.343	1.52 - 2.29	9.982	5.436	.127 - .254	10.08	.8128	.127 - .254
9.525	6.045	.127 - .762	9.576	3.734	.254 - .508	9.652	6.477	.127 - .254	9.830	4.801	.813 - 1.22	9.982	5.512	.762 - 1.27	10.08	2.667	.203 - .406
9.525	6.223	1.27 - 1.52	9.576	3.962	.762 - 1.52	9.652	6.655	.127 - .254	9.830	6.553	.508 - 1.02	9.982	5.842	.635 - 1.02	10.08	2.769	.127 - .381
9.525	6.299	.254 - .508	9.576	3.988	1.78 - 2.29	9.652	6.706	.635 - 1.02	9.830	7.112	.127 - .254	9.982	6.020	.127 - .254	10.08	3.886	.635 - 1.02
9.525	6.350	.127 - 1.52	9.576	4.166	.127 - .254	9.652	7.010	.127 - .254	9.830	8.077	.203 - .508	9.982	6.071	.127 - .254	10.08	4.470	.127 - .254
9.525	6.401	.127 - .381	9.576	4.191	.508 - .762	9.652	7.036	.254 - .508	9.830	8.331	.254 - .508	9.982	6.096	.127 - 1.27	10.08	4.648	.254 - .508
9.525	6.426	.127 - .635	9.576	4.343	.635 - 1.02	9.652	7.112	.762 - 1.02	9.855	2.286	.381 - .635	9.982	6.502	.508 - 1.02	10.08	4.978	.254 - .381
9.525	6.452	.127 - 1.02	9.576	4.394	.762 - 1.27	9.652	7.239	.813 - 1.27	9.855	3.226	.203 - .508	9.982	7.036	.127 - .254	10.08	5.385	.127 - .381
9.525	6.477	.508 - .762	9.576	4.623	.635 - 1.22	9.677	2.388	.127 - .254	9.855	3.454	.127 - .254	9.982	7.087	.127 - .254	10.08	5.867	.127 - .254
9.525	6.528	.635 - 1.02	9.576	4.699	.254 - .508	9.677	2.515	.635 - 1.02	9.855	4.343	1.91 - 2.29	9.982	7.239	.254 - .508	10.08	6.350	.127 - .254
9.525	6.553	.254 - .508	9.576	4.801	.762 - 1.52	9.677	2.896	.127 - .254	9.855	5.207	.635 - 1.02	9.982	7.290	.127 - .381	10.08	6.477	1.78 - 2.29
9.525	6.782	.508 - .762	9.576	4.826	.381 - .762	9.677	2.946	.127 - .254	9.855	5.359	.127 - .254	9.982	7.976	.635 - .889	10.08	6.782	.508 - 1.02
9.525	6.960	.254 - .508	9.576	4.851	.635 - 1.02	9.677	3.150	.127 - .305	9.855	5.461	1.02 - 1.52	9.982	8.001	.127 - .254			

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
10.13	9.195	.127 - .254	10.26	5.004	.127 - .254	10.36	4.369	.127 - .381	10.54	7.239	.381 - .635	10.74	7.061	.635 - 1.27	10.92	4.089	.254 - .508
10.16	1.676	.635 - 1.22	10.26	5.334	.762 - 1.27	10.36	4.394	.127 - .254	10.54	7.950	.254 - .508	10.74	7.976	.254 - .508	10.92	4.445	.381 - .762
10.16	2.311	.127 - .254	10.26	5.537	.127 - .254	10.36	4.928	1.02 - 1.52	10.54	8.230	.635 - .889	10.74	8.103	.381 - .635	10.92	4.572	.508 - 1.02
10.16	3.023	.127 - .254	10.26	5.588	.635 - 1.02	10.36	5.131	.762 - 1.02	10.57	3.073	.127 - .254	10.74	8.331	.762 - 1.07	10.92	4.699	.508 - 1.02
10.16	3.150	.127 - .254	10.26	5.690	.127 - .254	10.36	6.096	.508 - 1.02	10.57	3.251	1.02 - 1.52	10.74	8.763	.254 - .508	10.92	4.750	.127 - .254
10.16	3.327	.508 - .762	10.26	6.248	.127 - .254	10.36	6.629	.127 - .381	10.57	4.064	.127 - .254	10.77	3.531	.762 - 1.27	10.92	4.801	.762 - 1.27
10.16	3.531	.508 - .889	10.26	6.401	.127 - .254	10.36	7.544	.254 - .508	10.57	4.572	.508 - .762	10.77	4.293	.127 - .762	10.92	4.826	.508 - 1.02
10.16	3.607	.127 - .254	10.26	6.604	.381 - .635	10.39	3.277	.381 - .762	10.57	5.207	1.57 - 2.03	10.77	4.826	.127 - .508	10.92	4.851	.508 - 2.03
10.16	3.734	.635 - 1.22	10.26	6.731	.381 - .762	10.39	4.242	.381 - .635	10.57	5.537	.254 - .508	10.77	4.978	1.02 - 1.52	10.92	5.080	1.78 - 2.29
10.16	3.835	.254 - 1.52	10.26	7.112	1.52 - 2.03	10.39	4.369	.508 - 1.02	10.57	6.121	.203 - .508	10.77	5.842	.381 - .635	10.92	5.232	2.03 - 2.54
10.16	3.886	.127 - .254	10.26	7.950	.127 - .305	10.39	4.928	.889 - 1.27	10.57	6.375	.635 - 1.02	10.77	8.103	.127 - .254	10.92	5.461	.813 - 1.07
10.16	4.267	1.07 - 1.57	10.26	8.128	.127 - .508	10.39	5.334	1.52 - 2.11	10.57	6.604	.635 - 1.02	10.77	8.255	.127 - .254	10.92	5.588	.381 - .889
10.16	4.369	.127 - .254	10.29	2.515	.127 - .254	10.39	6.198	.762 - 1.02	10.59	6.375	1.22 - 1.57	10.80	3.505	.762 - 1.27	10.92	5.842	.127 - .254
10.16	4.394	.762 - 1.27	10.29	2.718	.127 - .254	10.39	7.950	.381 - .762	10.59	7.010	.127 - .254	10.80	3.734	.508 - .762	10.92	6.553	.508 - 1.02
10.16	4.623	.406 - .813	10.29	2.743	.762 - 1.27	10.39	8.179	.381 - .762	10.59	9.042	.254 - .508	10.80	4.191	.381 - .762	10.92	6.731	.127 - 2.03
10.16	4.877	.127 - 1.52	10.29	3.480	.127 - .254	10.41	1.600	.127 - .254	10.62	3.785	1.27 - 1.78	10.80	4.851	1.52 - 2.03	10.92	7.087	.127 - .254
10.16	5.029	.381 - 1.27	10.29	3.962	1.02 - 1.52	10.41	2.591	.127 - .254	10.62	4.826	.635 - 1.27	10.80	5.004	.127 - .254	10.92	7.239	.508 - .762
10.16	5.080	.381 - .635	10.29	4.115	.381 - .635	10.41	4.724	.127 - .254	10.62	5.232	.254 - .381	10.80	5.385	.127 - .254	10.92	7.823	.254 - .508
10.16	5.131	.127 - .254	10.29	4.267	.127 - .254	10.41	4.775	.762 - 1.02	10.62	6.375	.762 - 1.02	10.80	6.350	.381 - .762	10.92	7.976	.762 - 1.27
10.16	5.156	.127 - .254	10.29	4.445	1.02 - 1.52	10.41	5.105	.127 - 2.67	10.62	6.528	.635 - 1.02	10.80	6.502	1.27 - 1.78	10.92	8.611	.127 - .254
10.16	5.232	1.27 - 1.78	10.29	4.674	.127 - .254	10.41	5.334	1.02 - 1.52	10.62	7.341	.508 - .762	10.80	6.629	1.27 - 1.57	10.92	8.712	.381 - .762
10.16	5.334	.127 - .508	10.29	5.105	.127 - .254	10.41	5.588	.635 - 1.02	10.62	8.001	.889 - 1.27	10.80	7.214	.762 - 1.27	10.92	9.246	.127 - .254
10.16	5.486	.127 - .254	10.29	5.131	.508 - 1.83	10.41	5.664	.254 - .508	10.64	3.175	1.27 - 1.83	10.80	8.052	.381 - .762	10.92	9.449	.127 - .508
10.16	5.715	1.27 - 1.78	10.29	5.182	1.27 - 1.52	10.41	6.452	.127 - .254	10.64	3.759	1.57 - 2.29	10.80	8.077	.127 - .254	10.92	9.550	.127 - .254
10.16	6.096	.381 - .508	10.29	6.172	.254 - .381	10.41	6.502	.762 - 1.07	10.64	4.394	2.03 - 2.64	10.80	8.103	1.02 - 1.27	10.92	9.627	.381 - .508
10.16	6.401	.127 - .254	10.29	6.350	.508 - .762	10.41	6.629	.127 - .254	10.64	5.690	1.02 - 1.52	10.80	8.280	.508 - .762	10.95	1.016	.127 - .254
10.16	6.426	.254 - .508	10.29	6.401	.762 - 1.27	10.41	7.620	.127 - .254	10.64	6.604	.254 - .508	10.80	8.534	.508 - .762	10.95	3.200	.889 - 1.27
10.16	6.452	.254 - .508	10.29	6.426	.635 - 1.02	10.41	7.772	.381 - .762	10.64	7.518	.508 - 1.02	10.80	8.712	.508 - 1.02	10.95	3.226	.635 - 1.02
10.16	6.477	.127 - .762	10.29	6.528	.127 - 1.02	10.41	7.976	.127 - .254	10.64	7.696	.127 - .254	10.80	8.738	.127 - .254	10.95	3.988	.635 - 1.02
10.16	6.604	.127 - .254	10.29	6.629	.254 - .508	10.41	8.052	.508 - .889	10.64	7.950	.508 - 1.02	10.80	8.763	.127 - .254	10.95	4.013	.127 - .254
10.16	6.807	.762 - 1.27	10.29	7.010	.635 - 1.22	10.41	9.093	.508 - .762	10.64	8.357	.127 - .635	10.82	3.556	.381 - .762	10.95	4.953	.127 - .254
10.16	6.934	.635 - 1.02	10.29	7.087	1.27 - 1.52	10.44	2.311	.127 - .254	10.64	8.763	.127 - .254	10.82	4.750	.127 - .254	10.95	5.004	.508 - .762
10.16	7.264	.762 - 1.02	10.29	7.696	.381 - .635	10.44	2.413	.127 - .254	10.67	2.413	.127 - .254	10.82	5.461	.127 - .381	10.95	5.969	.127 - .305
10.16	7.315	.381 - .762	10.31	2.388	.127 - .254	10.44	3.226	.508 - 1.02	10.67	3.277	.508 - .762	10.82	5.486	1.78 - 2.29	10.95	6.045	.762 - 1.52
10.16	7.976	.635 - 1.02	10.31	3.048	.813 - 1.22	10.44	5.715	.127 - .254	10.67	4.318	.381 - .762	10.82	5.563	.127 - .254	10.95	6.579	.127 - .762
10.16	8.814	.127 - .254	10.31	3.150	.508 - 1.02	10.44	6.553	.508 - 1.27	10.67	4.547	.127 - .254	10.82	5.715	.254 - .508	10.95	7.468	.381 - .635
10.16	9.144	.127 - .254	10.31	3.226	.635 - 1.02	10.44	7.417	.254 - .508	10.67	4.902	.127 - .254	10.82	5.944	.635 - 1.02	10.97	2.032	.127 - .254
10.19	2.591	.127 - .254	10.31	3.251	.381 - .762	10.44	7.874	.254 - .508	10.67	5.182	.762 - 1.27	10.82	6.502	1.02 - 1.52	10.97	2.972	.762 - 1.27
10.19	3.073	.762 - 1.27	10.31	3.556	.635 - 1.07	10.44	7.976	.762 - 1.27	10.67	5.944	.127 - .254	10.82	6.528	1.27 - 1.91	10.97	2.997	.381 - .762
10.19	3.175	.762 - 2.67	10.31	3.937	1.27 - 1.91	10.44	8.001	.127 - .508	10.67	6.045	.508 - .762	10.82	6.858	1.27 - 1.78	10.97	3.048	.381 - .762
10.19	3.251	.635 - 1.02	10.31	4.089	1.27 - 1.91	10.46	3.454	.178 - .381	10.67	6.121	.127 - .254	10.82	6.909	.127 - .254	10.97	3.099	.762 - 1.27
10.19	3.302	.127 - .254	10.31	4.318	.254 - .635	10.46	4.089	.762 - 1.27	10.67	6.375	.762 - 1.02	10.82	7.976	.127 - .254	10.97	3.175	.813 - 1.57
10.19	4.191	.127 - .254	10.31	4.343	1.22 - 1.83	10.46	4.826	.127 - 1.78	10.67	6.452	.152 - .305	10.82	8.128	.254 - .508	10.97	3.302	.254 - .508
10.19	4.293	.787 - 1.22	10.31	4.801	.305 - .508	10.46	4.978	.127 - .381	10.67	6.553	.127 - .254	10.82	8.763	.254 - .508	10.97	3.378	1.27 - 2.29
10.19	4.343	.127 - .254	10.31	4.826	.127 - .254	10.46	5.359	.127 - .254	10.67	7.087	.127 - .406	10.82	8.992	.381 - .635	10.97	3.429	1.02 - 1.52
10.19	5.131	.508 - 1.52	10.31	5.105	1.27 - 1.78	10.46	5.537	.254 - .508	10.67	7.112	.254 - .635	10.85	2.718	.254 - .508	10.97	4.750	.127 - .254
10.19	5.563	.508 - 1.02	10.31	5.156	.127 - .254	10.46	5.639	.254 - .508	10.67	7.899	.127 - .254	10.85	3.404	.762 - 1.27	10.97	5.055	.127 - .254
10.19	5.613	1.52 - 1.91	10.31	5.182	.762 - 1.27	10.46	5.867	1.52 - 2.03	10.67	7.976	.762 - 1.27	10.85	5.410	.762 - 1.27	10.97	6.604	2.03 - 2.54
10.19	6.020	.889 - 1.27	10.31	5.309	.762 - 1.27	10.46	5.994	.127 - .254	10.67	8.103	.127 - .254	10.85	5.842	.254 - .508	10.97	6.680	.381 - .635
10.19	6.121	.762 - 1.27	10.31	5.537	.635 - 1.02	10.46	6.121	.127 - .254	10.69	1.473	.127 - .254	10.85	5.918	1.27 - 1.78	10.97	7.544	.127 - .254
10.19	6.375	.635 - 1.02	10.31	5.588	.635 - 1.07	10.46	7.366	1.02 - 1.52	10.69	3.073	.127 - .254	10.85	6.604	.127 - .254	10.97	7.950	.508 - 1.22
10.19	6.553	.381 - .635	10.31	5.613	.254 - .508	10.46	8.280	.254 - 1.02	10.69	4.521	.508 - 1.02	10.85	6.731	.381 - .762	10.97	8.001	.127 - .254
10.19	6.680	.127 - .254	10.31	5.690	.127 - .254	10.49	4.293	.127 - .254	10.69	5.182	.508 - 1.02	10.85	7.087	1.02 - 1.52	10.97	8.026	1.02 - 1.52
10.19	7.569	.127 - .254	10.31	6.147	1.57 - 2.03	10.49	4.750	.254 - .508	10.69	5.309	.127 - .254	10.85	8.255	.381 - .762	10.97	8.052	.127 - .254
10.19	7.976	.254 - .508	10.31	6.350	.508 - .889	10.49	5.385	.254 - .508	10.69	5.944	.635 - 1.02	10.85	8.814	.127 - .254	10.97	8.103	.762 - 1.27
10.19	8.331	.127 - .762	10.31	6.401	1.27 - 1.78	10.49	5.639	1.07 - 1.83	10.69	6.375	.381 - .762	10.87	.8636	.406 - .635	10.97	9.042	.381 - .635
10.21	2.515	.381 - .635	10.31	6.528	.635 - 1.07	10.49	5.664	.127 - .254	10.69	6.401	.127 - .254	10.87	2.565	.254 - .508	10.97	9.246	.127 - .254
10.21	3.683	.381 - 1.52	10.31	6.604	.127 - .254	10.49	5.817	.127 - .254	10.69	6.807	.635 - 1.02	10.87	3.353	.127 - .254	11.00	1.067	.787 - 1.22
10.21	3.988	.127 - .254	10.31	6.655	.635 - 1.02	10.49	6.833	.127 - .254	10.69	7.087	.127 - .254	10.87	3.632	1.27 - 1.78	11.00	1.321	.381 - .762

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

O.D.	I.D.	Choose Any Thickness* To	O.D.	I.D.	Choose Any Thickness* To	O.D.	I.D.	Choose Any Thickness* To	O.D.	I.D.	Choose Any Thickness* To	O.D.	I.D.	Choose Any Thickness* To	O.D.	I.D.	Choose Any Thickness* To
11.00	8.814	.381 - .762	11.07	10.08	.127 - .254	11.13	4.115	.762 - 1.52	11.18	5.334	.254 - .508	11.33	3.835	1.57 - 2.29	11.43	8.890	.381 - .635
11.00	8.839	.762 - 1.02	11.10	.9906	.127 - .254	11.13	4.293	.127 - .254	11.18	5.359	.127 - .254	11.33	4.115	.127 - .254	11.43	9.347	.254 - .508
11.00	8.915	.381 - .762	11.10	2.438	.381 - .635	11.13	4.902	.127 - 1.78	11.18	5.512	1.78 - 2.29	11.33	4.343	1.02 - 1.52	11.43	9.398	.381 - .762
11.02	1.092	.127 - .254	11.10	3.048	1.02 - 1.52	11.13	4.953	.762 - 1.02	11.18	5.537	.127 - .508	11.33	5.004	.254 - .508	11.43	9.525	.635 - 1.07
11.02	2.007	.762 - 1.27	11.10	3.175	.127 - .381	11.13	4.978	.127 - .508	11.18	5.791	.381 - 1.02	11.33	5.283	1.27 - 1.78	11.46	3.708	.508 - .762
11.02	2.388	1.02 - 1.52	11.10	3.200	.635 - 1.27	11.13	5.029	.635 - .889	11.18	6.020	1.27 - 1.91	11.33	6.502	.127 - .254	11.46	4.775	.508 - .762
11.02	2.616	1.02 - 1.52	11.10	3.226	.381 - 1.52	11.13	5.080	.127 - 2.29	11.18	6.223	.127 - .254	11.33	6.858	.127 - 1.02	11.46	6.121	.635 - 1.02
11.02	4.064	2.29 - 3.18	11.10	3.251	.762 - 1.27	11.13	5.105	.635 - 1.27	11.18	6.350	.127 - .254	11.33	7.798	.762 - 1.27	11.46	6.782	.762 - 1.27
11.02	4.470	.508 - 1.02	11.10	3.277	.254 - 1.07	11.13	5.131	.508 - 1.02	11.18	6.401	.254 - .635	11.33	8.103	.813 - 1.52	11.46	6.960	.127 - .254
11.02	4.750	.127 - .254	11.10	3.302	.635 - 1.07	11.13	5.156	1.91 - 2.29	11.18	6.426	.127 - .254	11.33	8.255	.813 - 1.52	11.46	8.001	1.02 - 1.57
11.02	4.978	.127 - .254	11.10	3.378	1.27 - 1.57	11.13	5.207	1.78 - 2.29	11.18	6.604	.254 - 1.78	11.35	3.226	.508 - 1.02	11.46	8.052	.127 - .254
11.02	5.029	.127 - .254	11.10	3.581	1.22 - 1.83	11.13	5.232	.508 - .762	11.18	6.731	.127 - .254	11.35	3.708	.508 - 1.02	11.46	8.484	.508 - .762
11.02	5.690	.127 - .254	11.10	3.607	1.02 - 1.52	11.13	5.258	.127 - .254	11.18	6.985	.508 - 1.14	11.35	4.928	.762 - 1.27	11.46	8.738	.762 - 1.27
11.02	5.994	.813 - 1.57	11.10	3.632	1.02 - 1.52	11.13	5.334	1.07 - 1.52	11.18	7.188	1.02 - 1.57	11.35	5.131	.635 - 1.02	11.46	8.966	.254 - .508
11.02	6.198	1.02 - 1.27	11.10	3.658	.635 - .889	11.13	5.486	.127 - 2.54	11.18	7.391	.508 - 1.02	11.35	5.664	.635 - 1.27	11.46	9.601	.508 - .762
11.02	6.426	.127 - .254	11.10	3.734	.508 - 1.02	11.13	5.893	.889 - 1.27	11.18	7.722	.762 - 1.27	11.35	5.842	.635 - 1.02	11.46	10.03	.127 - .254
11.02	6.477	.127 - .254	11.10	3.810	.254 - .508	11.13	5.994	.127 - .254	11.18	7.976	1.02 - 1.52	11.35	5.994	.127 - .254	11.48	.9144	.254 - .508
11.02	6.883	1.27 - 1.78	11.10	3.988	.381 - .762	11.13	6.274	.127 - .254	11.18	8.026	.508 - 1.27	11.35	6.350	.508 - 1.02	11.48	2.591	.381 - .762
11.02	7.163	.127 - .254	11.10	4.013	.127 - .254	11.13	6.325	.127 - 1.91	11.18	8.331	1.02 - 1.52	11.35	6.452	.254 - .508	11.48	6.350	1.02 - 1.52
11.02	7.264	.508 - .762	11.10	4.216	.254 - 1.27	11.13	6.477	.127 - .762	11.18	9.017	.381 - .635	11.35	6.858	.508 - .762	11.48	6.528	.254 - .508
11.02	8.001	.127 - .254	11.10	4.293	.203 - .406	11.13	6.502	.635 - 1.27	11.18	9.677	.254 - .508	11.35	7.950	.381 - .635	11.48	7.214	.127 - .254
11.02	8.026	.381 - 1.02	11.10	4.343	.762 - 1.27	11.13	6.528	.762 - 1.27	11.18	9.906	.127 - .254	11.35	8.560	.127 - .254	11.48	8.331	1.02 - 1.52
11.02	8.077	.127 - .254	11.10	4.648	1.27 - 1.57	11.13	6.553	.127 - .254	11.20	1.067	.254 - .508	11.35	9.525	.508 - .914	11.51	5.994	.762 - 1.27
11.02	8.128	.127 - .254	11.10	4.851	.254 - 2.64	11.13	6.579	.127 - .254	11.20	2.362	.127 - .508	11.35	9.652	.381 - .762	11.51	6.172	.508 - .762
11.02	8.382	.762 - 1.27	11.10	4.877	1.27 - 1.91	11.13	6.655	.762 - 1.27	11.20	3.632	.127 - .508	11.38	2.388	.127 - .254	11.51	6.985	.254 - .508
11.02	8.890	.635 - .889	11.10	4.928	.508 - 2.64	11.13	6.731	.762 - 1.52	11.20	3.835	.762 - 1.27	11.38	3.531	.762 - 1.02	11.51	7.620	.762 - 1.27
11.05	1.626	.889 - 1.57	11.10	5.004	1.02 - 3.18	11.13	6.756	.381 - .762	11.20	4.267	.762 - 1.27	11.38	4.597	.152 - .305	11.51	8.382	.787 - 1.22
11.05	1.702	.508 - 1.02	11.10	5.029	.127 - .254	11.13	6.960	.381 - .762	11.20	4.369	1.57 - 2.11	11.38	4.801	.127 - .254	11.51	8.992	1.02 - 1.52
11.05	1.956	.127 - .254	11.10	5.055	.381 - .813	11.13	7.010	.762 - 1.27	11.20	4.826	.127 - .254	11.38	4.851	.762 - 1.22	11.51	9.601	.787 - 1.07
11.05	2.032	.305 - .635	11.10	5.182	.508 - .762	11.13	7.137	1.52 - 2.03	11.20	5.029	.127 - .762	11.38	5.156	.381 - .762	11.51	10.11	.254 - .508
11.05	2.083	.762 - 1.27	11.10	5.207	.508 - .889	11.13	7.163	.127 - 1.91	11.20	5.690	1.27 - 1.91	11.38	5.207	.762 - 1.52	11.53	2.718	.127 - .254
11.05	2.845	.178 - .305	11.10	5.461	.508 - 1.02	11.13	7.214	1.27 - 1.91	11.20	6.147	.508 - .762	11.38	5.461	.508 - 1.02	11.53	3.454	.762 - 1.27
11.05	3.454	2.29 - 2.67	11.10	5.512	1.52 - 2.03	11.13	7.544	.381 - .635	11.20	6.452	.508 - 1.02	11.38	5.664	.635 - 1.02	11.53	4.902	1.78 - 2.29
11.05	3.785	1.52 - 2.11	11.10	5.537	.381 - 1.57	11.13	7.950	.762 - 1.52	11.20	6.477	.127 - .254	11.38	6.223	.127 - .508	11.53	5.791	.127 - .254
11.05	4.064	.254 - .508	11.10	5.563	.203 - .406	11.13	8.001	.254 - .508	11.20	6.528	.508 - 1.22	11.38	6.299	.254 - .508	11.53	8.128	.635 - 1.02
11.05	4.216	2.29 - 2.67	11.10	5.588	1.02 - 1.52	11.13	8.026	.127 - .254	11.20	6.553	.762 - 1.27	11.38	6.375	.813 - 1.52	11.53	9.042	.508 - .762
11.05	4.420	.635 - 1.02	11.10	5.639	.127 - .254	11.13	8.179	.254 - .508	11.20	6.756	1.07 - 1.83	11.38	6.883	.762 - 1.27	11.53	9.906	.127 - .254
11.05	4.521	2.67 - 3.18	11.10	5.715	.813 - 1.57	11.13	8.204	.635 - 1.02	11.20	6.858	.635 - 1.02	11.38	7.925	.127 - .254	11.53	10.69	.127 - .254
11.05	4.623	1.52 - 2.11	11.10	5.791	1.27 - 1.78	11.13	8.255	.127 - .254	11.20	6.934	.127 - .254	11.38	8.204	.254 - .508	11.56	2.032	.127 - .254
11.05	4.826	1.78 - 2.29	11.10	5.893	.762 - 1.07	11.13	8.331	.254 - .508	11.20	8.026	1.02 - 1.52	11.38	8.407	.254 - .508	11.56	3.683	.127 - .254
11.05	4.851	.127 - .254	11.10	6.045	.152 - .406	11.13	8.509	.127 - .254	11.20	8.103	.127 - .254	11.38	9.322	.889 - 1.27	11.56	4.724	.635 - 1.02
11.05	5.029	.127 - 1.83	11.10	6.223	.508 - 1.02	11.13	8.560	.635 - 1.02	11.20	8.128	.127 - .203	11.38	9.347	.762 - 1.02	11.56	4.750	.635 - .889
11.05	5.080	1.27 - 1.91	11.10	6.375	.254 - .381	11.13	8.611	.635 - 1.02	11.23	3.912	.762 - 1.02	11.38	9.576	.127 - .254	11.56	4.953	.381 - .762
11.05	5.156	.127 - .203	11.10	6.401	.254 - .508	11.13	9.271	.127 - .381	11.23	4.953	.127 - .254	11.40	6.579	.127 - .254	11.56	5.969	.508 - .762
11.05	5.436	1.02 - 1.57	11.10	6.426	.889 - 1.27	11.13	9.677	.508 - .762	11.23	6.604	.254 - .508	11.40	8.915	.127 - .254	11.56	6.528	.508 - .813
11.05	5.664	.635 - 1.27	11.10	6.452	.127 - 1.27	11.13	9.754	.381 - .762	11.23	7.264	.127 - .254	11.40	10.46	.127 - .254	11.56	6.629	.178 - .406
11.05	6.020	.381 - .762	11.10	6.477	.254 - .508	11.15	2.997	.762 - 1.27	11.23	8.052	1.02 - 1.52	11.43	1.575	.762 - 1.27	11.56	6.731	.381 - .762
11.05	6.350	.381 - .762	11.10	6.528	.203 - .406	11.15	3.581	.254 - .508	11.25	4.826	.635 - 1.02	11.43	1.651	.152 - .381	11.56	7.671	.381 - .762
11.05	6.401	.381 - .762	11.10	6.553	.635 - 1.78	11.15	4.191	.635 - 1.02	11.25	4.851	.635 - 1.02	11.43	2.261	.762 - 1.27	11.56	8.966	.254 - .508
11.05	6.452	.127 - .203	11.10	6.579	1.27 - 1.78	11.15	4.394	.762 - 1.27	11.25	5.664	.127 - .254	11.43	2.896	.381 - .762	11.56	9.728	.635 - 1.02
11.05	6.528	.635 - 1.02	11.10	6.604	.254 - .635	11.15	4.420	.127 - 1.27	11.25	5.690	1.02 - 1.52	11.43	3.048	.254 - .381	11.58	1.880	.127 - .254
11.05	6.629	.635 - 1.14	11.10	6.629	.127 - .254	11.15	4.699	2.29 - 2.67	11.25	7.061	.508 - 1.02	11.43	3.505	.127 - .381	11.58	3.886	.635 - 1.02
11.05	6.782	.254 - .508	11.10	6.655	.762 - 1.07	11.15	4.801	.254 - 1.91	11.25	7.493	.406 - .635	11.43	3.632	.127 - .254	11.58	4.013	.508 - 1.02
11.05	6.807	.254 - .508	11.10	6.731	.127 - .305	11.15	4.826	1.52 - 2.03	11.25	8.534	1.02 - 1.52	11.43	4.115	1.27 - 1.91	11.58	4.801	.762 - 1.02
11.05	7.214	1.02 - 1.83	11.10	6.985	.508 - 1.02	11.15	4.877	.127 - .254	11.28	4.191	.127 - .254	11.43	4.420	.635 - 1.02	11.58	4.826	.635 - 1.57
11.05	7.366	.635 - 1.27	11.10	7.137	1.07 - 1.57	11.15	5.156	1.02 - 2.29	11.28	4.420	.762 - 1.27	11.43	4.623	.127 - .254	11.58	4.928	1.02 - 1.57
11.05	7.518	.127 - .254	11.10	7.214	.381 - .762	11.15	5.258	1.02 - 1.52	11.28	4.978	.381 - .762	11.43	4.699	1.02 - 1.27	11.58	5.613	.127 - .254
11.05	7.747	.127 - .254	11.10	7.290	.254 - .508	11.15	6.375	1.52 - 2.03	11.28	5.588	.762 - 1.27	11.43	4.877	.127 - .254	11.58	5.969	.127 - .254
11.05	8.153	.762 - 1.27	11.10	7.671	.127 - .305	11.15	6.401	1.52 - 2.03	11.28	8.077	.762 - 1.27	11.43</					

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
11.68	1.016	.254 - .508	11.84	4.851	.508 - 1.14	11.94	5.715	.762 - 1.27	11.99	9.627	.127 - .254	12.14	8.026	.635 - 1.02	12.29	7.950	1.27 - 1.83
11.68	3.632	.508 - 1.02	11.84	5.029	1.02 - 1.52	11.94	5.791	.254 - .508	11.99	9.830	.635 - .889	12.14	8.179	.127 - .254	12.29	8.890	.254 - .508
11.68	4.039	.127 - .254	11.84	5.207	.508 - .762	11.94	6.071	.127 - .254	11.99	10.13	.254 - .508	12.14	8.255	1.27 - 1.78	12.29	9.398	.127 - .254
11.68	4.928	.127 - .254	11.84	5.334	.508 - .889	11.94	6.477	1.19 - 2.16	12.01	.9906	.127 - .254	12.14	8.712	.127 - .254	12.29	9.627	1.02 - 1.52
11.68	7.087	.127 - .254	11.84	5.537	1.27 - 1.78	11.94	6.731	.813 - 1.22	12.01	1.778	.254 - .508	12.14	9.525	1.27 - 1.57	12.29	10.11	1.02 - 1.52
11.68	7.645	.127 - .254	11.84	6.375	.635 - 1.02	11.94	6.883	.254 - .508	12.01	3.988	.127 - .254	12.17	3.226	.127 - .254	12.29	10.97	.127 - .254
11.68	7.772	.127 - .254	11.84	6.579	2.03 - 2.54	11.94	7.010	1.27 - 1.91	12.01	4.369	3.05 - 3.43	12.17	4.064	1.27 - 1.91	12.32	2.921	.381 - .762
11.68	7.950	.508 - .762	11.84	6.706	.127 - .254	11.94	7.087	.127 - .254	12.01	5.207	.127 - .254	12.17	4.521	.127 - .254	12.32	3.048	.254 - 2.03
11.68	8.103	.508 - 1.02	11.84	7.366	.508 - .762	11.94	7.112	.254 - .508	12.01	6.045	.762 - 1.27	12.17	5.334	.635 - .914	12.32	4.115	.508 - 1.02
11.68	9.601	.762 - 1.07	11.84	7.442	.127 - .254	11.94	7.366	.381 - .762	12.01	6.096	.254 - .508	12.17	5.563	.508 - 1.02	12.32	4.318	1.02 - 1.52
11.68	9.652	.127 - .381	11.84	8.103	.254 - .508	11.94	7.925	.508 - .762	12.01	6.147	.762 - 1.27	12.17	7.468	.127 - .254	12.32	5.080	.127 - .254
11.71	2.311	.127 - .254	11.84	8.153	.127 - .254	11.94	8.026	.127 - .254	12.01	6.172	.127 - .508	12.17	9.576	.381 - .762	12.32	6.350	.381 - .762
11.71	5.461	1.14 - 1.52	11.84	8.738	.381 - .762	11.94	8.052	.127 - .254	12.01	6.299	.508 - .762	12.17	9.652	.127 - .203	12.32	6.528	.127 - .254
11.71	8.484	.127 - .254	11.84	9.652	.127 - .254	11.94	8.103	.381 - .762	12.01	6.655	.127 - .254	12.17	9.779	.127 - .254	12.32	6.553	.127 - .254
11.71	9.017	.381 - .635	11.86	2.616	.254 - .508	11.94	8.230	.508 - 1.02	12.01	6.960	.127 - .254	12.17	10.46	.127 - .254	12.32	6.604	.381 - .635
11.73	1.575	.762 - 1.27	11.86	4.801	1.91 - 2.67	11.94	8.382	.508 - .762	12.01	7.214	.762 - 1.27	12.17	10.77	.508 - .635	12.32	6.858	.127 - .254
11.73	2.286	.635 - 1.07	11.86	5.105	.381 - .762	11.94	8.585	.127 - .254	12.01	7.341	.762 - 1.27	12.19	1.575	.508 - 1.02	12.32	7.137	.127 - .254
11.73	2.540	1.52 - 2.03	11.86	5.182	.127 - .254	11.94	8.636	.127 - .305	12.01	8.001	.127 - .254	12.19	3.226	.127 - .254	12.32	7.925	.762 - 1.27
11.73	4.013	1.02 - 1.52	11.86	5.410	.381 - .762	11.94	8.661	1.27 - 1.91	12.01	8.052	.254 - .508	12.19	4.039	.127 - .254	12.32	7.950	.254 - .508
11.73	4.191	.127 - .254	11.86	5.537	.381 - .508	11.94	8.788	.254 - .508	12.01	8.077	.127 - .254	12.19	4.216	.762 - 1.27	12.32	8.052	.127 - .254
11.73	5.156	.254 - .762	11.86	6.223	.635 - 1.02	11.94	8.890	.152 - .381	12.01	8.103	.127 - .254	12.19	4.318	.127 - .254	12.32	8.103	.254 - .508
11.73	7.315	.127 - .254	11.86	6.375	1.27 - 1.83	11.94	9.144	.127 - .254	12.01	8.128	.127 - .508	12.19	4.877	.127 - .254	12.32	8.128	.254 - 1.02
11.73	8.077	1.78 - 2.03	11.86	6.604	.762 - 1.27	11.94	9.373	.127 - .254	12.01	8.153	.127 - .254	12.19	4.978	1.02 - 1.52	12.32	8.331	.813 - 1.27
11.73	8.230	.127 - .254	11.86	7.468	.508 - .762	11.94	9.474	.508 - .889	12.01	10.08	.127 - .762	12.19	5.105	.381 - .762	12.32	8.534	.254 - .508
11.73	8.534	1.27 - 1.52	11.86	8.204	.127 - .381	11.94	9.652	.762 - 1.02	12.04	3.200	.254 - .508	12.19	5.461	.762 - 1.27	12.32	8.814	.508 - .762
11.73	9.576	.381 - .635	11.86	9.652	.127 - .254	11.94	9.754	.381 - .635	12.04	6.045	.127 - .254	12.19	5.639	.127 - .254	12.32	8.890	.508 - .762
11.76	1.854	.381 - .762	11.86	9.703	.127 - .254	11.94	10.62	.127 - .254	12.04	6.604	.508 - 1.78	12.19	6.020	1.02 - 1.52	12.32	8.992	.254 - .508
11.76	4.216	.381 - .762	11.86	10.67	.127 - .254	11.96	3.200	1.02 - 1.27	12.04	6.629	1.02 - 1.52	12.19	6.350	.127 - .254	12.32	9.550	.381 - .635
11.76	4.775	1.52 - 2.03	11.89	2.134	.254 - .635	11.96	3.302	.762 - 2.03	12.04	7.061	.127 - .254	12.19	6.375	.762 - 1.27	12.32	9.779	.381 - .762
11.76	4.801	.635 - 1.02	11.89	3.251	.127 - .381	11.96	3.785	.127 - .254	12.04	7.087	.127 - .254	12.19	6.502	1.78 - 2.29	12.32	9.804	.381 - .635
11.76	5.639	.635 - 1.02	11.89	3.810	.762 - 1.27	11.96	4.318	.508 - .762	12.04	7.214	.127 - .254	12.19	6.604	.381 - .762	12.32	10.21	.762 - 1.27
11.76	5.690	.254 - .508	11.89	5.639	1.02 - 1.52	11.96	4.420	.127 - .254	12.04	8.052	.127 - .381	12.19	7.010	.254 - .508	12.32	10.44	.508 - 1.02
11.76	6.223	.762 - 1.52	11.89	6.452	.254 - .381	11.96	5.004	.762 - 1.02	12.04	8.128	.762 - 1.27	12.19	7.874	1.02 - 1.52	12.32	10.46	.508 - 1.02
11.76	6.553	1.27 - 1.91	11.89	6.528	.127 - .254	11.96	5.156	2.92 - 3.43	12.04	9.677	.127 - .305	12.19	8.255	.254 - .508	12.32	10.95	.127 - .254
11.76	6.680	1.52 - 1.91	11.89	6.553	.508 - 1.02	11.96	5.207	2.52 - 3.18	12.04	10.06	.381 - .635	12.19	8.382	.508 - 1.02	12.34	1.575	.762 - 1.27
11.76	6.782	.762 - 1.27	11.89	6.579	.254 - 2.29	11.96	5.232	.127 - .254	12.07	3.734	.508 - 1.02	12.19	8.890	.508 - 1.02	12.34	3.251	.381 - .762
11.76	6.858	.127 - .254	11.89	6.629	.127 - .381	11.96	5.537	.127 - .254	12.07	4.445	.508 - .762	12.19	8.992	.127 - .254	12.34	5.588	.635 - 1.02
11.76	7.315	.127 - .254	11.89	7.290	.127 - .254	11.96	5.639	.508 - .762	12.07	4.877	1.52 - 2.03	12.19	9.144	.381 - .762	12.34	5.690	1.02 - 1.52
11.76	7.950	.127 - .254	11.89	7.925	1.27 - 1.78	11.96	5.664	1.02 - 1.27	12.07	4.978	.127 - .254	12.19	9.347	.381 - .635	12.34	5.842	.762 - 1.27
11.76	8.128	1.02 - 1.27	11.89	8.128	.127 - .254	11.96	5.690	.508 - 1.02	12.07	5.766	.508 - .762	12.19	9.398	.381 - .762	12.34	6.604	.254 - .508
11.76	8.153	.762 - 1.27	11.89	8.153	.127 - 1.83	11.96	6.452	.127 - .254	12.07	6.579	.254 - .762	12.19	9.423	.508 - .762	12.34	8.001	.381 - .762
11.76	8.179	.381 - .762	11.89	9.906	.381 - .762	11.96	6.502	.889 - 1.27	12.07	7.087	.127 - .254	12.19	9.652	.127 - .254	12.34	8.306	.127 - 1.27
11.76	8.458	.762 - 1.27	11.89	10.16	.508 - 1.02	11.96	6.579	.127 - .254	12.07	7.264	.127 - .254	12.19	9.931	.127 - .254	12.34	9.017	.127 - .254
11.76	9.931	.508 - .762	11.89	10.29	.127 - .254	11.96	7.290	.127 - .381	12.07	7.772	.127 - .254	12.19	10.59	.127 - .254	12.34	10.26	.254 - .508
11.79	3.277	.127 - .254	11.91	2.540	.508 - 1.02	11.96	7.518	.127 - .254	12.07	8.484	1.02 - 1.52	12.22	2.261	.127 - .254	12.37	1.067	.635 - 1.07
11.79	3.581	1.27 - 1.78	11.91	3.785	2.03 - 2.64	11.96	8.077	1.27 - 1.78	12.07	8.814	.508 - 1.02	12.22	3.200	.508 - 1.02	12.37	1.803	.254 - .508
11.79	4.039	1.52 - 2.03	11.91	4.674	.127 - .254	11.96	8.103	.254 - .508	12.07	9.144	.127 - .254	12.22	4.089	.127 - .254	12.37	3.048	.127 - .254
11.79	4.064	.381 - .762	11.91	4.877	.127 - .762	11.96	8.179	.127 - .254	12.07	9.347	.381 - 1.02	12.22	4.775	.508 - .762	12.37	5.715	.254 - .813
11.79	4.826	.762 - 1.27	11.91	5.232	1.91 - 2.54	11.96	8.560	.127 - .254	12.07	9.601	.127 - .254	12.22	6.223	.381 - .762	12.37	5.918	1.02 - 1.52
11.79	5.334	.508 - .914	11.91	5.791	.254 - .508	11.96	8.839	.635 - 1.07	12.07	9.652	.254 - .508	12.22	6.274	.635 - 1.02	12.37	6.502	.635 - 1.02
11.79	5.537	.127 - .254	11.91	6.452	.762 - 1.27	11.96	9.601	.127 - .305	12.07	10.08	.508 - .762	12.22	6.502	.127 - .254	12.37	6.528	.254 - .508
11.79	6.020	.381 - .762	11.91	6.680	.762 - 1.27	11.96	9.830	.127 - .254	12.07	10.16	.508 - 1.02	12.22	8.077	.127 - .254	12.37	6.858	2.29 - 2.79
11.79	6.198	.127 - .508	11.91	6.833	.381 - .635	11.99	2.464	.127 - .508	12.07	10.44	.254 - .508	12.22	8.534	.127 - .254	12.37	6.909	.127 - .254
11.79	6.401	.127 - .254	11.91	7.137	.127 - .508	11.99	2.515	.508 - 1.02	12.07	10.77	.381 - 1.02	12.22	9.169	1.02 - 1.52	12.37	7.264	.381 - .762
11.79	6.731	.254 - .508	11.91	8.128	.102 - .203	11.99	2.616	.127 - .254	12.09	3.658	.813 - 1.52	12.22	9.728	.254 - .508	12.37	8.153	1.02 - 1.52
11.79	8.077	.381 - .635	11.91	8.153	.127 - .254	11.99	3.175	.127 - .254	12.09	4.140	.381 - .762	12.22	9.830	.254 - .508	12.37	8.306	.762 - 1.02
11.79	8.128	1.02 - 1.52	11.91	8.179	.254 - .508	11.99	3.988	.127 - .254	12.09	4.293	1.78 - 2.03	12.22	9.906	1.27 - 1.52	12.37	8.534	.635 - 1.02
11.79	9.322	.254 - .508	11.91	8.255	.508 - .889	11.99	4.064	.254 - .508	12.09	4.597	.762 - 1.02	12.22	10.21	.127 - .254	12.37	8.560	.508 - 1.02
11.79	9.982	.127 - .254	11.91	8.712	.127 - .254	11.99	4.115	1.27 - 1.78	12.09	4.826	.381 - .762	12.24	4.394	.762 - 1.27	12.37	9.017	.127 - .508
1																	

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
12.42	8.001	.127 - .254	12.52	8.128	.152 - 2.03	12.60	2.159	.127 - .254	12.65	5.486	.635 - 1.07	12.70	2.261	.381 - .635	12.70	6.680	.127 - 3.05
12.42	8.128	1.02 - 1.52	12.52	8.890	.127 - .254	12.60	3.251	.508 - 1.02	12.65	5.588	1.27 - 1.83	12.70	2.362	.127 - .254	12.70	6.706	.127 - .254
12.42	8.458	.508 - .762	12.52	8.992	.635 - 1.02	12.60	3.302	.254 - .508	12.65	5.842	.508 - 1.07	12.70	2.438	.127 - .254	12.70	6.731	.127 - 2.64
12.42	8.585	.889 - 1.27	12.52	9.373	.127 - .254	12.60	3.353	1.52 - 2.03	12.65	5.893	.508 - .914	12.70	2.489	.254 - .508	12.70	6.756	.127 - .635
12.45	3.200	1.78 - 2.29	12.52	9.474	.127 - .254	12.60	3.962	.127 - .305	12.65	6.071	.635 - 1.07	12.70	2.591	.203 - .381	12.70	6.807	.127 - .508
12.45	3.226	.635 - 1.02	12.52	9.525	.508 - 1.02	12.60	4.115	.889 - 1.27	12.65	6.274	.381 - .762	12.70	2.667	.127 - .254	12.70	6.833	.508 - .914
12.45	4.191	.381 - .762	12.52	9.550	.127 - .254	12.60	4.318	.508 - .762	12.65	6.299	.127 - .254	12.70	2.845	.762 - 1.27	12.70	6.858	.127 - 2.29
12.45	4.242	.508 - .762	12.52	9.855	.127 - .254	12.60	4.724	1.78 - 2.29	12.65	6.375	.127 - .254	12.70	2.870	.508 - 1.02	12.70	6.985	.127 - .254
12.45	4.318	.178 - .406	12.52	10.01	.635 - 1.02	12.60	4.928	.762 - 1.27	12.65	6.401	.127 - .254	12.70	2.896	.127 - .762	12.70	7.010	1.52 - 2.03
12.45	4.420	.508 - .762	12.55	.8128	.127 - .254	12.60	5.156	.127 - .305	12.65	6.528	.254 - .508	12.70	2.946	.508 - 1.02	12.70	7.112	1.07 - 1.98
12.45	4.801	.762 - 1.27	12.55	2.057	.127 - .406	12.60	5.207	.127 - 1.52	12.65	6.579	2.29 - 3.05	12.70	3.073	.127 - .305	12.70	7.137	.127 - 1.02
12.45	6.350	.127 - .254	12.55	3.327	.762 - 1.27	12.60	5.537	.127 - .254	12.65	6.655	.813 - 2.64	12.70	3.175	.178 - 1.57	12.70	7.188	.762 - 2.64
12.45	6.401	.127 - .254	12.55	4.115	.508 - .762	12.60	6.299	.127 - .254	12.65	6.731	1.27 - 1.91	12.70	3.277	.635 - .91	12.70	7.264	.762 - 1.27
12.45	6.579	2.29 - 2.79	12.55	4.750	1.27 - 1.78	12.60	6.325	.127 - .254	12.65	6.833	1.27 - 1.78	12.70	3.327	.254 - 1.52	12.70	7.315	.254 - .508
12.45	6.604	.127 - .254	12.55	5.182	.127 - .254	12.60	6.401	.508 - 1.02	12.65	7.620	.508 - .762	12.70	3.353	1.02 - 1.52	12.70	7.341	.381 - .762
12.45	6.731	.127 - .254	12.55	5.359	.127 - .254	12.60	6.426	.508 - 1.78	12.65	7.671	.635 - 1.02	12.70	3.378	.127 - .254	12.70	7.391	.635 - 1.02
12.45	7.493	.127 - .508	12.55	5.690	.127 - .254	12.60	6.477	.127 - .254	12.65	8.001	.127 - .254	12.70	3.454	.305 - .508	12.70	7.417	.127 - .254
12.45	7.645	.127 - .254	12.55	6.096	2.54 - 3.18	12.60	6.604	.381 - .762	12.65	8.153	.254 - .508	12.70	3.556	.254 - .508	12.70	7.493	.635 - 1.02
12.45	7.671	.127 - .254	12.55	6.121	.127 - .254	12.60	6.655	.381 - .762	12.65	8.204	.508 - 1.02	12.70	3.581	.203 - .406	12.70	7.518	.254 - .635
12.45	7.950	.381 - .762	12.55	6.629	.254 - .508	12.60	6.680	.381 - .762	12.65	8.331	1.52 - 1.91	12.70	3.607	.762 - 3.18	12.70	7.569	.127 - .635
12.45	8.001	.381 - .508	12.55	6.655	.635 - 1.02	12.60	6.731	1.52 - 2.03	12.65	8.560	.381 - .762	12.70	3.658	.127 - .762	12.70	7.595	.762 - 1.27
12.45	8.026	.381 - .508	12.55	6.731	.254 - 1.52	12.60	7.722	1.52 - 2.03	12.65	8.611	.508 - .889	12.70	3.683	.178 - .508	12.70	7.620	.127 - .254
12.45	8.712	.762 - 1.02	12.55	6.934	.127 - .254	12.60	8.077	1.02 - 2.03	12.65	8.661	1.27 - 1.78	12.70	3.708	.889 - 1.27	12.70	7.671	1.52 - 1.78
12.45	8.738	.127 - .254	12.55	6.960	.127 - .254	12.60	8.103	.127 - .254	12.65	8.738	.381 - .635	12.70	3.734	.889 - 1.27	12.70	7.722	.127 - .254
12.45	8.966	.254 - .508	12.55	7.061	.254 - .508	12.60	8.433	.762 - 1.27	12.65	9.576	.127 - .254	12.70	3.810	.203 - 1.27	12.70	7.747	.508 - .762
12.45	9.144	.508 - 1.02	12.55	7.112	.127 - .254	12.60	8.712	.762 - 1.07	12.65	9.652	.254 - .381	12.70	3.886	.127 - .254	12.70	7.849	.127 - .635
12.45	9.576	1.27 - 1.78	12.55	7.163	.127 - .254	12.60	8.788	1.27 - 1.78	12.65	9.957	.127 - 1.07	12.70	3.937	2.54 - 3.18	12.70	7.925	.381 - .762
12.45	9.601	.254 - 1.07	12.55	7.976	.381 - 1.27	12.60	8.865	1.27 - 1.91	12.65	10.13	.381 - .635	12.70	4.064	.127 - .254	12.70	7.950	.203 - .381
12.45	9.652	.127 - .254	12.55	8.153	.254 - .508	12.60	8.966	1.27 - 1.78	12.65	10.36	.127 - .254	12.70	4.140	1.27 - 1.83	12.70	7.976	.127 - .254
12.45	9.931	.406 - .635	12.55	8.179	1.27 - 1.78	12.60	9.576	1.27 - 1.78	12.65	10.82	.127 - .254	12.70	4.242	.127 - .254	12.70	8.001	.381 - 2.64
12.45	9.982	.762 - 1.07	12.55	8.204	.127 - 1.98	12.60	9.652	.127 - 1.02	12.67	1.651	.381 - .635	12.70	4.267	.635 - .91	12.70	8.026	.254 - 1.27
12.45	10.46	.127 - .254	12.55	8.255	.635 - .889	12.60	9.677	.381 - .91	12.67	1.829	1.27 - 1.91	12.70	4.318	.635 - 1.27	12.70	8.052	.127 - 2.29
12.45	10.57	.127 - .381	12.55	8.839	.762 - 1.27	12.60	9.906	.762 - 1.02	12.67	2.286	1.02 - 1.52	12.70	4.369	.152 - 1.27	12.70	8.077	.254 - .508
12.47	3.454	.508 - 1.02	12.55	9.322	.127 - .254	12.60	10.16	.127 - .254	12.67	2.388	1.07 - 1.57	12.70	4.394	.127 - .254	12.70	8.103	.635 - 1.27
12.47	4.369	.127 - .254	12.55	9.398	.203 - .381	12.60	11.00	.127 - .254	12.67	2.997	1.52 - 2.03	12.70	4.470	1.27 - 1.78	12.70	8.128	.381 - .635
12.47	5.258	.508 - .762	12.55	9.474	.127 - .254	12.60	11.10	.127 - .254	12.67	3.124	1.27 - 1.52	12.70	4.496	1.52 - 1.91	12.70	8.153	.127 - .254
12.47	6.350	.127 - .254	12.55	9.652	.127 - .254	12.62	2.235	.508 - .762	12.67	3.175	.127 - .254	12.70	4.572	.635 - 1.02	12.70	8.204	.127 - .254
12.47	6.401	2.54 - 3.40	12.55	10.13	.635 - 1.02	12.62	2.489	.762 - 1.27	12.67	3.505	.127 - .254	12.70	4.623	1.52 - 2.29	12.70	8.306	.508 - 2.03
12.47	6.426	.127 - 1.91	12.55	10.67	.203 - .381	12.62	3.480	.762 - 1.22	12.67	3.607	.762 - 1.27	12.70	4.750	.508 - 3.18	12.70	8.331	1.22 - 1.78
12.47	6.452	1.27 - 1.91	12.57	.8636	.381 - .635	12.62	3.505	.762 - 1.22	12.67	4.318	.508 - .762	12.70	4.775	.762 - 1.27	12.70	8.433	2.03 - 2.54
12.47	6.502	1.02 - 1.52	12.57	1.016	.127 - .254	12.62	4.216	.254 - .508	12.67	4.445	1.27 - 1.83	12.70	4.801	.127 - 3.18	12.70	8.484	.254 - .508
12.47	6.731	2.29 - 2.67	12.57	1.600	.508 - .889	12.62	4.851	1.52 - 2.03	12.67	4.801	.254 - .508	12.70	4.826	2.29 - 2.64	12.70	8.534	.762 - 1.27
12.47	6.756	.254 - .762	12.57	1.854	1.02 - 1.57	12.62	4.902	.635 - 1.02	12.67	4.826	.508 - .762	12.70	4.851	.127 - .254	12.70	8.585	.127 - 1.78
12.47	6.782	.127 - .254	12.57	3.454	.762 - 1.27	12.62	4.978	.127 - .254	12.67	4.877	.127 - .762	12.70	4.928	1.57 - 2.29	12.70	8.839	.381 - .762
12.47	6.807	.127 - .254	12.57	6.803	2.54 - 3.18	12.62	5.461	.127 - .254	12.67	4.902	.127 - .91	12.70	4.953	.127 - .254	12.70	8.890	1.02 - 1.52
12.47	8.052	.254 - .508	12.57	4.013	.762 - 1.52	12.62	5.588	.508 - 1.78	12.67	4.928	.127 - .254	12.70	4.978	.254 - 3.18	12.70	8.941	.152 - .305
12.47	8.128	.254 - .508	12.57	4.115	1.22 - 1.91	12.62	6.350	.381 - .762	12.67	5.105	1.27 - 1.91	12.70	5.004	.127 - 3.43	12.70	9.042	.127 - .254
12.47	8.585	.762 - 1.27	12.57	4.318	.127 - .254	12.62	6.401	.127 - .635	12.67	5.156	2.03 - 2.54	12.70	5.055	.889 - 1.27	12.70	9.144	.381 - 1.02
12.47	9.779	.381 - .762	12.57	4.674	1.78 - 2.29	12.62	6.426	.127 - .254	12.67	5.461	.254 - .508	12.70	5.080	1.02 - 1.91	12.70	9.169	1.27 - 1.52
12.47	9.982	.127 - .254	12.57	4.826	.254 - .508	12.62	6.452	.381 - 1.52	12.67	5.817	.127 - .254	12.70	5.105	.254 - .508	12.70	9.347	.508 - 1.02
12.50	3.150	2.79 - 3.30	12.57	4.851	.508 - .762	12.62	6.579	.254 - 1.02	12.67	6.071	.762 - 1.02	12.70	5.131	1.52 - 3.18	12.70	9.398	.127 - .254
12.50	4.902	.762 - 1.27	12.57	4.953	.127 - .254	12.62	7.112	.381 - .762	12.67	6.096	1.22 - 1.78	12.70	5.156	.305 - .508	12.70	9.474	.203 - .381
12.50	5.105	1.02 - 1.27	12.57	5.080	.762 - 1.27	12.62	7.290	.127 - .381	12.67	6.172	.127 - .254	12.70	5.182	.381 - .91	12.70	9.525	1.02 - 1.91
12.50	5.182	2.67 - 3.18	12.57	5.156	1.27 - 1.78	12.62	8.001	.127 - .305	12.67	6.248	.127 - .254	12.70	5.207	.127 - 1.27	12.70	9.550	.381 - .762
12.50	6.350	.508 - 1.02	12.57	5.334	.635 - 1.02	12.62	8.026	.889 - 1.27	12.67	6.452	.889 - 1.52	12.70	5.309	1.27 - 1.78	12.70	9.576	.127 - 1.52
12.50	6.452	.762 - 1.52	12.57	5.461	.254 - .508	12.62	8.077	.381 - .762	12.67	6.553	.381 - .762	12.70	5.334	.254 - .635	12.70	9.601	.127 - 1.52
12.50	6.477	.762 - 1.27	12.57	5.664	1.27 - 1.78	12.62	8.103	.381 - .762	12.67	6.579	.762 - 1.27	12.70	5.512	1.02 - 1.52	12.70	9.728	.762 - 1.27
12.50	6.502	.254 - .508	12.57	5.715	1.91 - 2.29	12.62	8.230	.127 - .254	12.67	6.706	.254 - .508	12.70	5.537	.127 - 2.29	12.70	9.779	1.02 - 1.27
12.50	6.604	1.78 - 2.29	12.57	5.994	.254 - .508	12.62	8.560	.127 - .254	12.67	6.731	.635 - 1.02	12.70					

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
12.73	4.877	.508 - 1.02	12.80	6.833	.127 - .254	12.95	10.52	.178 - .508	13.11	8.001	.127 - .254	13.34	9.093	1.78 - 2.03	13.49	5.232	.127 - .762
12.73	4.953	1.22 - 1.57	12.80	7.188	.254 - .508	12.98	3.810	.127 - .254	13.11	8.128	.127 - .254	13.34	9.525	.127 - .254	13.49	5.410	.127 - .254
12.73	4.978	.127 - .254	12.80	8.153	.762 - 1.27	12.98	4.191	1.02 - 1.52	13.11	9.830	.508 - 1.02	13.34	9.601	.762 - 1.27	13.49	5.842	2.67 - 3.18
12.73	5.055	.127 - .254	12.80	8.712	1.78 - 2.29	12.98	6.020	.127 - .254	13.11	9.855	.127 - .254	13.34	9.906	1.52 - 2.03	13.49	6.452	1.52 - 2.11
12.73	5.131	.127 - .254	12.80	9.169	.127 - .254	12.98	6.350	.127 - 1.83	13.11	11.13	.508 - .813	13.34	10.19	.508 - 1.02	13.49	6.528	.254 - 1.52
12.73	5.207	.762 - 2.54	12.80	9.195	.127 - .254	12.98	6.502	.127 - .254	13.11	11.30	.127 - .254	13.34	10.87	.127 - .381	13.49	6.706	.762 - 1.27
12.73	5.258	.635 - 1.02	12.80	9.627	.508 - .762	12.98	6.579	.254 - .508	13.13	8.407	.762 - 1.27	13.36	4.953	.762 - 1.27	13.49	6.883	.635 - .889
12.73	5.283	1.52 - 1.83	12.80	9.703	.127 - .254	12.98	7.239	.508 - 1.02	13.13	8.636	.381 - .762	13.36	6.502	.762 - 1.27	13.49	7.493	.381 - .762
12.73	5.334	2.54 - 3.18	12.80	9.906	.762 - 1.27	12.98	8.026	.127 - .254	13.13	8.661	1.02 - 1.52	13.36	6.858	.254 - .508	13.49	8.052	.254 - 1.52
12.73	5.664	.127 - .254	12.83	2.286	.381 - .762	12.98	8.103	1.02 - 1.52	13.13	8.788	.127 - 1.78	13.36	9.068	.127 - .254	13.49	8.382	1.02 - 1.52
12.73	5.791	1.52 - 2.03	12.83	2.565	1.27 - 1.78	12.98	8.128	.381 - .762	13.13	10.21	.127 - .254	13.36	11.10	.381 - .762	13.49	8.509	2.29 - 3.05
12.73	5.842	.127 - .254	12.83	3.277	1.27 - 1.78	12.98	8.306	.508 - 1.02	13.13	10.59	.127 - .254	13.39	3.277	.381 - .635	13.49	8.788	1.07 - 1.57
12.73	6.121	2.03 - 2.54	12.83	3.785	.254 - 1.91	12.98	9.728	.381 - .762	13.13	11.13	.127 - .254	13.39	3.683	.127 - .254	13.49	8.839	1.27 - 1.83
12.73	6.426	.127 - 3.18	12.83	4.242	.635 - 1.02	12.98	11.68	.127 - .254	13.13	11.20	.508 - .762	13.39	8.788	1.02 - 1.52	13.49	8.890	1.02 - 1.57
12.73	6.452	1.22 - 1.83	12.83	4.928	.127 - .254	13.00	5.029	1.27 - 1.78	13.16	4.445	.203 - .406	13.39	8.839	.813 - 1.27	13.49	9.804	.254 - .508
12.73	6.477	2.03 - 2.67	12.83	6.350	.508 - .762	13.00	5.156	.127 - .254	13.16	5.436	.381 - .762	13.39	9.373	.127 - .254	13.49	10.31	1.27 - 1.52
12.73	6.502	.508 - 2.29	12.83	6.452	.254 - .508	13.00	5.309	.254 - .508	13.16	6.426	.127 - .254	13.39	9.982	.762 - 1.27	13.49	11.13	.127 - .254
12.73	6.680	.127 - .254	12.83	7.493	2.03 - 2.29	13.00	6.045	.127 - .254	13.16	6.502	1.02 - 1.52	13.39	11.10	.254 - .508	13.49	11.76	.381 - .762
12.73	6.909	2.29 - 2.67	12.83	7.620	.254 - .508	13.00	6.985	1.02 - 1.52	13.16	8.585	.127 - .254	13.39	11.25	.508 - 1.02	13.51	1.854	.254 - .508
12.73	7.137	1.27 - 2.64	12.83	7.645	.127 - .762	13.00	7.061	.127 - .254	13.16	9.525	1.27 - 1.78	13.41	3.251	.254 - .508	13.51	4.216	2.54 - 3.18
12.73	7.188	.254 - 2.54	12.83	8.230	1.27 - 1.78	13.00	7.925	.254 - .508	13.16	11.13	.127 - .254	13.41	3.861	.127 - .305	13.51	5.105	.127 - .254
12.73	7.620	.127 - .254	12.83	8.509	.635 - 1.02	13.00	8.052	.127 - .508	13.16	11.18	.508 - .762	13.41	5.309	.254 - .508	13.51	5.258	1.57 - 2.29
12.73	7.950	.127 - 1.78	12.83	8.661	.635 - 1.91	13.00	8.128	.127 - .254	13.16	11.35	.254 - .508	13.41	5.994	1.02 - 1.52	13.51	6.350	.127 - .381
12.73	8.077	.127 - 2.29	12.83	9.017	.635 - 1.02	13.00	8.153	.127 - .254	13.18	2.057	.381 - .635	13.41	6.452	.127 - .254	13.51	8.357	1.02 - 1.91
12.73	8.179	.508 - 1.02	12.83	9.804	.508 - .762	13.00	8.179	.127 - 2.03	13.18	2.616	.127 - .254	13.41	6.731	.762 - 1.52	13.51	9.677	.762 - 1.27
12.73	8.636	1.78 - 2.29	12.83	9.906	.762 - 1.27	13.00	9.220	.762 - 1.02	13.18	4.318	1.27 - 1.78	13.41	6.807	1.02 - 1.52	13.51	11.46	.127 - .254
12.73	8.763	.635 - 1.02	12.83	10.06	.127 - .254	13.00	9.525	1.27 - 1.78	13.18	7.366	.762 - 1.02	13.41	7.823	.127 - .254	13.51	11.89	.508 - 1.02
12.73	9.398	1.27 - 1.78	12.83	10.13	.508 - 1.02	13.00	10.01	.127 - .254	13.18	8.611	.127 - .254	13.41	9.144	.635 - 1.02	13.51	12.45	.305 - .508
12.73	9.525	.406 - .762	12.83	10.19	.762 - 1.27	13.00	10.03	.381 - .635	13.18	9.576	.127 - .254	13.41	10.41	1.02 - 1.52	13.54	1.702	.254 - .508
12.73	9.550	.127 - .254	12.83	11.61	.127 - .254	13.00	11.00	.127 - .254	13.18	10.08	.127 - .254	13.41	11.15	.254 - .508	13.54	5.105	.254 - .508
12.73	9.627	.762 - 1.27	12.85	1.346	.127 - .254	13.03	3.023	1.02 - 1.52	13.21	3.048	.254 - .508	13.41	11.51	.127 - .254	13.54	5.994	.127 - .254
12.73	9.652	.127 - .254	12.85	5.232	.127 - .254	13.03	3.480	.127 - .254	13.21	4.928	1.27 - 1.52	13.44	3.353	.127 - .254	13.54	6.096	1.27 - 1.78
12.73	9.804	.254 - .508	12.85	5.588	1.02 - 1.52	13.03	3.886	1.02 - 1.52	13.21	5.283	.381 - .508	13.44	4.445	.381 - .762	13.54	6.756	2.29 - 2.67
12.73	10.08	.127 - .254	12.85	5.613	1.02 - 1.52	13.03	4.420	.762 - 1.27	13.21	5.690	.127 - .254	13.44	5.944	1.78 - 2.29	13.54	6.960	.127 - .254
12.73	10.16	.762 - 1.27	12.85	6.528	.127 - .254	13.03	5.004	.381 - .762	13.21	7.899	.508 - .889	13.44	7.112	.381 - .762	13.54	9.322	1.78 - 2.29
12.73	10.21	.508 - .762	12.85	6.553	1.02 - 1.52	13.03	6.020	1.78 - 2.29	13.21	8.230	.127 - .254	13.44	7.950	.762 - 1.22	13.54	9.881	.508 - .762
12.73	10.26	.381 - .762	12.85	6.756	.127 - .254	13.03	6.096	.762 - 1.27	13.21	8.331	.508 - 1.02	13.44	8.407	.508 - 1.02	13.54	10.44	.254 - .635
12.73	10.39	.762 - 1.22	12.85	6.985	.127 - .254	13.03	6.807	.127 - .305	13.21	8.458	.127 - .254	13.44	9.525	1.27 - 1.91	13.56	.9906	.381 - .762
12.73	10.49	.381 - .635	12.88	2.718	.127 - .254	13.03	7.290	1.27 - 1.78	13.21	8.788	.508 - .762	13.44	9.779	.127 - .254	13.56	3.327	.762 - 1.27
12.75	3.150	1.52 - 2.11	12.88	3.175	.762 - 1.02	13.03	7.950	2.03 - 2.29	13.21	9.652	.127 - .254	13.44	11.15	.381 - .762	13.56	4.724	1.78 - 2.29
12.75	3.302	.127 - .254	12.88	3.683	.127 - .254	13.03	9.144	.127 - .254	13.21	9.957	.127 - .254	13.46	1.676	.889 - 1.52	13.56	4.902	.381 - .762
12.75	3.327	.635 - 1.02	12.88	5.613	.254 - .508	13.03	9.474	.381 - .762	13.21	10.92	.254 - .508	13.46	2.286	.254 - .508	13.56	5.258	.762 - 1.27
12.75	3.607	.127 - .254	12.88	5.893	1.52 - 1.98	13.03	9.728	.127 - .254	13.21	11.18	.127 - .254	13.46	2.515	.381 - .762	13.56	5.588	.127 - .254
12.75	4.089	.305 - .635	12.88	6.426	1.27 - 1.91	13.03	10.06	1.02 - 1.52	13.21	11.56	.127 - .254	13.46	3.302	1.02 - 1.52	13.56	7.214	1.52 - 2.11
12.75	4.648	2.03 - 2.64	12.88	6.731	1.52 - 1.78	13.03	11.18	.127 - .254	13.23	3.683	1.91 - 2.29	13.46	3.886	2.03 - 2.64	13.56	9.169	1.57 - 2.03
12.75	4.699	.813 - 1.57	12.88	8.103	.127 - .254	13.03	11.56	.254 - .508	13.23	6.071	1.02 - 1.27	13.46	4.572	1.27 - .254	13.56	10.01	.762 - 1.27
12.75	4.775	1.57 - 2.29	12.88	9.144	.127 - .254	13.06	4.928	1.78 - 2.29	13.23	8.255	.254 - .508	13.46	4.851	.127 - .254	13.56	11.20	.762 - 1.07
12.75	4.801	.762 - 1.27	12.88	9.347	.127 - .762	13.06	5.156	.127 - .254	13.23	8.636	1.83 - 2.29	13.46	5.232	2.54 - 3.18	13.59	1.626	.305 - .508
12.75	4.826	1.57 - 2.54	12.88	9.525	.254 - .508	13.06	5.334	1.02 - 1.52	13.23	9.652	.635 - 1.02	13.46	5.639	.508 - .889	13.59	5.791	1.91 - 2.64
12.75	4.902	.127 - .254	12.88	11.33	.508 - .762	13.06	8.611	.254 - .508	13.23	11.18	.127 - .254	13.46	6.426	.127 - .254	13.59	6.045	.254 - .508
12.75	4.928	1.52 - 2.03	12.90	5.105	.508 - .762	13.06	9.957	.127 - .254	13.26	6.375	1.07 - 1.83	13.46	6.452	.381 - .762	13.59	6.071	.127 - .254
12.75	4.978	1.02 - 1.52	12.90	5.664	1.27 - 1.78	13.06	10.95	.762 - 1.02	13.26	6.731	.127 - .254	13.46	6.477	.381 - .762	13.59	6.198	.381 - .762
12.75	6.223	.635 - .914	12.90	6.833	.254 - .508	13.06	11.53	.508 - .762	13.26	7.087	.127 - .254	13.46	6.858	2.54 - 3.18	13.59	7.569	.254 - .508
12.75	6.528	1.02 - 1.27	12.90	7.112	.508 - 1.02	13.08	3.785	.127 - .254	13.26	7.366	1.02 - 1.27	13.46	6.909	2.54 - 3.18	13.59	7.874	.635 - 1.07
12.75	6.655	1.02 - 1.52	12.90	7.239	.381 - .635	13.08	4.140	.762 - 1.27	13.26	8.966	.381 - .635	13.46	6.934	2.54 - 3.18	13.59	7.976	.127 - .254
12.75	6.680	.762 - 1.27	12.90	7.925	.127 - .254	13.08	4.851	1.27 - 1.78	13.26	10.49	.762 - 1.27	13.46	7.036	.127 - .254	13.59	8.077	.127 - .254
12.75	7.696	1.91 - 2.54	12.90	8.001	.127 - .254	13.08	5.232	2.03 - 2.64	13.26	11.05	.381 - .762	13.46	7.137	1.02 - 1.27	13.59	8.128	.406 - .635
12.75	8.001	.127 - 1.02	12.90	8.357	1.27 - 1.91	13.08	5.537	.127 - .254	13.26	11.10	.127 - .254	13.46	7.925	.127 - .254	13.59	8.255	.254 - .508
12.75	8.357	.508 - .762	12.90	8.534	.127 - .254	13.08	5.766	.762 - 1.27	13.28	2.997	.635 - 1.02						

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
13.67	5.334	.762 - 1.52	13.84	2.540	1.07 - 1.52	13.97	9.525	.127 - .508	14.02	12.14	.127 - .254	14.22	2.870	.381 - .762	14.25	9.322	.127 - .254
13.67	5.563	.127 - .254	13.84	4.750	.127 - .305	13.97	9.652	.127 - .508	14.05	4.470	.254 - .508	14.22	2.997	.406 - .762	14.25	9.576	.508 - .762
13.67	6.528	.381 - .762	13.84	6.198	.127 - 1.52	13.97	9.677	1.02 - 1.52	14.05	5.385	1.52 - 2.03	14.22	3.048	1.91 - 2.64	14.25	9.677	1.91 - 2.36
13.67	7.849	.254 - .508	13.84	6.604	1.27 - 1.78	13.97	9.906	1.78 - 2.29	14.05	5.817	.127 - .254	14.22	3.251	.381 - .762	14.25	10.08	.508 - .813
13.67	8.636	.762 - 1.27	13.84	7.950	.127 - .254	13.97	10.11	.127 - .254	14.05	6.020	.127 - .254	14.22	3.327	1.52 - 2.11	14.25	10.34	.127 - .254
13.67	8.687	1.02 - 1.52	13.84	8.103	.381 - 1.27	13.97	10.16	1.27 - 1.78	14.05	6.147	1.02 - 1.52	14.22	3.429	1.27 - 1.78	14.25	10.69	.127 - .254
13.67	9.779	1.27 - 1.91	13.84	8.788	1.07 - 1.57	13.97	10.26	.508 - 1.02	14.05	8.128	.127 - .254	14.22	3.785	.127 - .508	14.25	11.05	.254 - .508
13.67	11.18	.127 - .254	13.84	9.601	1.02 - 1.52	13.97	10.36	1.02 - 1.52	14.05	10.06	.381 - .762	14.22	4.089	1.02 - 1.57	14.25	11.18	.889 - 1.52
13.67	11.61	.127 - .254	13.84	9.703	1.02 - 1.57	13.97	10.39	1.52 - 1.91	14.07	3.912	.381 - .762	14.22	4.369	.127 - .254	14.25	11.66	.254 - .508
13.69	4.953	.635 - 1.27	13.84	9.779	.127 - .254	13.97	10.54	.127 - .254	14.07	6.096	.127 - .254	14.22	4.572	.127 - .381	14.27	2.286	.127 - .254
13.69	6.401	1.52 - 2.03	13.84	10.39	.254 - .508	13.97	10.69	.508 - 1.02	14.07	6.325	.762 - 1.27	14.22	4.826	.762 - 1.27	14.27	3.302	.127 - .254
13.69	7.061	.381 - .762	13.84	10.41	.508 - .762	13.97	10.85	.635 - 1.07	14.07	6.553	.635 - .889	14.22	4.877	.203 - .406	14.27	3.404	.762 - 1.27
13.69	8.077	.127 - .254	13.84	11.23	.127 - .254	13.97	10.90	.889 - 1.27	14.07	8.077	2.29 - 2.79	14.22	4.928	.813 - 1.22	14.27	3.708	.813 - 1.27
13.69	9.296	.127 - .254	13.84	11.30	.127 - .254	13.97	12.17	.127 - .254	14.07	8.382	.127 - .254	14.22	4.978	.381 - .635	14.27	3.759	1.02 - 1.52
13.69	9.322	.635 - 1.02	13.87	5.512	.127 - .254	13.97	12.37	.254 - .508	14.07	9.398	.127 - .508	14.22	5.080	.127 - .254	14.27	3.861	.889 - 1.27
13.69	9.652	.635 - 1.07	13.87	6.579	.127 - .254	13.97	12.65	.127 - .254	14.07	9.627	.254 - .508	14.22	5.131	.813 - 1.27	14.27	4.013	.914 - 1.91
13.69	10.13	.127 - .762	13.87	6.883	.254 - .508	14.00	2.057	.127 - .254	14.07	10.29	.762 - 1.22	14.22	5.156	.305 - .508	14.27	4.191	.203 - .381
13.69	10.67	.127 - .254	13.87	7.747	.127 - .254	14.00	2.413	.305 - .508	14.07	11.89	.254 - .635	14.22	5.232	.127 - .254	14.27	4.216	1.27 - 1.78
13.69	10.80	.127 - .254	13.87	9.525	.762 - 1.27	14.00	3.581	.127 - .254	14.10	3.175	.762 - 1.27	14.22	5.258	.762 - 1.27	14.27	4.293	.127 - .254
13.69	11.91	.178 - .381	13.87	9.601	.381 - .762	14.00	4.089	.127 - .254	14.10	3.327	1.52 - 2.03	14.22	5.715	.152 - .254	14.27	4.851	1.02 - 1.52
13.72	4.115	.813 - 1.57	13.87	10.41	.508 - .762	14.00	4.216	.762 - 2.67	14.10	3.912	.508 - 1.02	14.22	5.740	.381 - .635	14.27	4.902	1.02 - 1.52
13.72	4.724	1.52 - 1.78	13.87	11.05	.508 - 1.02	14.00	4.369	2.03 - 2.54	14.10	4.394	2.67 - 3.43	14.22	5.791	1.52 - 2.11	14.27	4.928	1.52 - 2.03
13.72	5.588	.508 - 1.02	13.89	3.658	.127 - .254	14.00	5.105	.127 - .254	14.10	6.350	.254 - .508	14.22	6.248	1.02 - 1.52	14.27	4.953	1.27 - 1.78
13.72	5.817	.762 - 1.27	13.89	4.064	.254 - .381	14.00	5.588	.381 - .635	14.10	6.426	2.03 - 2.64	14.22	6.452	2.54 - 3.05	14.27	5.131	.762 - 1.27
13.72	6.655	.254 - .508	13.89	5.436	.127 - .254	14.00	5.715	1.78 - 2.29	14.10	6.731	.508 - 1.02	14.22	6.553	1.52 - 2.03	14.27	5.182	1.91 - 2.29
13.72	7.112	.762 - 1.52	13.89	6.502	.127 - .254	14.00	5.994	.127 - .254	14.10	8.077	.127 - .254	14.22	6.579	1.22 - 1.52	14.27	5.207	.508 - 1.02
13.72	7.163	1.07 - 1.57	13.89	6.553	.127 - .254	14.00	6.045	.127 - .508	14.10	8.128	1.52 - 2.03	14.22	6.655	.127 - .254	14.27	5.258	.127 - .254
13.72	7.214	.381 - .762	13.89	7.442	1.52 - 1.78	14.00	6.096	.127 - 1.27	14.10	8.331	1.27 - 1.98	14.22	6.680	.254 - 1.27	14.27	5.537	1.22 - 1.83
13.72	8.128	.127 - .254	13.89	7.925	.127 - .254	14.00	6.248	1.52 - 2.03	14.10	9.042	1.27 - 1.52	14.22	6.934	.254 - .508	14.27	5.639	.254 - 1.78
13.72	8.153	.254 - .508	13.89	8.052	1.27 - 1.78	14.00	6.426	.127 - .254	14.10	9.144	1.27 - 1.78	14.22	7.112	1.02 - 1.52	14.27	5.918	.127 - .381
13.72	8.458	.381 - .635	13.89	8.128	.762 - 1.27	14.00	6.706	1.78 - 2.29	14.10	11.13	.127 - .254	14.22	7.264	.127 - .254	14.27	6.096	1.27 - 1.78
13.72	8.814	1.98 - 2.64	13.89	9.271	.127 - .254	14.00	7.061	.127 - .254	14.10	11.18	.127 - .254	14.22	7.493	.127 - .254	14.27	6.121	.381 - .762
13.72	8.839	.381 - .762	13.89	10.31	.127 - .254	14.00	7.214	.762 - 1.27	14.10	11.30	.127 - .254	14.22	7.899	.127 - .254	14.27	6.375	2.79 - 3.30
13.72	9.855	1.27 - 1.78	13.92	2.413	1.02 - 1.52	14.00	7.468	.305 - .635	14.10	12.07	.762 - 1.14	14.22	7.950	1.57 - 3.05	14.27	6.426	.127 - .254
13.72	9.931	.762 - 1.27	13.92	4.318	1.27 - 1.78	14.00	7.620	.508 - 1.02	14.12	3.048	.762 - 1.27	14.22	8.026	.127 - .254	14.27	6.528	1.57 - 2.29
13.72	9.957	.254 - .508	13.92	5.359	.381 - .762	14.00	8.001	.127 - .254	14.12	3.124	.762 - 1.52	14.22	8.052	1.02 - 1.52	14.27	6.629	.762 - 1.27
13.72	10.03	.127 - .254	13.92	7.696	.127 - .406	14.00	8.026	.127 - 1.27	14.12	3.454	.762 - 1.27	14.22	8.128	.508 - 1.02	14.27	6.680	.127 - .762
13.72	10.13	.635 - 1.02	13.92	8.255	1.52 - 2.03	14.00	8.052	.127 - .254	14.12	4.369	1.02 - 1.52	14.22	8.280	.127 - .254	14.27	6.706	.381 - .762
13.72	10.36	.381 - .635	13.92	8.357	.635 - 1.02	14.00	8.077	1.27 - 1.78	14.12	5.004	.762 - 1.27	14.22	8.407	.127 - .381	14.27	6.731	1.27 - 2.29
13.72	10.39	.127 - .254	13.92	10.08	.127 - .254	14.00	8.128	.127 - .254	14.12	5.080	.127 - .254	14.22	8.534	.127 - .254	14.27	6.756	2.54 - 3.18
13.72	10.49	1.02 - 1.27	13.92	10.19	1.27 - 1.78	14.00	8.153	.127 - .254	14.12	6.680	.127 - .254	14.22	8.712	1.02 - 1.52	14.27	6.833	.762 - 1.27
13.72	10.67	.381 - .762	13.92	11.48	.762 - 1.27	14.00	8.179	.127 - .254	14.12	7.137	1.91 - 2.64	14.22	8.763	2.29 - 2.79	14.27	6.985	1.27 - 1.91
13.74	3.861	1.52 - 2.29	13.92	11.51	.635 - 1.02	14.00	8.382	1.27 - 1.78	14.12	8.052	1.02 - 1.52	14.22	9.398	.127 - .254	14.27	7.137	.813 - 1.27
13.74	7.620	.254 - .508	13.94	2.515	.127 - .254	14.00	9.068	.381 - .762	14.12	8.306	.254 - .508	14.22	9.525	1.27 - 1.78	14.27	7.163	2.03 - 2.54
13.74	7.772	.254 - .508	13.94	5.486	.127 - .254	14.00	9.576	.254 - .508	14.12	9.728	1.02 - 1.52	14.22	9.576	.127 - .381	14.27	7.341	1.27 - 1.78
13.74	7.976	1.27 - 1.52	13.94	8.026	.127 - .254	14.00	9.601	.254 - 2.54	14.15	6.147	.254 - .508	14.22	9.627	.508 - 1.02	14.27	7.366	.635 - 1.02
13.74	8.103	.762 - 1.27	13.94	8.280	.127 - .254	14.00	9.779	.127 - .254	14.15	6.655	.254 - .508	14.22	9.652	.127 - .254	14.27	7.544	.254 - .508
13.74	9.525	.762 - 1.27	13.94	8.484	.635 - 1.02	14.00	9.830	.254 - .508	14.15	8.052	.508 - 1.52	14.22	9.677	.381 - 1.52	14.27	7.722	.508 - .762
13.74	9.601	1.02 - 1.52	13.94	11.48	.762 - 1.52	14.00	10.01	.127 - 1.02	14.15	9.652	1.02 - 1.52	14.22	9.754	.127 - .254	14.27	7.849	.127 - .254
13.74	10.21	.127 - .762	13.94	11.56	.254 - .508	14.00	10.03	1.27 - 1.78	14.15	9.830	.635 - 1.02	14.22	9.906	.762 - 1.52	14.27	7.950	.254 - .508
13.74	10.34	1.02 - 1.52	13.94	12.09	.127 - .254	14.00	10.13	.254 - 1.02	14.15	10.06	1.27 - 1.78	14.22	9.957	.889 - 1.52	14.27	7.976	2.03 - 2.64
13.74	10.54	.127 - .254	13.97	8.128	.254 - .508	14.00	10.62	.914 - 1.52	14.15	10.69	.254 - .508	14.22	10.19	.127 - .254	14.27	8.001	.508 - 1.78
13.77	4.369	.254 - .508	13.97	2.667	1.07 - 1.52	14.00	11.25	.254 - .635	14.15	11.33	.508 - 1.02	14.22	10.41	.127 - .254	14.27	8.077	.127 - 1.91
13.77	4.445	.508 - 1.02	13.97	3.048	.127 - 1.52	14.00	11.71	.127 - .254	14.17	7.315	.127 - .254	14.22	10.67	.127 - .254	14.27	8.128	.127 - 1.52
13.77	4.521	.762 - 1.27	13.97	3.556	.508 - 1.02	14.00	11.99	.127 - .762	14.17	8.306	1.27 - 1.78	14.22	10.69	.762 - 1.27	14.27	8.280	.127 - .762
13.77	7.696	1.52 - 2.03	13.97	4.013	.127 - .254	14.02	2.362	.635 - 1.02	14.17	8.407	.508 - 1.27	14.22	10.82	.508 - 1.02	14.27	8.331	1.27 - 1.78
13.77	9.652	1.02 - 1.52	13.97	4.039	2.29 - 2.54	14.02	2.388	.127 - .203	14.17	9.144	.127 - .305	14.22	11.66	.127 - .381	14.27	8.357	.635 - 1.02
13.77	10.03	.127 - .254	13.97	4.826	.508 - .762	14.02	3.277	.787 - 1.22	14.17	9.169	.914 - 1.52	14.22	12.32	.508 - .813	14.27	8.407	2.03 - 2.54
13.77	11.10	.254 - .508	13.97	4.902	.127 - 1.52	14.02	4.064	.508 - 1.02	14.17								

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
14.30	2.565	.635 - 1.02	14.38	11.33	1.02 - 1.52	14.58	7.569	.127 - .254	14.73	10.95	.127 - .254	14.99	5.131	.762 - 1.27	15.06	7.645	1.27 - 1.78
14.30	3.683	.127 - .254	14.38	11.35	1.02 - 1.52	14.58	7.620	.813 - 1.57	14.73	10.97	.254 - .813	14.99	5.309	3.18 - 3.96	15.06	8.077	.127 - .254
14.30	4.470	.635 - 1.02	14.38	11.38	.254 - .508	14.58	10.08	.127 - .254	14.73	11.28	.635 - 1.02	14.99	6.020	.127 - .254	15.06	9.957	1.91 - 2.41
14.30	4.724	2.54 - 3.18	14.38	11.43	.381 - .762	14.58	10.31	.508 - .762	14.73	11.43	.635 - 1.02	14.99	6.045	.127 - .254	15.06	10.13	.254 - .508
14.30	4.851	.508 - .762	14.38	12.83	.381 - .635	14.58	12.24	1.78 - 2.29	14.73	12.22	.254 - .762	14.99	6.350	1.78 - 2.29	15.06	10.34	2.54 - 3.05
14.30	4.928	2.54 - 3.18	14.38	12.88	.127 - .254	14.61	3.835	1.02 - 1.57	14.73	13.11	.508 - .762	14.99	7.366	1.02 - 1.52	15.06	10.41	.127 - .254
14.30	5.004	.762 - 1.27	14.40	4.826	.254 - .508	14.61	4.572	.254 - .508	14.76	5.004	2.29 - 3.18	14.99	7.417	.254 - .508	15.06	11.10	.127 - .254
14.30	5.537	.127 - 3.18	14.40	5.766	.178 - .305	14.61	4.724	1.78 - 2.29	14.76	5.664	1.27 - 1.78	14.99	7.493	.127 - .254	15.06	11.51	.127 - .254
14.30	6.274	.508 - .762	14.40	5.944	.254 - .508	14.61	4.801	2.03 - 2.54	14.76	11.10	.762 - 1.27	14.99	7.976	1.52 - 2.03	15.06	11.79	.381 - .762
14.30	6.426	.127 - .381	14.40	6.604	1.02 - 1.52	14.61	5.055	1.52 - 2.03	14.78	1.600	.508 - 1.02	14.99	8.026	.127 - .254	15.06	11.89	.508 - 1.02
14.30	6.579	.762 - 1.27	14.40	6.680	.762 - 1.27	14.61	5.080	.635 - 1.07	14.78	7.264	.508 - 1.02	14.99	8.052	1.02 - 2.29	15.06	11.99	.127 - .254
14.30	7.036	.508 - 1.02	14.40	7.645	1.02 - 1.52	14.61	6.375	.254 - .508	14.78	10.16	.381 - .762	14.99	8.077	.762 - 1.27	15.06	12.14	.127 - .381
14.30	7.239	2.54 - 3.18	14.40	8.534	2.29 - 2.64	14.61	6.553	.127 - .762	14.81	6.579	.127 - 2.54	14.99	8.230	.127 - .254	15.06	12.62	.127 - .254
14.30	7.950	.127 - 1.07	14.40	9.627	.381 - .635	14.61	6.604	1.91 - 2.29	14.81	8.738	1.78 - 2.29	14.99	8.306	1.27 - 1.91	15.06	13.16	.508 - .762
14.30	8.052	.254 - 1.02	14.40	10.36	1.02 - 1.52	14.61	7.290	.127 - .254	14.81	9.601	.381 - .762	14.99	8.357	1.07 - 1.57	15.09	1.549	.381 - .762
14.30	8.077	.127 - .254	14.40	10.39	.762 - 1.27	14.61	7.925	2.54 - 3.18	14.81	10.41	.762 - 1.27	14.99	8.407	.254 - .508	15.09	7.188	.127 - .254
14.30	8.128	.381 - .762	14.40	10.59	1.27 - 1.52	14.61	8.128	.508 - 1.02	14.83	7.645	.127 - .254	14.99	8.484	.127 - .254	15.09	7.925	.254 - .508
14.30	8.153	1.83 - 2.29	14.40	12.80	.508 - .762	14.61	8.179	.254 - .508	14.83	8.306	.127 - .254	14.99	8.611	.889 - 1.52	15.09	8.001	.127 - .254
14.30	8.890	.381 - .635	14.43	2.769	1.02 - 1.52	14.61	8.509	.406 - .635	14.83	8.890	.127 - .254	14.99	8.636	.254 - 1.27	15.09	8.255	.127 - .254
14.30	9.119	.635 - 1.02	14.43	3.505	.127 - .254	14.61	8.788	.127 - .762	14.83	9.093	.127 - .254	14.99	8.738	.813 - 1.27	15.09	9.093	.381 - .635
14.30	9.474	.381 - .762	14.43	5.334	1.07 - 1.83	14.61	9.144	.635 - 1.07	14.83	10.95	.127 - .254	14.99	8.763	1.02 - 1.52	15.09	9.525	1.78 - 2.29
14.30	9.550	1.83 - 2.29	14.43	5.690	.127 - .254	14.61	10.01	1.52 - 2.03	14.83	11.33	.762 - 1.27	14.99	9.017	.127 - .254	15.09	9.601	.127 - 2.64
14.30	9.576	.254 - .508	14.43	6.477	1.27 - 1.78	14.61	10.13	1.52 - 2.29	14.86	2.642	.635 - 1.02	14.99	9.550	.508 - .813	15.09	9.728	.381 - .762
14.30	9.627	.381 - 1.52	14.43	7.747	.127 - .254	14.61	10.46	.254 - .508	14.86	4.648	.381 - .762	14.99	9.601	.127 - .254	15.09	10.29	.127 - .254
14.30	9.652	.381 - 2.29	14.43	7.925	1.27 - 1.57	14.61	10.92	.254 - .508	14.86	6.528	.508 - 1.02	14.99	9.627	.635 - 1.02	15.09	10.74	.635 - 1.02
14.30	9.677	.254 - .508	14.43	8.052	.127 - .254	14.61	11.18	1.02 - 1.52	14.86	6.706	.635 - 1.02	14.99	9.804	.127 - .254	15.09	11.48	1.02 - 1.52
14.30	9.779	.508 - .762	14.43	9.144	.127 - .254	14.61	11.33	.254 - .762	14.86	7.366	2.29 - 2.67	14.99	9.906	.813 - 1.57	15.09	12.85	.381 - .635
14.30	9.830	.508 - 1.27	14.43	9.601	.254 - .762	14.61	11.79	.508 - 1.02	14.86	8.306	1.27 - 1.78	14.99	10.06	.127 - .305	15.11	3.658	.203 - .406
14.30	10.11	.762 - 1.27	14.43	10.49	.381 - .635	14.61	12.32	.127 - 1.02	14.86	8.331	1.78 - 2.29	14.99	10.08	.127 - 1.27	15.11	4.724	1.78 - 2.29
14.30	10.29	.762 - 2.03	14.43	10.52	.508 - 1.02	14.63	3.734	2.29 - 2.64	14.86	9.246	1.52 - 2.03	14.99	10.19	.127 - .254	15.11	4.902	1.91 - 2.29
14.30	10.36	.508 - .762	14.43	11.18	.762 - 1.02	14.63	5.537	.762 - 1.02	14.86	9.296	1.02 - 1.27	14.99	10.41	1.02 - 1.52	15.11	4.953	.254 - .508
14.30	11.15	.127 - .381	14.45	5.207	1.27 - 1.78	14.63	12.70	.508 - .762	14.86	9.449	.635 - 1.02	14.99	10.82	1.78 - 2.03	15.11	6.375	.254 - .508
14.30	11.43	.127 - .254	14.45	5.258	.635 - 1.02	14.66	2.438	.305 - .635	14.86	9.576	.127 - .254	14.99	10.92	.127 - 1.52	15.11	6.426	.508 - .762
14.30	11.86	.635 - 1.07	14.45	6.172	.254 - .381	14.66	5.055	1.52 - 2.29	14.86	9.652	.127 - .254	14.99	11.15	.127 - .254	15.11	6.502	.381 - .762
14.33	2.997	.127 - .254	14.45	6.528	.127 - .254	14.66	6.426	1.27 - 1.78	14.86	9.906	.508 - 1.02	14.99	11.96	.381 - .635	15.11	8.128	.254 - .508
14.33	4.953	2.29 - 2.67	14.45	8.230	.381 - 1.91	14.66	7.366	1.27 - 1.78	14.86	10.08	.127 - .254	14.99	12.19	.127 - .508	15.11	8.966	.635 - 1.02
14.33	5.283	1.02 - 1.27	14.45	11.35	.508 - 1.02	14.66	8.255	1.07 - 1.57	14.86	10.29	1.27 - 1.78	14.99	12.65	.635 - 1.02	15.11	10.49	1.27 - 1.78
14.33	5.436	.762 - 1.27	14.45	11.94	.381 - .635	14.66	8.331	2.29 - 3.05	14.88	3.353	.254 - .508	14.99	13.28	.127 - .203	15.11	10.92	1.02 - 1.52
14.33	6.401	1.91 - 2.29	14.45	11.99	.305 - .508	14.66	8.966	.635 - 1.02	14.88	8.306	.381 - .762	15.01	2.007	.508 - .762	15.11	11.07	.127 - .254
14.33	6.426	1.02 - 1.52	14.45	12.04	.127 - .254	14.66	9.550	.254 - .635	14.88	10.54	.127 - .254	15.01	2.921	.508 - 1.02	15.11	11.10	1.02 - 1.52
14.33	6.502	.508 - 1.02	14.45	12.22	.762 - 1.27	14.68	4.394	.635 - 1.07	14.88	11.00	1.02 - 1.52	15.01	4.089	1.27 - 1.78	15.11	12.57	.762 - 1.27
14.33	7.214	.127 - .508	14.48	4.318	2.03 - 2.29	14.68	5.156	.127 - 1.52	14.88	11.35	.127 - .254	15.01	5.080	1.02 - 1.52	15.11	13.08	.127 - .254
14.33	7.264	.381 - .762	14.48	4.902	.381 - .762	14.68	6.071	2.03 - 2.29	14.88	12.12	.127 - .254	15.01	5.486	1.27 - 1.78	15.14	2.515	.762 - 1.27
14.33	7.899	.635 - 1.02	14.48	5.232	2.67 - 3.18	14.68	6.528	1.27 - 1.91	14.88	12.29	.127 - .254	15.01	5.512	.381 - .635	15.14	3.277	.635 - 1.02
14.33	8.560	.254 - .508	14.48	5.893	.635 - 1.07	14.68	6.756	.508 - 1.52	14.88	12.70	.762 - 1.02	15.01	6.096	1.91 - 2.29	15.14	10.19	.508 - 1.02
14.33	8.941	.127 - .254	14.48	5.918	1.27 - 1.91	14.68	9.017	.127 - .254	14.88	13.34	.127 - .254	15.01	7.036	.127 - .254	15.14	10.39	.254 - .508
14.33	9.754	.127 - .254	14.48	5.994	.635 - 1.07	14.68	10.34	1.27 - 1.78	14.88	13.82	.254 - .508	15.01	7.341	2.03 - 2.67	15.14	11.25	1.27 - 1.91
14.33	9.804	.762 - 1.22	14.48	7.036	.127 - .254	14.68	11.89	.254 - .508	14.91	4.953	.813 - 1.27	15.01	7.518	1.27 - 1.78	15.14	12.32	.127 - 1.02
14.33	9.957	1.27 - 1.83	14.48	7.061	.762 - 1.27	14.68	13.36	.254 - .508	14.91	5.867	.381 - .635	15.01	8.026	.254 - .508	15.14	12.78	.508 - 1.02
14.33	11.30	.127 - .254	14.48	7.163	.635 - 1.07	14.71	3.505	.787 - 1.07	14.91	8.763	.762 - 1.27	15.01	8.052	.254 - .508	15.14	12.95	.635 - 1.02
14.33	12.70	.508 - 1.02	14.48	8.026	.254 - .508	14.71	4.420	.508 - 1.02	14.91	9.474	.127 - .254	15.01	8.153	.381 - .762	15.16	3.302	.127 - .381
14.33	12.80	.127 - .254	14.48	8.077	.381 - .762	14.71	4.775	.508 - 1.02	14.91	10.16	1.27 - 1.78	15.01	8.230	1.02 - 1.52	15.16	6.375	1.57 - 1.98
14.33	12.88	.127 - .254	14.48	8.255	.508 - 1.02	14.71	6.731	1.27 - 1.91	14.91	10.44	1.02 - 1.52	15.01	8.280	.127 - .254	15.16	7.747	.635 - 1.02
14.35	1.676	.127 - .254	14.48	9.373	.127 - .254	14.71	8.077	1.52 - 1.78	14.91	11.10	.254 - .508	15.01	11.05	1.27 - 1.78	15.16	9.855	.127 - .381
14.35	2.362	2.03 - 2.29	14.48	9.576	.127 - .254	14.71	8.687	2.29 - 2.64	14.91	11.71	.127 - .254	15.01	11.18	1.02 - 1.27	15.16	10.31	.635 - 1.02
14.35	3.048	.381 - .762	14.48	9.652	.254 - .508	14.71	9.500	.508 - .762	14.94	6.223	.381 - .762	15.01	12.98	.254 - .508	15.16	11.48	.406 - 1.02
14.35	4.420	.635 - 1.02	14.48	11.00	.254 - .508	14.71	9.601	.508 - .762	14.94	6.350	.127 - .254	15.04	3.734	.127 - .254	15.16	13.00	.508 - .762
14.35	4.724	.254 - .381	14.48	11.30	.635 - 1.02	14.71	10.34	.127 - .254	14.94	6.604	1.02 - 1.52	15.04	5.613	.127 - .254	15.16	13.03	.508 - .762
14.35	5.994	2.11 - 2.67	14.48	11.71	.762 - 1.27	14.71	11.10	.635 - 1.02	14.94								

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

O.D.	I.D.	Choose Any Thickness* To	O.D.	I.D.	Choose Any Thickness* To	O.D.	I.D.	Choose Any Thickness* To	O.D.	I.D.	Choose Any Thickness* To	O.D.	I.D.	Choose Any Thickness* To	O.D.	I.D.	Choose Any Thickness* To
15.21	9.601	.762 - 1.27	15.27	11.13	.127 - .254	15.49	8.331	1.27 - 1.91	15.62	6.096	.127 - .254	15.72	4.013	2.54 - 3.18	15.77	4.928	.127 - .254
15.21	9.728	.762 - 1.27	15.27	11.71	.127 - .254	15.49	8.509	.381 - .762	15.62	6.782	1.02 - 1.52	15.72	4.343	.381 - 1.91	15.77	6.426	1.57 - 2.03
15.21	10.16	.889 - 1.27	15.27	12.19	.127 - .254	15.49	8.941	.508 - 1.02	15.62	7.569	.508 - .762	15.72	6.045	.762 - 1.27	15.77	6.452	.254 - .508
15.21	10.19	.127 - .254	15.29	2.565	2.03 - 2.54	15.49	9.271	.254 - .508	15.62	8.001	.254 - .508	15.72	7.772	.635 - 1.02	15.77	7.188	.381 - .635
15.21	10.36	.127 - 1.52	15.29	4.572	1.27 - 2.03	15.49	9.322	.508 - .762	15.62	8.153	1.27 - 1.78	15.72	8.230	.508 - .762	15.77	7.315	1.27 - 1.91
15.21	10.49	.635 - 1.02	15.29	6.452	.127 - .254	15.49	9.525	1.27 - 1.52	15.62	8.179	.508 - 1.02	15.72	8.280	.508 - 1.02	15.77	8.534	1.27 - 1.78
15.21	12.09	1.27 - 1.78	15.29	6.477	1.02 - 1.52	15.49	9.550	1.52 - 3.18	15.62	8.661	1.27 - 1.78	15.72	8.357	1.78 - 2.29	15.77	9.220	1.27 - 1.78
15.21	12.42	.127 - .254	15.29	10.34	.635 - 1.02	15.49	9.652	.254 - .508	15.62	8.941	.127 - .305	15.72	8.966	1.27 - 1.78	15.77	9.347	.762 - 1.27
15.24	1.041	.381 - .635	15.29	12.34	1.02 - 1.52	15.49	10.03	.381 - .762	15.62	9.119	1.27 - .254	15.72	9.144	.127 - .254	15.77	9.550	.254 - .508
15.24	1.168	.127 - .254	15.32	5.766	.762 - 1.27	15.49	10.39	.127 - .254	15.62	9.576	1.78 - 2.29	15.72	9.576	.508 - .889	15.77	9.601	.254 - .508
15.24	1.676	.508 - .889	15.32	12.17	1.02 - 1.52	15.49	11.13	1.27 - 1.78	15.62	9.804	1.52 - 2.03	15.72	9.677	2.67 - 3.43	15.77	9.627	.635 - 1.02
15.24	1.930	.508 - .762	15.32	12.65	.254 - .508	15.49	11.68	1.02 - 1.52	15.62	10.03	.508 - 1.02	15.72	10.95	.127 - .254	15.77	9.652	2.29 - 2.67
15.24	1.956	.127 - .254	15.32	12.80	.254 - .508	15.49	11.71	1.52 - 1.91	15.62	10.36	2.29 - 2.67	15.72	11.18	.127 - 1.02	15.77	9.677	.127 - .254
15.24	2.261	.508 - 1.02	15.34	6.401	.127 - .254	15.49	11.99	1.27 - 1.91	15.62	10.67	.254 - .508	15.72	11.40	.762 - 1.02	15.77	10.41	.127 - .254
15.24	2.997	.381 - .762	15.34	6.477	.127 - .254	15.49	12.09	1.02 - 1.52	15.62	11.20	.127 - .254	15.72	11.68	2.03 - 2.54	15.77	11.10	.635 - .914
15.24	3.023	2.03 - 2.54	15.34	7.798	.127 - .254	15.49	13.97	.127 - .254	15.62	11.38	.762 - 1.02	15.72	12.22	.127 - .508	15.77	11.13	.813 - 1.07
15.24	3.251	.813 - 1.22	15.34	7.823	.254 - .762	15.52	2.261	1.02 - 1.52	15.62	11.68	.508 - 1.02	15.72	12.70	.127 - .508	15.77	11.23	.127 - 1.22
15.24	3.505	1.02 - 2.67	15.34	8.636	1.02 - 1.52	15.52	4.877	.508 - .762	15.62	12.14	.762 - 1.02	15.72	12.90	.127 - .254	15.77	11.96	.203 - .406
15.24	3.962	.635 - 1.02	15.34	8.814	.787 - 1.07	15.52	6.172	1.57 - 2.29	15.62	12.50	.508 - 1.02	15.72	13.72	.127 - .254	15.77	12.70	.381 - .635
15.24	3.988	.635 - 1.02	15.34	9.677	.635 - 1.02	15.52	6.350	1.57 - 2.29	15.62	12.95	.635 - 1.02	15.72	13.94	.381 - .508	15.77	12.80	.508 - .762
15.24	4.267	1.78 - 2.29	15.34	9.754	.381 - .762	15.52	6.579	1.02 - 1.52	15.62	13.21	.635 - .889	15.75	1.041	1.02 - 1.52	15.77	12.83	.127 - .762
15.24	4.470	.127 - .254	15.34	10.34	.127 - .762	15.52	6.629	.127 - .254	15.62	13.61	.254 - .508	15.75	1.930	.254 - .508	15.77	12.85	1.02 - 1.52
15.24	5.080	.127 - .254	15.34	11.15	.762 - 1.27	15.52	6.731	2.67 - 3.18	15.62	13.64	.508 - 1.02	15.75	3.200	.381 - .762	15.77	12.88	.381 - .762
15.24	5.156	.508 - 1.02	15.34	12.75	.254 - .508	15.52	6.934	.127 - .254	15.62	13.72	.254 - .635	15.75	3.353	.127 - .254	15.77	13.54	.381 - .762
15.24	5.334	1.91 - 2.29	15.34	12.90	.381 - .762	15.52	7.061	.127 - .254	15.62	14.00	.762 - 1.02	15.75	4.267	1.27 - 1.83	15.80	1.549	.127 - .254
15.24	5.461	.127 - .254	15.37	4.140	.381 - .762	15.52	8.001	1.27 - .254	15.65	1.118	.381 - .635	15.75	4.674	1.27 - 1.91	15.80	3.734	1.52 - 2.03
15.24	5.512	1.27 - 1.91	15.37	4.826	.508 - 1.02	15.52	8.814	.127 - .254	15.65	4.064	.381 - .762	15.75	4.851	.635 - 1.02	15.80	4.039	1.22 - 1.91
15.24	5.994	.127 - .254	15.37	7.950	.381 - .762	15.52	8.890	.762 - 1.27	15.65	4.242	.508 - .813	15.75	5.029	1.27 - 1.78	15.80	4.216	.127 - .254
15.24	6.020	1.02 - 1.52	15.37	8.052	1.91 - 2.29	15.52	8.941	.127 - .254	15.65	4.877	1.78 - 2.29	15.75	5.080	.127 - .254	15.80	4.420	.203 - .406
15.24	6.121	.127 - .762	15.37	9.119	.635 - 1.02	15.52	9.627	.635 - 1.02	15.65	6.375	.127 - .254	15.75	5.105	.762 - 1.27	15.80	4.445	.178 - .381
15.24	6.401	.127 - .254	15.37	9.855	1.78 - 2.29	15.52	10.29	1.52 - 2.11	15.65	6.502	.508 - .813	15.75	5.436	1.27 - 1.78	15.80	4.572	.406 - .635
15.24	6.426	.127 - 1.52	15.37	10.57	.127 - .254	15.52	10.31	2.03 - 2.29	15.65	6.579	.127 - .254	15.75	6.350	.254 - .889	15.80	4.826	.508 - 1.02
15.24	6.452	.381 - .762	15.37	11.51	.127 - 1.52	15.52	11.68	.635 - 1.02	15.65	6.807	.381 - .762	15.75	6.401	.508 - 1.02	15.80	4.851	.127 - .254
15.24	6.477	.127 - .254	15.37	14.38	.127 - .254	15.52	12.19	1.02 - 1.78	15.65	8.204	.254 - .508	15.75	6.452	.254 - .508	15.80	4.978	.762 - 1.22
15.24	6.731	.254 - .508	15.39	5.029	1.02 - 1.27	15.52	13.08	.508 - 1.02	15.65	8.331	.635 - 1.02	15.75	6.477	.381 - .508	15.80	5.207	.762 - 1.27
15.24	6.756	.127 - .254	15.39	5.156	.127 - .254	15.54	4.928	2.54 - 3.18	15.65	9.576	1.27 - 2.29	15.75	6.528	1.02 - 1.52	15.80	5.232	.762 - 1.52
15.24	6.782	.127 - .254	15.39	7.239	1.52 - 2.11	15.54	5.029	.203 - .508	15.65	9.754	.127 - .254	15.75	6.604	.127 - .254	15.80	5.436	.381 - .762
15.24	6.833	.635 - 1.02	15.39	7.925	1.91 - 2.54	15.54	5.436	.762 - 1.27	15.65	9.804	1.57 - 2.11	15.75	6.807	.127 - .254	15.80	5.588	.254 - .508
15.24	6.858	.127 - .254	15.39	9.652	1.02 - 1.52	15.54	11.00	1.02 - 1.52	15.65	10.41	.127 - .254	15.75	7.087	.127 - .254	15.80	5.842	1.52 - 2.29
15.24	7.163	.127 - .254	15.39	9.881	1.27 - 1.91	15.54	11.18	1.07 - 1.57	15.65	10.46	.508 - 1.02	15.75	7.137	1.02 - 1.52	15.80	6.350	.127 - .381
15.24	7.239	.127 - .254	15.39	10.16	.508 - .762	15.54	11.28	.254 - .762	15.65	11.58	1.02 - 1.27	15.75	8.128	2.67 - 3.18	15.80	6.375	.127 - .254
15.24	7.518	.381 - 2.67	15.39	11.73	.508 - 1.02	15.54	11.86	.127 - .254	15.65	12.14	.762 - 1.02	15.75	8.179	1.02 - 1.52	15.80	6.553	.635 - 1.02
15.24	7.620	.127 - .254	15.39	12.19	1.02 - 1.52	15.54	12.95	1.02 - 1.27	15.65	12.19	1.02 - 1.52	15.75	8.484	1.27 - 1.78	15.80	6.629	.914 - 1.27
15.24	8.179	.762 - 2.03	15.42	6.274	.508 - 1.02	15.54	13.21	.127 - .254	15.65	12.83	.127 - .254	15.75	8.788	.406 - .635	15.80	7.214	.254 - 1.07
15.24	8.382	2.03 - 2.29	15.42	6.375	.762 - 1.27	15.57	1.016	.508 - .762	15.65	13.31	.762 - 1.02	15.75	8.839	1.27 - 1.78	15.80	7.620	.508 - 1.02
15.24	8.788	.127 - .254	15.42	8.458	.127 - .254	15.57	7.061	1.27 - 1.78	15.67	7.874	.127 - .254	15.75	8.890	.635 - 1.57	15.80	7.671	1.27 - 1.78
15.24	9.169	.381 - .762	15.42	9.855	2.03 - 2.67	15.57	8.407	1.27 - 1.78	15.67	8.077	.381 - .635	15.75	9.398	.381 - .635	15.80	7.976	1.91 - 3.18
15.24	9.398	1.02 - 1.52	15.42	11.71	.127 - .254	15.57	8.890	1.27 - 1.78	15.67	8.915	.127 - .254	15.75	9.601	.508 - .889	15.80	8.001	2.54 - 3.18
15.24	9.652	.381 - 2.29	15.42	13.49	.127 - .254	15.57	9.576	.381 - .762	15.67	9.119	.635 - 1.02	15.75	9.652	2.03 - 2.54	15.80	8.052	1.02 - 1.52
15.24	9.728	.254 - .508	15.44	5.182	.254 - .508	15.57	9.931	.635 - 1.02	15.67	9.195	.127 - .254	15.75	9.677	.381 - .635	15.80	8.128	.635 - 1.78
15.24	9.804	.254 - .508	15.44	6.325	.762 - 1.27	15.57	10.21	.127 - .254	15.67	9.779	.127 - .254	15.75	9.754	2.54 - 3.18	15.80	8.255	.178 - .635
15.24	10.19	.254 - .508	15.44	6.401	.381 - 1.02	15.57	11.46	.762 - 1.27	15.67	11.38	1.65 - 2.03	15.75	9.906	2.54 - 3.18	15.80	8.712	.127 - .254
15.24	10.31	.508 - .762	15.44	6.426	.508 - 1.02	15.57	11.99	.127 - .254	15.67	12.60	.254 - .508	15.75	10.01	.254 - .508	15.80	9.500	.127 - .254
15.24	10.36	1.02 - 1.52	15.44	6.452	.508 - 1.02	15.57	13.23	.508 - 1.07	15.67	13.06	.127 - .254	15.75	10.31	.127 - 1.52	15.80	9.550	.381 - .635
15.24	10.49	.254 - .508	15.44	7.188	.508 - 1.02	15.60	1.651	.127 - .254	15.67	14.22	.127 - .254	15.75	10.36	.762 - 1.27	15.80	9.576	.635 - 2.67
15.24	10.69	.127 - .254	15.44	7.442	1.02 - 1.52	15.60	2.388	1.02 - 1.52	15.70	3.048	.381 - .762	15.75	10.39	.762 - 1.27	15.80	9.601	.381 - .762
15.24	11.02	.127 - .254	15.44	8.890	.508 - .813	15.60	5.029	1.27 - 2.29	15.70	3.150	1.02 - 1.52	15.75	10.41	2.03 - 2.67	15.80	9.754	.127 - .254
15.24	11.18	.254 - .508	15.44	9.957	.762 - 1.27	15.60	5.055	1.52 - 1.98	15.70	4.699	1.02 - 1.27	15.75	10.67	.508 - 1.52	15.80	9.881	1.52 - 1.91
15.24	11.23	.762 - 1.27	15.44	10.08	.127 - .508	15.60	5.080	1.52									

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
15.82	2.388	1.52 - 1.91	15.85	10.80	.889 - 1.27	15.88	7.595	.508 - 1.27	15.90	5.131	.127 - .254	15.93	13.39	.127 - .254	16.00	10.08	.127 - 2.29
15.82	2.540	1.02 - 1.52	15.85	11.13	.762 - 1.27	15.88	7.645	.127 - .254	15.90	5.182	.762 - 3.96	15.93	13.89	.178 - .305	16.00	10.16	.635 - 2.29
15.82	3.200	1.02 - 1.27	15.85	11.18	.254 - .508	15.88	7.671	.127 - 1.78	15.90	5.258	.127 - 1.78	15.95	2.438	.762 - 1.27	16.00	10.19	.381 - .762
15.82	3.454	2.03 - 2.64	15.85	11.23	.152 - .305	15.88	7.899	1.07 - 1.57	15.90	5.512	2.54 - 3.18	15.95	3.175	.127 - .254	16.00	10.24	.127 - .254
15.82	3.480	.762 - 1.52	15.85	11.30	.127 - 1.78	15.88	7.925	.127 - 3.18	15.90	5.817	.127 - .254	15.95	4.216	.127 - 1.78	16.00	10.26	.127 - .254
15.82	3.759	.762 - 1.27	15.85	11.38	.127 - .381	15.88	7.976	.127 - .762	15.90	6.426	1.52 - 2.03	15.95	4.851	1.02 - 1.52	16.00	10.54	2.03 - 2.67
15.82	3.962	.508 - .889	15.85	11.48	.787 - 1.22	15.88	8.001	.635 - 1.02	15.90	6.528	.381 - .762	15.95	5.029	.127 - .254	16.00	10.59	1.27 - 1.78
15.82	4.470	1.27 - 1.78	15.85	12.32	1.02 - 1.52	15.88	8.026	1.02 - 1.52	15.90	6.655	2.54 - 3.18	15.95	5.105	1.02 - 1.52	16.00	11.18	1.78 - 2.29
15.82	4.547	1.27 - 2.29	15.85	12.70	.127 - .254	15.88	8.052	1.52 - 1.78	15.90	6.807	.508 - 1.52	15.95	5.283	.508 - 1.02	16.00	11.71	.381 - .762
15.82	4.826	.254 - 3.18	15.85	13.08	.508 - .762	15.88	8.077	.127 - 3.18	15.90	7.036	.508 - 1.02	15.95	5.893	.762 - 1.27	16.00	12.07	.254 - .508
15.82	4.851	.762 - 1.52	15.85	13.54	.127 - .254	15.88	8.103	.508 - 1.02	15.90	7.137	.127 - .508	15.95	6.045	1.27 - 1.78	16.00	12.17	1.02 - 1.27
15.82	5.131	1.27 - 2.29	15.85	14.33	.127 - .254	15.88	8.128	.254 - 1.27	15.90	7.163	.508 - 1.02	15.95	6.629	1.02 - 1.52	16.00	12.67	.127 - .254
15.82	5.588	1.27 - 2.29	15.88	1.600	.127 - .254	15.88	8.153	.381 - 1.78	15.90	7.925	.889 - 1.27	15.95	6.883	.127 - .254	16.00	12.70	.381 - .762
15.82	6.096	1.27 - 2.29	15.88	1.702	.203 - .406	15.88	8.179	1.14 - 1.91	15.90	7.976	.127 - .381	15.95	7.290	2.29 - 2.67	16.00	12.75	.381 - .762
15.82	6.274	.508 - .889	15.88	2.210	.127 - .254	15.88	8.204	1.52 - 1.91	15.90	8.001	1.02 - 1.52	15.95	8.407	2.67 - 3.05	16.00	13.16	.254 - .508
15.82	6.350	.127 - .254	15.88	2.438	.127 - .254	15.88	8.230	.127 - .254	15.90	8.052	.254 - .381	15.95	9.525	1.52 - 2.11	16.00	13.56	.127 - .254
15.82	6.452	2.03 - 2.54	15.88	2.591	.508 - 1.02	15.88	8.306	1.78 - 2.03	15.90	8.280	.508 - .762	15.95	12.12	.127 - .254	16.00	14.07	.127 - .254
15.82	6.731	.127 - 1.91	15.88	2.921	.127 - .254	15.88	8.331	.127 - 3.18	15.90	8.611	2.54 - 3.18	15.95	12.27	.762 - 1.27	16.00	14.17	.127 - .508
15.82	6.807	.254 - .381	15.88	3.226	.254 - .508	15.88	8.357	.508 - .762	15.90	8.738	.635 - 1.02	15.95	12.95	.254 - .508	16.03	3.810	1.02 - 1.52
15.82	7.137	.305 - 1.91	15.88	3.251	.762 - 1.57	15.88	8.382	.635 - 1.02	15.90	9.576	.127 - .254	15.95	12.98	1.02 - 1.52	16.03	3.912	1.27 - 1.78
15.82	7.722	1.91 - 2.67	15.88	3.277	.508 - 1.02	15.88	8.407	.127 - .254	15.90	9.627	.127 - .254	15.95	14.10	.508 - .762	16.03	6.045	.127 - .254
15.82	8.052	1.27 - 1.91	15.88	3.302	.305 - .508	15.88	8.534	2.29 - 3.05	15.90	9.677	.127 - .254	15.98	2.413	1.57 - 1.98	16.03	6.096	.254 - .508
15.82	8.128	.127 - .762	15.88	3.454	2.03 - 2.64	15.88	8.712	.127 - 3.40	15.90	9.804	.127 - 1.91	15.98	3.785	.381 - .762	16.03	8.001	.381 - .762
15.82	8.280	1.02 - 1.52	15.88	3.531	.635 - 2.67	15.88	8.839	2.03 - 2.64	15.90	9.957	.127 - .254	15.98	4.496	.127 - .254	16.03	8.026	.127 - .254
15.82	8.331	.254 - .635	15.88	3.683	.508 - .813	15.88	8.865	2.11 - 2.64	15.90	10.01	.381 - .762	15.98	5.740	.127 - .254	16.03	8.077	.127 - .254
15.82	8.382	1.27 - 2.29	15.88	3.835	.127 - .254	15.88	9.042	1.07 - 1.57	15.90	10.36	2.29 - 2.67	15.98	7.366	1.27 - 2.11	16.03	8.103	.127 - .254
15.82	9.525	.254 - .508	15.88	3.988	2.54 - 3.18	15.88	9.449	.762 - 1.27	15.90	10.39	.508 - .762	15.98	7.417	1.07 - 1.52	16.03	8.128	.127 - .254
15.82	9.906	1.27 - 1.78	15.88	4.013	.127 - .254	15.88	9.525	.127 - 3.05	15.90	10.72	1.78 - 2.29	15.98	8.026	.127 - .254	16.03	9.500	2.67 - 3.18
15.82	10.26	.127 - .254	15.88	4.064	1.91 - 2.64	15.88	9.550	.127 - .254	15.90	11.23	.127 - .635	15.98	8.103	.127 - .254	16.03	9.601	1.52 - 2.03
15.82	10.29	.762 - 1.27	15.88	4.216	.635 - 1.07	15.88	9.576	.127 - .254	15.90	11.89	.127 - .254	15.98	8.915	2.29 - 2.79	16.03	9.804	1.52 - 2.03
15.82	10.77	.127 - .254	15.88	4.343	.381 - 3.18	15.88	9.601	.381 - 2.03	15.90	11.94	.127 - .254	15.98	9.042	.254 - .508	16.03	9.830	.254 - .508
15.82	11.68	1.27 - 1.91	15.88	4.750	.635 - 1.27	15.88	9.627	.127 - .254	15.90	12.14	.127 - .254	15.98	9.931	.762 - 1.27	16.03	10.06	.127 - .254
15.82	11.81	.305 - .508	15.88	4.775	.127 - .254	15.88	9.652	.635 - 1.52	15.90	12.57	1.02 - 1.52	15.98	10.31	.762 - 1.27	16.03	10.13	.254 - .508
15.82	12.04	.203 - .406	15.88	4.801	.127 - 1.52	15.88	9.677	2.54 - 3.18	15.90	12.67	.254 - .508	15.98	10.34	.762 - 1.27	16.03	10.24	1.52 - 2.03
15.82	12.50	.127 - .254	15.88	4.826	1.52 - 2.29	15.88	9.703	.762 - 3.05	15.90	12.73	.254 - .508	15.98	11.99	.762 - 2.03	16.03	10.44	.508 - .762
15.82	12.70	.127 - .305	15.88	4.851	.635 - 1.07	15.88	9.779	.127 - .254	15.90	12.80	.254 - .508	15.98	12.01	.127 - .508	16.03	11.10	.127 - .254
15.82	12.73	.254 - .508	15.88	4.877	1.27 - 1.78	15.88	9.804	.813 - 1.22	15.90	12.83	.127 - .254	15.98	12.88	.127 - .762	16.03	11.48	1.52 - 2.03
15.82	12.80	1.27 - 1.57	15.88	4.902	2.54 - 3.18	15.88	9.906	.381 - 1.57	15.90	12.88	.127 - .762	15.98	13.00	.381 - .762	16.03	13.23	1.02 - 1.52
15.82	12.83	.127 - .254	15.88	4.953	2.29 - 3.18	15.88	9.957	.508 - 1.07	15.90	12.95	.254 - .635	15.98	13.13	.127 - .254	16.05	4.064	.762 - 1.02
15.82	13.08	.127 - .254	15.88	4.978	.508 - 1.02	15.88	9.982	.254 - .508	15.90	13.41	.635 - 1.02	16.00	3.251	.127 - .254	16.05	6.071	.127 - .254
15.82	13.49	.254 - .508	15.88	5.080	.762 - 1.02	15.88	10.01	.508 - 1.02	15.90	14.33	.127 - .254	16.00	3.505	.762 - 1.52	16.05	6.426	.381 - .762
15.82	13.51	.127 - .254	15.88	5.105	.127 - .254	15.88	10.06	.508 - .762	15.90	14.38	.254 - .508	16.00	3.556	.508 - 1.02	16.05	6.629	.508 - 1.02
15.85	2.210	.254 - .508	15.88	5.131	1.27 - 1.91	15.88	10.08	2.29 - 3.05	15.93	.9144	.635 - .889	16.00	3.581	2.54 - 3.05	16.05	7.239	.127 - .254
15.85	2.388	1.78 - 2.29	15.88	5.207	1.27 - 2.29	15.88	10.11	.127 - .254	15.93	1.473	.508 - .813	16.00	4.013	1.27 - 1.52	16.05	8.052	.127 - .254
15.85	2.743	.127 - .254	15.88	5.258	.127 - .381	15.88	10.13	.127 - 1.91	15.93	3.175	.508 - 1.02	16.00	4.140	1.27 - 1.52	16.05	8.128	.127 - .254
15.85	2.769	.127 - .254	15.88	5.283	.127 - .254	15.88	10.16	.635 - 1.02	15.93	3.277	.635 - 1.02	16.00	4.420	1.27 - 1.91	16.05	9.068	.127 - .254
15.85	3.251	.635 - 1.02	15.88	5.334	2.54 - 3.18	15.88	10.19	1.78 - 2.29	15.93	3.378	1.02 - 1.52	16.00	4.496	.762 - 1.27	16.05	9.119	.635 - 1.02
15.85	3.962	1.27 - 1.78	15.88	5.359	1.02 - 1.52	15.88	10.21	.127 - .381	15.93	4.216	.127 - .254	16.00	4.775	2.29 - 2.67	16.05	9.830	.508 - 1.52
15.85	4.267	1.52 - 2.03	15.88	5.588	.127 - .254	15.88	10.31	1.52 - 1.91	15.93	4.978	1.27 - 1.78	16.00	5.182	1.27 - 1.65	16.05	10.82	1.78 - 2.29
15.85	4.394	.508 - 1.27	15.88	5.639	1.27 - 1.78	15.88	10.54	.127 - .305	15.93	5.029	.254 - .635	16.00	5.309	2.67 - 3.18	16.05	12.07	1.02 - 1.52
15.85	4.496	.254 - .508	15.88	5.664	.127 - .254	15.88	10.80	.508 - .889	15.93	5.994	2.54 - 3.18	16.00	5.436	1.65 - 2.03	16.05	12.19	.127 - 1.83
15.85	4.521	.381 - .762	15.88	5.715	.381 - .508	15.88	11.10	1.02 - 1.52	15.93	6.299	2.54 - 3.18	16.00	5.994	.127 - .635	16.05	13.89	.254 - .508
15.85	4.978	.813 - 1.07	15.88	5.740	.813 - 1.07	15.88	11.18	.127 - 2.67	15.93	6.426	.127 - .254	16.00	6.020	.127 - .508	16.08	3.023	.127 - .254
15.85	5.182	.127 - .254	15.88	5.842	1.91 - 2.29	15.88	11.20	.127 - .254	15.93	6.731	1.27 - 1.78	16.00	6.045	.127 - .254	16.08	4.369	.381 - .889
15.85	5.588	.127 - .254	15.88	5.867	.127 - .254	15.88	11.23	.127 - .254	15.93	6.756	.762 - 1.27	16.00	6.071	.127 - .254	16.08	6.502	1.52 - 2.03
15.85	6.325	1.27 - 1.78	15.88	5.994	.635 - 1.07	15.88	11.30	1.52 - 1.91	15.93	7.112	2.54 - 3.18	16.00	6.121	1.27 - 1.52	16.08	6.782	.813 - 1.27
15.85	6.350	1.27 - 1.91	15.88	6.045	.127 - 1.83	15.88	11.40	1.78 - 2.29	15.93	7.137	2.54 - 3.05	16.00	6.274	.762 - 1.27	16.08	7.163	2.03 - 2.54
15.85	6.426	2.54 - 3.18	15.88	6.071	1.78 - 2.29	15.88	11.51	.508 - .762	15.93	7.188	.762 - 1.22	16.00	6.452	.635 - 1.02	16.08	8.788	1.52 - 2.03
15.85	6.452	.127 - .254	15.88	6.096	1.27 - 1.78	15.88	11.										

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
16.13	9.550	.127 - .254	16.31	13.61	.178 - .305	16.51	7.899	1.91 - 2.29	16.64	9.627	.254 - .508	16.76	9.601	.508 - .762	16.97	11.99	.254 - .508
16.13	10.41	.127 - .254	16.33	4.293	.127 - .254	16.51	7.925	.127 - 3.05	16.64	9.677	.508 - .762	16.76	9.906	1.02 - 1.52	16.99	.7874	.127 - .254
16.13	11.25	.508 - .762	16.33	4.420	.127 - .254	16.51	8.001	.254 - .508	16.64	10.64	.127 - .254	16.76	10.19	.508 - .762	16.99	2.896	.127 - .254
16.13	11.94	.762 - 1.07	16.33	6.502	.254 - .508	16.51	8.026	.127 - .254	16.64	10.69	1.27 - 1.78	16.76	10.39	1.02 - 1.52	16.99	3.505	.127 - .254
16.13	13.49	.635 - 1.02	16.33	8.179	.381 - .762	16.51	8.052	.127 - .254	16.64	11.81	.127 - .254	16.76	11.07	.127 - .254	16.99	4.140	.127 - .254
16.15	4.547	.203 - .381	16.33	9.398	.127 - .254	16.51	8.103	.127 - .254	16.64	12.40	.127 - .254	16.76	11.99	.127 - .254	16.99	5.080	.127 - .254
16.15	5.385	.127 - .254	16.33	12.75	.127 - .254	16.51	8.255	1.27 - 1.91	16.64	13.00	.381 - .635	16.76	12.88	.127 - .254	16.99	5.182	.508 - 1.52
16.15	6.985	.127 - .254	16.33	12.78	.381 - .762	16.51	9.068	.381 - .762	16.64	13.34	1.02 - 1.52	16.76	13.00	.127 - .254	16.99	6.020	.127 - .254
16.15	9.677	.381 - .762	16.33	13.46	.127 - .254	16.51	9.500	.381 - .762	16.64	13.41	.127 - .254	16.76	14.30	.127 - .254	16.99	8.026	.127 - .254
16.15	9.754	.127 - .254	16.36	4.343	.127 - .254	16.51	9.576	.127 - .762	16.64	13.46	.127 - .254	16.76	14.66	.508 - .762	16.99	8.052	1.91 - 2.67
16.15	9.982	.508 - .762	16.36	6.528	1.27 - 1.78	16.51	9.652	1.27 - 1.78	16.66	2.997	.762 - 1.27	16.79	6.121	.127 - .254	16.99	8.103	.127 - .508
16.15	10.41	.127 - .381	16.36	8.026	.508 - .889	16.51	10.08	.127 - .254	16.66	4.826	1.91 - 2.29	16.79	6.858	1.52 - 2.03	16.99	8.128	.254 - 1.02
16.15	11.53	.381 - .762	16.36	8.788	.381 - .762	16.51	10.26	1.02 - 1.52	16.66	4.953	1.27 - 1.91	16.79	8.534	.508 - 1.02	16.99	8.407	1.27 - 1.78
16.15	14.35	.127 - .254	16.36	10.06	.635 - 1.02	16.51	10.41	2.03 - 2.29	16.66	4.978	.508 - 1.02	16.79	8.661	.127 - .254	16.99	8.585	2.03 - 2.54
16.18	6.198	.508 - 1.02	16.36	11.53	.635 - 1.02	16.51	10.77	.127 - .254	16.66	6.553	.762 - 1.27	16.79	10.24	1.02 - 1.52	16.99	10.08	.127 - .254
16.18	9.042	.127 - .254	16.36	12.12	.508 - .762	16.51	11.91	1.27 - 1.78	16.66	6.782	1.27 - 1.91	16.79	12.37	1.02 - 1.52	16.99	10.85	.762 - 1.27
16.18	9.677	.635 - 1.02	16.36	12.78	.508 - 1.02	16.51	12.70	.127 - .254	16.66	7.061	.127 - .254	16.79	13.44	.381 - .635	16.99	10.92	.254 - .508
16.18	10.13	2.67 - 3.18	16.36	13.49	.762 - 1.27	16.51	12.78	.381 - .762	16.66	7.366	1.78 - 2.29	16.79	13.49	.254 - .508	16.99	11.02	1.78 - 2.29
16.18	10.80	.305 - .508	16.38	3.861	.762 - 1.27	16.51	12.83	.508 - .762	16.66	8.128	.635 - 1.02	16.79	14.00	.127 - .254	16.99	11.99	.762 - 1.27
16.18	13.21	.127 - .254	16.38	4.318	.889 - 1.27	16.51	12.88	.254 - .508	16.66	8.661	.762 - 1.27	16.79	14.81	.127 - .254	16.99	12.37	.152 - .381
16.21	3.962	.813 - 1.22	16.38	5.436	.254 - .508	16.51	13.56	.635 - 1.02	16.66	9.576	.381 - .762	16.81	5.105	1.27 - 1.78	16.99	13.08	.127 - .254
16.21	6.680	1.02 - 1.52	16.38	8.026	.508 - .813	16.51	14.05	.254 - .508	16.66	9.830	.762 - 1.27	16.81	5.563	1.27 - 1.78	16.99	13.79	.381 - .762
16.21	10.41	.508 - 1.02	16.38	8.814	.635 - 1.02	16.51	14.27	.127 - .254	16.66	10.08	.381 - .635	16.81	8.230	.254 - .508	16.99	13.97	.381 - .762
16.21	12.85	.635 - 1.02	16.38	9.982	1.27 - 1.57	16.54	3.734	1.07 - 1.52	16.66	10.26	2.03 - 2.64	16.81	9.804	.508 - 1.02	16.99	14.02	.127 - .254
16.23	5.055	1.52 - 2.03	16.38	11.02	.813 - 1.22	16.54	4.064	.508 - .762	16.66	10.31	2.29 - 3.18	16.81	9.982	1.02 - 1.52	17.02	3.073	1.52 - 2.03
16.23	8.255	.254 - .508	16.38	11.20	1.52 - 2.03	16.54	5.817	.127 - .254	16.66	11.51	.127 - 1.02	16.81	10.97	1.52 - 2.03	17.02	3.124	.127 - .254
16.23	10.01	.508 - 1.02	16.38	11.94	.127 - .254	16.54	8.001	.254 - .508	16.66	11.63	1.02 - 1.52	16.81	11.71	.762 - 1.27	17.02	3.302	.127 - .254
16.23	10.54	.635 - 1.02	16.38	12.95	.127 - .254	16.54	9.500	.254 - .508	16.66	11.68	.635 - .889	16.81	12.12	.254 - .508	17.02	4.267	1.02 - 1.52
16.23	11.13	.762 - 1.27	16.38	13.16	1.02 - 1.52	16.54	9.576	.762 - 1.27	16.66	11.94	.889 - 1.27	16.81	12.37	1.52 - 1.78	17.02	4.293	1.02 - 1.52
16.23	11.15	1.02 - 1.27	16.41	5.182	1.52 - 1.78	16.54	9.627	.127 - .254	16.66	12.42	.127 - .254	16.81	14.05	.254 - .508	17.02	4.521	.762 - 1.02
16.23	11.51	.127 - .254	16.41	5.334	1.52 - 2.79	16.54	9.652	.381 - .762	16.66	12.70	.762 - 1.27	16.84	3.556	.127 - .254	17.02	4.826	.381 - .813
16.23	13.31	.635 - .889	16.41	6.477	.508 - .762	16.54	10.01	.127 - .254	16.66	12.78	.254 - .508	16.84	11.61	1.27 - 1.78	17.02	5.283	.127 - .254
16.23	13.97	.127 - .254	16.41	6.934	.508 - .889	16.54	10.11	.127 - .254	16.66	12.95	.127 - .254	16.84	12.80	.127 - .254	17.02	5.944	.127 - .254
16.23	14.63	.381 - .762	16.41	8.026	.127 - .305	16.54	11.43	.254 - .508	16.66	12.98	.127 - .762	16.84	14.12	.254 - .508	17.02	6.020	.127 - .254
16.26	.9144	.381 - .762	16.41	8.738	.508 - .762	16.54	11.68	.127 - .254	16.66	13.08	.381 - .762	16.84	14.22	.254 - .508	17.02	6.071	.127 - .254
16.26	1.854	.635 - 1.02	16.41	9.982	2.29 - 2.67	16.54	11.81	.254 - .508	16.66	13.41	.381 - .762	16.87	6.502	2.54 - 3.18	17.02	6.096	.127 - .254
16.26	4.267	.635 - 1.02	16.41	10.39	.127 - .254	16.54	12.32	1.02 - 1.52	16.66	14.30	.508 - 1.02	16.87	6.579	.127 - 3.18	17.02	6.223	.508 - .762
16.26	4.445	.635 - 1.07	16.41	11.35	.127 - .254	16.54	12.83	.127 - .254	16.66	14.35	.254 - .508	16.87	10.49	.762 - 1.27	17.02	6.426	.127 - .254
16.26	4.724	.762 - 1.27	16.41	13.69	.127 - .254	16.54	14.00	.127 - .762	16.69	5.486	1.52 - 2.03	16.87	12.78	.635 - 1.27	17.02	6.528	1.02 - 3.18
16.26	6.375	.508 - 1.02	16.43	3.327	.127 - .254	16.56	2.438	1.57 - 1.98	16.69	6.350	2.03 - 2.67	16.87	13.74	1.02 - 1.52	17.02	6.604	.508 - .762
16.26	6.502	.127 - .254	16.43	4.851	.762 - 1.27	16.56	2.997	1.57 - 2.29	16.69	6.477	.381 - .762	16.89	4.394	1.27 - 1.91	17.02	7.112	.254 - .508
16.26	7.595	.127 - .254	16.43	7.188	.762 - 1.27	16.56	4.902	.762 - 1.27	16.69	6.382	1.91 - 2.54	16.89	6.325	.762 - 1.27	17.02	7.620	.127 - .254
16.26	8.484	.127 - .254	16.43	9.017	.254 - .508	16.56	6.553	1.52 - 2.03	16.69	8.585	2.67 - 3.18	16.89	6.375	1.91 - 2.29	17.02	8.001	.127 - .254
16.26	8.687	1.02 - 1.52	16.43	9.677	2.67 - 3.18	16.56	9.550	.127 - .254	16.69	9.220	.127 - .254	16.89	8.484	1.27 - 3.30	17.02	8.052	.127 - .254
16.26	9.169	.762 - 1.27	16.43	10.34	.762 - 1.27	16.56	10.16	.254 - .508	16.69	9.525	.127 - .254	16.89	9.500	3.05 - 3.56	17.02	8.103	1.27 - 1.78
16.26	9.576	.762 - 1.02	16.43	11.99	.381 - .762	16.56	10.31	.381 - .762	16.69	10.49	.127 - .254	16.89	9.728	1.02 - 1.52	17.02	8.382	1.27 - 1.91
16.26	9.906	1.27 - 1.91	16.43	12.50	.127 - .254	16.56	10.46	.127 - .254	16.69	10.59	.127 - .254	16.89	10.08	1.78 - 2.29	17.02	8.407	.127 - .254
16.26	10.16	.127 - .254	16.46	2.362	.127 - .254	16.56	11.05	.127 - .254	16.69	13.46	.508 - 1.02	16.89	11.02	1.02 - 1.52	17.02	8.890	.508 - 2.54
16.26	10.31	.127 - .254	16.46	3.658	.508 - 1.02	16.56	11.15	.508 - 1.02	16.69	13.49	1.02 - 1.52	16.89	13.08	.635 - 1.02	17.02	8.992	2.67 - 3.18
16.26	10.90	.305 - .508	16.46	5.131	.203 - .381	16.56	11.51	.127 - .254	16.69	13.67	1.02 - 1.52	16.89	13.97	.127 - .305	17.02	9.017	.127 - .254
16.26	11.20	.254 - .508	16.46	5.309	.381 - .762	16.56	12.73	.762 - 1.07	16.69	15.57	.406 - .635	16.89	14.45	.508 - 1.02	17.02	9.144	1.02 - 1.27
16.26	11.25	.635 - 1.02	16.46	6.350	1.27 - 1.78	16.56	12.95	.254 - .508	16.71	6.477	.254 - .508	16.89	14.63	.762 - 1.22	17.02	9.271	1.52 - 2.03
16.26	11.28	.381 - .762	16.46	6.756	.127 - .254	16.59	3.912	1.02 - 1.57	16.71	7.976	.762 - 1.27	16.92	3.632	.381 - .762	17.02	9.601	1.52 - 2.03
16.26	11.33	.381 - .762	16.46	7.569	1.27 - 1.91	16.59	6.045	1.02 - 1.57	16.71	9.525	.254 - .508	16.92	4.267	1.91 - 2.29	17.02	9.703	.762 - 1.52
16.26	11.46	2.03 - 2.29	16.46	9.703	.127 - .305	16.59	8.026	.254 - .508	16.71	9.779	1.27 - 1.52	16.92	4.978	.508 - 1.02	17.02	10.11	1.02 - 1.52
16.26	11.68	1.27 - 1.52	16.46	12.45	.254 - .508	16.59	8.052	.127 - .254	16.71	11.10	.127 - .305	16.92	6.502	1.91 - 2.29	17.02	10.19	.381 - .762
16.26	12.32	.508 - 1.02	16.46	12.52	.381 - .762	16.59	9.550	.254 - .508	16.71	12.14	.381 - .635	16.92	6.782	1.02 - 1.57	17.02	10.31	.127 - .254
16.26	12.42	1.02 - 1.52	16.46	13.23	.127 - .254	16.59	9.957	1.27 - 2.29	16.71	12.17	.762 - 1.07	16.92	10.92	.508 - .762	17.02	10.69	.127 - .254
16.26	12.73	.381 - 1.22	16.46	14.00	.127 - .254	16.59	10.52	1.27 - 1.78	16.71	12.98	.762 - 1.78	1					

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
17.04	9.931	.127 - 1.91	17.22	10.29	.254 - .762	17.32	12.78	.127 - .254	17.42	5.029	1.07 - 1.52	17.45	12.22	1.27 - 1.78	17.53	1.930	.254 - .508
17.04	10.03	.508 - .762	17.22	11.18	.127 - .254	17.32	14.68	.381 - .762	17.42	5.131	2.54 - 3.18	17.45	12.37	.635 - 1.02	17.53	3.785	1.27 - 1.52
17.04	12.04	.127 - .254	17.22	11.23	.305 - .508	17.32	15.27	.508 - .762	17.42	6.401	1.02 - 1.52	17.45	12.70	.254 - 1.27	17.53	4.242	.127 - .254
17.04	12.88	.203 - .381	17.22	11.40	1.02 - 1.52	17.35	3.073	1.27 - 1.78	17.42	6.426	1.07 - 1.57	17.45	12.78	.127 - .254	17.53	4.394	1.27 - 1.78
17.04	14.43	.254 - .508	17.22	12.80	.381 - .762	17.35	4.369	.254 - .635	17.42	6.833	1.27 - 1.83	17.45	12.85	.127 - .254	17.53	4.775	1.02 - 1.52
17.07	3.251	2.54 - 3.18	17.22	12.88	.127 - .254	17.35	8.763	1.78 - 2.29	17.42	6.858	.127 - .254	17.45	12.95	1.27 - 1.52	17.53	4.826	.254 - .508
17.07	8.255	.381 - .762	17.22	13.44	.127 - .178	17.35	9.550	.127 - .254	17.42	7.950	2.54 - 3.05	17.45	12.98	.508 - 1.02	17.53	4.877	1.52 - 2.03
17.07	8.280	2.03 - 3.18	17.22	13.46	.381 - .762	17.35	9.601	.381 - .762	17.42	8.763	1.52 - 2.03	17.45	13.03	1.07 - 1.57	17.53	5.131	.762 - 1.27
17.07	8.788	.127 - .254	17.22	14.33	.889 - 1.27	17.35	9.627	1.02 - 1.52	17.42	8.788	.635 - .889	17.45	13.13	.762 - 1.22	17.53	5.232	1.27 - 1.91
17.07	9.195	.127 - .254	17.22	14.43	.254 - .508	17.35	10.06	1.78 - 2.29	17.42	9.144	.381 - .635	17.45	14.33	.127 - .254	17.53	5.588	.508 - .813
17.07	9.525	.127 - .254	17.22	15.01	.127 - .254	17.35	10.16	.813 - 1.07	17.42	9.576	1.52 - 2.03	17.45	14.38	.127 - .381	17.53	6.350	3.18 - 3.43
17.07	10.29	2.79 - 3.30	17.22	15.06	.127 - .254	17.35	10.31	1.02 - 2.67	17.42	9.627	.635 - 1.02	17.45	15.32	.127 - .254	17.53	6.452	1.27 - 1.78
17.07	10.34	.254 - .508	17.22	15.39	.127 - .254	17.35	11.18	.381 - .762	17.42	9.677	2.03 - 2.67	17.48	3.302	1.27 - 1.52	17.53	6.706	2.67 - 3.18
17.07	10.54	.127 - .254	17.25	2.819	1.22 - 1.57	17.35	12.14	.635 - .889	17.42	9.779	1.22 - 1.57	17.48	4.267	1.27 - 1.52	17.53	6.731	2.54 - 3.18
17.07	11.23	.762 - 1.02	17.25	5.232	.889 - 1.52	17.35	12.40	2.03 - 2.64	17.42	9.906	1.22 - 1.57	17.48	5.207	.635 - 1.02	17.53	7.112	1.27 - 1.91
17.07	11.30	.635 - 1.52	17.25	5.613	.254 - .381	17.35	12.83	1.27 - 1.78	17.42	9.957	1.27 - 1.57	17.48	5.232	1.02 - 1.52	17.53	7.137	1.27 - 1.78
17.07	12.45	1.27 - 1.78	17.25	10.03	.762 - 1.27	17.35	12.95	.762 - 1.57	17.42	10.03	.254 - .508	17.48	5.486	1.27 - 1.78	17.53	8.052	2.03 - 2.54
17.07	13.49	.762 - 1.02	17.25	10.06	.381 - .762	17.35	13.00	.127 - .254	17.42	10.11	.127 - .254	17.48	6.426	.254 - .508	17.53	8.204	.508 - 1.78
17.09	2.489	.508 - 1.02	17.25	10.24	1.27 - 1.91	17.35	14.48	1.02 - 1.27	17.42	10.34	1.27 - 1.78	17.48	6.579	1.02 - 1.52	17.53	8.382	2.67 - 3.43
17.09	7.188	.127 - .254	17.25	10.39	1.02 - 1.27	17.35	14.61	1.02 - 1.52	17.42	10.69	.127 - .254	17.48	6.680	.127 - 4.83	17.53	8.534	1.52 - 1.91
17.09	10.36	.127 - .254	17.25	10.44	.127 - .254	17.35	14.71	.381 - .635	17.42	11.10	.381 - .762	17.48	7.214	.127 - .254	17.53	8.712	1.27 - 1.78
17.09	10.46	2.54 - 3.40	17.25	11.20	.762 - 1.27	17.37	5.944	1.57 - 1.98	17.42	11.13	1.27 - 1.91	17.48	7.899	.254 - 1.02	17.53	8.738	2.54 - 3.05
17.09	11.10	.254 - .635	17.25	11.46	.127 - .254	17.37	6.274	1.27 - 1.91	17.42	12.27	1.27 - 1.91	17.48	7.950	.508 - 3.56	17.53	8.992	.127 - .254
17.09	11.33	.127 - .254	17.25	11.61	.762 - 1.52	17.37	7.087	.127 - .254	17.42	12.70	.762 - 1.78	17.48	8.026	.127 - .254	17.53	9.271	.127 - .254
17.09	12.01	.254 - .635	17.25	12.24	.381 - 1.57	17.37	7.696	.127 - .254	17.42	12.75	.635 - 1.07	17.48	8.052	.127 - .254	17.53	9.550	.254 - .762
17.09	12.70	.508 - .914	17.25	12.70	.127 - .254	17.37	8.204	.508 - 1.02	17.42	13.00	.127 - .254	17.48	8.280	.381 - .762	17.53	9.779	2.29 - 2.64
17.09	13.64	.127 - .254	17.25	12.73	.381 - .762	17.37	10.13	.127 - .254	17.42	13.21	.381 - .762	17.48	8.331	2.03 - 2.67	17.53	11.07	2.54 - 3.18
17.12	2.413	.254 - .508	17.25	12.93	.127 - .254	17.37	10.16	.381 - .762	17.42	13.41	.127 - .254	17.48	8.382	.762 - 1.27	17.53	12.07	.762 - 1.27
17.12	9.576	.635 - 1.02	17.27	4.140	.127 - .254	17.37	10.46	2.54 - 3.18	17.42	15.88	.381 - .762	17.48	8.484	.127 - .254	17.53	12.55	1.91 - 2.29
17.12	9.931	.127 - .254	17.27	5.080	.813 - 1.27	17.37	11.25	.127 - .305	17.45	2.591	.127 - .254	17.48	8.712	1.78 - 2.29	17.53	12.78	1.27 - 1.78
17.12	10.03	.127 - .254	17.27	6.071	.127 - .254	17.37	11.84	2.29 - 2.54	17.45	3.023	.381 - .762	17.48	8.738	1.78 - 2.29	17.53	13.46	1.02 - 1.52
17.12	11.20	.127 - 2.03	17.27	6.426	.127 - .762	17.37	12.95	1.27 - 1.78	17.45	4.750	.762 - 1.27	17.48	8.865	.127 - .254	17.53	13.54	1.83 - 2.29
17.12	11.43	1.02 - 1.52	17.27	6.502	1.02 - 1.52	17.37	13.77	.889 - 1.27	17.45	4.801	.254 - 1.52	17.48	8.890	1.27 - 1.78	17.53	13.77	.127 - .254
17.12	12.01	.635 - 1.02	17.27	6.655	.127 - .254	17.37	14.43	.635 - 1.14	17.45	4.851	.127 - .254	17.48	8.941	1.27 - 1.78	17.53	14.38	.762 - 1.27
17.12	12.19	1.78 - 2.29	17.27	6.858	.381 - .889	17.37	14.76	.381 - .635	17.45	4.928	3.18 - 3.96	17.48	9.550	.127 - 1.07	17.53	14.45	.254 - .508
17.12	12.80	1.91 - 2.29	17.27	7.188	2.03 - 2.67	17.37	15.06	.762 - 1.02	17.45	5.029	2.29 - 2.67	17.48	9.601	1.27 - 1.91	17.53	14.61	.254 - .508
17.12	13.61	1.02 - 1.52	17.27	7.620	.813 - 1.27	17.37	15.57	.381 - .762	17.45	5.055	.381 - .508	17.48	9.754	1.27 - 1.78	17.53	15.62	.508 - .762
17.12	14.27	.508 - .762	17.27	8.026	1.22 - 1.57	17.40	3.632	1.02 - 1.52	17.45	5.080	.813 - 1.07	17.48	9.804	1.27 - 1.78	17.53	15.88	.254 - .508
17.15	2.413	.127 - .254	17.27	8.052	.762 - 1.02	17.40	4.013	1.52 - 2.11	17.45	5.563	.914 - 1.27	17.48	9.931	2.67 - 3.18	17.53	16.23	.127 - .254
17.15	5.156	.508 - 1.02	17.27	8.255	.127 - 1.27	17.40	5.715	.127 - .254	17.45	5.613	.508 - 1.57	17.48	9.982	1.91 - 2.29	17.55	4.140	.635 - 1.02
17.15	5.690	.127 - .254	17.27	8.280	1.78 - 2.29	17.40	5.918	.254 - .508	17.45	5.944	.127 - .254	17.48	10.34	.127 - .254	17.55	4.801	1.27 - 1.78
17.15	7.112	1.52 - 2.29	17.27	8.382	.381 - .762	17.40	6.452	.254 - 1.91	17.45	6.020	.127 - .254	17.48	11.48	.762 - 1.27	17.55	4.877	.508 - 1.02
17.15	7.214	.813 - 1.27	17.27	9.373	1.27 - 1.91	17.40	6.680	.254 - .381	17.45	6.528	2.03 - 2.29	17.48	11.79	2.03 - 2.54	17.55	4.928	.381 - .762
17.15	7.645	1.27 - 2.67	17.27	9.525	1.02 - 1.52	17.40	6.706	.127 - .254	17.45	6.579	.127 - .254	17.48	11.89	.508 - 1.02	17.55	5.156	.127 - .254
17.15	9.525	.254 - .508	17.27	10.72	.127 - .381	17.40	6.833	1.27 - 1.78	17.45	6.782	.762 - 1.22	17.48	11.91	.381 - .762	17.55	6.045	.762 - 1.27
17.15	9.804	1.02 - 1.52	17.27	11.23	1.02 - 1.52	17.40	8.255	2.29 - 3.05	17.45	7.518	1.27 - 1.91	17.48	12.83	1.52 - 2.03	17.55	6.553	1.52 - 2.03
17.15	10.16	.254 - 1.02	17.27	11.30	.127 - .254	17.40	8.738	1.02 - 1.52	17.45	7.772	1.02 - 1.52	17.48	13.03	1.27 - 1.91	17.55	12.07	.762 - 1.52
17.15	10.57	.381 - .762	17.27	11.35	.254 - .508	17.40	8.788	1.78 - 2.67	17.45	7.925	3.05 - 3.96	17.48	13.16	.127 - .254	17.55	12.32	.127 - .254
17.15	11.05	1.78 - 2.29	17.27	11.94	.127 - .254	17.40	9.296	2.67 - 3.18	17.45	8.026	.914 - 1.22	17.48	13.67	.381 - 1.02	17.55	12.98	.508 - .762
17.15	11.18	.127 - .254	17.27	12.09	.762 - 1.27	17.40	9.423	2.54 - 3.18	17.45	8.204	1.22 - 1.57	17.48	14.30	.127 - .254	17.55	13.08	.381 - .762
17.15	11.23	.127 - .254	17.27	12.32	1.27 - 1.52	17.40	9.525	.813 - 1.57	17.45	8.331	.127 - .305	17.48	15.62	.381 - .762	17.55	15.19	.127 - .254
17.15	11.35	2.03 - 2.54	17.27	12.70	.813 - 1.27	17.40	9.550	2.54 - 3.18	17.45	8.382	1.27 - 1.91	17.50	3.962	1.02 - 1.52	17.58	7.264	1.07 - 1.57
17.15	11.63	.127 - 1.02	17.27	12.80	.508 - 1.02	17.40	9.601	2.03 - 2.54	17.45	8.611	1.27 - 1.78	17.50	4.115	2.54 - 3.05	17.58	10.31	.508 - 1.02
17.15	11.68	.254 - .508	17.27	13.06	.508 - 1.02	17.40	9.627	.254 - 1.22	17.45	8.712	.127 - .254	17.50	5.639	2.29 - 3.05	17.58	13.18	.127 - .254
17.15	12.19	.127 - 1.52	17.27	13.31	.762 - 1.27	17.40	9.652	.635 - 1.52	17.45	8.890	1.27 - 1.91	17.50	6.325	.127 - .254	17.58	15.32	.381 - .762
17.15	12.70	1.02 - 1.52	17.27	13.72	.127 - .254	17.40	9.931	2.29 - 2.79	17.45	9.119	.635 - 1.22	17.50	6.934	.127 - .254	17.60	3.023	.127 - .305
17.15	12.80	.127 - .254	17.27	14.20	.127 - .254	17.40	9.957	2.29 - 2.79	17.45	9.423	2.54 - 3.18	17.50	7.137	1.27 - 1.78	17.60	5.994	.127 - .254
17.15	13.08	.635 - 1.22	17.27	14.33	.762 - 1.27	17.40	10.16	2.67 - 3.18	17.45	9.550	.254 - .508	17.50	7.950	.508 - 1.02	17.60	8.128	.127 - .254
17.15	14.78	.127 - .254	17.27	14.35													

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
17.65	14.15	.127 - .254	17.78	10.01	3.43 - 3.96	17.86	10.39	.254 - .508	17.98	8.992	1.27 - 1.52	18.03	12.62	.762 - 1.27	18.21	11.18	2.03 - 2.54
17.65	14.17	.381 - .762	17.78	10.08	.127 - .254	17.86	11.25	.127 - .254	17.98	9.449	.254 - .508	18.03	12.83	1.27 - 1.78	18.21	11.35	.127 - .254
17.65	15.90	.381 - .635	17.78	10.29	3.05 - 3.40	17.86	12.19	.762 - 1.27	17.98	9.525	.127 - .254	18.03	12.88	.508 - .889	18.21	12.01	.381 - .762
17.68	.9398	.178 - .381	17.78	10.31	1.27 - 3.81	17.86	12.24	1.27 - 1.78	17.98	9.982	.127 - .508	18.03	13.34	.127 - .254	18.21	12.09	.635 - 1.02
17.68	3.734	.127 - .381	17.78	10.44	.127 - 1.52	17.86	12.37	1.02 - 1.27	17.98	10.01	1.27 - 1.78	18.03	13.36	.254 - .635	18.21	12.14	.127 - .254
17.68	3.962	.127 - .254	17.78	10.59	.127 - .508	17.86	13.11	.508 - 1.02	17.98	10.03	.254 - .508	18.03	13.46	1.78 - 2.29	18.21	13.08	1.27 - 1.91
17.68	4.216	1.57 - 2.29	17.78	11.05	.127 - .254	17.86	13.34	.762 - 1.27	17.98	10.26	1.27 - 1.78	18.03	13.54	1.27 - 1.78	18.21	13.92	.127 - .254
17.68	4.521	1.57 - 1.98	17.78	11.10	.127 - .254	17.86	13.72	1.02 - 1.52	17.98	10.49	2.03 - 2.54	18.03	14.61	1.02 - 1.52	18.21	15.95	.127 - .254
17.68	4.978	1.27 - 1.78	17.78	11.20	.127 - .508	17.86	16.13	.254 - .508	17.98	10.54	.635 - 1.02	18.03	14.68	1.02 - 1.52	18.24	3.327	.762 - 1.27
17.68	7.137	2.29 - 3.05	17.78	11.25	2.67 - 3.18	17.88	1.981	1.02 - 1.52	17.98	12.14	2.03 - 2.29	18.03	14.96	.127 - .762	18.24	4.064	1.22 - 1.57
17.68	11.63	.635 - 1.07	17.78	11.33	.254 - .508	17.88	6.579	1.27 - 1.78	17.98	13.00	.127 - 1.02	18.03	15.49	.254 - .508	18.24	4.801	.381 - .762
17.68	12.65	.127 - .254	17.78	11.43	.127 - 2.03	17.88	6.706	1.52 - 2.03	17.98	13.97	.508 - .914	18.03	15.75	.127 - .254	18.24	5.207	.127 - .254
17.68	13.49	.381 - .762	17.78	11.56	.127 - .254	17.88	6.807	1.52 - 2.29	17.98	14.00	1.14 - 1.52	18.06	4.064	.127 - .254	18.24	5.410	.381 - .762
17.70	7.950	2.29 - 2.79	17.78	11.58	.762 - 1.27	17.88	8.712	1.52 - 2.03	17.98	14.61	.254 - .635	18.06	4.267	.127 - .254	18.24	6.401	.254 - .635
17.70	13.51	.635 - 1.02	17.78	11.81	.508 - 1.02	17.88	9.296	.254 - 1.02	17.98	16.00	.127 - .254	18.06	8.128	.127 - .254	18.24	6.528	.635 - 1.02
17.73	5.867	.127 - .254	17.78	12.01	.127 - .254	17.88	12.07	.254 - .635	17.98	16.05	.127 - .254	18.06	10.34	.508 - 1.27	18.24	6.655	.508 - 1.02
17.73	9.169	.127 - .254	17.78	12.09	.127 - .254	17.88	12.14	1.02 - 1.52	17.98	16.15	.381 - .762	18.06	12.32	1.02 - 1.52	18.24	7.163	1.57 - 2.11
17.73	12.12	.127 - .254	17.78	12.14	1.78 - 2.03	17.88	12.19	.381 - .762	17.98	16.18	.127 - .508	18.06	12.34	1.02 - 1.52	18.24	7.950	.381 - .762
17.73	12.70	.127 - .254	17.78	12.70	.127 - .254	17.88	12.62	.508 - .889	17.98	16.28	.127 - .254	18.06	13.36	.381 - .635	18.24	8.966	.127 - .254
17.73	12.85	.254 - .508	17.78	12.73	1.78 - 2.29	17.88	12.78	1.52 - 2.54	18.01	3.683	.127 - .254	18.08	4.496	.508 - .813	18.24	9.525	.762 - 1.52
17.73	13.39	.127 - .254	17.78	12.75	.254 - 2.54	17.88	13.51	.762 - 1.27	18.01	3.785	.762 - 1.52	18.08	5.080	.127 - .381	18.24	9.601	.635 - 1.27
17.73	13.74	.635 - 1.02	17.78	12.80	.127 - .762	17.88	14.05	.127 - .254	18.01	4.496	.127 - .254	18.08	5.944	.127 - .254	18.24	9.652	.127 - 2.29
17.73	13.77	.762 - 1.52	17.78	12.85	.381 - 1.07	17.88	15.24	.508 - 1.02	18.01	4.597	1.52 - 2.03	18.08	5.994	.127 - .254	18.24	10.03	.254 - .508
17.73	14.33	.254 - .508	17.78	12.95	.254 - .635	17.88	15.90	.127 - .254	18.01	6.071	.127 - .508	18.08	6.248	2.03 - 2.67	18.24	10.11	.127 - .254
17.73	15.29	.127 - .254	17.78	12.98	.508 - 1.02	17.91	2.159	.127 - .305	18.01	6.172	.127 - .254	18.08	6.401	.127 - .254	18.24	10.31	.127 - .254
17.73	15.90	.127 - .254	17.78	13.06	.508 - 1.52	17.91	2.489	.127 - .254	18.01	6.426	4.06 - 4.57	18.08	12.83	.127 - .254	18.24	10.36	.762 - 1.27
17.75	1.778	1.02 - 1.52	17.78	13.46	1.78 - 2.03	17.91	6.299	.381 - .762	18.01	6.579	1.02 - 1.52	18.08	13.06	.127 - .254	18.24	10.62	.381 - .762
17.75	1.930	.381 - .635	17.78	13.49	.508 - 1.02	17.91	6.426	1.27 - 1.83	18.01	7.950	.127 - 2.79	18.08	13.34	1.02 - 1.52	18.24	11.13	2.29 - 3.18
17.75	5.105	1.02 - 1.52	17.78	13.51	.127 - .254	17.91	6.731	.508 - 1.02	18.01	7.976	.127 - .254	18.08	13.46	.762 - 1.27	18.24	11.79	.127 - .254
17.75	5.334	1.52 - 2.03	17.78	13.54	.762 - 1.27	17.91	6.960	.127 - .254	18.01	8.026	.127 - .762	18.08	14.40	.381 - .762	18.24	11.81	1.52 - 1.78
17.75	9.550	.127 - .254	17.78	13.59	1.02 - 1.27	17.91	7.899	.127 - .254	18.01	8.052	.127 - .254	18.08	16.41	.127 - .254	18.24	12.37	.127 - .254
17.75	9.652	.127 - .254	17.78	13.97	.127 - .254	17.91	7.925	.127 - .254	18.01	8.128	.127 - .254	18.11	2.946	1.27 - 1.78	18.24	13.16	.508 - 1.02
17.75	12.27	.127 - .508	17.78	14.10	.381 - .762	17.91	8.052	.127 - .254	18.01	8.153	.127 - .254	18.11	5.055	.381 - .762	18.24	14.27	.127 - 1.02
17.75	12.70	.254 - .508	17.78	14.22	.127 - .762	17.91	9.169	2.67 - 3.18	18.01	8.179	.127 - .254	18.11	5.232	2.03 - 2.54	18.24	14.86	.127 - .254
17.75	12.75	.127 - .254	17.78	14.33	.635 - 1.83	17.91	9.728	.254 - .508	18.01	8.306	1.02 - 1.52	18.11	10.16	.381 - .635	18.24	15.06	.381 - .508
17.75	12.78	1.78 - 2.29	17.78	14.35	.254 - 1.52	17.91	11.13	.127 - .254	18.01	8.814	1.27 - 1.78	18.11	10.41	.127 - .254	18.24	15.11	.127 - .254
17.75	13.06	1.52 - 2.03	17.78	14.38	.381 - .813	17.91	13.11	.635 - 1.02	18.01	8.941	.381 - .762	18.11	11.10	1.52 - 1.91	18.24	15.24	1.14 - 1.52
17.75	14.27	1.02 - 1.52	17.78	14.68	.127 - .254	17.91	13.49	.127 - .254	18.01	9.804	.127 - .254	18.11	13.72	1.02 - 1.52	18.24	16.21	.152 - .762
17.78	1.930	.254 - .508	17.78	14.86	.127 - .254	17.91	13.97	.762 - 1.27	18.01	9.957	.254 - .508	18.11	15.11	.254 - .508	18.26	3.353	.762 - 1.27
17.78	1.956	.127 - .254	17.78	15.24	.254 - .508	17.91	16.10	.381 - .635	18.01	10.01	.254 - 1.27	18.11	17.07	.127 - .254	18.26	4.978	1.02 - 1.52
17.78	2.362	.127 - .254	17.78	15.44	.127 - .254	17.93	6.452	.762 - 1.27	18.01	10.03	.127 - .508	18.14	2.565	.508 - .762	18.26	5.029	.381 - .762
17.78	2.438	1.27 - 1.57	17.78	15.49	.381 - .762	17.93	8.814	.127 - .254	18.01	10.08	.127 - .508	18.14	2.819	.508 - .762	18.26	6.020	.127 - .254
17.78	3.048	1.78 - 2.29	17.78	15.62	.127 - .254	17.93	9.906	.127 - .254	18.01	10.13	.254 - .508	18.14	2.997	.508 - .762	18.26	6.096	.381 - .762
17.78	3.277	#VALUE!	17.78	16.03	.127 - .254	17.93	10.03	1.57 - 2.11	18.01	11.10	.127 - 1.27	18.14	3.175	.508 - .762	18.26	6.452	.203 - .406
17.78	3.505	.254 - .508	17.78	16.54	.127 - .254	17.93	10.11	1.27 - 1.78	18.01	11.56	2.29 - 2.67	18.14	3.556	.508 - .762	18.26	8.230	.381 - .762
17.78	4.039	1.02 - 1.52	17.81	3.302	1.52 - 2.03	17.93	10.21	.127 - .254	18.01	11.99	.127 - 1.27	18.14	4.623	.127 - .254	18.26	8.357	2.03 - 2.54
17.78	4.166	.254 - .508	17.81	3.886	1.22 - 2.29	17.93	10.67	.127 - .254	18.01	12.04	.254 - .508	18.14	5.664	1.27 - 1.78	18.26	9.500	.254 - .381
17.78	4.267	1.27 - 1.78	17.81	4.267	.127 - .254	17.93	11.02	.635 - 1.02	18.01	12.07	1.02 - 1.52	18.14	7.595	.508 - .762	18.26	9.601	.127 - .254
17.78	4.293	1.02 - 1.52	17.81	4.902	1.02 - 1.52	17.93	11.51	.813 - 1.07	18.01	12.09	.127 - .254	18.14	9.906	1.22 - 1.83	18.26	9.652	1.78 - 2.29
17.78	4.470	.127 - .254	17.81	5.182	1.27 - 1.78	17.93	12.14	1.02 - 1.52	18.01	12.24	1.78 - 2.29	18.14	10.52	1.02 - 1.52	18.26	10.03	1.02 - 1.52
17.78	4.902	.127 - .254	17.81	5.690	1.02 - 1.52	17.93	12.70	1.91 - 2.54	18.01	12.27	.127 - .254	18.14	14.10	1.27 - 1.91	18.26	11.15	2.03 - 2.67
17.78	5.334	1.27 - 1.78	17.81	6.121	1.27 - 1.78	17.93	12.83	.254 - 1.52	18.01	12.45	1.52 - 2.03	18.16	5.029	.762 - 1.98	18.26	11.20	1.78 - 2.29
17.78	5.613	1.91 - 2.29	17.81	6.528	1.27 - 2.54	17.96	8.001	2.54 - 3.18	18.01	12.50	.762 - 1.27	18.16	5.055	1.52 - 2.11	18.26	11.51	1.27 - 1.78
17.78	6.350	1.78 - 2.29	17.81	6.579	.127 - .254	17.96	8.026	.127 - 3.18	18.01	12.78	2.03 - 2.67	18.16	8.001	2.29 - 2.64	18.26	11.89	.508 - 1.02
17.78	6.401	.254 - .508	17.81	8.153	3.18 - 3.43	17.96	8.128	.127 - .254	18.01	13.97	.127 - .254	18.16	8.382	.127 - .305	18.26	13.79	1.02 - 1.52
17.78	6.426	1.27 - .254	17.81	10.41	.127 - .254	17.96	8.509	.508 - 1.02	18.01	15.04	.762 - 1.27	18.16	9.296	.508 - 1.02	18.26	14.10	1.02 - 1.52
17.78	6.502	1.02 - 1.52	17.81	10.64	1.27 - 1.78	17.96	11.07	.127 - .254	18.01	15.14	.508 - 1.02	18.16	9.627	.127 - .254	18.29	6.452	.508 - .889
17.78	6.909	1.52 - 2.03	17.81	10.80	1.27 - 1.78	17.96	11.99	.381 - .762	18.03	3.378	.127 - .254	18.16	11.10	.203 - .305	18.29	6.579	.127 - .254
17.78	7.391	.127 - .254	17.81	11.13	1.02 - 1.52	17.96	12.19	.127 - .254	18.0								

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
18.31	6.350	.127 - 1.91	18.49	12.70	.127 - .381	18.67	8.153	.762 - 1.52	18.80	11.15	.127 - .254	18.90	11.43	.127 - 1.91	18.95	14.35	1.91 - 2.29
18.31	8.077	.762 - 1.07	18.49	13.51	.508 - 1.02	18.67	8.788	1.27 - 2.03	18.80	11.18	.254 - .508	18.90	12.70	.127 - .305	18.95	14.71	.635 - 1.22
18.31	10.26	.157 - 1.98	18.49	13.84	.381 - .762	18.67	9.373	1.52 - 2.03	18.80	11.51	.508 - 1.02	18.90	12.80	.127 - .254	18.95	15.44	1.27 - 1.78
18.31	10.74	.127 - .254	18.49	14.58	.127 - .254	18.67	9.652	2.67 - 3.96	18.80	12.42	.127 - 2.03	18.90	12.88	1.02 - 1.91	18.95	15.77	.127 - .254
18.31	13.46	.254 - .508	18.49	15.01	.762 - 1.27	18.67	9.779	.508 - .762	18.80	12.73	.203 - .381	18.90	13.28	.762 - 1.27	18.95	15.93	.508 - 1.02
18.31	15.09	.406 - .635	18.49	16.03	.305 - .508	18.67	9.982	.127 - 2.79	18.80	12.75	2.03 - 2.54	18.90	13.34	1.02 - 1.27	18.95	16.10	.254 - .508
18.31	15.27	.508 - 1.02	18.49	16.05	.127 - .254	18.67	10.19	.381 - .635	18.80	12.95	1.02 - 1.52	18.90	13.51	.254 - .508	18.95	17.02	.127 - .254
18.34	4.724	.127 - .254	18.52	5.563	.254 - .508	18.67	10.46	.127 - .254	18.80	12.98	.127 - .254	18.90	14.25	.127 - .254	18.97	3.327	.635 - 1.02
18.34	5.613	2.03 - 2.54	18.52	9.627	.127 - .254	18.67	11.46	1.27 - 1.78	18.80	14.50	.127 - .254	18.90	15.21	.127 - .305	18.97	3.632	.762 - 1.27
18.34	5.918	1.27 - 1.78	18.52	9.703	3.43 - 3.96	18.67	11.53	2.54 - 3.30	18.80	15.32	.127 - .254	18.92	2.413	.127 - .254	18.97	5.436	1.65 - 2.03
18.34	6.731	1.27 - 1.91	18.52	10.08	.635 - 1.02	18.67	12.70	.508 - 1.78	18.80	15.90	.127 - .254	18.92	3.048	.381 - 1.02	18.97	5.969	.127 - .254
18.34	6.807	.127 - .254	18.52	12.70	.127 - .254	18.67	14.22	1.52 - 2.03	18.80	15.95	.127 - .254	18.92	3.200	.813 - 1.27	18.97	6.629	.381 - .635
18.34	7.976	1.27 - 1.91	18.52	13.03	.178 - .406	18.67	15.93	1.02 - 1.52	18.80	16.03	.127 - .254	18.92	3.632	.889 - 1.40	18.97	6.807	.127 - .254
18.34	8.128	1.27 - 2.03	18.52	14.02	1.52 - 2.03	18.69	2.997	.381 - .762	18.80	16.74	.127 - .254	18.92	4.674	.254 - .508	18.97	8.001	.127 - .254
18.34	8.230	.762 - 1.27	18.54	6.045	1.52 - 2.03	18.69	4.039	1.02 - 1.27	18.80	16.76	.508 - .762	18.92	4.826	1.02 - 1.52	18.97	8.026	.762 - 1.02
18.34	9.550	2.54 - 3.18	18.54	7.112	.254 - .508	18.69	4.064	.762 - 1.27	18.80	17.55	.127 - .254	18.92	4.851	.635 - .889	18.97	8.052	1.02 - 1.52
18.34	12.22	1.27 - 1.52	18.54	7.290	1.27 - 1.91	18.69	6.807	1.07 - 1.52	18.80	17.68	.254 - .508	18.92	4.902	.508 - 1.52	18.97	8.230	.508 - .762
18.34	12.70	1.83 - 2.29	18.54	10.19	.127 - .254	18.69	7.874	1.22 - 1.78	18.82	5.105	.381 - .635	18.92	5.080	1.27 - 1.78	18.97	9.550	.254 - .508
18.34	13.08	.254 - .508	18.54	10.54	.127 - .254	18.69	7.950	1.02 - 1.52	18.82	5.156	1.52 - 2.03	18.92	5.436	.381 - .762	18.97	9.576	.254 - .381
18.34	13.72	1.98 - 2.29	18.54	11.00	.635 - 1.02	18.69	8.077	.381 - .762	18.82	6.629	3.96 - 4.75	18.92	5.944	1.02 - 1.52	18.97	9.652	.203 - .406
18.34	16.15	.254 - .508	18.54	11.68	.254 - .508	18.69	9.652	.508 - .762	18.82	7.391	.381 - .635	18.92	6.198	.127 - .254	18.97	10.03	.254 - .508
18.36	5.613	.127 - 1.02	18.54	12.07	.508 - 1.02	18.69	9.804	1.02 - 1.52	18.82	7.518	.381 - .762	18.92	6.477	.813 - 1.27	18.97	10.08	2.67 - 3.18
18.36	7.976	1.02 - 1.52	18.54	12.19	1.27 - 1.78	18.69	11.86	.127 - .254	18.82	8.179	1.27 - 1.91	18.92	6.731	1.27 - 3.18	18.97	11.89	.762 - 1.27
18.36	9.703	.762 - 1.52	18.54	12.34	.508 - 1.02	18.69	12.80	.178 - .406	18.82	9.601	1.27 - 2.03	18.92	7.391	.127 - .254	18.97	12.07	.203 - .305
18.36	16.05	.127 - .254	18.54	12.50	.762 - 1.27	18.69	13.11	.762 - 1.27	18.82	10.03	.635 - 1.02	18.92	8.026	1.52 - 1.78	18.97	12.14	.127 - .381
18.36	16.18	.254 - .508	18.54	12.85	1.02 - 1.52	18.69	14.35	.127 - .254	18.82	10.46	2.03 - 2.67	18.92	8.052	2.67 - 3.43	18.97	12.47	.127 - .254
18.36	16.28	.127 - .254	18.54	13.18	1.27 - 1.78	18.69	14.68	.381 - .635	18.82	12.83	1.52 - 2.11	18.92	8.128	2.03 - 2.67	18.97	12.90	2.54 - 3.18
18.39	4.394	.762 - 1.27	18.54	13.36	.127 - .254	18.69	15.11	1.02 - 1.57	18.82	13.08	1.02 - 1.52	18.92	8.382	.381 - .762	18.97	12.95	.381 - .762
18.39	5.105	.508 - 1.02	18.54	14.50	.127 - .254	18.69	15.27	.381 - .762	18.82	13.44	.254 - .508	18.92	9.881	1.27 - 1.78	18.97	13.13	.254 - .508
18.39	9.703	.508 - 1.02	18.54	15.62	.508 - .762	18.69	16.08	.381 - .762	18.82	13.49	1.27 - 1.78	18.92	10.24	1.27 - 1.52	18.97	14.25	.254 - .635
18.39	10.87	.127 - .254	18.54	16.00	.762 - 1.07	18.69	16.51	.635 - 1.02	18.82	14.30	.762 - 1.27	18.92	10.72	2.29 - 2.54	18.97	14.38	1.27 - 1.78
18.39	12.90	.635 - 1.02	18.57	5.232	.762 - 1.27	18.72	8.077	.381 - .635	18.82	14.48	.508 - 1.02	18.92	11.13	.508 - .914	18.97	15.09	.127 - .254
18.39	13.18	.508 - 1.02	18.57	10.41	1.78 - 2.29	18.72	8.382	1.02 - 1.52	18.82	16.26	.127 - .254	18.92	11.46	.254 - .508	18.97	15.70	.127 - .254
18.39	14.48	.127 - .254	18.57	10.57	.127 - 2.03	18.72	9.246	.127 - .254	18.82	17.53	.127 - .254	18.92	11.53	3.05 - 3.56	18.97	15.95	.127 - .254
18.39	17.02	.127 - .254	18.57	10.82	.254 - .508	18.72	10.64	.762 - 1.52	18.85	3.785	.127 - .254	18.92	11.56	.813 - 1.27	18.97	16.54	.127 - .254
18.42	2.261	1.57 - 1.98	18.57	11.00	.762 - 1.27	18.72	11.07	1.02 - 1.27	18.85	5.740	1.91 - 2.54	18.92	11.89	.127 - .305	18.97	17.55	.381 - .635
18.42	3.251	1.02 - 1.52	18.57	11.51	2.54 - 3.05	18.72	12.78	1.52 - 2.11	18.85	6.375	1.02 - 1.52	18.92	12.93	.127 - .254	19.00	1.676	.381 - .762
18.42	4.064	.508 - 1.02	18.57	12.24	.508 - 1.02	18.72	12.83	.127 - 1.78	18.85	8.788	.508 - .762	18.92	12.95	.508 - 1.02	19.00	3.454	.787 - 1.07
18.42	4.750	1.52 - 2.29	18.57	14.33	.127 - .254	18.72	13.64	.762 - 1.27	18.85	9.144	1.27 - 1.52	18.92	13.74	.254 - .635	19.00	3.531	.508 - 1.07
18.42	6.375	.381 - .762	18.57	14.86	.127 - .254	18.72	13.87	.127 - .254	18.85	9.601	2.03 - 2.64	18.92	14.17	.254 - .508	19.00	3.734	1.57 - 1.91
18.42	7.518	2.54 - 3.18	18.59	1.092	.254 - .508	18.72	13.97	.635 - 1.02	18.85	9.652	.762 - 1.27	18.92	14.22	.127 - .254	19.00	4.394	.813 - 1.27
18.42	8.611	.127 - .762	18.59	4.039	1.78 - 2.29	18.75	8.687	1.07 - 1.52	18.85	9.830	2.54 - 3.43	18.92	14.27	.508 - .762	19.00	4.572	.203 - .406
18.42	8.788	.127 - .254	18.59	4.140	.381 - .762	18.75	8.788	.127 - .254	18.85	9.881	1.07 - 1.57	18.92	14.50	.127 - .254	19.00	5.105	1.52 - 2.29
18.42	11.63	.254 - .508	18.59	4.191	.127 - .254	18.75	12.98	.381 - .762	18.85	10.82	1.27 - 1.78	18.92	14.63	1.07 - 1.52	19.00	6.020	.127 - .254
18.42	13.72	1.27 - 1.78	18.59	5.055	1.07 - 2.03	18.75	13.67	.381 - .762	18.85	11.25	.635 - 1.52	18.92	15.01	.762 - 1.27	19.00	6.045	.127 - .254
18.42	13.92	.508 - 1.02	18.59	6.426	.254 - .381	18.75	13.72	.381 - .635	18.85	11.84	1.52 - 1.91	18.92	15.21	.127 - .254	19.00	6.071	1.27 - 1.78
18.44	4.648	1.27 - 1.78	18.59	6.680	1.02 - 1.57	18.75	13.82	.127 - .254	18.85	12.04	2.03 - 2.54	18.92	15.37	.127 - .254	19.00	6.121	1.02 - 1.52
18.44	7.722	.254 - .508	18.59	7.137	1.27 - 1.91	18.75	15.09	.381 - .762	18.85	12.75	1.52 - 1.78	18.92	15.90	1.02 - 1.52	19.00	6.325	1.27 - 1.91
18.44	8.001	.508 - .762	18.59	7.366	.127 - .254	18.75	15.11	.127 - .254	18.85	13.13	.127 - .762	18.92	15.95	.127 - .254	19.00	6.401	.127 - .254
18.44	8.255	.127 - .254	18.59	8.382	.127 - 1.52	18.77	5.639	1.02 - 1.52	18.85	14.38	.635 - 1.02	18.92	16.79	.254 - .381	19.00	6.452	1.52 - 2.29
18.44	8.712	.127 - .254	18.59	8.509	.508 - 1.02	18.77	7.747	.254 - .508	18.85	15.06	.635 - 1.02	18.92	17.60	.254 - .508	19.00	6.477	.127 - .254
18.44	9.525	2.67 - 3.18	18.59	11.25	.381 - .762	18.77	8.458	1.27 - 1.78	18.85	17.04	.254 - .508	18.95	2.540	.813 - 1.27	19.00	6.579	.203 - .406
18.44	9.855	.127 - .254	18.59	12.07	.203 - .381	18.77	10.34	1.52 - 2.03	18.87	3.658	1.78 - 2.29	18.95	3.175	.381 - .762	19.00	8.001	.127 - .254
18.44	10.31	.762 - 1.27	18.59	12.75	.635 - 1.07	18.77	10.95	1.78 - 2.29	18.87	6.883	1.27 - 1.91	18.95	4.216	1.27 - 1.91	19.00	8.026	.127 - 4.83
18.44	11.15	.508 - 1.02	18.59	13.97	1.02 - 1.27	18.77	12.83	.381 - .762	18.87	9.906	.127 - .254	18.95	5.080	1.52 - 2.03	19.00	8.052	.127 - .254
18.44	12.32	.381 - .762	18.62	4.039	1.78 - 2.29	18.77	13.18	.127 - .254	18.87	10.59	.127 - .254	18.95	5.156	.762 - 1.27	19.00	8.103	.127 - .254
18.44	16.05	.127 - .254	18.62	9.881	.254 - .508	18.77	13.26	.381 - .762	18.87	12.07	1.02 - 1.27	18.95	5.182	1.78 - 2.29	19.00	8.179	.127 - .254
18.47	6.528	.508 - 1.02	18.62	11.05	.762 - 1.27	18.77	14.35	.381 - .762	18.87	12.40	1.52 - 2.03	18.95	6.426	1.02 - 1.52	19.00	8.331	2.67 - 3.40
18.47	10.08	.127 - .254	18.62	13.08	1.27 - 1.78	18.77	14.63	.									

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
19.00	14.55	.305 - .508	19.05	1.753	.127 - .254	19.05	8.077	.127 - .381	19.05	12.95	.254 - .508	19.08	8.433	.127 - .254	19.13	8.382	2.79 - 3.30
19.00	14.78	.127 - .254	19.05	1.981	.127 - .254	19.05	8.103	1.02 - 2.54	19.05	12.98	.762 - 1.52	19.08	8.509	2.29 - 3.18	19.13	8.560	2.54 - 3.18
19.00	15.90	1.02 - 1.52	19.05	2.286	.254 - .381	19.05	8.128	.381 - .635	19.05	13.00	.127 - 1.91	19.08	8.712	.635 - 1.02	19.13	9.525	2.54 - 3.18
19.00	15.98	.254 - .508	19.05	2.438	1.52 - 2.29	19.05	8.153	.127 - .254	19.05	13.03	.254 - 1.91	19.08	9.169	.127 - .254	19.13	9.677	3.40 - 4.75
19.00	16.05	.381 - .762	19.05	2.591	.381 - .635	19.05	8.255	3.18 - 3.96	19.05	13.06	2.54 - 3.18	19.08	9.550	.127 - .381	19.13	9.754	1.27 - 1.78
19.00	16.10	.127 - .762	19.05	2.997	.127 - .254	19.05	8.280	.635 - 1.02	19.05	13.13	.762 - 1.27	19.08	9.627	1.02 - 1.52	19.13	10.29	1.27 - 1.83
19.00	16.13	.381 - .635	19.05	3.175	.305 - .635	19.05	8.306	1.57 - 2.29	19.05	13.26	.254 - .508	19.08	9.652	.127 - .508	19.13	10.39	.127 - .254
19.00	16.36	.635 - 1.02	19.05	3.200	.127 - .254	19.05	8.357	1.78 - 2.29	19.05	13.31	.381 - .762	19.08	9.830	2.67 - 3.18	19.13	11.99	2.54 - 3.05
19.00	17.02	.127 - .381	19.05	3.251	.127 - .254	19.05	8.382	.635 - 1.02	19.05	13.34	1.27 - 1.78	19.08	10.03	.508 - .762	19.13	12.12	.508 - 1.02
19.00	17.60	.127 - .254	19.05	3.277	2.29 - 2.64	19.05	8.407	.127 - .254	19.05	13.41	.127 - .254	19.08	10.16	1.27 - 2.03	19.13	12.29	.635 - 1.27
19.02	1.626	.762 - 1.27	19.05	3.378	.762 - 1.27	19.05	8.458	.127 - .254	19.05	13.46	1.02 - 2.67	19.08	10.67	2.79 - 3.30	19.13	13.36	.762 - 1.52
19.02	2.210	.381 - .762	19.05	3.404	.127 - .254	19.05	8.560	1.07 - 1.83	19.05	13.49	.254 - .508	19.08	11.05	.127 - .254	19.13	13.39	.127 - .254
19.02	4.064	.203 - .406	19.05	3.632	.381 - .762	19.05	8.738	1.91 - 2.54	19.05	13.51	.508 - 3.18	19.08	11.10	.127 - .254	19.13	15.47	.635 - 1.27
19.02	4.089	1.52 - 2.29	19.05	3.708	.254 - 1.98	19.05	8.763	.127 - 3.18	19.05	13.54	1.27 - 1.78	19.08	11.13	1.27 - 1.78	19.13	15.93	.127 - .381
19.02	4.597	1.52 - 2.29	19.05	3.734	.127 - .381	19.05	8.890	1.83 - 2.29	19.05	13.61	1.02 - 1.52	19.08	11.18	1.27 - 1.78	19.13	15.98	.127 - .254
19.02	4.826	.254 - .508	19.05	3.810	.127 - .508	19.05	8.992	.127 - .254	19.05	13.72	1.02 - 1.27	19.08	11.38	1.27 - 1.78	19.15	6.426	.127 - .254
19.02	4.928	2.29 - 3.18	19.05	3.937	.127 - .254	19.05	9.042	1.78 - 2.03	19.05	13.84	.381 - .762	19.08	11.56	.254 - .508	19.15	6.731	.762 - 1.52
19.02	5.080	.508 - 1.07	19.05	3.962	.635 - 1.91	19.05	9.119	.381 - 3.18	19.05	13.94	.127 - .254	19.08	11.76	1.27 - 1.78	19.15	9.982	.127 - .254
19.02	5.156	3.18 - 3.96	19.05	4.089	2.29 - 2.54	19.05	9.195	1.27 - 1.91	19.05	13.97	.508 - .762	19.08	11.94	1.91 - 2.29	19.15	10.87	1.22 - 1.57
19.02	5.182	.127 - 1.52	19.05	4.191	1.52 - 2.03	19.05	9.246	.127 - .254	19.05	14.00	.254 - .508	19.08	12.67	.127 - .635	19.15	11.68	2.67 - 3.18
19.02	5.588	2.67 - 3.43	19.05	4.216	.635 - .889	19.05	9.500	.254 - .508	19.05	14.17	1.02 - 1.52	19.08	12.70	1.27 - 1.78	19.15	11.91	1.02 - 1.52
19.02	5.613	1.02 - 1.52	19.05	4.343	.127 - .254	19.05	9.525	.127 - .254	19.05	14.27	1.02 - 1.52	19.08	12.78	.127 - 2.79	19.15	12.93	.762 - 1.27
19.02	5.817	4.06 - 4.75	19.05	4.369	.254 - .508	19.05	9.550	.127 - 3.18	19.05	14.30	.254 - 1.52	19.08	12.80	.254 - 2.03	19.15	13.51	2.03 - 2.67
19.02	6.020	.127 - .762	19.05	4.674	.762 - 1.27	19.05	9.576	.127 - .254	19.05	14.33	.127 - 1.52	19.08	12.83	.254 - 2.67	19.18	5.639	.127 - .254
19.02	6.401	.635 - 1.02	19.05	4.724	.127 - .381	19.05	9.601	.127 - 4.75	19.05	14.35	.254 - 1.02	19.08	12.85	.381 - .635	19.18	7.137	.127 - .254
19.02	6.528	1.83 - 3.05	19.05	4.775	1.52 - 2.11	19.05	9.627	.381 - 1.02	19.05	14.38	.305 - .508	19.08	12.90	.508 - .762	19.18	8.509	4.32 - 4.83
19.02	6.553	.762 - 1.02	19.05	4.801	.127 - 2.64	19.05	9.677	1.22 - 1.57	19.05	14.45	1.27 - 1.57	19.08	13.03	2.29 - 3.05	19.18	8.814	.254 - .508
19.02	6.680	.762 - 1.27	19.05	4.826	.381 - 3.18	19.05	9.703	.508 - 1.02	19.05	14.78	.762 - 1.27	19.08	13.08	.635 - 1.02	19.18	9.601	.254 - 2.03
19.02	6.807	1.52 - 2.29	19.05	4.851	1.27 - 1.91	19.05	9.728	1.52 - 2.11	19.05	14.83	.127 - .254	19.08	13.11	.203 - 1.52	19.18	9.779	.635 - 1.07
19.02	6.909	.127 - .254	19.05	4.877	1.27 - 1.78	19.05	9.754	.127 - .508	19.05	14.99	.127 - .254	19.08	13.23	1.22 - 1.52	19.18	9.982	.127 - .254
19.02	7.264	2.67 - 3.05	19.05	4.902	.254 - 1.91	19.05	9.779	.127 - .254	19.05	15.11	.127 - .508	19.08	13.31	.127 - .254	19.18	13.03	.762 - 1.02
19.02	7.950	.127 - 1.02	19.05	4.928	1.07 - 1.57	19.05	9.830	1.27 - 2.03	19.05	15.47	1.02 - 1.52	19.08	14.30	.127 - 1.02	19.18	13.21	.127 - .254
19.02	8.001	.127 - .254	19.05	4.953	.127 - 3.18	19.05	9.855	.635 - 1.02	19.05	15.88	.127 - 1.27	19.08	15.09	.254 - .508	19.18	13.51	.508 - 1.02
19.02	8.026	.127 - .254	19.05	5.004	.127 - .254	19.05	9.881	1.27 - 1.78	19.05	15.90	.381 - .762	19.08	15.24	.762 - 1.27	19.18	13.54	.254 - .508
19.02	8.179	.127 - .254	19.05	5.029	.635 - 2.67	19.05	9.906	.178 - 2.67	19.05	16.00	.127 - 1.52	19.08	15.39	.127 - .254	19.18	14.02	.762 - 1.02
19.02	8.204	2.67 - 3.18	19.05	5.080	.762 - 1.52	19.05	9.931	1.27 - 1.78	19.05	16.05	.127 - .254	19.08	15.90	.127 - .635	19.18	14.07	.127 - .254
19.02	8.382	1.52 - 2.29	19.05	5.131	.127 - .254	19.05	10.01	2.54 - 3.18	19.05	16.10	.127 - .508	19.08	16.08	.127 - .254	19.18	14.35	1.02 - 1.52
19.02	8.814	.508 - .889	19.05	5.156	.762 - 1.27	19.05	10.03	.508 - 1.27	19.05	16.23	.381 - .762	19.08	16.10	.127 - .254	19.18	14.88	.127 - .254
19.02	8.890	.127 - .254	19.05	5.182	1.27 - 1.78	19.05	10.06	1.52 - 1.78	19.05	16.26	.254 - .508	19.08	16.23	.254 - .381	19.20	5.842	.127 - .254
19.02	8.915	.127 - .254	19.05	5.232	1.78 - 2.29	19.05	10.16	.508 - 1.02	19.05	16.38	.254 - .508	19.08	16.51	.254 - .508	19.20	6.553	1.91 - 2.54
19.02	9.246	.127 - .254	19.05	5.309	.762 - 1.27	19.05	10.21	1.07 - 1.52	19.05	16.51	.635 - 1.02	19.10	3.632	2.29 - 3.05	19.20	9.525	1.02 - 1.27
19.02	9.525	.635 - 1.02	19.05	5.410	2.67 - 3.18	19.05	10.31	.254 - .762	19.05	16.54	1.02 - 1.52	19.10	3.683	2.54 - 3.18	19.20	10.03	.127 - .254
19.02	9.627	.914 - 1.52	19.05	5.537	.127 - .254	19.05	10.34	3.05 - 3.40	19.05	17.25	.127 - .254	19.10	3.810	2.29 - 2.67	19.20	10.36	.508 - .889
19.02	9.804	.127 - .254	19.05	5.664	3.18 - 3.96	19.05	10.44	1.52 - 1.78	19.05	17.55	.254 - .508	19.10	4.597	2.03 - 2.64	19.20	12.70	.254 - .508
19.02	9.830	.127 - .254	19.05	5.817	.127 - .254	19.05	10.49	.127 - .381	19.05	17.58	.381 - .635	19.10	4.724	.127 - .254	19.20	14.33	.127 - .254
19.02	10.03	.127 - .254	19.05	5.893	1.27 - 1.91	19.05	10.54	.127 - .254	19.05	17.70	.762 - 1.52	19.10	4.978	1.02 - 1.52	19.20	14.48	.508 - .762
19.02	10.08	.381 - .635	19.05	5.994	.127 - .762	19.05	10.64	2.03 - 2.54	19.05	17.78	.254 - .508	19.10	5.385	.762 - 1.52	19.23	3.531	.127 - .254
19.02	10.21	2.54 - 3.05	19.05	6.147	.762 - 1.27	19.05	10.67	2.67 - 3.18	19.05	17.91	.254 - .508	19.10	6.350	.127 - .254	19.23	6.172	.127 - .508
19.02	10.24	.127 - .203	19.05	6.350	.127 - 1.57	19.05	10.82	.127 - .254	19.08	2.667	.254 - .508	19.10	6.833	2.54 - 3.43	19.23	7.087	.127 - .381
19.02	10.36	.127 - .254	19.05	6.375	.127 - .762	19.05	11.10	.127 - .254	19.08	3.200	.762 - 1.27	19.10	7.696	.127 - .305	19.23	9.830	1.52 - 3.18
19.02	10.77	1.02 - 1.52	19.05	6.401	.127 - 2.03	19.05	11.13	1.02 - 1.57	19.08	3.277	1.27 - 1.78	19.10	8.001	2.64 - 3.43	19.23	10.16	1.02 - 1.52
19.02	11.10	1.07 - 1.52	19.05	6.426	.635 - 1.02	19.05	11.15	.254 - .508	19.08	3.556	2.03 - 2.54	19.10	8.052	.254 - .508	19.23	11.89	.762 - 1.27
19.02	11.13	.254 - .508	19.05	6.452	.127 - 2.54	19.05	11.18	2.03 - 2.64	19.08	4.267	1.02 - 1.52	19.10	8.103	.127 - .762	19.23	11.94	.508 - 1.02
19.02	11.18	.127 - 1.78	19.05	6.502	1.02 - 1.52	19.05	11.20	1.52 - 2.29	19.08	4.318	1.02 - 1.52	19.10	8.128	1.27 - 1.78	19.23	14.30	.254 - .508
19.02	11.30	.127 - .381	19.05	6.528	2.29 - 3.05	19.05	11.23	.127 - 2.29	19.08	4.674	.127 - .254	19.10	8.179	.127 - .254	19.25	5.944	.127 - .254
19.02	11.89	.127 - .254	19.05	6.579	.127 - .813	19.05	11.28	.381 - .762	19.08	4.750	.254 - .508	19.10	8.636	.127 - .254	19.25	7.874	.381 - .762
19.02	11.96	1.27 - 1.78	19.05	6.604	2.29 - 3.18	19.05	11.30	.762 - 1.27	19.08	4.775	1.52 - 2.11	19.10	9.068	1.27 - 1.78	19.25	10.01	1.02 - 1.52
19.02	12.04	1.27 - 1.78	19.05	6.629	1.02 - 2.03	19.05	11.33	.381 - .762	19.08	4.826	.127 - .254	19.10	9.525	1.57 - 1.91	19.25	15.44	1.27 - 1.91
19.02	12.67	.508 - 2.03	19.05	6.706	.127 -												

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
19.30	17.15	.254 - .508	19.58	16.23	1.27 - 1.52	19.79	17.27	.127 - .254	19.89	7.061	.254 - .508	19.99	8.357	.127 - .254	20.04	8.992	1.52 - 2.03
19.33	3.581	.127 - .381	19.58	17.78	.127 - .254	19.79	17.78	.254 - .508	19.89	8.128	1.27 - 1.78	19.99	9.017	3.43 - 3.96	20.04	11.13	.127 - .254
19.33	4.674	.127 - .381	19.61	4.775	.508 - 1.02	19.81	1.295	.635 - .889	19.89	11.51	2.03 - 2.64	19.99	9.652	.381 - .762	20.04	12.14	1.27 - 2.03
19.33	14.25	.762 - 1.27	19.61	6.350	1.02 - 1.52	19.81	4.826	1.02 - 1.52	19.89	12.40	.127 - .254	19.99	9.957	.127 - .254	20.04	12.65	.127 - .254
19.35	6.350	.127 - .254	19.61	6.731	1.52 - 1.78	19.81	6.782	1.57 - 2.29	19.89	12.70	.762 - 1.27	19.99	10.03	.127 - .254	20.04	13.79	.254 - .508
19.35	11.30	1.02 - 1.52	19.61	10.26	.127 - .254	19.81	7.772	.381 - .762	19.89	13.03	.635 - 1.02	19.99	10.08	.127 - .254	20.04	16.00	.254 - .508
19.35	15.65	.127 - .254	19.61	10.46	1.27 - 1.52	19.81	9.601	.127 - .508	19.89	15.34	.127 - .254	19.99	10.11	.127 - .508	20.07	4.064	.381 - .762
19.38	12.78	.127 - .254	19.61	17.04	.254 - .508	19.81	9.652	2.03 - 2.67	19.89	16.00	1.52 - 2.03	19.99	10.13	1.78 - 2.03	20.07	4.445	1.27 - 1.78
19.38	16.76	.127 - .254	19.63	3.200	.127 - .254	19.81	9.906	2.03 - 2.64	19.89	16.13	1.27 - 1.78	19.99	10.16	1.02 - 1.52	20.07	6.350	.813 - 1.07
19.41	8.001	1.27 - 1.91	19.63	6.045	1.57 - 2.03	19.81	9.931	2.03 - 2.54	19.89	16.38	.127 - .508	19.99	10.41	1.52 - 2.03	20.07	8.103	.127 - .254
19.41	13.41	1.52 - 2.03	19.63	9.398	1.52 - 2.03	19.81	10.24	.127 - .254	19.89	16.41	.127 - .254	19.99	10.77	.127 - .254	20.07	8.128	.127 - .254
19.41	17.96	.127 - .254	19.63	12.19	.381 - .762	19.81	10.36	.762 - 1.27	19.89	16.66	1.22 - 1.57	19.99	11.00	.254 - .508	20.07	8.661	.508 - 1.02
19.43	2.972	1.02 - 1.57	19.63	14.71	2.29 - 2.54	19.81	10.67	1.52 - 2.03	19.91	12.19	.762 - 1.27	19.99	11.51	.127 - .254	20.07	8.890	.635 - 1.22
19.43	5.639	.762 - 1.27	19.63	16.66	.508 - 1.02	19.81	10.72	.381 - 1.02	19.91	15.04	.381 - .762	19.99	11.99	.762 - 1.27	20.07	9.525	.381 - .762
19.43	6.731	2.54 - 3.18	19.63	17.20	1.02 - 1.27	19.81	10.80	.254 - .508	19.91	15.21	.762 - 1.27	19.99	12.01	.127 - .254	20.07	9.576	.508 - 1.02
19.43	7.239	.127 - .254	19.63	17.58	.127 - .254	19.81	11.68	.762 - 1.52	19.91	15.27	.762 - 1.27	19.99	12.07	.254 - .508	20.07	9.601	1.02 - 1.27
19.43	7.442	1.02 - 1.52	19.66	6.375	1.27 - 1.78	19.81	12.29	.127 - .254	19.91	15.54	.508 - .762	19.99	12.12	1.27 - 1.78	20.07	9.728	1.91 - 2.29
19.43	7.925	1.27 - 1.57	19.66	14.12	1.27 - 1.78	19.81	12.65	2.03 - 2.64	19.94	4.318	1.07 - 1.57	19.99	12.19	.508 - .762	20.07	10.74	.635 - 1.02
19.43	8.407	.635 - 1.02	19.66	15.37	.254 - .508	19.81	12.70	.381 - .762	19.94	6.045	.152 - .254	19.99	12.45	3.05 - 3.30	20.07	11.13	.508 - 1.02
19.43	8.839	.635 - .889	19.66	16.10	.254 - .508	19.81	12.78	.152 - .305	19.94	8.712	.127 - .254	19.99	13.34	.127 - .254	20.07	11.18	.254 - .508
19.43	10.31	.127 - .254	19.66	17.91	.127 - .254	19.81	12.95	.127 - .762	19.94	9.068	.127 - .254	19.99	13.46	.762 - 1.27	20.07	11.20	.508 - 1.02
19.43	12.90	.127 - .254	19.69	5.791	1.27 - 1.83	19.81	12.98	.762 - 1.27	19.94	9.957	2.79 - 3.30	19.99	13.89	.127 - .254	20.07	11.43	.762 - 1.07
19.43	13.41	1.27 - 1.52	19.69	5.817	1.78 - 2.29	19.81	13.21	.178 - .381	19.94	10.31	.127 - .254	19.99	14.00	.127 - .762	20.07	11.48	.762 - 1.52
19.43	13.54	.381 - .762	19.69	5.867	1.07 - 1.57	19.81	13.39	1.91 - 2.29	19.94	10.59	1.27 - 1.78	19.99	14.12	.127 - .254	20.07	12.14	.635 - 1.14
19.43	14.35	.254 - .508	19.69	6.401	.127 - .254	19.81	13.44	.635 - 1.02	19.94	11.43	1.27 - 1.78	19.99	14.66	.127 - .254	20.07	12.70	1.27 - 1.83
19.43	15.88	1.27 - 1.78	19.69	8.230	2.54 - 3.18	19.81	14.02	1.02 - 1.52	19.94	12.07	.381 - 1.27	19.99	15.32	.127 - .254	20.07	12.98	3.18 - 3.43
19.46	12.83	.762 - 1.27	19.69	8.509	.381 - .762	19.81	14.27	.787 - 1.22	19.94	12.24	2.54 - 3.18	19.99	15.49	.127 - 2.03	20.07	13.08	.508 - 1.02
19.46	13.16	1.27 - 1.78	19.69	9.347	2.03 - 2.29	19.81	14.38	.762 - 1.27	19.94	13.00	1.52 - 2.03	19.99	16.00	.762 - 1.27	20.07	13.97	.762 - 1.07
19.46	13.59	2.03 - 2.54	19.69	9.627	.127 - .305	19.81	14.48	.508 - 1.02	19.94	13.21	2.29 - 2.67	19.99	16.03	.127 - .254	20.07	14.35	1.02 - 1.52
19.46	14.15	.635 - 1.02	19.69	10.87	.635 - 1.02	19.81	14.71	.127 - .381	19.94	13.28	.127 - .508	19.99	16.46	.635 - 1.02	20.07	14.88	.381 - .635
19.46	14.86	.381 - .762	19.69	11.61	.127 - .254	19.81	15.01	1.52 - 2.29	19.94	13.46	.762 - 1.27	19.99	16.79	.127 - .254	20.07	15.82	1.27 - 1.78
19.46	15.49	.762 - 1.27	19.69	11.79	1.22 - 1.78	19.81	15.06	.127 - .254	19.94	13.92	1.07 - 1.57	19.99	17.20	.254 - .508	20.07	16.31	.254 - 1.02
19.46	17.17	.127 - .254	19.69	11.91	2.03 - 2.54	19.81	15.19	1.27 - 1.78	19.94	14.45	.127 - .254	19.99	17.27	1.52 - 2.03	20.07	16.51	.762 - 1.07
19.48	1.854	.635 - 1.02	19.69	12.70	1.91 - 2.29	19.81	15.93	.508 - .762	19.94	15.09	.127 - .254	19.99	17.70	.127 - .254	20.07	17.63	1.02 - 1.52
19.48	2.134	.381 - .762	19.69	13.34	2.54 - 3.18	19.81	16.26	.762 - 1.78	19.94	16.66	.127 - .254	20 mm			20.07	18.49	.254 - .508
19.48	5.690	2.29 - 2.79	19.69	14.10	.508 - .762	19.81	16.71	.127 - .254	19.94	17.68	.254 - .508				20.09	1.422	.381 - .762
19.48	7.645	2.54 - 3.18	19.69	14.22	1.78 - 2.29	19.81	17.07	.381 - .762	19.96	3.988	.381 - .762				20.09	8.204	1.27 - 1.78
19.48	8.001	.508 - 1.02	19.69	15.29	.127 - .254	19.81	17.37	.635 - 1.02	19.96	5.029	.381 - .762				20.09	10.16	.254 - .508
19.48	10.90	.127 - .254	19.69	16.33	.127 - .762	19.81	17.40	.127 - .305	19.96	6.426	1.78 - 2.29				20.09	10.19	.635 - 1.02
19.48	13.64	.127 - .254	19.71	4.978	.381 - .762	19.84	2.819	.635 - 1.02	19.96	6.528	.127 - .254	20 mm			20.09	13.49	.254 - .508
19.48	14.30	.508 - 1.02	19.71	5.004	.508 - .889	19.84	3.607	.254 - .508	19.96	7.620	.127 - .254				20.09	16.13	.127 - .254
19.48	14.63	.762 - 1.27	19.71	5.613	.127 - .254	19.84	4.369	.254 - .508	19.96	8.026	2.29 - 3.43				20.09	17.12	.254 - .508
19.48	14.94	.381 - .762	19.71	6.096	.635 - 1.02	19.84	7.112	3.96 - 4.83	19.96	9.703	.127 - .254				20.12	8.052	1.57 - 2.11
19.48	17.75	.127 - .254	19.71	7.188	.762 - 1.27	19.84	8.026	.127 - .254	19.96	10.06	1.02 - 1.52				20.12	10.67	.508 - .762
19.51	5.969	1.02 - 1.52	19.71	9.804	.127 - .254	19.84	8.052	.254 - .762	19.96	11.07	1.27 - 1.78	20.02	6.172	.762 - 1.27	20.12	12.32	.635 - 1.02
19.51	9.601	2.79 - 3.30	19.71	10.97	1.78 - 2.29	19.84	8.509	.127 - 1.27	19.96	11.25	2.54 - 3.05	20.02	6.198	.127 - .254	20.12	13.13	.254 - .508
19.51	10.54	1.27 - 1.78	19.71	15.19	1.27 - 1.78	19.84	10.21	.254 - .508	19.96	11.33	1.02 - 1.52	20.02	8.052	.254 - .508	20.12	15.39	.127 - .254
19.51	10.57	1.27 - 1.78	19.71	16.41	.508 - 1.0												

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
20.19	18.57	.762 - 1.02	20.32	12.80	.127 - .762	20.45	14.33	2.29 - 2.79	20.57	9.627	.127 - 2.29	20.62	10.41	1.52 - 1.78	20.70	14.10	.762 - 1.27
20.22	7.264	.127 - .254	20.32	12.83	.127 - .254	20.45	14.55	1.52 - 2.03	20.57	9.779	2.03 - 2.67	20.62	10.44	2.67 - 3.18	20.70	14.12	.381 - .635
20.22	7.366	.635 - 1.02	20.32	12.90	.127 - .254	20.45	16.05	.127 - .254	20.57	10.03	.127 - .254	20.62	11.07	2.54 - 3.18	20.70	14.68	2.03 - 2.54
20.22	8.966	.762 - 1.02	20.32	12.95	.508 - 1.02	20.45	16.66	.127 - .254	20.57	10.29	1.52 - 2.03	20.62	11.10	.381 - .762	20.70	16.99	.635 - 1.02
20.22	10.08	1.27 - 1.78	20.32	13.41	.127 - .254	20.45	17.07	.127 - .254	20.57	10.49	.127 - .305	20.62	11.20	.813 - 1.22	20.73	11.15	.381 - .762
20.22	12.93	1.02 - 1.52	20.32	13.46	.762 - 1.27	20.45	17.58	.254 - .508	20.57	10.64	1.57 - 1.98	20.62	11.23	1.57 - 1.91	20.73	11.58	1.78 - 2.29
20.22	13.21	.127 - .305	20.32	13.82	.127 - .254	20.47	5.309	.127 - .254	20.57	11.25	.127 - .254	20.62	11.58	2.64 - 3.18	20.73	12.95	.127 - .305
20.22	13.23	.762 - 1.52	20.32	13.97	1.52 - 1.91	20.47	6.655	1.02 - 1.52	20.57	11.56	1.52 - 2.36	20.62	11.91	.762 - 1.27	20.73	13.21	.381 - .635
20.22	13.34	.254 - .508	20.32	14.00	.127 - .254	20.47	7.620	.127 - .254	20.57	12.07	.635 - 1.07	20.62	12.01	.381 - .508	20.75	8.103	1.52 - 2.11
20.22	14.71	1.02 - 1.52	20.32	14.15	.127 - .254	20.47	8.890	.127 - .254	20.57	12.19	.127 - .254	20.62	12.73	.127 - .508	20.75	8.153	.381 - .762
20.22	15.29	.635 - 1.02	20.32	14.17	.127 - .381	20.47	9.601	1.52 - 2.11	20.57	12.73	2.03 - 2.54	20.62	12.85	1.52 - 2.03	20.75	10.44	1.02 - 1.52
20.22	15.49	.127 - 1.78	20.32	14.22	1.78 - 2.29	20.47	10.34	.762 - 1.27	20.57	12.88	.254 - .635	20.62	12.90	.381 - .635	20.75	11.56	1.52 - 2.29
20.22	16.00	.762 - 1.02	20.32	14.58	1.27 - 1.52	20.47	11.91	.762 - 1.27	20.57	13.06	2.03 - 3.18	20.62	12.93	1.27 - 1.91	20.75	12.83	1.27 - 1.78
20.24	8.865	.127 - .254	20.32	14.61	.635 - 1.02	20.47	16.03	.508 - 1.02	20.57	13.26	1.02 - 1.52	20.62	13.08	1.07 - 1.52	20.75	16.03	.127 - .254
20.24	10.49	.127 - .254	20.32	14.78	.127 - .254	20.47	16.15	.127 - .254	20.57	13.54	.635 - 1.27	20.62	13.13	.762 - 1.02	20.75	16.76	.127 - .254
20.24	14.25	.508 - 1.02	20.32	15.09	.127 - .254	20.47	16.28	1.52 - 2.11	20.57	13.79	.508 - 1.02	20.62	13.31	1.27 - 1.78	20.75	16.79	.127 - .254
20.24	17.55	.635 - 1.02	20.32	15.70	.127 - .254	20.47	16.51	1.27 - 1.78	20.57	13.84	.508 - 1.02	20.62	13.46	.813 - 1.07	20.75	17.53	.305 - .508
20.27	7.925	.254 - .635	20.32	15.72	.127 - .254	20.47	17.04	.127 - .254	20.57	14.00	.127 - .254	20.62	13.72	.254 - .508	20.75	18.06	.127 - .254
20.27	8.915	.254 - .508	20.32	15.82	1.27 - 1.91	20.47	17.55	.508 - 1.02	20.57	14.25	3.05 - 3.56	20.62	14.25	.127 - .762	20.75	19.05	.254 - .508
20.27	9.601	.127 - .254	20.32	15.90	.127 - .254	20.47	17.58	.127 - .254	20.57	14.33	.127 - .381	20.62	14.66	.508 - 1.02	20.78	6.706	.762 - 1.02
20.27	12.37	.127 - .254	20.32	15.95	.635 - 2.03	20.50	2.972	.381 - .762	20.57	14.35	.635 - 1.27	20.62	15.01	.508 - .762	20.78	8.052	.762 - 1.02
20.27	14.68	.127 - 2.29	20.32	16.03	.254 - .508	20.50	5.639	.381 - .762	20.57	14.45	.508 - 1.02	20.62	15.04	.127 - 1.27	20.78	8.153	.254 - .508
20.27	15.85	1.78 - 2.29	20.32	16.23	.127 - .254	20.50	7.188	.127 - .254	20.57	15.24	1.02 - 1.52	20.62	15.14	.635 - 1.02	20.78	8.382	.127 - .254
20.27	16.05	.254 - .508	20.32	16.28	.406 - .635	20.50	9.881	1.27 - 1.78	20.57	16.41	.127 - .254	20.62	15.88	.381 - 2.79	20.78	9.931	3.18 - 3.96
20.27	16.66	.127 - .254	20.32	16.38	.635 - 1.02	20.50	11.30	1.02 - 1.52	20.57	16.56	.127 - .254	20.62	16.28	.381 - 2.03	20.78	10.97	1.52 - 2.03
20.27	18.06	.254 - .508	20.32	16.61	1.02 - 1.52	20.50	13.49	2.03 - 2.29	20.57	17.15	.127 - .254	20.62	16.43	.381 - .635	20.78	12.19	.127 - .254
20.29	6.401	.127 - .254	20.32	16.74	.254 - .508	20.50	13.56	.127 - .254	20.57	17.53	.254 - .508	20.62	16.51	1.02 - 1.52	20.78	13.94	.127 - .254
20.29	9.144	4.32 - 4.83	20.32	17.02	.127 - .508	20.50	15.19	.508 - 1.02	20.57	17.86	.127 - .254	20.62	16.64	.508 - .762	20.78	15.01	2.29 - 2.79
20.29	10.08	.254 - .508	20.32	17.07	.127 - .254	20.50	15.88	.127 - .254	20.57	17.93	.635 - 1.07	20.62	17.15	.508 - 1.02	20.78	16.36	.254 - .508
20.29	10.19	.762 - 1.27	20.32	17.15	.127 - .254	20.50	15.98	.508 - 1.02	20.57	18.36	.127 - .254	20.62	17.45	1.27 - 1.78	20.78	17.53	1.02 - 1.52
20.29	11.15	.127 - .254	20.32	17.20	.127 - .254	20.50	16.21	.381 - .762	20.60	2.946	.127 - .381	20.62	17.70	1.27 - 1.57	20.78	18.29	.635 - 1.02
20.29	11.96	.127 - .254	20.32	17.22	.127 - .254	20.50	16.26	.254 - .508	20.60	3.962	.762 - 1.27	20.62	17.96	.127 - .254	20.80	1.651	.635 - 1.02
20.29	11.99	.762 - 1.27	20.32	17.25	.127 - .254	20.50	17.02	1.27 - 1.78	20.60	4.775	1.02 - 1.52	20.65	3.962	1.02 - 1.52	20.80	4.420	.127 - .254
20.29	12.50	2.03 - 2.54	20.32	17.27	.127 - .254	20.50	17.53	.381 - .762	20.60	5.105	1.02 - 1.52	20.65	4.115	1.02 - 1.52	20.80	6.350	.127 - .254
20.29	12.70	.127 - .254	20.32	18.06	.254 - 1.02	20.50	18.92	.508 - .787	20.60	7.163	1.27 - 1.78	20.65	4.928	2.54 - 3.18	20.80	6.604	.254 - .508
20.29	12.73	.254 - .508	20.35	3.759	.254 - .508	20.52	5.791	.127 - .381	20.60	8.179	.762 - 1.27	20.65	5.182	.127 - .254	20.80	13.49	.127 - .254
20.29	12.83	.635 - 1.02	20.35	6.477	.762 - 1.52	20.52	5.867	1.52 - 2.03	20.60	8.458	.127 - .254	20.65	6.909	2.54 - 3.40	20.80	17.15	.635 - 1.02
20.29	14.73	1.27 - 1.91	20.35	8.153	1.02 - 1.27	20.52	8.052	.381 - .762	20.60	8.687	3.43 - 4.75	20.65	8.331	.127 - .254	20.80	17.53	.508 - .889
20.29	15.14	.127 - .254	20.35	8.433	2.03 - 2.64	20.52	9.525	2.67 - 3.18	20.60	9.550	1.02 - 1.52	20.65	8.890	.762 - 1.27	20.80	17.78	1.02 - 1.52
20.29	15.98	.381 - .635	20.35	8.763	1.91 - 2.59	20.52	10.49	1.52 - 2.03	20.60	9.982	.254 - .508	20.65	9.652	2.54 - 3.18	20.83	2.286	.127 - .254
20.29	16.59	.127 - .254	20.35	9.550	.381 - .762	20.52	10.52	.635 - 1.02	20.60	10.24	1.52 - 1.78	20.65	10.31	.762 - 3.18	20.83	3.175	.381 - .762
20.29	17.04	.127 - .254	20.35	10.16	.635 - 1.02	20.52	11.96	.127 - .254	20.60	10.44	.254 - .508	20.65	10.34	2.54 - 3.18	20.83	4.039	2.67 - 3.43
20.29	17.09	.127 - .254	20.35	11.15	.127 - .254	20.52	12.14	.508 - 1.02	20.60	11.40	2.54 - 3.18	20.65	10.64	.127 - .254	20.83	5.029	.127 - .254
20.29	17.12	.127 - .254	20.35	12.45	.127 - .254	20.52	13.51	.127 - .254	20.60	13.92	1.78 - 2.29	20.65	10.95	.127 - .254	20.83	7.112	1.52 - 1.91
20.29	17.63	.127 - .254	20.35	12.75	.381 - .635	20.52	15.75	.381 - .762	20.60	14.05	1.02 - 1.52	20.65	11.05	2.54 - 3.18	20.83	7.874	.127 - .254
20.29	17.81	.127 - .254	20.35	12.83	.127 - .254	20.52	15.90	.381 - .762	20.60	14.38	.635 - 1.27	20.65	11.20	1.27 - 1.78	20.83	8.001	.127 - .254
20.32	1.930	.127 - .254	20.35	15.14	.381 - .635	20.52	17.58	.762 - 1.27	20.60	14.40	1.07 - 1.57	20.65	11.43	1.02 - 1.52	20.83	8.128	1.02 - 1.52
20.32	4.826	.508 - 1.02	20.35	15.19	.381 - .762	20.55	2.388	.762 - 1.27	20.60	14.43	.127 - .254	20.65	12.52	.127 - .254	20.83	8.636	.127 - .254
20.32	4.928	1.27 - 1.78	20.35	15.98	1.02 - 1.52	20.55	2.438	.381 - .813	20.60	14.63	.660 - 1.32	20.65	12.55	.508 - 1.02	20.83	8.839	.127 - .254
20.32	5.080	.635 - 1.02	20.35	16.51	.254 - .508	20.55	2.515	.127 - .381	20.60	14.66	.635 - 1.07	20.65	12.60	.254 - .508	20.83	9.652	.127 - .254
20.32	5.639	1.65 - 2.03	20.35	16.69	.127 - .254	20.55	3.988	1.27 - 1.78	20.60	15.11	.889 - 1.52	20.65	12.70	1.27 - 2.11	20.83	9.957	.254 - .508
20.32	5.715	1.02 - 1.52	20.35	17.12	.127 - .254	20.55	6.350	.508 - .762	20.60	15.82	.127 - .254	20.65	12.80	2.67 - 3.43	20.83	10.03	1.27 - 1.91
20.32	6.350	.508 - .762	20.35	17.68	1.52 - 1.78	20.55	6.528	.762 - 1.27	20.60	16.00	.127 - .254	20.65	12.95	.508 - 1.02	20.83	10.29	3.43 - 4.06
20.32	6.401	.203 - .381	20.37	6.528	1.52 - 2.03	20.55	7.315	1.78 - 2.29	20.60	16.66	.127 - .254	20.65	14.27	2.03 - 2.54	20.83	11.23	.635 - 1.02
20.32	6.426	1.02 - 1.52	20.37	6.629	1.02 - 1.57	20.55	8.153	.635 - 1.07	20.60	16.71	.508 - .762	20.65	14.30	.127 - .508	20.83	11.43	.305 - .635
20.32	6.452	.635 - 1.02	20.37	8.788	.508 - .889	20.55	8.534	1.27 - 1.78	20.62	3.226	.635 - 1.02	20.65	15.16	.508 - 1.02	20.83	11.51	.381 - .635
20.32	6.502	.127 - .254	20.37	9.830	1.27 - 1.91	20.55	9.576	.127 - .254	20.62	3.302	.381 - .762	20.65	16.03	.254 - .508	20.83	11.68	.762 - 1.02
20.32	8.001	.254 - .508	20.37	10.36	2.54 - 2.79	20.55	9.779	.127 - .254	20.62	3.454	1.02 - 1.52	20.65	16.10	1.52 - 2.03	20.83	12.24	1.78 - 2.29
20.32	8.026	.127 - .254	20.37	11.51	.635 - 1.02	20.55	10.52	1.									

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
20.88	17.60	.127 - 1.78	21.08	4.750	.508 - 1.02	21.34	11.94	.152 - 2.11	21.51	4.902	.229 - 2.67	21.59	18.57	.508 - 1.02	21.74	18.64	.254 - .508
20.90	10.34	.127 - .254	21.08	9.627	.127 - .889	21.34	12.67	.127 - .254	21.51	6.426	.127 - .254	21.59	18.67	.127 - .762	21.77	7.925	.127 - .254
20.90	13.28	.178 - 2.29	21.08	10.29	1.02 - 1.52	21.34	12.78	.127 - .254	21.51	8.204	.127 - .254	21.59	19.05	.254 - .508	21.77	10.39	.127 - .254
20.90	19.18	.127 - .508	21.08	11.71	.381 - .762	21.34	13.08	.635 - 1.02	21.51	10.57	.127 - .254	21.59	19.20	.508 - .762	21.77	14.10	.381 - .635
20.90	19.20	.127 - .254	21.08	12.07	.635 - 1.02	21.34	13.59	.127 - .254	21.51	10.72	.127 - .254	21.59	20.55	.254 - .508	21.77	16.26	.635 - 1.02
20.93	8.153	.127 - .254	21.08	13.08	.127 - .254	21.34	13.84	.254 - 3.43	21.51	12.70	.127 - .254	21.62	2.362	.127 - .254	21.77	16.89	.254 - .508
20.93	8.458	.127 - .254	21.08	13.46	2.29 - 3.05	21.34	14.12	.813 - 1.02	21.51	13.26	.127 - .254	21.62	4.166	1.27 - 1.78	21.77	17.58	.762 - 1.27
20.93	12.90	1.27 - 1.78	21.08	14.12	.254 - .635	21.34	14.17	.127 - .254	21.51	13.61	.127 - .254	21.62	4.394	.127 - .254	21.79	8.941	2.54 - 3.18
20.93	13.79	.635 - 1.02	21.08	14.33	2.54 - 3.18	21.34	14.45	.127 - .254	21.54	1.702	.254 - .508	21.62	4.674	1.02 - 2.29	21.79	14.33	.762 - 1.52
20.93	15.37	1.07 - 1.57	21.08	14.35	.762 - 1.27	21.34	14.61	1.52 - 1.78	21.54	5.055	.635 - 1.02	21.62	4.699	1.52 - 2.29	21.79	15.14	.762 - 1.27
20.96	6.045	.127 - .254	21.08	14.99	1.78 - 2.29	21.34	16.03	.762 - 1.52	21.54	8.052	.127 - .254	21.62	9.754	2.64 - 3.40	21.79	15.72	1.27 - 1.78
20.96	8.052	.127 - .254	21.08	15.37	.635 - 1.02	21.34	16.08	.178 - .381	21.54	8.204	.127 - .508	21.62	9.779	.254 - .508	21.79	15.90	.127 - .254
20.96	8.103	.127 - .508	21.08	15.95	.635 - 1.02	21.34	16.33	1.91 - 2.29	21.54	11.99	.381 - .762	21.62	10.19	.127 - .254	21.79	16.00	.127 - .254
20.96	10.13	.127 - .254	21.08	16.05	.635 - 1.02	21.34	16.51	1.22 - 1.57	21.54	12.50	1.27 - 1.78	21.62	10.69	2.67 - 3.05	21.79	16.48	.762 - 1.27
20.96	10.16	.381 - .762	21.08	16.15	.381 - .762	21.34	17.12	.254 - .508	21.54	12.83	.127 - .254	21.62	11.43	.762 - 1.27	21.79	16.51	.203 - .508
20.96	10.52	2.67 - 3.18	21.08	16.48	.254 - .508	21.34	17.15	.381 - .762	21.54	12.95	.254 - .508	21.62	12.78	.127 - .254	21.79	16.59	.635 - 1.02
20.96	12.27	1.02 - 1.52	21.08	17.60	.508 - .889	21.34	17.17	.508 - .889	21.54	13.72	.127 - .254	21.62	13.03	1.02 - 1.52	21.79	18.29	.762 - 1.27
20.96	12.98	.127 - .254	21.08	17.68	.127 - .254	21.34	17.27	.127 - .254	21.54	15.49	.254 - .508	21.62	14.33	.762 - 1.27	21.79	18.42	1.02 - 1.52
20.96	13.16	1.78 - 2.03	21.08	18.06	.381 - .762	21.34	17.32	.381 - .762	21.54	17.40	.813 - 1.57	21.62	14.50	.127 - .254	21.79	19.63	.254 - .508
20.96	13.34	.254 - .508	21.11	6.071	.127 - .254	21.34	18.06	.508 - 1.02	21.54	19.05	.254 - .508	21.62	16.08	.127 - .254	21.82	1.626	.762 - 1.27
20.96	13.39	2.29 - 3.18	21.11	14.83	.381 - .635	21.34	18.57	.762 - 1.27	21.56	3.835	.762 - 1.52	21.62	16.26	.127 - .254	21.82	4.343	.254 - .508
20.96	13.79	.381 - .762	21.11	16.48	.127 - .254	21.34	19.00	.381 - .635	21.56	9.804	1.27 - 1.91	21.62	16.64	.127 - .254	21.82	6.731	1.91 - 2.29
20.96	14.66	.508 - 1.02	21.13	11.71	.254 - .635	21.36	11.18	.635 - 1.02	21.56	10.19	1.02 - 1.52	21.62	17.04	1.02 - 1.52	21.82	9.652	.127 - .381
20.96	15.85	.127 - .381	21.13	13.21	1.27 - 1.78	21.36	16.03	.762 - 1.27	21.56	10.49	.127 - .254	21.64	4.750	1.02 - 1.52	21.82	11.15	.508 - .762
20.96	16.05	.762 - 1.02	21.13	14.00	.127 - .254	21.36	16.54	.127 - .254	21.56	12.62	.127 - .254	21.64	6.528	1.57 - 2.29	21.82	11.43	.127 - .508
20.96	16.99	.508 - .762	21.13	14.58	.762 - 1.27	21.36	16.84	.381 - .762	21.56	13.21	.127 - .254	21.64	10.39	.127 - .508	21.82	11.53	.381 - .762
20.96	18.01	.127 - .254	21.13	15.11	.127 - .254	21.36	19.10	.254 - .508	21.56	15.39	.127 - .254	21.64	12.78	.508 - .762	21.82	12.42	.508 - .762
20.98	6.350	1.02 - 1.27	21.13	15.19	.127 - .254	21.39	9.601	.635 - 1.07	21.56	16.03	.254 - .508	21.64	13.41	.381 - .762	21.82	12.90	.635 - 1.27
20.98	7.976	.762 - 1.27	21.13	19.08	.762 - 1.02	21.39	11.94	1.27 - 1.78	21.59	3.937	.127 - .254	21.64	13.56	.381 - .635	21.82	13.08	.813 - 1.07
20.98	8.103	.762 - 1.27	21.16	15.42	.127 - .254	21.39	15.06	2.03 - 2.41	21.59	4.420	.635 - 1.02	21.64	13.79	.635 - 1.02	21.82	15.39	1.52 - 2.03
20.98	9.119	2.67 - 3.18	21.16	18.54	.762 - 1.07	21.39	16.03	.127 - .203	21.59	4.445	1.27 - 1.78	21.64	15.95	.508 - 1.02	21.82	15.95	.508 - .762
20.98	10.19	.254 - .508	21.16	19.56	.254 - .508	21.39	16.05	.254 - .508	21.59	4.572	3.05 - 3.43	21.64	17.40	.508 - 1.57	21.82	15.98	.127 - .254
20.98	10.52	.635 - 1.02	21.18	11.73	.508 - 1.02	21.39	17.53	.127 - .254	21.59	5.080	.508 - 2.03	21.67	6.756	.762 - 1.52	21.82	16.41	.508 - 1.02
20.98	13.61	2.29 - 2.67	21.18	14.27	.127 - .254	21.39	18.52	.127 - .254	21.59	6.096	1.22 - 1.83	21.67	9.068	.127 - .254	21.82	16.51	.762 - 1.78
20.98	15.75	.762 - 1.27	21.18	14.99	.762 - 1.27	21.39	19.41	.127 - .254	21.59	6.350	.381 - .762	21.67	10.19	1.02 - 1.52	21.82	17.04	1.02 - 1.52
20.98	16.76	.508 - 1.02	21.18	15.14	.762 - 1.27	21.41	3.607	.254 - .508	21.59	6.375	3.05 - 3.56	21.67	10.36	1.27 - 1.78	21.82	17.15	.762 - 1.27
20.98	18.06	.635 - 1.02	21.18	19.28	.254 - .508	21.41	5.334	1.02 - 1.52	21.59	6.401	.127 - .254	21.67	11.13	.406 - .635	21.82	17.91	.127 - .254
21.01	4.750	.254 - .508	21.21	5.080	.508 - .889	21.41	6.604	.127 - .254	21.59	7.188	.127 - .254	21.67	11.86	.254 - .508	21.82	19.79	.127 - .254
21.01	5.461	.127 - .254	21.21	5.613	.127 - .254	21.41	9.906	1.78 - 2.29	21.59	7.645	.381 - .762	21.67	15.95	1.02 - 1.52	21.84	.9144	.813 - 1.07
21.01	5.994	.127 - .254	21.21	9.906	1.02 - 1.52	21.41	11.51	2.54 - 3.18	21.59	7.671	2.67 - 3.18	21.67	16.05	.127 - .254	21.84	4.343	.381 - .762
21.01	6.045	.127 - .254	21.21	12.19	.254 - .508	21.41	12.70	.127 - .254	21.59	8.026	2.29 - 2.67	21.67	18.44	.762 - 1.27	21.84	4.877	2.29 - 3.18
21.01	8.052	.127 - 3.18	21.21	12.85	2.03 - 2.54	21.41	13.46	1.02 - 1.52	21.59	8.103	1.52 - 2.03	21.67	19.05	.127 - .254	21.84	5.715	.762 - 1.02
21.01	8.077	.127 - .254	21.21	14.48	.127 - 1.27	21.41	14.20	1.27 - 1.83	21.59	8.382	.508 - 1.02	21.69	1.956	.127 - .762	21.84	6.401	.381 - .762
21.01	8.331	1.52 - 2.03	21.21	15.11	.254 - .508	21.41	16.00	.127 - .254	21.59	8.636	.127 - .254	21.69	8.357	1.27 - 1.91	21.84	6.629	.254 - .762
21.01	8.407	3.05 - 3.43	21.21	17.40	.762 - 1.52	21.41	16.66	.254 - .508	21.59	8.890	2.03 - 2.64	21.69	8.941	2.54 - 3.18	21.84	6.731	1.91 - 2.29
21.01	8.433	3.96 - 4.75	21.21	19.86	.508 - .762	21.41	17.50	.762 - 1.02	21.59	8.915	.762 - 1.27	21.69	14.68	.254 - .508	21.84	6.985	.762 - 1.27
21.01	9.550	.127 - .254	21.23	10.57	.254 - .508	21.41	19.86	.508 - .762	21.59	9.042	.254 - .508	21.69	14.81	.762 - 1.27	21.84	7.976	1.91 - 2.29
21.01	9.982	.127 - .254	21.23	11.43	1.02 - 1.52	21.44	2.515	.635 - 1.02	21.59	9.500	.127 - .254	21.69	15.37	.127 - .254	21.84	8.153	1.57 - 2.29
21.01	10.34	2.29 - 3.05	21.23	17.27	.127 - 1.52	21.44	10.08	.127 - .254	21.59	9.576	.127 - .508	21.69	16.51	.127 - .254	21.84	8.230	1.52 - 2.03
21.01	10.46	.127 - .254	21.23	17.91	.813 - 1.52	21.44	14.10	.254 - .508	21.59	9.601	.127 - .254	21.69	16.64	.127 - .254	21.84	8.585	.127 - .254
21.01	10.54	1.52 - 2.03	21.26	13.39	1.02 - 1.52	21.44	14.68	.127 - .254	21.59	9.652	.762 - 1.02	21.69	20.52	.381 - .508	21.84	8.636	.508 - .762
21.01	12.01	.127 - .254	21.26	13.46	1.22 - 1.91	21.44	15.49	.762 - 1.52	21.59	9.703	.127 - 3.18	21.72	1.981	.127 - .254	21.84	9.754	.127 - .381
21.01	12.93	1.27 - 1.91	21.26	15.01	.127 - .254	21.44	16.92	1.78 - 2.29	21.59	9.754	2.54 - 3.18	21.72	3.302	1.52 - 2.03	21.84	10.87	2.54 - 3.18
21.01	16.05	.127 - .254	21.26	16.08	.635 - 1.02	21.44	17.86	.127 - .254	21.59	11.00	.127 - .254	21.72	5.817	1.27 - 1.91	21.84	11.15	.508 - .889
21.01	19.02	.127 - .254	21.26	17.25	.635 - 1.02	21.44	18.06	.381 - .762	21.59	12.57	.381 - .635	21.72	6.147	.508 - 1.02	21.84	11.63	.254 - .508
21.03	2.743	.127 - .254	21.29	7.137	.813 - 1.52	21.46	4.140	.254 - .508	21.59	12.70	.381 - .635	21.72	8.306	1.22 - 1.83	21.84	12.40	.254 - .508
21.03	8.052	.254 - .381	21.29	7.366	1.27 - 1.91	21.46	7.950	.381 - 2.29	21.59	12.75	.127 - .254	21.72	8.407	.762 - 1.27	21.84	12.60	.127 - .254
21.03	10.34	.381 - .762	21.29	9.550	.381 - .762	21.46	11.84	.127 - .254	21.59	12.78	.127 - .254	21.72	9.525	.127 - 1.57	21.84	13.00	.127 - .254
21.03	11.35	1.52 - 2.03	21.29	12.24	.787 - 1.22	21.46	12.24	.127 - .254	21.59	12.85	.508 - 1.02	21.72					

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
21.87	13.39	1.02 - 1.52	22.00	5.994	.127 - .508	22.02	19.30	.381 - .762	22.10	14.73	.254 - .508	22.17	10.41	2.67 - 3.43	22.23	4.750	2.29 - 2.67
21.87	15.27	.762 - 1.27	22.00	6.071	.762 - 1.27	22.02	19.56	.762 - 1.27	22.10	14.76	1.07 - 1.52	22.17	10.46	.127 - .254	22.23	4.826	2.67 - 3.18
21.87	15.75	1.52 - 2.03	22.00	6.147	.127 - .254	22.02	20.17	.127 - .254	22.10	15.44	.762 - 1.52	22.17	11.07	1.27 - 1.91	22.23	4.877	.635 - 1.07
21.87	16.15	.127 - .254	22.00	7.010	.762 - 1.02	22.05	6.020	.127 - .254	22.10	15.49	.127 - .305	22.17	11.18	2.67 - 3.43	22.23	4.978	1.27 - 1.91
21.87	16.21	1.27 - 1.78	22.00	7.595	.127 - .508	22.05	6.045	.127 - .254	22.10	15.88	.381 - .762	22.17	11.86	.381 - .762	22.23	5.055	1.27 - 1.78
21.87	17.50	.762 - 1.27	22.00	8.001	.127 - .508	22.05	8.001	.381 - 1.52	22.10	15.95	.635 - 1.02	22.17	11.94	.762 - 1.27	22.23	5.156	1.57 - 2.29
21.87	19.02	.381 - .508	22.00	8.026	.127 - .254	22.05	8.052	.127 - .254	22.10	15.98	.127 - .254	22.17	12.78	.381 - 1.78	22.23	5.182	1.02 - 1.52
21.87	19.38	.127 - .254	22.00	8.052	.127 - .254	22.05	11.23	.127 - .254	22.10	16.05	.254 - 1.27	22.17	13.26	.508 - 1.02	22.23	5.740	.127 - .254
21.89	6.502	1.27 - 1.83	22.00	8.077	.127 - .254	22.05	11.73	.762 - 1.27	22.10	16.23	.127 - .254	22.17	13.51	4.32 - 4.83	22.23	5.994	.127 - 1.52
21.89	7.493	1.02 - 1.78	22.00	8.103	.127 - .254	22.05	12.01	.127 - .254	22.10	16.26	.762 - 1.52	22.17	13.87	1.27 - 1.78	22.23	6.248	1.02 - 1.52
21.89	7.925	.635 - 1.07	22.00	8.179	.127 - .254	22.05	12.12	.127 - .254	22.10	16.43	.127 - .254	22.17	14.78	2.54 - 3.18	22.23	6.350	.127 - 1.27
21.89	10.34	.381 - .635	22.00	8.255	2.29 - 2.67	22.05	13.03	.381 - .635	22.10	16.48	.381 - .762	22.17	15.21	1.91 - 2.29	22.23	6.401	.254 - .508
21.89	10.85	.508 - .762	22.00	8.534	1.78 - 2.03	22.05	13.23	2.54 - 3.40	22.10	16.51	1.02 - 1.52	22.17	15.34	.635 - 1.02	22.23	6.426	1.27 - 1.91
21.89	11.99	1.27 - 1.52	22.00	8.890	.635 - 1.02	22.05	13.39	.254 - .508	22.10	17.32	.381 - 1.91	22.17	15.93	.762 - 1.52	22.23	6.528	1.78 - 3.30
21.89	13.16	2.29 - 3.18	22.00	9.017	.127 - .254	22.05	14.30	2.03 - 2.54	22.10	17.45	1.27 - 1.57	22.17	15.95	2.67 - 3.18	22.23	6.604	.762 - 1.02
21.89	13.44	1.27 - 1.91	22.00	10.01	.127 - .508	22.05	15.39	.381 - .762	22.10	17.55	.127 - .254	22.17	16.00	.127 - 1.27	22.23	6.782	2.29 - 3.40
21.89	13.67	.381 - .762	22.00	10.03	.254 - .508	22.05	15.42	.381 - .762	22.10	17.65	.127 - .254	22.17	16.05	.127 - .381	22.23	6.807	.127 - .254
21.89	14.53	1.52 - 1.91	22.00	10.06	.127 - .254	22.05	15.49	2.29 - 3.18	22.10	18.06	.635 - 1.02	22.17	19.81	.635 - 1.02	22.23	7.137	.127 - .254
21.89	17.27	.508 - .813	22.00	10.08	.127 - .381	22.05	15.75	.127 - .254	22.10	18.49	.127 - .254	22.20	5.080	1.07 - 2.03	22.23	7.163	.762 - 1.27
21.89	17.58	.508 - .762	22.00	10.19	2.67 - 3.18	22.05	15.93	2.03 - 2.67	22.10	18.75	.127 - .254	22.20	5.156	1.02 - 1.52	22.23	8.001	2.54 - 3.40
21.89	19.08	.762 - 1.27	22.00	10.57	.127 - .254	22.05	16.28	1.02 - 1.52	22.10	18.90	.127 - .254	22.20	6.172	.762 - 1.27	22.23	8.077	2.29 - 2.79
21.92	6.909	1.57 - 1.98	22.00	11.15	.127 - .254	22.05	16.87	1.52 - 2.03	22.10	19.15	.127 - .305	22.20	6.579	.127 - .254	22.23	8.128	.254 - .508
21.92	9.525	.635 - 1.02	22.00	11.28	.127 - .254	22.05	16.89	.254 - .762	22.10	19.18	1.07 - 1.57	22.20	6.756	.635 - 1.02	22.23	8.230	.762 - 1.02
21.92	10.72	2.29 - 3.05	22.00	11.51	.762 - 1.02	22.05	17.45	.127 - .254	22.10	19.33	.508 - .762	22.20	7.925	.127 - .254	22.23	8.255	1.27 - 1.83
21.92	12.83	.127 - .254	22.00	12.01	.127 - .254	22.05	17.50	.127 - .254	22.10	20.57	.381 - .635	22.20	8.026	.127 - .254	22.23	8.306	2.29 - 3.18
21.92	13.49	.127 - 1.27	22.00	12.04	.127 - .508	22.05	18.26	1.78 - 2.29	22.12	5.359	1.27 - 1.78	22.20	8.357	1.52 - 2.11	22.23	8.331	.127 - .254
21.92	13.72	.381 - .762	22.00	12.07	.254 - .508	22.05	18.69	.254 - .508	22.12	9.677	.762 - 2.79	22.20	8.382	.635 - 1.02	22.23	8.382	2.03 - 2.64
21.92	15.90	2.29 - 3.05	22.00	12.29	1.78 - 2.29	22.05	19.08	.254 - .508	22.12	9.728	1.52 - 1.78	22.20	9.525	1.52 - 4.75	22.23	8.560	1.27 - 1.83
21.92	17.25	1.02 - 1.57	22.00	12.60	2.54 - 3.18	22.05	19.30	.635 - 1.02	22.12	10.41	.762 - 1.27	22.20	9.550	.508 - 1.02	22.23	8.636	.127 - .254
21.92	17.27	.127 - .203	22.00	12.70	.254 - .508	22.07	7.087	2.67 - 3.43	22.12	11.56	.127 - .254	22.20	9.576	.381 - 2.03	22.23	8.712	.406 - .635
21.92	17.32	.254 - .508	22.00	13.49	.635 - 1.02	22.07	9.982	.508 - .889	22.12	12.12	1.52 - 2.29	22.20	9.677	.127 - .254	22.23	8.763	2.79 - 3.30
21.92	17.45	.381 - .508	22.00	13.79	.762 - 1.52	22.07	10.92	3.18 - 4.75	22.12	14.71	.254 - .508	22.20	9.754	.203 - .406	22.23	8.814	1.07 - 1.57
21.92	17.48	.127 - .254	22.00	13.84	.508 - 1.02	22.07	12.90	1.27 - 1.78	22.12	14.76	1.78 - 2.29	22.20	9.957	.381 - .762	22.23	8.992	.127 - .254
21.92	19.28	.381 - 1.27	22.00	14.27	.381 - .762	22.07	13.69	.254 - .508	22.12	14.78	.127 - .254	22.20	10.11	3.18 - 3.96	22.23	9.195	.305 - .508
21.95	5.283	.127 - .254	22.00	14.43	1.02 - 1.52	22.07	14.61	.127 - .254	22.12	14.99	.127 - .254	22.20	10.41	2.03 - 2.54	22.23	9.322	.127 - .254
21.95	8.026	.127 - .254	22.00	15.01	.762 - 1.27	22.07	15.95	.508 - 2.03	22.12	17.09	.254 - .508	22.20	10.67	.127 - .254	22.23	9.525	2.54 - 3.18
21.95	9.347	.127 - .254	22.00	15.04	.127 - .254	22.07	16.94	.508 - .762	22.12	17.15	.381 - .762	22.20	11.15	2.67 - 3.18	22.23	9.550	.127 - .254
21.95	10.92	1.02 - 1.52	22.00	15.90	1.02 - 1.52	22.10	3.175	.127 - .381	22.12	19.58	.635 - 1.02	22.20	11.33	2.67 - 3.18	22.23	9.576	.254 - .508
21.95	12.83	.381 - .635	22.00	15.93	.635 - 1.02	22.10	4.318	.635 - 1.02	22.15	3.886	1.02 - 1.52	22.20	12.73	2.67 - 3.18	22.23	9.601	.508 - .762
21.95	13.61	2.03 - 2.64	22.00	16.03	.254 - .508	22.10	4.674	1.02 - 1.57	22.15	4.801	.127 - .381	22.20	12.75	2.67 - 3.18	22.23	9.652	2.67 - 3.40
21.95	14.00	.127 - .254	22.00	16.18	.381 - .762	22.10	4.724	.127 - .254	22.15	5.563	1.52 - 2.11	22.20	12.83	1.27 - 1.78	22.23	9.703	.381 - .762
21.95	14.45	.254 - .508	22.00	16.21	1.52 - 1.78	22.10	4.978	.127 - .381	22.15	5.613	2.03 - 2.54	22.20	12.90	1.02 - 1.52	22.23	9.728	3.81 - 4.57
21.95	15.11	.127 - .203	22.00	16.31	.127 - .254	22.10	5.131	.127 - .254	22.15	6.452	.254 - .508	22.20	12.93	.254 - .508	22.23	9.754	.203 - .406
21.95	15.75	.254 - .508	22.00	16.33	.127 - .254	22.10	6.071	.127 - .254	22.15	6.629	.127 - .254	22.20	12.95	1.91 - 2.29	22.23	9.881	1.02 - 1.52
21.95	15.95	1.27 - 1.78	22.00	16.43	.381 - .762	22.10	6.299	1.02 - 1.52	22.15	6.782	.762 - 1.27	22.20	13.00	1.52 - 2.03	22.23	9.906	1.52 - 1.91
21.95	16.08	.127 - .254	22.00	17.02	.127 - .254	22.10	6.706	2.54 - 3.18	22.15	6.833	.813 - 1.07	22.20	13.03	.381 - .762	22.23	9.931	1.02 - 1.52
21.95	16.23	1.07 - 1.57	22.00	17.70	.381 - .635	22.10	7.112	3.05 - 3.81	22.15	7.772	.508 - .762	22.20	13.06	.127 - .254	22.23	9.982	.127 - .254
21.95	19.84	.254 - .508	22.00	18.01	1.02 - 1.52	22.10	7.798	.254 - .762	22.15	8.128	1.07 - 1.57	22.20	13.36	1.27 - 1.78	22.23	10.03	2.29 - 3.18
21.97	5.207	.127 - .254	22.00	18.26	.381 - .762	22.10	7.925	.330 - .711	22.15	8.484	.254 - 1.27	22.20	13.54	.762 - 1.52	22.23	10.06	.254 - .508
21.97	6.604	.508 - 1.02	22.00	19.05	.381 - .762	22.10	7.950	.381 - .635	22.15	9.550	.254 - .508	22.20	13.59	.813 - 1.22	22.23	10.08	1.27 - 1.78
21.97	8.915	.508 - .762	22.00	19.20	.127 - .254	22.10	8.026	.305 - .508	22.15	10.01	.127 - .635	22.20	13.72	.762 - 1.27	22.23	10.13	.127 - .254
21.97	10.11	.508 - 1.02	22.00	19.25	.254 - .762	22.10	8.077	2.03 - 2.54	22.15	10.08	1.02 - 1.52	22.20	14.71	.381 - .762	22.23	10.29	2.54 - 3.05
21.97	10.46	1.52 - 2.03	22.00	20.68	.127 - .254	22.10	8.128	1.02 - 1.52	22.15	10.13	.127 - .254	22.20	15.27	1.78 - 2.29	22.23	10.31	1.27 - 1.52
21.97	10.69	1.02 - 1.52	22.02	3.277	.508 - 1.02	22.10	8.763	.635 - 1.02	22.15	10.21	.254 - .508	22.20	15.32	.127 - .254	22.23	10.46	2.54 - 3.18
21.97	11.02	.127 - .254	22.02	6.706	1.78 - 2.29	22.10	8.941	.127 - .254	22.15	12.07	1.52 - 2.11	22.20	15.77	.127 - .254	22.23	10.49	.127 - .381
21.97	11.96	.127 - .254	22.02	8.534	2.29 - 3.05	22.10	8.992	1.52 - 2.03	22.15	12.09	1.40 - 2.16	22.20	15.85	.508 - 1.02	22.23	10.54	1.52 - 2.11
21.97	12.09	.508 - 1.02	22.02	9.144	.508 - 1.02	22.10	9.677	2.29 - 3.05	22.15	14.27	1.91 - 2.29	22.20	15.88	.381 - .635	22.23	10.92	.127 - .762
21.97	12.12	.127 - .254	22.02	9.398	.635 - 1.02	22.10	9.830	3.43 - 4.75	22.15	15.06	1.91 - 2.64	22.20	15.93	.762 - 1.27	22.23	11.07	1.52 - 2.03
21.97	12.17	1.78 - 2.29	22.02	9.677	.762 - 1.52	22											

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
22.23	13.13	.127 - .254	22.25	15.88	.127 - .254	22.35	4.318	2.79 - 3.30	22.56	13.59	.381 - .762	22.83	20.09	.254 - .508	22.94	6.401	2.03 - 2.54
22.23	13.16	2.29 - 2.79	22.25	15.90	1.27 - 1.91	22.35	4.877	.381 - .762	22.56	15.80	.127 - .254	22.83	20.57	.508 - .762	22.94	6.553	1.52 - 2.03
22.23	13.39	.813 - 1.22	22.25	16.05	.762 - 1.27	22.35	5.563	.813 - 1.27	22.56	16.66	.127 - .254	22.83	20.68	.127 - .254	22.94	8.001	.762 - 1.22
22.23	13.46	.381 - .762	22.25	16.08	1.57 - 2.03	22.35	6.604	.127 - 4.75	22.56	19.30	.254 - .508	22.83	21.36	.254 - .508	22.94	8.382	.381 - .762
22.23	13.49	2.67 - 3.18	22.25	17.07	2.29 - 2.67	22.35	6.731	.127 - .254	22.58	10.03	2.67 - 3.05	22.86	1.600	.254 - .508	22.94	10.19	.127 - .254
22.23	13.64	.127 - .254	22.25	17.15	.762 - 1.02	22.35	7.671	.127 - .381	22.58	14.15	.127 - .254	22.86	2.007	.762 - 1.27	22.94	10.57	2.54 - 3.18
22.23	14.27	1.27 - 1.83	22.25	17.30	1.52 - 2.03	22.35	8.230	1.27 - 1.78	22.58	14.45	.127 - .254	22.86	2.540	.381 - .762	22.94	12.70	.635 - .914
22.23	14.30	.127 - 2.67	22.25	17.58	.508 - .762	22.35	8.458	1.07 - 1.52	22.58	19.25	.635 - 1.02	22.86	3.912	.127 - .254	22.94	13.49	4.06 - 4.57
22.23	14.40	.127 - 2.29	22.25	17.63	.508 - 1.02	22.35	8.636	4.06 - 4.83	22.58	19.96	.127 - .254	22.86	5.512	.635 - 1.02	22.94	16.87	.635 - 1.02
22.23	14.43	.508 - 1.22	22.25	17.83	.254 - .508	22.35	9.068	.127 - .254	22.61	4.877	1.27 - 1.83	22.86	6.401	.127 - .254	22.94	18.03	.254 - .508
22.23	14.71	1.27 - 1.52	22.25	18.14	.762 - 1.27	22.35	9.525	1.52 - 2.03	22.61	6.934	1.78 - 2.67	22.86	6.452	1.02 - 1.52	22.94	18.67	.127 - .381
22.23	14.73	.381 - .762	22.25	18.92	.635 - 1.02	22.35	9.550	.635 - 1.57	22.61	9.779	2.29 - 2.67	22.86	9.550	.127 - .762	22.94	19.30	.381 - .762
22.23	15.24	2.29 - 2.67	22.25	19.05	.762 - 1.02	22.35	9.652	.127 - 2.03	22.61	10.29	2.54 - 3.18	22.86	9.576	.127 - .254	22.94	19.46	1.02 - 1.52
22.23	15.49	.635 - 1.02	22.25	19.08	.381 - .762	22.35	9.677	.127 - .381	22.61	11.13	.762 - 1.02	22.86	9.601	.381 - 1.02	22.94	19.58	.127 - 1.27
22.23	15.52	1.27 - 1.78	22.28	3.251	1.52 - 2.03	22.35	9.804	1.78 - 2.29	22.61	12.80	.381 - .762	22.86	9.627	.127 - 1.98	22.94	19.84	1.02 - 1.27
22.23	15.77	1.52 - 2.03	22.28	4.318	.889 - 1.52	22.35	10.31	.127 - .254	22.61	13.46	.254 - .762	22.86	9.652	.254 - .508	22.96	5.232	1.02 - 1.52
22.23	15.90	1.27 - 1.78	22.28	4.394	2.54 - 3.18	22.35	10.34	2.03 - 2.67	22.61	13.64	2.67 - 3.18	22.86	9.906	.762 - 1.52	22.96	6.655	1.78 - 2.29
22.23	15.95	.127 - 1.52	22.28	6.350	.762 - 1.27	22.35	10.82	.127 - .381	22.61	14.73	.127 - .203	22.86	10.16	.127 - .254	22.96	8.103	.127 - .508
22.23	16.00	1.27 - 1.78	22.28	6.452	2.54 - 3.18	22.35	10.92	.127 - .254	22.61	14.78	.127 - .254	22.86	10.31	3.43 - 3.96	22.96	8.357	.127 - .254
22.23	16.03	.381 - .762	22.28	7.137	.254 - .381	22.35	11.56	.127 - .305	22.61	14.91	.127 - .254	22.86	11.10	.127 - .254	22.96	12.34	.635 - 1.07
22.23	16.05	2.54 - 3.18	22.28	7.950	.635 - 1.02	22.35	12.32	1.27 - 1.52	22.61	16.94	.127 - .254	22.86	11.18	.127 - .254	22.96	15.98	.508 - 2.54
22.23	16.13	.127 - .254	22.28	8.357	.508 - .762	22.35	12.57	.127 - .254	22.61	18.06	.635 - 1.02	22.86	11.20	.127 - .254	22.96	16.26	.762 - 1.02
22.23	16.18	.254 - 2.64	22.28	9.576	.305 - .508	22.35	12.83	.381 - .635	22.61	19.94	1.02 - 1.27	22.86	11.51	.762 - 1.02	22.96	16.48	.508 - .889
22.23	16.51	2.54 - 3.18	22.28	9.881	3.40 - 4.75	22.35	13.16	1.02 - 1.52	22.63	14.78	.762 - 1.27	22.86	11.56	1.27 - 1.78	22.96	17.53	.381 - .762
22.23	16.56	.787 - 1.22	22.28	10.34	4.32 - 4.83	22.35	13.28	.127 - .254	22.63	16.05	.127 - .254	22.86	12.42	.127 - .254	22.96	19.05	1.02 - 1.52
22.23	16.61	1.91 - 2.54	22.28	11.23	1.78 - 2.03	22.35	13.46	.762 - 1.02	22.63	16.99	.254 - .508	22.86	12.70	.127 - 2.67	22.96	20.45	.127 - 1.02
22.23	16.76	1.57 - 1.98	22.28	12.55	1.83 - 2.11	22.35	13.74	.635 - .889	22.63	18.06	.127 - .381	22.86	12.73	.127 - .508	22.99	3.226	2.29 - 2.79
22.23	16.92	1.02 - 1.52	22.28	12.65	1.27 - 1.91	22.35	15.34	.127 - .254	22.66	1.854	.635 - .914	22.86	12.78	.127 - .508	22.99	4.978	1.02 - 1.52
22.23	17.02	.127 - .254	22.28	12.88	1.52 - 2.03	22.35	15.77	.508 - 1.52	22.66	6.934	1.78 - 2.67	22.86	12.80	.127 - .203	22.99	6.045	.127 - .254
22.23	17.12	.254 - .508	22.28	15.06	2.03 - 2.54	22.35	15.90	1.57 - 1.98	22.66	9.906	.127 - .254	22.86	12.95	.381 - .762	22.99	8.382	.381 - .762
22.23	17.45	1.27 - 2.03	22.28	16.33	.635 - 1.07	22.35	16.74	1.78 - 2.03	22.66	13.06	.127 - .254	22.86	14.27	.127 - .381	22.99	8.738	.508 - .762
22.23	17.53	1.91 - 2.29	22.28	17.60	.762 - 1.27	22.35	17.30	.127 - .305	22.66	15.54	.254 - .635	22.86	14.30	1.02 - 1.52	22.99	9.957	.254 - 1.02
22.23	17.55	1.02 - 1.52	22.28	17.63	1.78 - 2.29	22.35	17.48	.762 - 1.27	22.66	16.05	.127 - .254	22.86	14.33	.254 - 2.54	22.99	10.06	.127 - .254
22.23	17.60	.762 - 1.27	22.28	19.18	1.07 - 1.57	22.35	17.53	1.52 - 1.78	22.66	16.59	1.27 - 1.78	22.86	14.48	.127 - 1.78	22.99	10.11	3.05 - 3.43
22.23	17.73	.127 - .254	22.28	21.23	.127 - .254	22.35	18.06	.635 - 1.02	22.66	18.44	.127 - .254	22.86	14.66	.381 - .635	22.99	10.52	4.57 - 4.83
22.23	18.26	.127 - 2.03	22.30	3.175	.508 - 1.02	22.38	5.105	.127 - .254	22.68	15.77	1.02 - 1.91	22.86	14.68	1.78 - 2.29	22.99	11.46	1.78 - 2.29
22.23	18.39	.254 - .508	22.30	4.750	.508 - 1.02	22.38	5.156	.127 - .254	22.68	17.81	.127 - .254	22.86	15.11	1.78 - 2.29	22.99	11.68	.127 - .254
22.23	18.67	1.27 - 1.78	22.30	5.563	.381 - 1.02	22.38	13.92	.762 - 1.27	22.71	4.953	.508 - 1.02	22.86	15.49	.508 - 1.02	22.99	12.01	.254 - .762
22.23	18.95	.254 - .508	22.30	5.817	1.02 - 1.52	22.38	16.79	.127 - .254	22.71	6.375	.254 - .508	22.86	15.88	.635 - 1.02	22.99	12.07	2.67 - 3.18
22.23	19.05	.762 - 1.27	22.30	6.706	1.52 - 2.11	22.38	17.30	.254 - .381	22.71	12.73	1.52 - 2.03	22.86	15.90	1.27 - 1.78	22.99	12.22	1.02 - 1.52
22.23	19.08	.127 - .381	22.30	7.163	.381 - .762	22.38	18.59	.508 - .762	22.71	15.85	.127 - .254	22.86	15.95	.127 - .254	22.99	12.52	1.78 - 2.29
22.23	19.18	.254 - .508	22.30	7.239	2.29 - 3.05	22.40	7.620	.127 - .254	22.71	19.35	.127 - .254	22.86	15.98	.254 - .508	22.99	13.03	1.52 - 2.03
22.23	19.20	.635 - 1.02	22.30	9.550	.635 - 1.02	22.40	8.204	.127 - .254	22.73	9.525	1.78 - 2.29	22.86	16.00	3.05 - 3.43	22.99	13.21	.508 - 1.02
22.23	19.30	.508 - 1.02	22.30	9.830	.508 - 1.57	22.40	8.255	.127 - .254	22.73	9.906	.813 - 1.57	22.86	16.10	1.02 - 1.52	22.99	13.49	1.27 - 1.52
22.25	1.702	.381 - .762	22.30	10.21	1.52 - 1.91	22.40	12.70	3.81 - 4.57	22.73	11.73	.127 - .254	22.86	16.54	.127 - .254	22.99	14.17	.127 - .254
22.25	2.362	.508 - 1.02	22.30	10.31	.635 - 1.02	22.40	13.72	2.29 - 2.79	22.73	14.58	.813 - 1.07	22.86	16.61	1.52 - 1.78	22.99	14.33	1.02 - 1.52
22.25	2.591	.508 - 1.02	22.30	11.10	.508 - 1.02	22.40	16.31	1.02 - 1.52	22.73	16.03	.127 - .254	22.86	16.79	1.78 - 2.29	22.99	14.86	1.27 - 1.91
22.25	3.226	1.52 - 2.03	22.30	11.33	1.27 - 1.91	22.40	16.87	.127 - .254	22.73	16.79	.254 - .508	22.86	17.02	.635 - 1.22	22.99	16.10	.813 - 1.52
22.25	3.302	.127 - .254	22.30	12.01	3.43 - 3.96	22.43	8.001	.254 - .508	22.73	18.62	1.27 - 1.78	22.86	17.53	.254 - 1.27	22.99	16.18	.381 - .762
22.25	4.166	.127 - .254	22.30	12.14	.254 - .508	22.43	12.70	1.27 - 1.91	22.73	20.19	.254 - .508	22.86	18.06	.635 - 1.02	22.99	16.23	1.02 - 1.52
22.25	4.394	1.27 - 1.78	22.30	12.73	.508 - 1.02	22.43	12.93	.762 - 1.27	22.73	20.35	.508 - .762	22.86	18.42	.508 - 1.02	22.99	16.33	.254 - .508
22.25	7.163	1.02 - 4.75	22.30	13.11	2.54 - 3.18	22.43	14.22	1.27 - 1.78	22.76	5.461	1.52 - 2.03	22.86	18.54	1.52 - 2.03	22.99	16.69	1.78 - 2.03
22.25	7.214	1.02 - 1.52	22.30	13.16	2.54 - 3.18	22.43	15.80	1.27 - 1.91	22.76	8.636	1.27 - 1.78	22.86	19.18	.254 - .508	22.99	16.94	1.02 - 1.52
22.25	7.290	2.54 - 3.18	22.30	13.28	2.54 - 3.18	22.43	19.74	.254 - .508	22.76	19.61	.508 - 1.07	22.86	20.32	.127 - .254	22.99	17.07	1.78 - 2.29
22.25	7.315	.127 - .254	22.30	13.49	.508 - 1.02	22.45	10.44	.127 - .254	22.78	7.417	.127 - .254	22.86	20.45	.127 - .254	22.99	17.09	2.29 - 3.18
22.25	8.052	.762 - 1.27	22.30	14.27	.635 - 1.02	22.45	12.95	.381 - .762	22.78	10.34	.127 - .254	22.86	20.57	.254 - .508	22.99	17.12	1.91 - 2.54
22.25	8.331	.127 - 4.75	22.30	14.48	.127 - .305	22.48	3.810	.508 - 1.02	22.78	10.36	.254 - .508	22.86	20.96	.127 - .254	22.99	17.20	2.67 - 3.18
22.25	8.636	4.06 - 4.83	22.30	14.86	.127 - .254	22.48	5.385	.254 - .508	22.78	10.39	.635 - 2.03	22.86	21.08	.381 - .635	22.99	17.32	.254 - .508
22.25	8.712	.635 - 1.02	22.30	15.06	.6												

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
23.01	18.49	.762 - 1.27	23.19	12.95	.508 - 1.02	23.37	20.80	.508 - .762	23.55	20.80	.127 - .254	23.75	7.874	1.27 - 2.11	23.80	13.13	2.67 - 3.18
23.01	18.54	.762 - 1.27	23.19	16.89	2.03 - 2.54	23.37	21.67	.254 - .508	23.57	2.134	1.27 - 1.57	23.75	8.077	.127 - .254	23.80	13.16	.127 - .254
23.01	19.05	.254 - .508	23.19	21.51	.127 - .254	23.39	7.976	1.98 - 2.29	23.57	2.210	1.27 - 1.52	23.75	8.153	.127 - .254	23.80	13.21	.508 - 3.18
23.01	19.28	.254 - .508	23.22	13.23	.127 - .254	23.39	10.21	.127 - .254	23.57	3.886	1.52 - 2.03	23.75	11.15	.508 - 1.27	23.80	14.48	.127 - .254
23.01	19.53	.254 - .508	23.22	15.14	.635 - 1.02	23.39	11.30	.127 - .254	23.57	9.728	.127 - .381	23.75	11.56	2.54 - 3.18	23.80	14.68	2.03 - 2.64
23.04	5.791	1.02 - 1.52	23.22	16.51	.381 - .762	23.39	12.45	.635 - 1.02	23.57	14.02	2.03 - 2.54	23.75	12.22	.762 - 1.27	23.80	14.73	.762 - 1.27
23.04	7.442	1.78 - 2.29	23.24	8.890	1.02 - 1.52	23.39	12.90	.254 - .508	23.57	17.22	.127 - .254	23.75	12.42	2.29 - 3.05	23.80	15.09	1.27 - 1.52
23.04	8.382	1.27 - 1.52	23.24	11.33	.381 - .635	23.39	13.49	.635 - 1.02	23.60	6.604	.508 - 1.02	23.75	12.73	2.03 - 2.64	23.80	15.82	.508 - 1.02
23.04	9.652	3.18 - 3.43	23.24	11.38	.127 - .254	23.39	14.91	.508 - 1.02	23.60	11.94	1.83 - 2.67	23.75	13.28	2.03 - 2.67	23.80	15.85	.508 - 2.29
23.04	10.44	.635 - 1.02	23.24	12.93	1.27 - 1.78	23.39	16.00	.254 - .508	23.60	14.48	.127 - .254	23.75	13.59	2.29 - 2.67	23.80	15.88	.127 - .254
23.04	11.91	2.54 - 3.05	23.24	12.95	.127 - .254	23.39	16.28	.254 - .508	23.60	14.61	.127 - .254	23.75	14.35	.305 - .508	23.80	15.98	.762 - 1.27
23.04	13.06	.127 - .254	23.24	13.00	.508 - 1.02	23.39	17.27	.635 - 1.02	23.60	15.24	1.27 - 1.91	23.75	14.45	.762 - 1.27	23.80	16.18	.635 - 1.07
23.04	15.32	1.78 - 2.29	23.24	15.65	.381 - .762	23.39	17.32	.762 - 1.27	23.60	17.50	.127 - 2.64	23.75	14.48	.762 - 1.52	23.80	16.26	.813 - 1.52
23.04	15.85	.508 - .889	23.24	15.82	.762 - 1.52	23.39	20.02	.508 - 1.02	23.60	17.70	.305 - .508	23.75	14.76	2.54 - 3.18	23.80	16.51	.127 - .254
23.04	16.38	.508 - 1.02	23.24	15.95	2.03 - 2.41	23.39	20.07	.127 - .254	23.62	2.235	.381 - .762	23.75	15.85	2.54 - 3.18	23.80	16.66	.813 - 1.52
23.04	16.99	1.52 - 2.03	23.24	18.90	.127 - .254	23.42	8.026	2.67 - 3.18	23.62	2.489	.508 - 1.02	23.75	17.30	.762 - 1.27	23.80	17.07	.127 - .254
23.04	17.07	1.07 - 1.52	23.24	19.69	.127 - .254	23.42	11.43	2.03 - 2.54	23.62	5.055	.127 - 2.11	23.75	17.32	.127 - .254	23.80	17.15	1.52 - 1.91
23.04	17.32	.762 - 1.27	23.27	3.810	.508 - .813	23.42	15.44	1.27 - 1.91	23.62	6.858	.127 - .254	23.75	17.35	.762 - 1.52	23.80	17.45	2.54 - 3.18
23.04	18.49	.127 - .381	23.27	8.052	2.54 - 3.05	23.42	16.00	.254 - .508	23.62	7.264	1.78 - 2.29	23.75	17.40	1.83 - 3.05	23.80	17.60	.381 - .508
23.04	18.80	.254 - 1.27	23.27	12.88	.508 - 1.02	23.42	16.26	.762 - 1.27	23.62	7.645	.381 - .762	23.75	17.45	.508 - 1.02	23.80	17.86	.254 - .508
23.04	19.23	.254 - .508	23.27	13.51	1.02 - 1.52	23.42	17.02	.254 - .508	23.62	9.576	.127 - .508	23.75	18.16	.406 - .813	23.80	18.72	.508 - .762
23.06	8.433	3.43 - 3.96	23.27	13.72	.508 - 1.02	23.42	17.45	.508 - .762	23.62	9.677	1.02 - 3.18	23.75	18.26	.254 - .762	23.80	19.15	1.22 - 1.83
23.06	8.687	1.27 - 1.91	23.27	14.48	1.27 - 2.29	23.42	19.18	.508 - 1.02	23.62	11.18	.508 - 1.02	23.75	18.29	1.27 - 1.78	23.80	19.61	1.52 - 2.03
23.06	9.627	.635 - 1.02	23.27	14.50	2.29 - 2.79	23.42	19.25	1.27 - 1.78	23.62	12.07	1.02 - 1.52	23.75	18.62	.635 - 1.02	23.80	19.94	.127 - .381
23.06	12.75	.762 - 1.27	23.27	18.64	.508 - 1.02	23.44	6.731	2.29 - 2.67	23.62	12.73	.635 - 1.57	23.75	18.67	.127 - .254	23.80	20.14	.635 - 1.02
23.06	14.10	2.03 - 2.67	23.27	18.67	.508 - 1.02	23.44	10.08	.381 - .635	23.62	13.21	.508 - 1.02	23.75	19.89	.127 - .254	23.80	20.37	.381 - 1.02
23.06	14.33	.381 - .762	23.27	20.19	.254 - .508	23.44	12.75	.381 - .762	23.62	15.47	1.07 - 1.83	23.75	20.17	1.52 - 1.91	23.80	20.65	.127 - .254
23.06	15.65	.508 - .813	23.27	20.42	.406 - .813	23.44	12.85	1.27 - 1.78	23.62	16.00	.254 - .635	23.75	20.22	.508 - 1.02	23.80	22.23	.635 - .889
23.06	17.48	.254 - .635	23.27	21.18	.127 - .254	23.44	16.79	.127 - .254	23.62	16.13	2.03 - 2.64	23.75	20.50	1.02 - 1.52	23.83	3.556	1.22 - 1.57
23.06	17.91	.762 - 1.22	23.29	12.73	1.27 - 2.29	23.44	16.97	.762 - 1.27	23.62	16.38	.127 - .254	23.75	21.31	.508 - .762	23.83	3.658	2.67 - 3.43
23.06	19.08	1.52 - 2.03	23.29	12.85	.254 - .508	23.44	17.22	.508 - .762	23.62	17.09	.254 - .508	23.75	21.84	.381 - .762	23.83	3.810	1.27 - 1.83
23.06	19.13	.127 - .254	23.29	13.49	1.57 - 1.98	23.44	19.15	.508 - 1.02	23.62	17.25	.127 - .254	23.75	22.12	.127 - .254	23.83	5.055	1.22 - 1.57
23.06	19.41	.508 - .762	23.29	14.71	1.27 - 1.52	23.44	19.18	.381 - 1.27	23.62	17.78	.127 - .254	23.77	6.756	1.52 - 2.03	23.83	5.080	.762 - 1.52
23.06	19.43	.508 - 1.02	23.29	15.14	.127 - .381	23.44	20.83	.127 - .254	23.62	17.81	.381 - .762	23.77	7.874	1.27 - 2.03	23.83	5.105	2.54 - 3.05
23.09	6.350	.762 - 1.02	23.29	15.82	1.02 - 1.52	23.47	5.105	2.54 - 3.18	23.62	18.03	.127 - .254	23.77	7.950	.508 - .889	23.83	5.512	1.27 - 1.83
23.09	8.687	1.27 - 1.91	23.32	12.62	.254 - .508	23.47	6.426	.127 - .254	23.62	19.05	.635 - 1.02	23.77	8.712	2.67 - 3.18	23.83	6.248	1.22 - 1.57
23.09	9.246	.127 - .254	23.32	15.14	.127 - .254	23.47	9.703	.762 - 1.02	23.62	19.30	.127 - .762	23.77	9.525	1.02 - 1.27	23.83	6.756	1.07 - 1.52
23.09	9.627	.127 - .254	23.32	15.60	.127 - .254	23.47	13.67	.254 - .381	23.62	20.62	.254 - .508	23.77	9.906	1.52 - 2.29	23.83	8.077	1.22 - 1.57
23.09	16.10	.254 - .508	23.32	19.35	.635 - .889	23.47	18.47	1.02 - 1.52	23.65	11.53	.508 - .762	23.77	10.31	1.27 - 1.78	23.83	8.179	.889 - 1.52
23.09	17.17	.178 - .381	23.34	6.528	1.78 - 2.29	23.47	18.95	.508 - 1.02	23.65	12.14	.508 - .762	23.77	12.19	.254 - .762	23.83	8.331	2.64 - 3.40
23.09	19.02	1.02 - 1.52	23.34	9.296	.127 - .254	23.50	2.311	.127 - .254	23.65	15.19	.889 - 1.52	23.77	12.22	.127 - 1.52	23.83	8.712	1.22 - 1.57
23.09	20.22	.127 - .254	23.34	10.06	.127 - .254	23.50	4.013	2.54 - 3.18	23.65	16.05	2.67 - 3.18	23.77	12.75	.127 - .254	23.83	9.550	1.22 - 1.57
23.11	6.350	2.03 - 2.64	23.34	12.52	2.54 - 3.18	23.50	7.341	2.54 - 3.05	23.65	16.76	.508 - .762	23.77	13.13	2.29 - 2.79	23.83	9.627	.127 - .254
23.11	8.382	.762 - 1.02	23.34	14.35	.127 - .508	23.50	7.976	.254 - .381	23.65	17.55	1.02 - 1.52	23.77	13.64	.127 - .254	23.83	9.728	2.67 - 3.18
23.11	9.677	1.27 - 1.78	23.34	17.04	.127 - .254	23.50	8.179	1.78 - 2.29	23.65	18.52	1.27 - 1.78	23.77	14.02	.127 - .254	23.83	9.855	2.29 - 2.67
23.11	10.16	.381 - .762	23.34	17.70	.254 - .508	23.50	8.788	.381 - .635	23.65	19.35	.508 - .762	23.77	15.93	1.02 - 1.52	23.83	11.15	1.07 - 1.57
23.11	10.59	.254 - .508	23.34	19.43	.127 - .254	23.50	10.08	1.22 - 1.83	23.65	20.60	1.02 - 1.52	23.77	16.28	2.54 - 3.18	23.83	11.28	1.02 - 1.57
23.11	10.80	.127 - .254	23.34	20.62	.508 - .762	23.50	11.13	.381 - .762	23.67	6.172	1.27 - 1.78	23.77	16.38	2.67 - 3.43	23.83	11.63	.127 - .254
23.11	11.18	.127 - .254	23.37	1.219	.127 - .254	23.50	11.30	1.52 - 2.11	23.67	8.382	.635 - 1.02	23.77	16.51	1.27 - 1.78	23.83	12.83	.762 - 1.27
23.11	11.89	1.91 - 2.29	23.37	2.286	1.02 - 1.52	23.50	11.43	.635 - 1.02	23.67	8.509	1.27 - 1.78	23.77	16.76	.127 - .203	23.83	12.88	.127 - .254
23.11	12.45	3.30 - 3.96	23.37	3.988	.127 - .254	23.50	12.04	1.27 - 1.78	23.67	11.81	2.29 - 2.79	23.77	17.45	1.32 - 2.13	23.83	13.23	.127 - .254
23.11	12.70	.635 - 1.02	23.37	4.140	.813 - 1.52	23.50	13.11	.635 - 1.02	23.67	11.91	1.02 - 1.57	23.77	18.24	.508 - 1.02	23.83	13.51	2.67 - 3.18
23.11	13.08	2.54 - 3.18	23.37	5.080	.127 - .254	23.50	13.36	.381 - .762	23.67	14.30	.127 - .305	23.80	2.032	.508 - .889	23.83	13.97	.127 - .254
23.11	13.72	1.52 - 2.03	23.37	5.842	.635 - 1.02	23.50	14.61	1.78 - 2.29	23.67	17.17	.381 - .762	23.80	2.337	1.27 - 1.78	23.83	14.27	.762 - 1.27
23.11	14.22	2.79 - 3.30	23.37	6.426	.127 - 1.91	23.50	14.63	1.27 - 1.91	23.67	19.02	1.27 - 1.78	23.80	2.794	1.27 - 1.78	23.83	14.30	.381 - .762
23.11	14.99	.127 - .254	23.37	6.731	1.02 - 1.52	23.50	14.66	1.27 - 1.91	23.67	19.69	.127 - .254	23.80	4.420	1.57 - 2.03	23.83	14.48	1.78 - 2.29
23.11	16.51	.127 - .381	23.37	6.833	3.43 - 4.75	23.50	15.52	.254 - .508	23.67	22.07	.127 - .508	23.80	6.528	.813 - 1.22	23.83	15.11	.127 - .254
23.11	16.94	.762 - 1.27	23.37	8.026	2.03 - 2.54	23.50	16.79	.635 - 1.02	23.67	22.10	.254 - .508	23.80	6.985	.762 - 1.27	23.83	15.14	.127 - .254
23.11	17.86	.762 - 1.02															

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
23.85	14.30	.127 - .254	23.93	13.46	.127 - .254	24.00	21.46	.127 - .381	24.16	3.962	.381 - .762	24.41	18.54	.127 - .254	24.64	18.36	.127 - .254
23.85	15.49	1.02 - 1.52	23.93	15.95	1.52 - 2.03	24.03	8.992	.127 - .254	24.16	9.550	.254 - .508	24.41	20.83	.254 - .508	24.64	19.15	1.02 - 1.52
23.85	15.95	.381 - .762	23.93	17.60	.127 - .254	24.03	9.804	1.02 - 1.52	24.16	9.576	.508 - .762	24.41	21.44	.254 - .508	24.64	19.53	.127 - .254
23.85	16.00	.508 - 1.02	23.93	18.39	2.54 - 3.18	24.03	10.11	.254 - .508	24.16	9.652	1.02 - 1.52	24.41	22.30	.127 - .254	24.64	20.37	.762 - 1.22
23.85	16.08	.381 - .762	23.93	18.90	.127 - .254	24.03	12.01	.127 - .254	24.16	9.855	.254 - .508	24.43	1.143	.381 - .635	24.64	22.40	.254 - .508
23.85	16.26	.381 - .635	23.93	20.17	.127 - .254	24.03	13.03	2.67 - 3.18	24.16	12.70	.254 - .508	24.43	1.397	.127 - .254	24.66	8.763	2.67 - 3.43
23.85	16.66	.762 - 1.02	23.93	20.27	.508 - .762	24.03	15.29	.635 - 1.07	24.16	14.88	.381 - .635	24.43	19.46	.127 - .254	24.66	9.550	1.52 - 2.03
23.85	16.76	1.27 - 1.78	23.95	10.31	.127 - .254	24.03	17.22	.127 - .254	24.16	16.79	.127 - .254	24.43	19.53	.889 - 1.57	24.66	10.36	1.27 - 1.91
23.85	17.22	1.02 - 1.52	23.95	10.62	3.05 - 3.56	24.03	17.42	1.57 - 1.78	24.16	18.82	.508 - .762	24.43	20.04	.508 - .762	24.66	11.15	.508 - 1.02
23.85	17.78	.127 - .254	23.95	10.82	.508 - 1.02	24.03	18.21	1.52 - 2.03	24.18	3.175	.635 - 1.02	24.46	6.883	.127 - .254	24.66	11.28	.508 - .762
23.85	18.77	1.27 - 1.78	23.95	11.23	.254 - .762	24.03	19.96	1.27 - 1.78	24.18	4.216	1.52 - 2.03	24.46	7.188	.762 - 1.27	24.66	13.97	.762 - 1.27
23.85	19.89	1.02 - 1.52	23.95	12.01	1.91 - 2.29	24.05	3.251	.127 - .254	24.18	5.029	1.22 - 1.78	24.46	10.16	.508 - 1.02	24.66	15.37	.127 - .254
23.85	20.29	.762 - 1.27	23.95	12.07	.127 - .254	24.05	10.08	.254 - .508	24.18	5.410	1.22 - 1.78	24.46	11.46	.762 - 1.27	24.66	16.03	2.03 - 2.64
23.85	22.07	.381 - .635	23.95	13.13	.127 - .254	24.05	11.76	1.52 - 1.78	24.18	9.550	.127 - .254	24.46	12.70	.254 - .508	24.66	18.29	2.64 - 3.18
23.88	4.724	.787 - 1.22	23.95	13.89	.762 - 1.27	24.05	14.38	.762 - 1.22	24.18	11.94	.127 - .254	24.46	12.80	.127 - .254	24.66	19.33	.127 - .508
23.88	4.928	.254 - .508	23.95	14.43	2.03 - 2.54	24.05	15.21	1.07 - 1.52	24.18	12.75	1.27 - 1.78	24.46	16.74	2.03 - 2.54	24.66	21.26	1.02 - 1.52
23.88	5.867	.127 - .254	23.95	15.14	.762 - 1.27	24.05	18.54	.762 - 1.27	24.18	14.10	1.52 - 1.78	24.46	19.25	.508 - .762	24.66	21.97	.762 - 1.27
23.88	6.426	.178 - .381	23.95	15.16	.127 - .305	24.05	19.23	.254 - .635	24.18	14.48	2.03 - 2.54	24.46	20.32	.762 - 1.27	24.69	8.509	1.02 - 1.52
23.88	8.001	.254 - 1.91	23.95	18.69	1.78 - 2.29	24.05	19.81	.508 - 1.02	24.18	15.93	.127 - .254	24.46	22.48	.254 - .508	24.69	9.271	.254 - .508
23.88	10.16	4.06 - 4.83	23.98	3.810	1.02 - 1.52	24.05	19.89	1.22 - 1.57	24.18	17.40	1.52 - 1.78	24.49	9.550	.762 - 1.27	24.69	14.48	2.54 - 3.30
23.88	10.34	2.29 - 3.05	23.98	6.045	.127 - .254	24.05	20.29	.254 - .508	24.18	17.45	.127 - .254	24.49	12.70	.381 - .762	24.69	16.69	.381 - 2.67
23.88	11.10	.127 - .254	23.98	6.756	.127 - .254	24.05	20.85	.127 - .254	24.21	17.60	2.67 - 3.18	24.49	16.56	2.29 - 3.05	24.69	18.95	1.27 - 1.78
23.88	11.20	1.02 - 1.52	23.98	7.137	.635 - .914	24.08	1.499	.127 - .254	24.21	18.03	2.67 - 3.43	24.51	6.706	.508 - 1.02	24.69	19.41	1.27 - 1.91
23.88	12.22	1.27 - 1.91	23.98	7.976	2.03 - 2.54	24.08	6.223	.127 - 1.83	24.21	18.85	2.29 - 2.67	24.51	10.74	.762 - 1.02	24.71	2.794	1.27 - 1.83
23.88	12.45	1.91 - 2.67	23.98	8.052	.127 - .508	24.08	6.655	1.52 - 2.03	24.23	8.179	.127 - .254	24.51	12.85	1.52 - 1.91	24.71	14.40	.127 - .254
23.88	12.75	.381 - .762	23.98	8.103	.203 - .305	24.08	9.906	.127 - .254	24.23	16.00	2.67 - 3.18	24.51	13.06	2.29 - 3.05	24.71	15.11	.127 - 1.91
23.88	12.90	2.54 - 3.18	23.98	10.01	.127 - .254	24.08	10.11	.127 - .254	24.23	17.02	1.52 - 1.78	24.51	14.73	.813 - 1.52	24.74	5.740	1.27 - 1.91
23.88	12.93	1.27 - 1.78	23.98	10.74	3.96 - 4.75	24.08	10.49	.127 - .254	24.23	19.13	1.02 - 1.52	24.51	15.49	.508 - .889	24.74	6.604	1.27 - 1.78
23.88	13.16	1.27 - 1.78	23.98	10.97	2.67 - 3.18	24.08	11.15	.254 - .508	24.23	20.98	.127 - .254	24.51	15.75	.635 - 1.02	24.74	12.75	.127 - .254
23.88	13.21	2.29 - 2.67	23.98	11.23	.127 - .508	24.08	11.38	1.52 - 1.78	24.26	12.95	.635 - 1.02	24.51	16.36	.127 - .254	24.74	16.99	.381 - .635
23.88	13.34	1.02 - 1.52	23.98	12.01	.127 - .254	24.08	12.32	2.29 - 2.54	24.26	18.62	.508 - 1.02	24.51	16.99	2.03 - 2.67	24.74	17.75	.635 - 1.02
23.88	13.59	.762 - 1.02	23.98	12.07	.127 - .254	24.08	12.52	1.57 - 2.03	24.26	20.96	.254 - .508	24.51	18.01	.127 - .254	24.74	18.19	3.05 - 3.43
23.88	14.05	2.54 - 3.18	23.98	12.17	.508 - .762	24.08	12.75	.152 - .381	24.26	21.54	.127 - .254	24.51	19.15	.508 - 1.02	24.74	19.18	1.27 - 1.78
23.88	14.99	.381 - .762	23.98	12.75	.254 - .508	24.08	12.78	.127 - .254	24.28	11.15	1.52 - 3.18	24.51	19.89	.508 - .914	24.74	19.51	.762 - 1.27
23.88	15.01	1.52 - 1.78	23.98	15.11	.508 - 1.02	24.08	12.85	.127 - .254	24.28	16.13	.127 - 1.27	24.54	9.931	1.02 - 1.52	24.77	11.18	.127 - .254
23.88	15.42	.762 - 1.52	23.98	16.08	.127 - .254	24.08	13.06	1.27 - 1.91	24.28	19.84	.127 - .254	24.54	13.77	.508 - .813	24.77	12.57	.127 - .254
23.88	15.49	.762 - 1.52	23.98	17.09	.381 - .635	24.08	13.16	.762 - 1.52	24.28	20.83	.127 - .254	24.54	16.33	2.03 - 2.67	24.77	12.78	.381 - .762
23.88	16.08	.127 - .254	23.98	17.63	1.02 - 1.52	24.08	14.63	.127 - .254	24.31	7.493	.762 - 1.27	24.54	17.86	1.52 - 1.91	24.77	13.49	.254 - .508
23.88	16.26	.127 - 2.67	23.98	19.46	.508 - 1.02	24.08	16.92	.889 - 1.27	24.31	15.90	1.02 - 1.52	24.56	6.731	.127 - .762	24.77	13.51	.635 - 1.02
23.88	16.28	.635 - 1.02	23.98	20.19	.381 - .762	24.08	19.38	.127 - .254	24.31	18.64	.381 - .762	24.56	9.525	2.29 - 3.18	24.77	13.97	1.27 - 1.52
23.88	16.41	1.52 - 2.03	24.00	5.613	1.27 - 1.91	24.08	19.81	.508 - 1.02	24.31	20.62	.127 - .254	24.56	13.77	.381 - .762	24.77	14.50	1.27 - 2.79
23.88	16.66	1.02 - 1.52	24.00	6.096	.127 - .254	24.08	21.95	.635 - 1.02	24.31	21.36	.381 - .508	24.56	14.40	1.78 - 2.29	24.77	15.14	.762 - 1.02
23.88	17.09	.127 - .762	24.00	6.325	1.52 - 3.18	24.10	4.801	.127 - .254	24.33	11.23	.127 - .254	24.56	15.06	1.27 - 1.91	24.77	16.00	.254 - .508
23.88	17.12	.127 - .254	24.00	7.163	1.02 - 1.52	24.10	9.652	1.02 - 1.52	24.33	15.39	1.27 - 1.83	24.56	18.26	1.52 - 2.03	24.77	16.26	.127 - .508
23.88	17.42	.254 - .508	24.00	7.976	.127 - .254	24.10	12.78	.127 - .254	24.33	16.23	.508 - .762	24.56	19.33	1.27 - 1.91	24.77	17.45	2.29 - 2.54
23.88	17.78	.381 - .635	24.00	8.001	.254 - .508	24.10	12.83	1.27 - 1.78	24.33	19.79	1.78 - 2.03	24.59	13.13	1.27 - 1.91	24.77	17.70	1.57 - 1.91
23.88	17.81	.381 - .762	24.00	8.052	.127 - 1.78	24.10	12.88	.127 - .508	24.36	7.620	.381 - .635	24.59	15.88	1.27 - 1.78	24.77	17.75	.127 - .254
23.88	17.88	2.11 - 2.67	24.00	8.179	.254 - .508	24.10	12.98	.254 - .508	24.36	8.331	.762 - 1.27	24.59	16.10	.127 - .381	24.77	19.43	1.02 - 1.27
23.88	18.03	.762 - 1.27	24.00	8.407	1.78 - 2.29	24.10	15.04	1.83 - 2.29	24.36	10.67	.762 - 1.27	24.59	16.15	.762 - 1.27	24.77	20.19	.127 - .305
23.88	18.31	1.02 - 1.52	24.00	8.763	.508 - 1.02	24.13	2.591	.127 - .762	24.36	16.28	2.29 - 3.05	24.59	16.64	.635 - 1.14	24.77	20.42	.762 - 1.52
23.88	19.10	.127 - .254	24.00	9.601	1.27 - 1.78	24.13	3.175	.127 - .254	24.36	18.52	.508 - 1.02	24.59	17.15	.381 - .762	24.77	20.96	.127 - .254
23.88	19.46	1.27 - 1.91	24.00	9.881	1.27 - 1.91	24.13	3.327	1.57 - 2.03	24.38	3.175	.813 - 1.52	24.59	17.45	.508 - 1.02	24.77	22.48	.254 - .508
23.88	19.71	.127 - .254	24.00	9.982	.762 - 1.27	24.13	4.724	.508 - .889	24.38	3.378	.254 - .635	24.59	18.24	1.27 - 1.91	24.79	10.01	.889 - 1.27
23.88	20.02	.508 - .762	24.00	10.01	.254 - .508	24.13	4.801	.127 - .762	24.38	3.937	1.27 - 1.83	24.59	18.52	.381 - .762	24.79	12.78	.762 - 1.27
23.88	21.08	.127 - .305	24.00	10.44	.127 - .254	24.13	5.029	1.19 - 1.78	24.38	6.579	.127 - .254	24.59	18.82	.127 - .254	24.79	13.34	.254 - .508
23.90	3.023	.762 - 1.52	24.00	11.02	3.96 - 4.75	24.13	5.182	.508 - .889	24.38	8.001	.508 - .813	24.59	22.07	.635 - 1.02	24.79	13.39	.381 - .762
23.90	3.810	1.52 - 1.78	24.00	11.51	3.96 - 4.75	24.13	5.563	.381 - .762	24.38	8.890	.813 - 1.27	24.61	6.350	1.27 - 1.78	24.79	14.35	.127 - .254
23.90	6.528	.254 - .508	24.00	11.53	3.96 - 4.75	24.13	5.944	.381 - .762	24.38	10.11	2.29 - 2.67	24.61	9.931	.762 - 1.27	24.79	16.26	.127 - .508
23.90	6.604	1.27 - 1.78	24.00	11.99	.127 - .254	24.13</											

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
24.87	13.13	3.18 - 3.43	24.99	6.528	2.67 - 3.18	25.07	10.08	.127 - .254	25.17	15.93	2.67 - 3.43	25.27	18.80	.635 - 1.02	25.35	12.90	2.29 - 2.79
24.87	14.30	1.78 - 2.29	24.99	7.214	.127 - .254	25.07	13.11	1.27 - 1.78	25.17	17.22	.762 - 1.27	25.27	19.05	.127 - .254	25.35	12.93	.127 - .254
24.87	16.00	.127 - .254	24.99	9.017	2.03 - 2.64	25.07	19.00	.635 - 1.07	25.17	19.08	.762 - 1.02	25.27	19.38	.127 - .254	25.35	13.08	2.03 - 2.54
24.87	17.12	.127 - .254	24.99	10.01	.127 - .254	25.10	6.477	.635 - 1.02	25.17	19.56	.381 - .762	25.27	19.46	.127 - .254	25.35	13.11	.127 - .254
24.87	17.22	.635 - 1.02	24.99	10.03	2.54 - 3.18	25.10	8.992	.508 - 1.02	25.17	19.79	1.02 - 1.52	25.27	22.17	1.02 - 1.52	25.35	13.56	.762 - 1.27
24.87	17.91	.127 - .254	24.99	11.05	.127 - .254	25.10	12.67	1.02 - 1.52	25.17	20.22	.508 - .762	25.27	23.83	.254 - .508	25.35	14.27	.381 - .508
24.87	18.03	.762 - 1.27	24.99	11.91	2.03 - 2.54	25.10	12.83	2.29 - 3.05	25.17	22.28	.127 - .254	25.30	3.048	1.07 - 1.57	25.35	14.30	1.91 - 2.54
24.87	21.26	.254 - .762	24.99	12.01	.127 - .254	25.10	12.85	.635 - 1.02	25.17	22.35	.381 - 1.52	25.30	4.318	.127 - .254	25.35	14.55	1.27 - 1.78
24.87	21.34	.381 - .762	24.99	12.22	1.02 - 1.52	25.10	15.16	1.02 - 1.52	25.17	22.53	.127 - .254	25.30	6.477	.127 - .254	25.35	14.66	.127 - .254
24.89	5.029	.127 - .254	24.99	12.88	1.78 - 2.29	25.10	17.86	.127 - .254	25.20	6.604	.127 - .254	25.30	7.188	2.29 - 3.18	25.35	14.68	.254 - .508
24.89	6.248	.381 - .762	24.99	13.03	2.67 - 3.18	25.10	18.69	1.02 - 1.52	25.20	6.680	.127 - .254	25.30	8.077	.127 - .254	25.35	14.73	3.99 - 4.75
24.89	7.671	.381 - .762	24.99	13.46	1.07 - 1.57	25.10	19.25	.127 - .381	25.20	6.858	.127 - .381	25.30	8.204	.127 - .254	25.35	15.98	.127 - .254
24.89	8.814	.127 - .254	24.99	13.49	.127 - .254	25.10	19.28	.762 - 1.27	25.20	8.026	2.79 - 3.30	25.30	10.03	3.96 - 4.75	25.35	16.00	.254 - .508
24.89	10.03	.381 - .635	24.99	14.12	.127 - .254	25.10	19.30	.127 - .254	25.20	8.382	2.79 - 3.30	25.30	10.06	2.54 - 3.18	25.35	16.18	1.02 - 1.52
24.89	10.34	2.54 - 3.18	24.99	14.53	1.02 - 1.52	25.10	22.28	.381 - .762	25.20	9.830	.508 - 1.02	25.30	11.20	.508 - .762	25.35	16.81	1.27 - 1.78
24.89	11.30	.127 - .254	24.99	15.88	1.02 - 1.52	25.12	4.470	.127 - .254	25.20	13.28	.635 - 1.02	25.30	11.76	1.52 - 2.03	25.35	17.07	.127 - .305
24.89	11.63	.508 - .762	24.99	15.95	.889 - 1.52	25.12	5.105	2.03 - 2.54	25.20	13.61	.127 - .254	25.30	12.98	1.02 - 1.52	25.35	17.22	.813 - 1.07
24.89	12.22	.127 - .254	24.99	16.00	.381 - .635	25.12	6.579	1.52 - 1.78	25.20	14.78	.762 - 1.27	25.30	14.68	1.91 - 2.29	25.35	17.63	.508 - 1.02
24.89	12.70	.254 - .508	24.99	16.28	2.03 - 2.67	25.12	7.163	2.03 - 2.54	25.20	16.99	.127 - .254	25.30	16.00	.254 - .381	25.35	19.00	.889 - 1.52
24.89	12.73	.127 - .254	24.99	16.33	1.52 - 2.03	25.12	10.16	2.54 - 3.18	25.20	17.45	.762 - 3.43	25.30	16.92	1.02 - 1.52	25.35	20.14	.127 - .254
24.89	13.06	.127 - .254	24.99	16.46	.381 - .762	25.12	12.85	1.78 - 2.29	25.20	17.48	1.27 - 1.78	25.30	17.58	.254 - .762	25.35	21.72	.127 - .254
24.89	13.23	.635 - 1.02	24.99	16.51	2.54 - 3.18	25.12	13.08	1.52 - 2.03	25.20	19.15	1.02 - 1.52	25.30	18.80	1.27 - 1.78	25.35	22.28	.381 - .762
24.89	13.26	.127 - .254	24.99	17.50	.508 - .762	25.12	14.22	.635 - 1.02	25.20	21.21	.254 - .381	25.30	19.25	.127 - .254	25.35	23.19	.127 - .254
24.89	15.24	.762 - 2.67	24.99	18.16	1.27 - 1.91	25.12	16.26	.127 - .254	25.22	6.325	1.02 - 1.27	25.30	19.94	1.27 - 1.91	25.37	.9144	.127 - .254
24.89	16.26	.178 - .381	24.99	18.19	.635 - 1.07	25.12	18.69	2.54 - 3.05	25.22	7.493	1.57 - 3.05	25.30	20.02	.127 - .254	25.37	2.438	.254 - .508
24.89	16.43	.127 - .254	24.99	19.00	.254 - .508	25.12	18.77	.127 - .254	25.22	7.544	1.57 - 3.05	25.30	20.27	1.02 - 1.27	25.37	3.099	.127 - .254
24.89	16.46	1.27 - 1.78	24.99	19.02	1.02 - 1.52	25.12	19.58	1.52 - 1.91	25.22	8.026	.127 - .254	25.30	20.52	1.02 - 1.52	25.37	5.105	1.27 - 1.78
24.89	16.87	1.52 - 2.11	24.99	20.17	1.78 - 2.29	25.12	20.04	.508 - 1.02	25.22	9.423	1.78 - 2.29	25.30	20.62	1.52 - 2.03	25.37	5.232	.127 - .254
24.89	18.26	1.02 - 1.52	24.99	20.19	.635 - 1.07	25.12	21.08	.381 - .762	25.22	13.28	1.02 - 1.52	25.30	20.65	.381 - .762	25.37	6.172	.762 - 1.27
24.89	18.80	.508 - 1.02	24.99	20.27	1.78 - 2.29	25.12	21.44	.127 - .508	25.22	15.37	.508 - 1.02	25.30	20.90	.127 - 1.52	25.37	6.401	.762 - 1.14
24.89	19.23	2.03 - 2.64	24.99	20.29	1.02 - 1.52	25.12	22.33	.127 - .254	25.22	16.21	1.02 - 1.52	25.30	21.82	1.02 - 1.52	25.37	6.426	.127 - .254
24.89	21.36	.762 - 1.27	24.99	20.75	.127 - .254	25.15	3.175	1.02 - 1.52	25.22	16.26	1.57 - 2.29	25.30	21.95	1.02 - 1.52	25.37	6.782	2.67 - 3.18
24.89	21.62	.254 - .508	24.99	22.35	.381 - .762	25.15	3.200	.254 - .508	25.22	16.64	1.78 - 2.29	25.30	22.28	.127 - .762	25.37	7.214	.127 - .254
24.89	21.84	.127 - .254	25.02	5.309	1.52 - 2.03	25.15	9.017	2.03 - 2.54	25.22	17.50	.254 - 1.02	25.30	22.35	.508 - .762	25.37	8.738	2.03 - 2.64
24.89	22.23	.127 - .254	25.02	5.461	1.02 - 1.52	25.15	11.10	.254 - .508	25.25	6.172	.635 - 1.07	25.30	22.38	.635 - 1.02	25.37	8.839	2.03 - 2.64
24.92	10.06	.254 - .508	25.02	6.350	1.02 - 1.27	25.15	11.13	2.67 - 3.18	25.25	7.290	2.29 - 2.79	25.32	3.861	1.27 - 1.91	25.37	9.042	.127 - .254
24.92	11.86	.508 - .762	25.02	7.010	1.52 - 2.03	25.15	11.23	.152 - .381	25.25	10.95	.254 - .508	25.32	4.343	1.02 - 1.57	25.37	9.449	.762 - 1.52
24.92	12.80	1.27 - 1.52	25.02	8.026	.127 - .254	25.15	11.25	.152 - .381	25.25	11.20	2.29 - 2.79	25.32	6.350	.127 - .254	25.37	9.525	.254 - 1.52
24.92	13.00	.127 - .254	25.02	8.407	1.78 - 2.29	25.15	11.53	1.52 - 2.03	25.25	12.29	.127 - .254	25.32	7.925	.127 - .254	25.37	9.550	.127 - .254
24.92	13.34	.381 - .762	25.02	8.992	.127 - .254	25.15	11.58	.762 - 1.27	25.25	12.70	2.29 - 2.54	25.32	8.001	1.52 - 2.03	25.37	9.703	.762 - 1.27
24.92	14.35	.127 - .254	25.02	10.03	.127 - .254	25.15	11.91	2.03 - 2.54	25.25	12.90	2.29 - 2.67	25.32	8.306	.127 - .254	25.37	9.957	.762 - 1.27
24.92	14.66	1.91 - 2.64	25.02	10.39	3.05 - 3.56	25.15	12.95	.635 - 1.02	25.25	13.03	3.30 - 3.81	25.32	11.58	.127 - .254	25.37	10.19	1.02 - 1.52
24.92	14.88	.127 - .381	25.02	11.18	.508 - 1.02	25.15	13.00	.127 - .254	25.25	13.72	.127 - .254	25.32	11.84	2.03 - 2.54	25.37	11.28	.762 - 1.27
24.92	18.54	.762 - 1.27	25.02	11.25	.127 - .254	25.15	13.11	.762 - 1.27	25.25	14.02	1.02 - 1.27	25.32	12.78	.762 - 1.27	25.37	11.51	1.52 - 1.78
24.92	19.10	.508 - 1.02	25.02	11.43	.635 - .889	25.15	13.36	2.29 - 2.67	25.25	14.35	1.02 - 1.52	25.32	12.90	1.27 - 1.78	25.37	12.83	.127 - .254
24.92	21.34	.127 - .254	25.02	11.46	1.78 - 2.29	25.15	14.22	.762 - 1.52	25.25	15.37	.127 - .254	25.32	13.54	.127 - .254	25.37	13.16	1.02 - 1.52
24.92	21.46	.127 - .381	25.02	12.07	.254 - .381	25.15	14.27	2.03 - 3.96	25.25	15.88	1.27 - 1.91	25.32	13.64	1.02 - 1.57	25.37	13.39	2.29 - 2.67
24.94	7.264	.762 - 1.52	25.02	12.45	3.05 - 3.96	25.15	15.11	2.67 - 3.18	25.25	18.31	.127 - .254	25.32	13.74	.127 - .254	25.37	14.30	.381 - .762
24.94	8.763	1.52 - 2.03	25.02	12.70	.508 - .813	25.15	15.37	1.91 - 2.29	25.25	20.65	.127 - .254	25.32	13.94	.508 - 1.02	25.37	14.68	.254 - .508
24.94	12.73	.127 - .254	25.02	12.78	.203 - .381	25.15	15.88	.508 - 1.02	25.25	22.86	.127 - .254	25.32	14.30	3.18 - 4.75	25.37	15.90	.508 - 3.40
24.94	12.75	.381 - .762	25.02	12.85	2.54 - 3.05	25.15	15.90	1.27 - 1.91	25.27	2.108	.127 - .254	25.32	15.80	.127 - .254	25.37	15.98	1.27 - 1.78
24.94	12.78	.127 - .254	25.02	13.00	.762 - 1.27	25.15	16.03	.127 - .254	25.27	3.988	.813 - 1.07	25.32	16.26	2.29 - 2.67	25.37	16.08	.127 - .254
24.94	12.80	2.54 - 3.18	25.02	13.59	1.02 - 1.52	25.15	16.13	1.52 - 2.03	25.27	4.064	.381 - .762	25.32	17.50	1.27 - 1.78	25.37	16.69	2.03 - 2.54
24.94	14.27	1.52 - 2.03	25.02	13.92	.254 - .381	25.15	16.38	.127 - .254	25.27	4.978	.127 - .254	25.32	18.24	.127 - .381	25.37	17.12	2.54 - 3.40
24.94	15.75	.127 - .254	25.02	14.12	1.02 - 1.52	25.15	16.79	.254 - .508	25.27	7.163	.635 - 1.27	25.32	19.00	.762 - 1.27	25.37	17.15	2.54 - 3.40
24.94	17.88	.254 - .508	25.02	14.35	1.57 - 2.67	25.15	17.60	.127 - .254	25.27	7.544	2.54 - 3.18	25.32	19.20	.406 - .635	25.37	17.27	.127 - .254
24.94	19.10	.762 - 1.27	25.02	14.91	.508 - .813	25.15	17.86	.508 - 1.02	25.27	9.500	1.27 - 1.78	25.32	19.25	.127 - .254	25.37	17.60	.127 - .254
24.94	20.35	.127 - .254	25.02	16.13	1.52 - 2.03	25.15	18.67	.762 - 1.27	25.27	9.601	.127 - .762	25.32	19.53	.635 - 1.02	25.37	17.78	.508 - .762
24.94	22.23	.508 - 1.02	25.02														

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
25.40	3.277	.127 - .254	25.40	9.601	.127 - 1.27	25.40	15.52	.762 - 1.52	25.40	22.66	.762 - 1.27	25.45	21.39	.762 - 1.27	25.70	22.07	.508 - 1.02
25.40	3.327	.381 - .762	25.40	9.627	1.07 - 3.40	25.40	15.82	.762 - 1.27	25.40	22.86	.127 - .254	25.45	22.78	.635 - 1.02	25.70	22.76	.254 - .508
25.40	3.607	.254 - 1.57	25.40	9.677	.127 - .508	25.40	15.85	.127 - 4.75	25.40	23.14	.508 - .889	25.48	5.359	.254 - .508	25.73	19.18	.127 - .254
25.40	3.632	.762 - 1.27	25.40	9.754	1.52 - 2.29	25.40	15.88	.381 - .762	25.40	23.77	.127 - .254	25.48	9.576	.127 - .381	25.73	20.47	1.02 - 1.52
25.40	3.734	.127 - .254	25.40	9.804	1.27 - 1.91	25.40	15.90	1.27 - 1.91	25.40	24.31	.381 - .635	25.48	10.41	.127 - .508	25.73	21.54	1.07 - 1.52
25.40	3.962	.508 - 1.02	25.40	9.830	.178 - .406	25.40	15.93	2.67 - 3.18	25.40	24.33	.127 - .254	25.48	11.20	.762 - 1.27	25.76	12.78	1.52 - 2.03
25.40	3.988	1.78 - 2.29	25.40	9.855	.127 - .254	25.40	15.95	.127 - .762	25.43	4.166	.127 - .254	25.48	11.30	.254 - .508	25.76	16.31	.508 - 1.02
25.40	4.191	.508 - 1.83	25.40	9.881	1.22 - 1.91	25.40	15.98	.127 - .254	25.43	5.156	.635 - 1.02	25.48	11.56	1.57 - 2.03	25.76	17.58	1.02 - 1.52
25.40	4.267	1.27 - 1.78	25.40	9.957	1.91 - 3.18	25.40	16.00	.762 - 1.52	25.43	5.537	.127 - .254	25.48	12.65	.127 - .381	25.76	21.54	.127 - .254
25.40	4.318	.762 - 1.27	25.40	10.03	.254 - .508	25.40	16.03	3.40 - 3.96	25.43	6.274	2.29 - 2.67	25.48	12.90	.127 - .254	25.76	21.84	.127 - .254
25.40	4.369	2.29 - 3.05	25.40	10.16	.254 - .508	25.40	16.05	2.29 - 2.79	25.43	6.350	1.57 - 3.05	25.48	15.95	1.14 - 1.52	25.76	22.20	.381 - .762
25.40	4.521	.127 - .254	25.40	10.24	2.67 - 3.18	25.40	16.10	.635 - 1.52	25.43	6.375	.127 - .254	25.48	16.28	.127 - .305	25.76	22.45	.127 - 1.02
25.40	4.572	1.27 - 1.52	25.40	10.29	1.07 - 2.54	25.40	16.15	1.52 - 1.91	25.43	6.426	.254 - .508	25.48	18.36	.635 - 1.02	25.78	13.56	1.27 - 1.91
25.40	4.750	1.27 - 3.18	25.40	10.31	.508 - .762	25.40	16.21	2.54 - 3.18	25.43	6.604	2.03 - 2.54	25.48	19.81	.254 - .508	25.78	16.56	1.52 - 2.03
25.40	4.877	1.27 - 1.91	25.40	10.34	3.96 - 4.75	25.40	16.26	.508 - 2.03	25.43	6.655	.127 - .254	25.48	20.50	.762 - 1.22	25.78	17.04	.254 - .508
25.40	4.953	.254 - 2.79	25.40	10.39	3.05 - 3.40	25.40	16.28	.127 - 3.96	25.43	6.706	2.29 - 3.05	25.48	20.57	.127 - .254	25.78	19.18	.127 - .254
25.40	4.978	.635 - 2.29	25.40	10.41	.127 - .254	25.40	16.41	1.02 - 2.03	25.43	6.807	.127 - .254	25.50	3.759	2.03 - 2.67	25.78	19.63	.508 - .762
25.40	5.029	1.78 - 2.29	25.40	10.52	2.54 - 3.18	25.40	16.48	.127 - .254	25.43	6.833	1.27 - 1.78	25.50	4.699	.127 - .254	25.78	20.07	.127 - .254
25.40	5.055	.203 - 2.03	25.40	10.54	.635 - 1.02	25.40	16.64	.762 - 1.27	25.43	7.239	2.67 - 3.43	25.50	8.128	.508 - 1.02	25.78	20.78	2.54 - 3.18
25.40	5.080	3.40 - 4.06	25.40	10.62	1.27 - 1.78	25.40	16.66	.127 - .254	25.43	8.179	2.03 - 2.54	25.50	10.74	.127 - .254	25.78	21.39	1.27 - 1.78
25.40	5.207	1.27 - 1.91	25.40	10.85	2.79 - 3.05	25.40	16.89	1.27 - 1.78	25.43	8.738	.381 - .762	25.50	11.63	1.27 - 1.78	25.78	22.25	.381 - .762
25.40	5.309	2.67 - 3.18	25.40	10.97	.127 - .254	25.40	16.99	.127 - .813	25.43	9.601	.127 - 3.18	25.50	13.49	.127 - .254	25.81	7.671	2.54 - 3.18
25.40	5.461	1.27 - 1.91	25.40	11.02	2.64 - 3.18	25.40	17.02	2.67 - 3.18	25.43	9.652	.635 - 1.02	25.50	13.94	.127 - .254	25.81	11.68	.381 - .762
25.40	5.512	.635 - 3.18	25.40	11.10	1.27 - 3.18	25.40	17.04	1.52 - 2.29	25.43	9.779	.127 - .254	25.50	14.40	2.54 - 3.18	25.81	12.22	.508 - 1.02
25.40	5.537	.381 - 1.22	25.40	11.13	.508 - 1.02	25.40	17.09	2.03 - 2.54	25.43	9.881	.762 - 1.27	25.50	15.95	1.57 - 3.05	25.81	12.83	1.27 - 1.78
25.40	5.563	.127 - 3.18	25.40	11.18	.127 - .254	25.40	17.12	2.54 - 3.18	25.43	10.39	.127 - .254	25.50	17.15	2.54 - 3.18	25.81	13.26	.381 - .762
25.40	5.588	.254 - .508	25.40	11.20	2.54 - 3.05	25.40	17.15	.127 - .762	25.43	10.57	1.78 - 2.29	25.50	17.91	1.02 - 1.52	25.81	16.51	.127 - .254
25.40	5.613	.127 - 1.27	25.40	11.25	3.43 - 4.32	25.40	17.17	.508 - .762	25.43	10.62	1.27 - 1.78	25.50	19.05	2.29 - 2.67	25.81	19.05	.127 - .254
25.40	5.715	1.27 - 1.78	25.40	11.28	.127 - .254	25.40	17.25	1.27 - 1.78	25.43	10.74	1.27 - 1.78	25.50	19.30	2.29 - 3.18	25.81	23.37	.127 - .254
25.40	5.791	.127 - .254	25.40	11.30	1.52 - 2.03	25.40	17.27	.127 - 3.18	25.43	11.15	4.32 - 4.83	25.50	19.81	.254 - .508	25.81	23.60	.127 - .254
25.40	6.020	1.52 - 2.03	25.40	11.35	.254 - .508	25.40	17.42	.762 - 1.52	25.43	12.55	.127 - .254	25.50	19.84	.127 - .254	25.83	7.645	1.27 - 1.91
25.40	6.045	.254 - .508	25.40	11.46	.127 - .254	25.40	17.48	.203 - .406	25.43	12.70	.254 - .508	25.50	22.17	1.27 - 1.78	25.83	15.93	.127 - .203
25.40	6.071	.381 - .762	25.40	11.48	.254 - .508	25.40	17.53	.635 - 1.22	25.43	12.78	.127 - 2.54	25.53	5.334	.762 - 1.07	25.83	19.15	.127 - .381
25.40	6.350	.203 - 1.78	25.40	11.61	2.54 - 3.18	25.40	17.55	.127 - .254	25.43	12.80	.127 - .762	25.53	6.528	2.54 - 3.18	25.83	20.96	.127 - 1.52
25.40	6.375	2.67 - 3.18	25.40	11.66	.127 - .254	25.40	17.78	.127 - 1.52	25.43	12.83	.381 - .635	25.53	6.655	.254 - .508	25.83	21.97	.127 - .254
25.40	6.401	.127 - 2.03	25.40	11.81	.762 - 1.27	25.40	18.01	.381 - .762	25.43	12.90	.127 - 2.67	25.53	6.680	2.54 - 3.18	25.83	22.30	1.22 - 1.57
25.40	6.426	.762 - 3.05	25.40	11.89	2.54 - 3.18	25.40	18.19	.127 - .254	25.43	13.49	4.32 - 4.83	25.53	12.19	1.52 - 1.91	25.86	5.156	.203 - .381
25.40	6.477	1.52 - 1.78	25.40	11.96	1.27 - 1.78	25.40	18.29	.254 - .508	25.43	14.33	4.32 - 4.83	25.53	12.95	.635 - 1.02	25.86	17.48	1.27 - 1.78
25.40	6.502	.508 - 1.02	25.40	12.07	.508 - 1.02	25.40	18.39	1.02 - 1.52	25.43	15.11	1.27 - 1.78	25.53	13.61	2.54 - 3.18	25.86	17.68	1.27 - 1.78
25.40	6.553	.762 - 1.27	25.40	12.09	2.54 - 3.18	25.40	18.62	.635 - 1.02	25.43	15.52	1.02 - 1.57	25.53	16.51	2.03 - 2.54	25.86	18.97	1.22 - 1.57
25.40	6.680	.127 - .254	25.40	12.19	.127 - 3.18	25.40	18.85	.127 - .254	25.43	15.90	.127 - .508	25.53	19.25	.127 - .254	25.86	20.50	.254 - .508
25.40	6.706	1.07 - 1.57	25.40	12.24	.127 - .254	25.40	19.05	.127 - 3.18	25.43	15.95	1.02 - 1.57	25.53	20.35	.254 - .508	25.86	20.93	.508 - 1.02
25.40	6.731	.254 - .508	25.40	12.32	1.02 - 3.43	25.40	19.08	2.54 - 3.18	25.43	15.98	1.27 - 1.78	25.53	21.34	.127 - .254	25.86	20.98	.127 - .254
25.40	6.756	.508 - .762	25.40	12.67	.127 - .254	25.40	19.10	1.02 - 2.67	25.43	17.48	.152 - .406	25.53	22.86	.127 - .254	25.86	21.13	.508 - 1.02
25.40	6.782	1.27 - 1.91	25.40	12.70	.127 - 1.57	25.40	19.13	1.27 - 1.78	25.43	17.53	1.27 - 1.78	25.53	24.13	.127 - .254	25.88	4.216	.381 - .762
25.40	6.807	.762 - 1.27	25.40	12.73	.762 - 2.67	25.40	19.15	.508 - 1.91	25.43	18.06	2.03 - 2.29	25.55	13.11	2.03 - 2.67	25.88	10.54	.508 - .762
25.40	6.858	.127 - .254	25.40	12.75	.127 - 4.75	25.40	19.18	.127 - 3.18	25.43	19.20	.635 - 1.27	25.55	14.83	1.02 - 1.52	25.88	15.57	.381 - .762
25.40	6.909	.762 - 1.27	25.40	12.80	.254 - 2.79	25.40	19.20	.762 - 1.27	25.43	20.78	2.03 - 2.67	25.55	22.38	.381 - .762	25.88	16.89	.762 - 1.27
25.40	6.934	3.43 - 4.83	25.40	12.83	.762 - 1.27	25.40	19.28	.127 - 1.02	25.43	23.01	.127 - .254	25.58	5.156	1.27 - 1.91	25.88	19.23	.127 - .254
25.40	7.061	1.27 - 1.91	25.40	12.85	.254 - .508	25.40	19.30	1.52 - 2.03	25.45	3.454	1.27 - 1.78	25.58	10.52	.381 - .635	25.88	19.46	.254 - .762
25.40	7.112	1.02 - 1.52	25.40	12.88	.508 - 4.75	25.40	19.33	.889 - 1.27	25.45	3.556	1.07 - 1.52	25.58	11.38	.381 - .635	25.88	20.17	.254 - .508
25.40	7.137	.127 - 3.18	25.40	12.90	.127 - 4.83	25.40	19.41	2.67 - 3.18	25.45	4.369	.254 - .635	25.58	13.41	2.03 - 2.67	25.91	8.026	1.27 - 1.91
25.40	7.163	.152 - 1.78	25.40	12.95	1.52 - 2.11	25.40	19.43	.762 - 1.27	25.45	5.004	.127 - .254	25.58	14.45	3.43 - 4.06	25.91	9.601	.381 - .762
25.40	7.188	1.02 - 1.52	25.40	12.98	.813 - 1.52	25.40	19.46	2.54 - 3.18	25.45	7.036	.254 - .508	25.58	16.28	.381 - .762	25.91	12.95	3.43 - 4.06
25.40	7.417	.127 - .254	25.40	13.03	3.56 - 4.06	25.40	19.48	1.27 - 1.91	25.45	7.925	3.43 - 4.06	25.58	16.43	2.54 - 3.18	25.91	14.02	3.40 - 3.96
25.40	7.442	2.03 - 2.64	25.40	13.08	.127 - 4.75	25.40	19.51	.254 - .508	25.45	8.103	1.52 - 2.03	25.58	18.42	1.57 - 1.91	25.91	16.28	.127 - .254
25.40	7.645	.127 - .254	25.40	13.13	.127 - .254	25.40	19.56	.127 - 1.52	25.45	9.627	.127 - .254	25.58	19.10	.914 - 1.27	25.91	16.94	.254 - .508
25.40	7.874	1.57 - 2.29	25.40	13.16	.381 - 3.18	25.40	19.58	.381 - .762	25.45	9.754	2.29 - 3.18	25.58	19.41	.127 - .254	25.91	17.78	.127 - .203
25.40	7.899	3.81 - 4.57</															

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
25.96	12.12	.254 - .508	26.09	20.14	1.52 - 2.11	26.31	20.14	1.91 - 2.29	26.67	3.962	.635 - 1.07	26.80	24.10	.254 - .508	26.92	22.35	1.22 - 1.83
25.96	14.02	.127 - .254	26.09	20.98	.508 - 1.02	26.34	11.18	.381 - .762	26.67	4.521	.635 - 1.02	26.80	24.21	.254 - .508	26.92	22.38	.635 - 1.02
25.96	14.99	.381 - .762	26.09	21.08	1.52 - 2.03	26.34	23.50	.762 - 1.22	26.67	6.350	.381 - .762	26.82	5.207	.127 - .254	26.92	22.40	.254 - .508
25.96	15.90	.762 - 1.27	26.09	22.15	1.27 - 1.52	26.37	11.18	.635 - 1.07	26.67	7.976	.127 - .508	26.82	16.10	1.27 - 1.91	26.92	22.43	.254 - .508
25.96	19.96	2.54 - 3.18	26.11	3.835	2.29 - 2.67	26.37	12.85	1.27 - 1.91	26.67	8.128	4.32 - 4.83	26.82	16.74	.127 - .254	26.92	22.56	.254 - .508
25.96	20.98	.762 - 1.27	26.11	15.82	1.52 - 2.03	26.37	18.01	.762 - 1.27	26.67	9.525	1.27 - 3.05	26.82	17.17	1.02 - 1.52	26.92	22.76	.254 - .508
25.96	24.38	.762 - 1.07	26.11	15.98	.813 - 1.22	26.37	24.74	.254 - .508	26.67	9.550	.127 - .254	26.82	18.26	.813 - 1.52	26.92	22.99	1.02 - 1.52
25.98	1.194	.508 - .762	26.11	20.62	.508 - 1.02	26.37	25.12	.381 - .635	26.67	10.57	.508 - .762	26.82	18.44	.127 - .254	26.95	3.251	.254 - .508
25.98	3.226	.127 - .254	26.11	21.49	1.27 - 1.78	26.39	15.90	.762 - 1.52	26.67	11.13	.381 - .762	26.82	21.36	.127 - 1.02	26.95	6.782	3.18 - 3.43
25.98	7.671	.762 - 1.02	26.14	8.077	.127 - .254	26.39	22.61	.254 - .508	26.67	12.70	.127 - .762	26.82	22.23	.254 - .508	26.95	8.026	.127 - .254
25.98	10.03	.127 - .254	26.14	13.21	3.05 - 3.43	26.39	23.95	.508 - 1.02	26.67	12.78	.127 - .508	26.82	22.28	.381 - .762	26.95	9.804	2.03 - 2.54
25.98	10.11	.127 - .381	26.14	18.80	.762 - 1.27	26.42	3.505	.127 - .254	26.67	12.80	.127 - .203	26.85	8.890	.127 - .254	26.95	11.23	.127 - .508
25.98	12.01	.508 - .762	26.14	19.43	1.27 - 1.78	26.42	4.953	.127 - .254	26.67	14.33	.127 - .508	26.85	21.29	.127 - .254	26.95	12.70	1.27 - 1.78
25.98	12.04	.127 - .254	26.16	4.343	1.27 - 1.78	26.42	9.601	.127 - .254	26.67	14.48	.381 - .762	26.87	6.375	.127 - .254	26.95	12.83	.254 - .635
25.98	14.02	1.52 - 2.03	26.16	4.801	1.91 - 2.29	26.42	13.82	2.29 - 3.05	26.67	15.90	.127 - 1.27	26.87	10.87	1.02 - 1.27	26.95	12.95	1.78 - 2.29
25.98	14.05	.127 - .254	26.16	4.928	.762 - 1.27	26.42	14.22	.762 - 1.27	26.67	15.98	.127 - .254	26.87	12.73	.254 - .508	26.95	13.49	.127 - .254
25.98	16.99	1.52 - 2.03	26.16	6.934	1.52 - 1.91	26.42	15.93	.508 - 1.02	26.67	16.13	.127 - .254	26.87	13.21	1.02 - 1.52	26.95	13.54	.889 - 1.27
25.98	18.01	.254 - .508	26.16	8.534	3.96 - 4.75	26.42	20.55	.305 - .635	26.67	18.08	.813 - 1.52	26.87	13.51	1.52 - 1.91	26.95	14.27	.127 - 3.18
25.98	18.42	1.27 - 1.78	26.16	9.576	.508 - .762	26.42	21.11	.635 - .889	26.67	18.34	.813 - 1.07	26.87	14.81	2.29 - 2.79	26.95	14.58	.127 - .254
25.98	18.54	.127 - .254	26.16	9.728	.381 - .762	26.42	22.07	.127 - .254	26.67	19.13	.127 - .254	26.87	15.27	.127 - .254	26.95	16.69	4.32 - 4.83
25.98	21.31	.127 - .254	26.16	9.754	.254 - .381	26.42	22.23	.635 - 1.02	26.67	19.30	.762 - 1.27	26.87	15.90	.127 - .762	26.95	19.05	.762 - 1.27
25.98	22.48	.254 - .508	26.16	10.59	.762 - 1.27	26.42	23.24	.254 - .508	26.67	19.43	.254 - .508	26.87	15.95	.127 - .254	26.95	19.89	.635 - 1.02
25.98	22.53	.254 - .508	26.16	12.83	1.27 - 1.78	26.42	23.52	.508 - .762	26.67	19.58	2.79 - 3.05	26.87	16.26	1.27 - 1.78	26.95	23.42	.635 - 1.02
25.98	22.68	.381 - .762	26.16	12.95	1.57 - 2.03	26.44	20.02	.381 - .762	26.67	20.27	.635 - 1.22	26.87	17.17	.127 - .762	26.95	23.95	1.27 - 1.57
25.98	23.09	.127 - .254	26.16	13.54	2.79 - 3.30	26.44	23.09	.127 - .254	26.67	20.42	.127 - .254	26.87	17.48	2.67 - 3.18	26.95	25.50	.254 - .508
26.01	10.01	.254 - .508	26.16	13.77	.381 - .762	26.44	23.34	.127 - .254	26.67	20.83	.762 - 1.27	26.87	18.67	1.27 - 2.11	26.97	1.549	.381 - .508
26.01	10.03	.127 - .254	26.16	14.86	.127 - .254	26.47	13.82	2.29 - 3.05	26.67	20.98	.127 - .254	26.87	19.23	.762 - 1.27	26.97	1.854	.508 - 1.02
26.01	10.11	.127 - .254	26.16	16.48	.127 - .254	26.47	19.63	.381 - .762	26.67	21.03	.127 - .254	26.87	19.35	1.91 - 2.54	26.97	3.048	.254 - .508
26.01	11.53	1.02 - 1.52	26.16	17.48	1.27 - 1.52	26.49	12.01	2.67 - 3.43	26.67	21.59	.127 - .254	26.87	22.15	1.27 - 1.78	26.97	3.251	1.22 - 1.57
26.01	12.01	.127 - .254	26.16	17.53	2.29 - 3.18	26.49	17.17	1.78 - 2.29	26.67	22.25	.127 - .254	26.87	22.78	1.52 - 2.03	26.97	3.480	2.03 - 2.54
26.01	12.09	.127 - .254	26.16	18.26	2.54 - 3.18	26.52	4.851	.813 - 1.52	26.67	22.28	1.27 - 1.78	26.90	1.473	.254 - .508	26.97	4.775	.508 - 1.02
26.01	14.43	1.27 - 1.78	26.16	19.02	1.02 - 1.52	26.52	4.902	.178 - .381	26.67	22.30	.254 - 2.29	26.90	3.886	.381 - .762	26.97	5.080	1.07 - 1.57
26.01	15.98	.127 - .254	26.16	20.70	.508 - .762	26.52	9.601	.508 - 1.02	26.67	22.76	.127 - .254	26.90	4.775	1.02 - 1.52	26.97	5.359	1.27 - 2.11
26.01	18.21	1.78 - 2.29	26.16	21.59	.762 - 1.27	26.52	13.00	.508 - .762	26.67	22.86	.762 - 1.27	26.90	8.814	1.52 - 1.78	26.97	5.537	.508 - .889
26.01	20.35	.762 - 1.27	26.16	22.71	1.27 - 1.91	26.52	19.05	2.54 - 3.18	26.67	24.13	.762 - 1.02	26.90	11.443	2.29 - 3.05	26.97	6.401	.762 - 1.02
26.01	22.38	.254 - .508	26.16	24.18	.127 - .381	26.52	21.03	.635 - 1.07	26.67	24.64	.127 - .254	26.90	13.06	.381 - .762	26.97	6.579	1.14 - 1.52
26.04	8.001	.127 - .254	26.16	24.56	.508 - .762	26.52	25.07	.254 - .508	26.67	24.99	.127 - .254	26.90	14.78	.762 - 1.27	26.97	6.655	.178 - .635
26.04	8.077	.127 - .254	26.19	9.576	.381 - .762	26.54	5.334	.762 - 1.07	26.70	6.706	2.29 - 2.79	26.90	15.14	1.27 - 1.78	26.97	8.077	.203 - .406
26.04	8.382	.508 - 1.02	26.19	9.779	.127 - .254	26.54	5.842	.203 - .406	26.70	8.001	.203 - .381	26.90	16.10	.127 - .254	26.97	8.331	1.02 - 1.52
26.04	8.560	1.52 - 2.03	26.19	10.36	2.67 - 3.43	26.54	6.401	.127 - .254	26.70	12.70	.254 - .508	26.90	19.05	1.27 - 1.78	26.97	9.601	.381 - 3.18
26.04	9.525	.762 - 1.02	26.19	12.32	.508 - 1.02	26.54	7.315	.762 - 1.07	26.70	12.75	.381 - .762	26.90	19.51	.508 - 1.02	26.97	11.07	.127 - .254
26.04	10.01	.254 - .508	26.19	13.21	.127 - .254	26.54	7.620	.127 - .254	26.70	12.78	.381 - .635	26.90	22.61	1.02 - 1.52	26.97	11.18	2.03 - 2.64
26.04	10.03	.127 - .254	26.19	21.95	2.03 - 2.54	26.54	10.34	.762 - 1.27	26.70	12.80	.127 - .254	26.90	24.51	.381 - .635	26.97	11.53	.508 - 1.02
26.04	10.41	.914 - 1.52	26.19	23.11	.254 - .508	26.54	11.81	.127 - .254	26.70	19.10	2.79 - 3.30	26.92	3.810	1.52 - 2.03	26.97	11.99	.127 - .254
26.04	11.00	1.27 - 1.78	26.19	24.33	.254 - .508	26.54	15.72	.254 - .508	26.70	22.38	1.52 - 2.03	26.92	4.369	.254 - .508	26.97	12.19	.381 - .762
26.04	11.18	2.29 - 2.79	26.21	4.445	2.54 - 3.18	26.54	17.88	.762 - 1.27	26.70	24.49	.127 - .254	26.92	5.334	.254 - .508	26.97	12.29	.813 - 1.52
26.04	12.07	.127 - .254	26.21	6.579	1.57 - 2.29	26.54	19.05	.127 - .813	26.70	25.10	.127 - .254	26.92	6.553	.635 - .889	26.97	13.08	.127 - .254
26.04	12.12	.127 - .254	26.21	9.601	.254 - .508	26.54	21.08	.127 - .254	26.72	6.426	.254 - .508	26.92	7.188	3.96 - 4.75	26.97	13.23	.127 - .254
26.04	12.83	.127 - .508	26.21	13.44	2.54 - 3.18	26.54	22.35	.635 - 1.02	26.72	15.11	.127 - .254	26.92	7.214	1.02 - 1.57	26.97	13.49	2.54 - 3.18
26.04	13.97	.127 - .305	26.21	14.38	.254 - .508	26.54	22.71	1.27 - 1.52	26.72	18.16	.127 - .254	26.92	8.077	.127 - .254	26.97	13.64	.127 - 2.67
26.04	15.39	1.22 - 1.57	26.21	16.08	2.03 - 2.54	26.57	3.505	.127 - .254	26.72	19.30	2.67 - 3.18	26.92	8.661	.254 - .508	26.97	14.33	1.57 - 2.29
26.04	16.05	.254 - .508	26.21	16.66	2.54 - 3.18	26.57	8.763	1.78 - 2.29	26.72	19.43	1.52 - 1.78	26.92	9.601	2.67 - 3.43	26.97	14.73	.127 - .254
26.04	17.88	.813 - 1.07	26.21	20.02	.508 - .762	26.57	13.13	.889 - 1.27	26.72	22.38	1.27 - 1.91	26.92	10.01	2.54 - 3.18	26.97	15.88	.508 - .762
26.04	18.29	.889 - 1.27	26.21	21.56	1.78 - 2.29	26.57	21.87	.254 - .508	26.75	13.46	1.91 - 2.29	26.92	10.06	.635 - 1.22	26.97	15.90	1.22 - 1.57
26.04	19.02	.127 - .889	26.21	23.50	.381 - .762	26.57	23.06	.127 - .254	26.75	15.93	1.78 - 2.29	26.92	10.90	.127 - .254	26.97	16.13	2.54 - 3.96
26.04	19.15	1.02 - 1.52	26.21	24.26	.508 - 1.02	26.57	23.95	.508 - .889	26.75	16.81	.635 - 1.27	26.92	11.46	2.67 - 3.18	26.97	16.21	1.27 - 1.78
26.04	19.69	.254 - .508	26.24	12.27	2.03 - 2.54	26.59	7.290	.127 - .254	26.75	19.10	2.79 - 3.30	26.92	11.91	2.67 - 3.18	26.97	16.31	1.52 - 2.03
26.04	19.71	.508 - 1.02	26.24	19.23	.127 - .254	26.59	12.19	.127 - .254	26.75	22.68	.127 - .508	26.92	12.17	.127 - .254	26.97	16.66	1.91 - 2.29
26.04	19.99	.762 - 1.27	26.24	20.60	1.27 - 1.91	26.59	12.67										

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
26.97	26.04	.127 - .254	27.13	5.207	.762 - 1.27	27.41	14.40	.635 - 1.02	27.74	20.09	.254 - .508	27.91	6.426	.127 - .254	27.94	24.18	.254 - .508
27.00	3.607	2.29 - 2.67	27.13	6.452	.254 - .508	27.41	14.91	.635 - 1.02	27.74	20.60	.127 - .254	27.91	8.077	.127 - .254	27.94	24.41	.127 - .254
27.00	4.826	.127 - .254	27.13	8.661	2.54 - 3.18	27.41	19.30	.635 - 1.02	27.74	20.62	.381 - .762	27.91	9.576	.127 - .254	27.94	24.51	.762 - 1.27
27.00	5.182	1.91 - 2.29	27.13	16.15	2.29 - 2.67	27.41	23.70	.127 - .254	27.76	6.071	.305 - .508	27.91	9.601	.254 - .381	27.94	25.07	.127 - .889
27.00	8.001	.127 - .254	27.13	19.05	1.02 - 1.27	27.41	24.26	.127 - .254	27.76	10.29	.762 - 1.52	27.91	11.07	.508 - 1.02	27.94	25.20	.762 - 1.27
27.00	8.052	.127 - .254	27.13	20.65	.762 - 1.27	27.43	2.235	.127 - .254	27.76	10.69	1.27 - 1.78	27.91	11.18	.127 - .254	27.94	25.25	.762 - 1.27
27.00	8.153	2.29 - 3.05	27.15	3.886	.127 - .254	27.43	7.010	.508 - 1.02	27.76	12.70	1.27 - 1.91	27.91	12.70	.127 - .254	27.94	25.40	.127 - .254
27.00	8.357	2.03 - 2.54	27.15	9.906	.127 - .254	27.43	8.128	1.02 - 1.52	27.76	16.28	.381 - .762	27.91	12.90	.127 - .508	27.94	25.58	.254 - .508
27.00	8.712	2.54 - 3.18	27.15	15.24	4.32 - 4.83	27.43	8.331	.381 - .762	27.76	17.30	.254 - .762	27.91	14.17	.254 - .508	27.94	25.65	.254 - .508
27.00	10.01	.127 - .254	27.15	23.77	.635 - 1.02	27.43	12.83	.127 - .508	27.76	21.08	.762 - 1.27	27.91	16.08	.508 - .762	27.97	1.905	.127 - .254
27.00	11.10	.127 - .762	27.18	6.477	2.67 - 3.18	27.43	14.50	1.78 - 2.29	27.76	22.12	.635 - 1.02	27.91	16.51	2.79 - 3.30	27.97	6.477	2.79 - 3.30
27.00	11.23	.127 - .254	27.18	6.756	.508 - .762	27.43	15.82	.508 - 1.02	27.76	22.25	.635 - 1.27	27.91	20.02	.254 - 1.27	27.97	6.985	1.52 - 1.78
27.00	12.70	2.29 - 2.67	27.18	8.077	.508 - 1.02	27.43	18.75	1.52 - 2.03	27.76	22.30	1.27 - 1.91	27.91	20.73	.381 - .635	27.97	8.026	.508 - .762
27.00	12.78	.127 - .254	27.18	19.18	.762 - 1.02	27.43	19.30	.508 - 1.02	27.76	22.43	.889 - 1.27	27.91	21.34	.381 - .635	27.97	8.052	.127 - .254
27.00	12.85	1.57 - 2.11	27.18	20.17	1.78 - 2.03	27.43	19.56	1.27 - 1.91	27.76	24.31	.127 - .254	27.91	22.91	.254 - .762	27.97	8.992	.127 - .254
27.00	13.72	3.43 - 3.96	27.18	23.01	.127 - .254	27.43	19.63	.762 - 1.52	27.79	7.950	.127 - .254	27.94	3.251	.127 - .254	27.97	9.042	.381 - .762
27.00	13.84	.127 - .254	27.18	24.41	.508 - .889	27.43	19.81	.127 - .254	27.79	10.03	1.02 - 1.52	27.94	4.115	.762 - 1.07	27.97	11.28	.254 - .508
27.00	14.30	.381 - .762	27.20	6.579	1.02 - 1.57	27.43	21.74	.508 - .889	27.79	14.20	.508 - .762	27.94	6.426	.127 - .254	27.97	12.01	.127 - .254
27.00	14.55	.127 - .254	27.20	6.756	.254 - .762	27.43	23.01	.127 - .254	27.79	16.97	2.03 - 2.54	27.94	7.925	.254 - .508	27.97	12.75	.254 - .508
27.00	14.68	1.52 - 1.91	27.20	15.90	.127 - .254	27.43	23.75	.127 - .254	27.79	19.86	.635 - 1.02	27.94	8.026	.127 - .254	27.97	12.83	.381 - .635
27.00	14.71	1.52 - 2.03	27.20	22.45	.381 - .762	27.43	24.71	.762 - 1.27	27.79	21.49	.762 - 1.27	27.94	8.788	1.27 - 1.78	27.97	16.00	.508 - 1.02
27.00	16.21	1.27 - 1.78	27.23	6.502	.127 - .254	27.46	8.661	.762 - 1.27	27.79	22.48	.762 - 1.02	27.94	8.992	1.78 - 2.29	27.97	18.26	.635 - 1.02
27.00	16.26	2.03 - 2.54	27.23	9.677	.127 - .254	27.46	20.14	.762 - 1.27	27.79	22.86	.127 - .254	27.94	9.576	.254 - .508	27.97	20.02	.127 - .254
27.00	16.38	.635 - 1.02	27.23	18.08	.127 - .254	27.46	20.24	.127 - .254	27.79	25.22	.508 - .762	27.94	9.601	.381 - .762	27.99	1.778	.127 - .254
27.00	16.69	1.02 - 1.57	27.23	19.05	1.91 - 2.54	27.51	6.426	1.27 - 1.91	27.81	9.525	.635 - 2.03	27.94	9.652	.127 - .254	27.99	6.020	.127 - .254
27.00	17.12	.127 - .254	27.23	25.43	.127 - .254	27.51	12.07	.254 - .508	27.81	10.29	.635 - 1.22	27.94	10.57	.381 - .762	27.99	6.071	.127 - .254
27.00	17.45	1.02 - 1.52	27.25	8.814	1.52 - 2.03	27.51	17.02	.254 - .508	27.81	15.01	2.54 - 3.18	27.94	10.82	3.99 - 4.75	27.99	6.223	1.27 - 1.52
27.00	19.02	.127 - .254	27.25	12.04	.127 - .254	27.51	25.81	.508 - .762	27.81	15.88	.254 - .508	27.94	11.15	.127 - .254	27.99	6.375	.635 - 1.02
27.00	19.81	1.27 - 1.78	27.25	12.95	.381 - .762	27.53	16.03	2.03 - 2.54	27.81	16.64	1.07 - 1.57	27.94	11.18	.127 - .508	27.99	7.010	4.57 - 4.83
27.00	19.84	1.52 - 2.03	27.25	14.53	1.78 - 2.29	27.53	16.38	.635 - 1.02	27.81	17.78	1.52 - 2.29	27.94	11.48	.127 - .254	27.99	7.747	.127 - .254
27.00	19.99	1.27 - 1.78	27.25	16.66	1.02 - 1.52	27.53	18.49	1.02 - 1.27	27.81	19.02	1.02 - 1.52	27.94	11.53	1.27 - 3.18	27.99	8.484	.127 - .254
27.00	20.27	.762 - 1.27	27.25	17.07	.127 - .254	27.53	20.32	.381 - .762	27.81	19.18	1.02 - 1.27	27.94	12.14	.127 - .254	27.99	8.509	2.03 - 2.29
27.00	22.43	.127 - .254	27.25	22.61	1.27 - 1.78	27.53	21.54	.127 - .254	27.81	20.07	1.52 - 2.03	27.94	12.32	.254 - .508	27.99	10.01	.127 - .508
27.00	22.58	.127 - .254	27.28	17.27	3.43 - 3.96	27.53	22.12	.127 - .254	27.81	20.52	.381 - .762	27.94	12.70	.127 - .254	27.99	10.03	.127 - .635
27.03	11.94	.254 - .508	27.28	18.29	.508 - 1.02	27.53	23.52	.127 - .254	27.81	20.55	.635 - 1.02	27.94	12.75	.127 - .254	27.99	10.06	.127 - .254
27.03	13.00	.127 - .254	27.28	24.66	.381 - .635	27.53	23.55	.254 - .508	27.81	20.65	2.67 - 3.43	27.94	12.78	.127 - .254	27.99	10.19	.127 - .254
27.03	14.30	.127 - .508	27.31	8.890	.127 - .254	27.56	6.223	.762 - 1.27	27.81	20.78	1.27 - 1.91	27.94	12.80	.127 - .508	27.99	12.01	.127 - .254
27.03	15.09	.127 - .508	27.31	13.34	2.54 - 3.05	27.56	7.188	1.27 - 1.91	27.81	23.01	.127 - .254	27.94	12.83	.127 - .254	27.99	12.04	.127 - .254
27.03	17.45	1.22 - 1.57	27.31	17.50	1.91 - 2.54	27.56	12.09	.127 - .254	27.84	9.525	.762 - 1.52	27.94	12.85	.127 - .254	27.99	12.09	.127 - .508
27.03	18.08	.762 - 1.27	27.31	17.63	1.27 - 1.52	27.56	16.51	.381 - .762	27.84	10.11	1.27 - 2.11	27.94	13.08	2.54 - 3.18	27.99	12.12	.127 - .254
27.03	19.08	.254 - .508	27.31	20.42	.127 - .254	27.56	18.34	.127 - .254	27.84	11.20	1.52 - 1.91	27.94	13.34	.254 - .508	27.99	12.98	4.06 - 4.83
27.03	19.35	.127 - .254	27.31	20.57	.127 - .254	27.56	19.02	1.27 - 1.78	27.84	11.43	1.52 - 1.78	27.94	14.22	.127 - .254	27.99	13.74	.381 - .762
27.03	20.07	.127 - .254	27.31	20.68	.127 - .254	27.56	25.96	.127 - .254	27.84	12.70	1.78 - 2.29	27.94	14.27	1.02 - 1.52	27.99	14.33	2.54 - 3.05
27.03	20.88	1.02 - 1.57	27.31	21.18	.254 - .508	27.58	16.33	1.27 - .762	27.84	14.66	.381 - .762	27.94	14.30	.381 - .889	27.99	14.99	2.29 - 2.67
27.03	21.51	1.52 - 1.78	27.33	8.839	1.27 - 1.91	27.58	23.24	.508 - .889	27.84	17.15	.127 - .381	27.94	14.38	.127 - .254	27.99	15.19	.762 - 1.27
27.03	21.97	.254 - .508	27.33	9.322	1.91 - 2.29	27.58	24.08	.813 - 1.27	27.84	17.53	.762 - 1.27	27.94	14.68	2.03 - 2.29	27.99	16.05	.127 - .508
27.03	24.00	.762 - 1.02	27.33	10.11	.127 - .254	27.61	7.137	.762 - 1.27	27.84	19.15	.127 - .254	27.94	15.42	1.91 - 2.54	27.99	16.92	1.02 - 1.52
27.03	24.16	.381 - .762	27.33	12.67	.381 - .762	27.61	14.27	.914 - 1.52	27.84	20.40	.254 - .508	27.94	15.90	.127 - .508	27.99	16.94	1.02 - 1.52
27.05	4.191	.635 - 1.02	27.33	12.90	2.11 - 2.64	27.61	15.16	.127 - .254	27.84	22.15	.127 - .508	27.94	15.93	.127 - .254	27.99	17.02	.762 - 1.27
27.05	10.03	1.57 - 2.11	27.33	13.08	.381 - .635	27.61	18.80	1.02 - 1.52	27.84	23.42	.635 - 1.02	27.94	15.98	.254 - .508	27.99	17.50	1.27 - 1.78
27.05	11.02	.127 - .254	27.33	13.59	1.52 - 2.03	27.61	21.54	.127 - .254	27.84	23.75	1.27 - 1.78	27.94	16.00	.127 - .381	27.99	19.46	.127 - .254
27.05	11.28	.127 - .254	27.33	13.61	1.52 - 2.03	27.64	4.928	1.57 - 2.11	27.84	23.80	.813 - 1.52	27.94	16.05	.254 - 1.91	27.99	19.58	1.02 - 1.52
27.05	12.95	.381 - .914	27.33	16.33	1.91 - 2.29	27.64	5.436	.127 - .254	27.86	2.007	1.27 - 2.54	27.94	16.13	.127 - .254	27.99	19.99	1.52 - 2.03
27.05	14.27	.254 - .508	27.33	17.53	2.03 - 2.64	27.64	7.772	.762 - 1.27	27.86	15.19	4.32 - 4.83	27.94	16.28	3.43 - 3.96	27.99	21.01	.254 - .508
27.05	15.90	3.96 - 4.75	27.33	23.24	.381 - .635	27.64	13.74	.127 - .254	27.86	15.93	1.78 - 2.29	27.94	16.33	1.27 - 1.78	27.99	21.56	1.78 - 2.29
27.05	16.10	1.91 - 2.29	27.36	9.652	1.52 - 2.03	27.66	11.68	.508 - .762	27.86	16.21	.762 - 1.27	27.94	17.07	.381 - .889	27.99	21.69	.127 - .254
27.05	17.70	.762 - 1.02	27.36	19.25	1.27 - 1.91	27.66	21.41	1.27 - 1.78	27.86	19.86	.127 - .254	27.94	17.15	1.78 - 2.29	27.99	22.00	1.27 - 1.52
27.05	19.48	.127 - .254	27.36	19.48	.635 - 1.02	27.66	22.23	1.07 - 1.52	27.86	21.08	.635 - 1.02	27.94	17.60	.127 - .254	27.99	24.08	.127 - .254
27.05	20.68	1.07 - 1.52	27.36	21.08	.127 - .254	27.69	3.048	.508 - .762	27.8								

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
28.04	16.08	2.79 - 3.30	28.24	6.248	1.52 - 2.29	28.37	25.65	.762 - 1.27	28.47	6.604	.127 - .254	28.55	5.055	.254 - .508	28.58	10.41	2.54 - 3.18
28.04	17.02	2.03 - 2.67	28.24	7.315	1.78 - 2.29	28.40	3.505	2.29 - 2.79	28.47	6.985	1.52 - 1.78	28.55	6.375	.254 - .508	28.58	10.69	.203 - .381
28.04	19.10	1.27 - 1.91	28.24	7.925	1.52 - 2.29	28.40	12.85	1.52 - 1.91	28.47	8.738	.127 - .254	28.55	6.731	.127 - .254	28.58	10.80	.330 - 3.43
28.04	20.98	.127 - .254	28.24	7.950	2.03 - 2.54	28.40	17.25	.635 - 1.02	28.47	9.804	1.27 - 1.78	28.55	6.934	.127 - .254	28.58	11.13	2.54 - 3.18
28.04	24.00	.254 - .508	28.24	10.49	1.78 - 2.29	28.40	19.15	.254 - .508	28.47	11.99	.762 - 1.02	28.55	8.052	1.27 - 2.29	28.58	11.15	1.78 - 2.29
28.07	3.200	.127 - .254	28.24	10.69	.635 - 1.02	28.40	19.51	.127 - .254	28.47	12.47	2.03 - 2.54	28.55	8.103	.508 - 1.02	28.58	11.20	2.29 - 2.67
28.07	6.401	1.52 - 1.98	28.24	12.14	1.27 - 1.91	28.40	20.37	.127 - .254	28.47	12.98	1.27 - 1.78	28.55	8.382	.127 - .254	28.58	11.43	.635 - 1.57
28.07	9.144	2.54 - 3.40	28.24	12.70	1.52 - 2.29	28.40	20.90	2.79 - 3.30	28.47	13.49	2.67 - 3.18	28.55	11.10	1.52 - 2.03	28.58	11.56	2.29 - 3.18
28.07	15.04	.762 - 1.27	28.24	13.67	1.78 - 2.29	28.40	23.88	.127 - .254	28.47	15.47	3.40 - 3.96	28.55	11.91	.381 - .762	28.58	11.89	2.67 - 3.18
28.07	16.13	.254 - .508	28.24	16.84	1.78 - 2.29	28.40	25.40	1.02 - 1.52	28.47	15.95	1.02 - 1.52	28.55	12.70	.127 - .254	28.58	12.19	1.02 - 1.52
28.07	16.26	.254 - .508	28.24	19.30	1.52 - 2.29	28.40	25.43	1.27 - 1.52	28.47	16.36	2.54 - 3.18	28.55	12.75	.127 - .254	28.58	12.70	.813 - 1.07
28.07	17.86	2.03 - 2.29	28.24	19.71	.508 - 1.02	28.42	8.204	1.27 - 1.91	28.47	16.87	2.67 - 3.18	28.55	12.93	2.54 - 3.18	28.58	12.78	.127 - .254
28.07	19.02	.762 - 1.78	28.24	22.61	.762 - 1.27	28.42	10.24	.127 - .254	28.47	17.75	.127 - .254	28.55	13.18	.127 - .254	28.58	12.80	.381 - .635
28.07	19.20	.762 - 1.27	28.24	22.68	2.29 - 3.05	28.42	11.43	.762 - 1.27	28.47	18.29	.127 - .254	28.55	14.27	2.67 - 3.43	28.58	13.00	.127 - 4.75
28.07	22.38	1.78 - 2.29	28.24	25.83	.508 - 1.02	28.42	15.29	.762 - 1.27	28.47	18.31	.254 - .508	28.55	14.30	.254 - .508	28.58	13.08	1.02 - 1.27
28.07	22.50	.508 - .762	28.27	8.382	3.96 - 4.83	28.42	15.95	2.03 - 2.64	28.47	19.33	.508 - 1.02	28.55	15.04	.127 - .254	28.58	13.11	.508 - 1.02
28.07	22.86	.127 - .254	28.27	12.70	1.52 - 2.29	28.42	16.71	1.52 - 2.03	28.47	19.56	1.27 - 1.78	28.55	15.42	2.54 - 3.05	28.58	13.28	.508 - 1.02
28.07	23.27	.127 - .254	28.27	19.23	.381 - .635	28.42	17.22	.762 - 1.02	28.47	22.12	.508 - .762	28.55	15.93	.127 - .254	28.58	13.34	3.05 - 3.43
28.07	24.23	.127 - .254	28.27	19.30	1.52 - 2.29	28.42	21.62	.762 - 1.27	28.47	22.30	.127 - .254	28.55	15.98	2.03 - 2.54	28.58	13.46	.152 - .305
28.07	24.38	2.67 - 3.05	28.27	22.33	.508 - 1.02	28.42	22.35	2.03 - 2.54	28.47	22.35	.127 - .254	28.55	16.05	1.52 - 2.03	28.58	13.51	3.96 - 4.75
28.09	8.052	.381 - .762	28.27	22.56	.254 - .508	28.42	22.48	1.02 - 1.52	28.47	23.50	.127 - .254	28.55	16.10	3.43 - 3.96	28.58	13.59	.508 - 1.02
28.09	16.08	1.98 - 2.67	28.27	23.11	1.07 - 1.52	28.42	23.32	1.91 - 2.29	28.47	25.35	.508 - 1.02	28.55	16.23	.762 - 1.27	28.58	13.87	1.52 - 2.03
28.09	16.66	1.52 - 2.29	28.27	23.88	.254 - .508	28.42	23.39	.635 - 1.07	28.50	4.953	.127 - .254	28.55	16.84	.381 - .762	28.58	14.30	.127 - .254
28.09	19.86	.508 - 1.02	28.27	23.95	.635 - 1.02	28.42	23.52	1.27 - 1.78	28.50	8.357	.762 - 1.02	28.55	17.45	1.02 - 1.52	28.58	14.33	2.03 - 2.64
28.09	20.07	1.02 - 1.52	28.27	25.68	.508 - .762	28.42	26.44	.127 - .254	28.50	9.728	.762 - 1.27	28.55	17.60	.127 - .254	28.58	14.38	.127 - .254
28.12	17.55	2.03 - 2.54	28.30	4.724	.127 - .254	28.45	2.540	1.27 - 1.88	28.50	11.20	.254 - .508	28.55	17.88	.635 - 1.02	28.58	14.48	1.52 - 2.03
28.12	22.66	1.02 - 1.52	28.30	5.309	.127 - .254	28.45	3.353	.381 - .635	28.50	11.23	.178 - .406	28.55	19.13	2.79 - 3.30	28.58	14.50	2.54 - 3.18
28.12	23.16	.762 - 1.27	28.30	7.925	2.29 - 3.18	28.45	4.013	.127 - .305	28.50	11.89	.381 - .762	28.55	19.18	2.79 - 3.30	28.58	14.55	2.54 - 3.18
28.12	24.26	.508 - .762	28.30	11.07	3.81 - 4.57	28.45	4.064	.762 - 1.07	28.50	12.83	.762 - 3.18	28.55	20.04	.381 - .762	28.58	14.99	2.54 - 3.18
28.12	24.97	.254 - .508	28.30	14.00	4.32 - 4.57	28.45	5.588	2.64 - 3.40	28.50	12.95	2.29 - 2.67	28.55	20.17	.508 - .762	28.58	15.09	1.27 - 1.91
28.14	10.34	1.27 - 1.78	28.30	16.89	.254 - .508	28.45	6.477	2.54 - 3.18	28.50	13.49	3.18 - 3.96	28.55	21.84	2.64 - 3.18	28.58	15.47	1.02 - 1.52
28.14	13.34	.127 - .381	28.30	19.02	.127 - .254	28.45	7.950	1.57 - 1.91	28.50	15.11	.381 - .762	28.55	22.10	.508 - .762	28.58	15.88	.127 - .254
28.14	14.30	.127 - .254	28.32	5.182	.127 - .254	28.45	9.119	2.29 - 2.79	28.50	15.93	.508 - 1.02	28.55	22.33	.127 - .254	28.58	15.90	.508 - 2.67
28.14	16.15	1.27 - 1.78	28.32	5.690	.127 - .254	28.45	9.652	.635 - 1.02	28.50	15.98	1.27 - 1.78	28.55	22.63	.762 - 1.52	28.58	15.95	2.29 - 3.18
28.14	18.14	1.52 - 1.91	28.32	6.502	.381 - .762	28.45	9.906	.508 - 3.18	28.50	19.05	.127 - .381	28.55	22.99	.127 - .254	28.58	16.00	.508 - 1.02
28.14	19.76	.762 - 1.27	28.32	12.70	1.91 - 2.29	28.45	9.931	.127 - 1.91	28.50	19.18	1.27 - 1.78	28.55	23.22	1.52 - 2.03	28.58	16.05	2.29 - 2.67
28.14	19.96	.381 - .762	28.32	16.31	.127 - .254	28.45	10.67	1.02 - 1.52	28.50	19.25	.254 - .508	28.55	23.27	.127 - .254	28.58	16.21	.254 - .508
28.14	20.35	.762 - 1.02	28.32	16.36	.381 - .762	28.45	11.15	1.27 - 1.91	28.50	19.58	.508 - 1.02	28.55	24.41	1.02 - 1.52	28.58	16.26	3.96 - 4.75
28.14	21.13	.127 - .254	28.32	16.38	.127 - .254	28.45	11.43	2.54 - 3.18	28.50	22.28	1.27 - 1.78	28.55	24.56	.127 - .254	28.58	16.38	2.54 - 3.18
28.14	21.44	1.27 - 1.78	28.32	16.84	.127 - .254	28.45	11.99	2.54 - 3.18	28.50	22.58	.508 - .889	28.55	27.61	.127 - .254	28.58	16.61	1.27 - 1.91
28.17	8.077	.254 - .508	28.32	16.87	.127 - .254	28.45	12.60	1.02 - 1.52	28.50	22.61	.127 - .254	28.58	2.032	1.27 - 1.91	28.58	16.66	.914 - 3.18
28.17	12.40	.127 - .254	28.32	17.78	.762 - 1.27	28.45	12.70	1.52 - 2.03	28.50	22.63	.127 - .254	28.58	3.327	.254 - .635	28.58	16.99	.254 - .508
28.17	12.80	.762 - 1.27	28.32	19.30	.127 - .254	28.45	12.88	.203 - .406	28.50	22.68	.381 - .762	28.58	3.937	1.52 - 2.11	28.58	17.40	.203 - .406
28.17	12.85	.635 - 1.02	28.32	19.81	1.27 - 1.78	28.45	13.00	.127 - .381	28.50	25.45	.381 - .635	28.58	3.962	.635 - 1.02	28.58	17.45	2.29 - 2.67
28.17	14.12	.508 - .762	28.32	20.50	.127 - .254	28.45	13.26	2.54 - 3.18	28.50	26.01	.381 - .635	28.58	4.115	.381 - .762	28.58	17.83	1.27 - 1.91
28.17	21.08	.127 - .254	28.32	20.78	2.54 - 3.18	28.45	14.55	.127 - 1.27	28.52	5.283	.203 - .406	28.58	4.293	1.07 - 1.57	28.58	18.06	1.78 - 2.03
28.17	21.21	.254 - .508	28.32	22.23	.762 - 1.27	28.45	14.68	1.02 - 1.52	28.52	7.976	1.27 - 1.91	28.58	4.369	3.18 - 3.43	28.58	18.16	.635 - 1.02
28.17	23.29	1.02 - 1.27	28.32	22.25	1.27 - 1.91	28.45	15.01	1.27 - 1.52	28.52	8.738	.127 - .254	28.58	4.496	.635 - 1.02	28.58	18.24	1.91 - 2.54
28.19	2.388	.127 - .254	28.32	23.62	.762 - 1.02	28.45	15.27	1.52 - 2.03	28.52	9.779	.127 - .254	28.58	4.801	2.29 - 3.18	28.58	18.26	1.02 - 1.52
28.19	2.464	1.14 - 1.52	28.35	4.140	.254 - .762	28.45	15.32	.254 - 1.27	28.52	10.13	.254 - .508	28.58	5.131	2.29 - 3.05	28.58	18.82	.508 - 1.02
28.19	5.791	.762 - 1.07	28.35	9.677	.508 - .762	28.45	15.75	3.05 - 3.96	28.52	10.29	2.03 - 2.67	28.58	5.156	1.02 - 3.18	28.58	18.92	2.54 - 3.18
28.19	6.045	.457 - .965	28.35	13.89	1.27 - 1.91	28.45	15.88	.254 - .508	28.52	10.39	3.96 - 4.75	28.58	5.232	.381 - 1.02	28.58	19.02	2.67 - 3.43
28.19	7.163	.381 - .762	28.35	17.48	.127 - .254	28.45	15.95	.127 - .254	28.52	10.59	.508 - .762	28.58	6.477	.127 - 1.52	28.58	19.05	.381 - 1.07
28.19	8.280	1.27 - 1.78	28.35	19.23	.254 - .508	28.45	16.26	.406 - .635	28.52	12.73	.127 - .254	28.58	6.604	1.22 - 3.18	28.58	19.08	.254 - .508
28.19	13.13	.127 - .254	28.35	19.86	.254 - .381	28.45	16.36	2.54 - 3.18	28.52	12.78	.254 - 2.79	28.58	6.782	2.54 - 3.18	28.58	19.13	.381 - .762
28.19	15.42	2.03 - 2.67	28.35	19.96	.127 - .254	28.45	16.41	.762 - 1.27	28.52	13.11	3.18 - 3.96	28.58	6.807	.127 - .254	28.58	19.15	.127 - .254
28.19	15.90	.127 - .254	28.35	20.55	.762 - 1.52	28.45	16.97	2.29 - 3.05	28.52	13.31	.127 - .254	28.58	7.188	1.57 - 2.11	28.58	19.18	.127 - .254
28.19	17.37	1.52 - 2.03	28.35	20.73	.127 - .406	28.45	16.99	.381 - .635	28.52	13.41	2.03 - 2.54	28.58	7.341	1.52 - 2.11	28.58	19.30	1.27 - 2.29
28.19	1																

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
28.58	23.88	.127 - .254	28.73	19.25	.508 - 1.02	29.01	19.08	.127 - .508	29.24	26.57	.127 - .254	29.46	25.12	.813 - 1.27	29.74	26.67	.127 - .254
28.58	24.13	1.02 - 1.52	28.73	21.72	1.52 - 2.03	29.01	19.13	2.29 - 2.79	29.26	7.747	.508 - .762	29.49	10.36	.127 - .762	29.74	28.07	.127 - .254
28.58	24.33	.508 - 1.02	28.73	24.28	.635 - 1.07	29.01	20.07	.127 - .254	29.26	9.652	.127 - .254	29.49	19.13	1.52 - 2.03	29.77	4.826	1.02 - 1.52
28.58	24.36	.127 - .254	28.73	26.26	.635 - 1.07	29.01	20.98	2.03 - 2.64	29.26	14.30	1.02 - 1.52	29.49	19.56	.254 - .508	29.77	9.042	2.29 - 2.79
28.58	24.56	.127 - .254	28.75	4.318	1.52 - 1.91	29.01	24.00	1.02 - 2.03	29.26	17.09	3.05 - 3.43	29.49	20.17	2.03 - 2.54	29.77	12.01	3.05 - 3.43
28.58	25.53	.254 - .635	28.75	24.26	.635 - 1.27	29.03	4.750	1.52 - 1.91	29.26	19.84	2.29 - 2.67	29.49	23.42	1.02 - 1.52	29.77	13.28	.127 - .254
28.60	4.318	1.27 - 1.91	28.78	4.851	.762 - 1.27	29.03	5.232	1.02 - 1.52	29.26	26.62	.254 - .508	29.51	11.25	1.78 - 2.29	29.77	15.24	1.27 - 4.75
28.60	6.858	.635 - 1.02	28.78	5.055	1.27 - 1.52	29.03	6.350	1.52 - 1.91	29.26	26.75	.254 - .508	29.51	15.24	1.91 - 2.54	29.77	15.95	1.02 - 1.52
28.60	9.779	1.27 - 1.78	28.78	24.03	.762 - 1.27	29.03	7.950	1.52 - 1.91	29.29	1.575	.635 - 1.07	29.51	23.01	1.52 - 2.03	29.77	16.05	.762 - 1.02
28.60	10.31	2.54 - 3.30	28.78	24.66	.127 - .254	29.03	7.976	1.57 - 2.03	29.29	15.90	.254 - .813	29.51	24.26	1.02 - 1.52	29.77	17.63	1.27 - 1.91
28.60	11.48	.127 - .254	28.80	13.46	.762 - 1.27	29.03	9.525	1.52 - 1.91	29.29	18.57	2.54 - 3.18	29.54	10.36	.254 - .508	29.77	20.32	.254 - .508
28.60	13.87	1.52 - 2.03	28.80	13.84	.381 - .762	29.03	9.550	.508 - .889	29.29	21.41	.381 - .762	29.54	10.64	3.43 - 3.96	29.77	20.73	1.27 - 1.91
28.60	14.30	.381 - .762	28.80	14.10	.254 - .508	29.03	12.80	.127 - .508	29.31	4.039	.762 - 1.52	29.54	12.19	1.02 - 1.52	29.77	20.80	.127 - .254
28.60	16.23	.127 - .254	28.80	20.09	1.27 - 1.78	29.03	16.54	3.56 - 4.06	29.31	9.525	2.54 - 3.18	29.54	20.32	.762 - 1.07	29.77	22.78	.762 - 1.27
28.60	17.20	.381 - .635	28.80	22.96	1.02 - 1.52	29.03	18.77	.127 - .254	29.31	9.830	.127 - .203	29.54	21.49	1.02 - 1.52	29.77	23.29	2.03 - 2.29
28.60	18.49	.762 - 1.27	28.83	5.105	1.27 - 1.52	29.03	20.62	2.54 - 3.05	29.31	12.67	1.27 - 1.91	29.54	25.65	.254 - .508	29.77	24.33	1.27 - 1.57
28.60	19.18	1.02 - 1.52	28.83	9.525	.254 - .508	29.03	21.54	.381 - 1.02	29.31	14.83	.762 - 1.52	29.57	8.915	.127 - .254	29.77	25.40	1.27 - 1.91
28.60	19.84	.254 - .508	28.83	9.550	.381 - .762	29.03	24.18	1.27 - 1.78	29.31	15.47	.127 - .254	29.57	19.99	2.11 - 3.05	29.79	1.600	.381 - .635
28.60	21.62	.127 - 3.18	28.83	12.27	.127 - 1.27	29.08	5.334	.127 - .254	29.31	18.03	.127 - .254	29.57	20.35	1.52 - 2.03	29.79	10.46	3.30 - 3.81
28.60	22.35	.127 - .254	28.83	12.88	2.29 - 3.05	29.08	9.017	3.43 - 3.96	29.31	19.99	2.29 - 2.54	29.57	20.37	1.02 - 1.52	29.79	10.49	3.96 - 4.83
28.60	23.83	.381 - .635	28.83	19.56	.508 - 1.02	29.08	21.74	.127 - .254	29.31	20.40	.762 - 1.27	29.57	24.03	.787 - 1.22	29.79	15.24	2.29 - 2.67
28.60	25.15	.127 - .254	28.83	19.69	1.02 - 1.52	29.08	22.76	.762 - 1.52	29.31	21.74	.635 - 1.02	29.59	8.001	1.78 - 2.29	29.79	18.03	.127 - .254
28.63	1.600	.508 - .889	28.83	20.62	2.54 - 3.18	29.08	25.55	.762 - 1.27	29.31	22.23	.254 - .508	29.59	18.67	.254 - .508	29.79	18.34	.127 - .254
28.63	4.039	.635 - 1.07	28.85	24.03	.762 - 1.27	29.11	7.341	.381 - .762	29.31	22.28	.127 - .254	29.59	19.84	1.78 - 2.29	29.79	20.42	.762 - 1.27
28.63	6.020	.635 - 1.07	28.85	24.41	1.52 - 1.91	29.11	25.40	.127 - .254	29.31	23.39	.508 - 1.02	29.59	25.65	.127 - .381	29.79	21.62	.635 - 1.02
28.63	6.426	1.91 - 2.29	28.88	6.426	3.18 - 3.43	29.11	25.65	.127 - .508	29.31	26.24	.127 - .254	29.59	27.05	.127 - .254	29.79	22.63	.508 - .762
28.63	6.782	1.22 - 1.57	28.88	17.60	.127 - .254	29.11	26.29	.254 - .508	29.34	6.350	1.02 - 1.52	29.59	27.94	.127 - .254	29.79	23.88	1.78 - 2.29
28.63	9.525	.508 - .762	28.88	20.68	1.02 - 1.52	29.13	8.026	1.27 - 1.78	29.34	6.756	1.27 - 1.91	29.59	28.50	.127 - .254	29.79	25.35	.508 - .762
28.63	10.41	2.54 - 3.18	28.88	23.04	.762 - 1.27	29.13	19.69	1.78 - 2.29	29.34	11.10	1.27 - 1.91	29.62	17.50	.254 - .508	29.82	5.258	2.54 - 3.18
28.63	11.13	.127 - .254	28.88	24.21	.762 - 1.27	29.16	5.613	1.78 - 2.29	29.34	12.73	1.91 - 2.29	29.62	24.31	.635 - .889	29.82	6.629	3.18 - 3.96
28.63	12.88	.127 - .254	28.91	3.200	.635 - 1.02	29.16	6.375	2.67 - 3.43	29.34	12.95	.762 - 1.02	29.64	25.15	1.52 - 2.03	29.82	10.64	2.29 - 2.67
28.63	13.23	.635 - 1.07	28.91	14.43	1.78 - 2.29	29.16	16.00	.508 - .762	29.34	14.40	.508 - 1.02	29.67	4.928	.508 - .762	29.82	22.25	.762 - 1.27
28.63	13.49	1.52 - 2.11	28.91	14.48	.635 - 1.02	29.16	20.55	.127 - .254	29.34	15.09	2.03 - 2.67	29.67	5.817	.508 - 1.02	29.82	22.63	1.52 - 2.03
28.63	15.90	.127 - 2.03	28.91	17.58	3.96 - 4.83	29.16	23.90	.508 - .762	29.34	19.46	.508 - .762	29.67	11.63	.127 - .254	29.82	23.39	.508 - 1.02
28.63	16.33	.381 - .635	28.91	18.75	.635 - 1.27	29.18	4.750	.762 - 1.27	29.34	19.69	.762 - 1.27	29.67	15.24	3.43 - 3.96	29.82	24.46	.381 - .762
28.63	17.65	.305 - .457	28.91	19.84	1.57 - 2.11	29.18	7.950	2.29 - 2.79	29.34	24.56	.635 - 1.07	29.67	17.70	.635 - 1.02	29.85	1.372	.508 - 1.02
28.63	19.63	1.91 - 2.29	28.91	22.15	2.29 - 2.79	29.18	9.728	.254 - .381	29.36	3.175	.127 - .254	29.67	17.88	3.43 - 3.96	29.85	1.600	.508 - .813
28.63	22.48	2.03 - 2.54	28.91	23.16	1.52 - 1.91	29.18	16.05	1.52 - 2.03	29.36	4.775	2.54 - 3.18	29.67	19.05	.127 - .254	29.85	6.604	2.29 - 3.18
28.63	23.65	1.27 - 1.78	28.91	24.18	.762 - 1.27	29.18	21.62	.127 - .254	29.36	9.627	1.02 - 1.52	29.67	21.41	.127 - .254	29.85	11.13	.381 - .762
28.63	23.80	1.27 - 1.78	28.91	24.87	.762 - 1.27	29.18	23.95	.762 - 1.27	29.36	13.51	.635 - 1.02	29.67	23.42	.127 - .254	29.85	13.06	.508 - .889
28.63	25.32	.127 - .254	28.91	26.47	.762 - 1.27	29.18	25.37	1.02 - 1.52	29.36	14.27	.254 - .508	29.67	25.02	.127 - .508	29.85	15.88	.254 - .508
28.63	25.86	.127 - .508	28.93	8.128	.127 - .254	29.21	3.175	1.57 - 2.11	29.36	14.35	2.54 - 3.30	29.67	25.30	.127 - .381	29.85	18.16	.254 - .508
28.65	7.976	1.91 - 2.29	28.93	19.76	.381 - .762	29.21	4.724	1.57 - 2.11	29.36	14.78	1.27 - 1.91	29.67	25.40	.127 - .254	29.85	18.19	.127 - .254
28.65	8.814	3.96 - 4.75	28.96	3.404	1.52 - 1.91	29.21	4.750	.762 - 1.27	29.36	19.43	2.67 - 3.43	29.69	3.200	.254 - .635	29.85	18.44	.127 - .254
28.65	9.093	3.96 - 4.75	28.96	4.953	1.52 - 1.91	29.21	5.156	1.57 - 2.11	29.36	20.17	1.02 - 1.57	29.69	9.906	1.52 - 2.11	29.85	19.05	.127 - .254
28.65	9.296	1.22 - 1.57	28.96	5.334	1.52 - 1.91	29.21	6.350	1.57 - 2.11	29.36	20.62	.127 - .305	29.69	10.41	1.78 - 2.29	29.85	20.68	.508 - 1.02
28.65	18.97	.127 - .254	28.96	6.604	1.52 - 1.91	29.21	6.401	.127 - .254	29.36	22.68	.127 - .508	29.69	10.64	2.29 - 3.18	29.85	21.34	.127 - .254
28.65	19.02	.635 - 1.02	28.96	8.128	1.52 - 1.91	29.21	7.950	1.57 - 2.11	29.36	23.01	.635 - 1.02	29.69	17.55	2.29 - 2.79	29.85	22.05	.127 - .254
28.65	19.08	.127 - .254	28.96	9.728	1.52 - 1.91	29.21	9.525	.508 - 2.11	29.36	23.14	.508 - 1.02	29.69	17.73	.762 - 1.27	29.85	22.99	.762 - 1.27
28.65	22.28	.254 - .508	28.96	14.48	.254 - 3.18	29.21	9.550	.254 - .508	29.36	24.54	.127 - .254	29.69	22.30	2.03 - 2.54	29.85	23.11	.127 - .254
28.65	22.58	1.27 - 1.78	28.96	15.93	.508 - 1.02	29.21	9.576	.381 - .762	29.36	24.59	.254 - .762	29.69	22.35	1.02 - 1.52	29.85	23.50	.508 - .762
28.68	12.70	2.03 - 2.67	28.96	15.98	.508 - 1.02	29.21	9.677	.127 - .508	29.39	9.601	1.27 - 1.78	29.69	22.43	.127 - .254	29.85	24.05	.381 - .762
28.68	12.78	2.29 - 2.67	28.96	16.31	.762 - 1.52	29.21	9.703	.508 - .762	29.39	14.48	.508 - 1.02	29.69	25.27	.127 - .254	29.85	25.02	2.03 - 2.54
28.68	12.85	1.27 - 1.78	28.96	16.69	.127 - .508	29.21	9.728	2.67 - 3.18	29.39	19.00	.381 - .762	29.69	28.42	.254 - .508	29.85	25.37	.381 - .508
28.68	15.75	2.54 - 3.18	28.96	17.53	.508 - 1.02	29.21	11.43	.127 - .254	29.39	19.94	.508 - .762	29.72	5.690	.127 - .254	29.85	26.19	.127 - .254
28.68	17.91	2.67 - 3.43	28.96	18.34	.127 - .254	29.21	12.78	.127 - .508	29.41	6.020	.508 - 1.02	29.72	6.502	.508 - .762	29.85	28.24	.254 - .508
28.68	20.42	1.52 - 2.03	28.96	18.36	.127 - .254	29.21	12.83	.127 - .254	29.41	10.36	.254 - .762	29.72	9.601	.127 - .508	29.87	3.226	.635 - 1.02
28.68	24.31	.127 - .254	28.96	18.85	.127 - .254	29.21	14.05	.127 - .254	29.41	12.09	.127 - .254	29.72	11.18	2.29 - 2.67	29.87	9.423	1.02 - 1.52
28.70	4.140	.127 - .254	2														

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
29.90	25.12	1.78 - 2.29	30 mm			30.07	20.50	.127 - .254	30.15	23.98	.127 - .254	30.28	25.50	.381 - .635	30.48	8.890	.127 - .254
29.90	25.15	.635 - 1.02				30.07	25.27	.127 - .254	30.15	24.23	.127 - .254	30.28	25.76	.508 - 1.02	30.48	9.550	.127 - .508
29.90	25.20	.127 - .254				30.07	27.25	.127 - .254	30.15	25.83	.127 - .305	30.30	4.039	.127 - .254	30.48	9.576	.254 - 3.18
29.90	25.40	.127 - .254				30.10	2.261	1.52 - 2.29	30.15	26.04	1.27 - 1.52	30.30	7.163	1.27 - 1.52	30.48	9.601	.127 - 3.18
29.92	9.652	2.29 - 3.18				30.10	6.401	1.02 - 1.52	30.15	26.14	.127 - .254	30.30	11.30	1.52 - 1.98	30.48	9.728	2.29 - 3.18
29.92	10.03	2.54 - 3.18				30.10	7.950	2.54 - 3.18	30.15	26.19	.127 - .254	30.30	16.26	1.02 - 1.52	30.48	10.36	1.27 - 1.78
29.92	11.23	1.52 - 2.03				30.10	8.001	1.27 - 1.91	30.18	2.388	.508 - .762	30.30	23.88	1.52 - 2.03	30.48	11.18	.127 - .508
29.92	16.03	.127 - .508				30.10	8.331	2.54 - 3.18	30.18	3.251	.508 - .889	30.30	25.48	.254 - .508	30.48	11.28	.254 - .508
29.92	16.15	.127 - .254				30.10	8.280	.127 - .254	30.18	4.953	1.02 - 1.57	30.33	19.30	1.27 - 1.78	30.48	12.70	.127 - .508
29.92	16.84	2.29 - 2.79				30.10	8.509	1.52 - 1.98	30.18	6.096	1.27 - 1.78	30.33	23.67	.762 - 1.27	30.48	12.73	.127 - .508
29.92	18.01	.127 - .254	30.10	9.627	.127 - .254	30.18	6.452	1.27 - 1.78	30.33	25.45	1.27 - 1.78	30.48	12.75	.127 - .508			
29.92	19.13	.381 - .762	30.10	10.01	.381 - .762	30.18	7.874	1.27 - 1.78	30.33	25.70	.127 - .254	30.48	12.78	.127 - .508			
29.92	26.44	.508 - 1.02	30.10	10.03	.127 - 1.52	30.18	7.925	.127 - .254	30.33	25.76	1.52 - 2.03	30.48	12.80	.127 - .762			
29.95	4.318	.254 - .508	30.10	10.52	2.29 - 2.67	30.18	8.280	1.57 - 2.11	30.33	27.23	.127 - .254	30.48	13.21	1.27 - 1.78			
29.95	9.677	4.32 - 4.83	30.10	11.99	.254 - .508	30.18	11.15	1.52 - 2.03	30.33	27.25	.127 - .254	30.48	14.27	.127 - .508			
29.95	12.01	.254 - .508	30.10	12.01	.127 - .254	30.18	12.90	.508 - 1.02	30.35	1.448	.127 - .254	30.48	15.24	2.67 - 3.18			
29.95	12.75	.127 - .254	30.10	12.04	.127 - .254	30.18	13.08	1.02 - 1.52	30.35	7.925	.127 - .254	30.48	15.90	.127 - .508			
29.95	14.45	.762 - 1.52	30.10	12.12	.127 - .254	30.18	13.46	1.22 - 1.91	30.35	9.627	1.02 - 1.27	30.48	15.98	.254 - .508			
29.95	16.05	.254 - .508	30.10	12.24	.762 - 1.52	30.18	14.30	.127 - 1.91	30.35	14.61	3.05 - 3.43	30.48	16.31	.381 - .762			
29.95	16.28	1.27 - 1.78	30.10	13.00	2.67 - 3.18	30.18	15.77	2.03 - 2.54	30.35	16.28	1.02 - 1.52	30.48	16.51	.635 - 1.07			
29.95	16.46	.381 - .762	30.10	13.16	3.43 - 3.96	30.18	15.82	1.02 - 1.52	30.35	17.58	.203 - .508	30.48	19.08	.762 - 1.27			
29.95	17.45	.762 - 1.52	30.10	13.49	.254 - .508	30.18	15.90	2.67 - 3.18	30.35	18.54	.762 - 1.27	30.48	19.18	.254 - .508			
29.95	18.31	1.52 - 2.03	30.10	14.02	2.67 - 3.18	30.18	16.66	.635 - 1.02	30.35	20.19	1.27 - 1.78	30.48	19.30	.508 - 1.02			
29.95	21.06	.762 - 1.52	30.10	14.22	2.54 - 3.18	30.18	17.48	1.02 - 1.52	30.35	21.97	.381 - .762	30.48	19.33	3.05 - 3.43			
29.95	22.20	.127 - .254	30.10	14.66	1.78 - 2.29	30.18	18.29	.762 - 1.27	30.35	22.15	.127 - .254	30.48	19.96	2.03 - 2.29			
29.95	22.23	.127 - .254	30.10	15.42	.127 - .381	30.18	19.28	3.96 - 4.75	30.35	23.16	.254 - .508	30.48	20.22	.127 - .254			
29.95	23.14	1.02 - 1.57	30.10	15.93	.508 - 1.02	30.18	19.38	.127 - 2.67	30.35	23.24	.127 - .254	30.48	20.75	2.03 - 2.67			
29.95	23.22	.889 - 1.27	30.10	15.95	.635 - 2.11	30.18	19.43	1.78 - 2.29	30.35	24.49	.813 - 1.22	30.48	21.06	.127 - .254			
29.95	23.65	1.02 - 1.52	30.10	16.26	2.29 - 3.18	30.18	20.29	1.27 - 1.78	30.35	24.89	.127 - .381	30.48	21.97	3.43 - 3.96			
29.95	23.77	1.02 - 1.52	30.10	16.48	4.06 - 4.83	30.18	22.35	.127 - 4.06	30.35	24.97	.254 - .508	30.48	22.86	.762 - 1.27			
29.95	25.30	1.02 - 1.52	30.10	16.99	1.78 - 2.29	30.18	23.37	.254 - .508	30.35	25.58	1.52 - 2.03	30.48	23.75	.127 - .254			
29.95	25.78	.635 - 1.02	30.10	17.68	.254 - .508	30.18	23.42	1.02 - 1.52	30.35	26.06	.254 - .762	30.48	24.18	.762 - 1.02			
29.95	26.44	.508 - 1.02	30.10	17.98	.127 - .254	30.18	23.88	.127 - .254	30.35	28.35	.254 - .508	30.48	25.15	.127 - .508			
29.97	3.556	.406 - .813	30.10	19.99	3.43 - 4.06	30.18	25.40	1.57 - 2.26	30.35	28.45	.381 - .762	30.48	25.40	.127 - 1.52			
29.97	3.962	1.52 - 2.03	30.10	20.35	.127 - .254	30.18	25.43	.127 - .254	30.38	2.057	.127 - .254	30.48	25.73	.381 - .762			
29.97	6.045	.127 - .254	30.10	20.37	.635 - 1.02	30.18	25.65	.381 - .635	30.38	6.706	.635 - 1.07	30.48	26.62	.127 - .254			
29.97	6.071	2.67 - 3.18	30.10	21.06	.635 - 1.02	30.18	26.37	.635 - 1.02	30.38	9.601	.127 - .254	30.48	26.67	.635 - 1.02			
29.97	6.375	3.96 - 4.75	30.10	22.28	1.02 - 1.52	30.18	26.80	1.02 - 1.52	30.38	21.82	1.02 - 1.52	30.48	27.25	.127 - .762			
29.97	8.001	.635 - 1.02	30.10	22.48	1.02 - 1.27	30.18	26.84	.127 - .254	30.38	25.73	.127 - .254	30.51	6.528	.127 - .254			
29.97	8.052	2.29 - 2.79	30.10	22.63	1.52 - 1.78	30.18	20.98	.254 - .508	30.38	25.91	.508 - .762	30.51	7.976	.762 - 1.27			
29.97	8.103	.127 - .254	30.10	23.95	.762 - 2.03	30.18	21.64	1.27 - 1.78	30.40	9.195	.127 - .254	30.51	10.03	.127 - .762			
29.97	8.407	3.56 - 4.06	30.10	24.00	.254 - .635	30.18	24.77	.254 - .762	30.40	9.550	.127 - .254	30.51	14.27	.508 - .762			
29.97	8.992	.254 - .508	30.10	24.13	.127 - .254	30.18	25.78	.635 - 1.02	30.40	12.70	.762 - 1.27	30.51	18.31	1.27 - 1.78			
29.97	9.068	3.81 - 4.32	30.10	24.51	.305 - 1.02	30.18	25.81	.762 - 1.27	30.40	14.48	.127 - .254	30.51	19.18	.127 - .254			
29.97	9.728	1.22 - 1.91	30.10	25.40	.254 - .762	30.18	27.00	.381 - .762	30.40	16.18	.127 - .254	30.51	19.30	1.27 - 1.78			
29.97	10.11	.127 - .508	30.10	25.91	.127 - .254	30.15	3.607	.127 - .762	30.40	22.35	.127 - .254	30.51	19.38	1.27 - 1.91			
29.97	10.39	.127 - .254	30.10	8.001	.127 - .254	30.15	3.962	1.27 - 1.57	30.40	28.45	.508 - .889	30.51	19.66	.635 - 1.02			
29.97	11.13	1.27 - 1.78	30.10	8.026	.254 - .508	30.15	5.385	1.02 - 1.57	30.43	10.11	2.67 - 3.18	30.51	20.32	.381 - .762			
29.97	11.99	.127 - .254	30.10	8.052	.127 - .508	30.15	7.188	2.03 - 2.64	30.43	11.20	.254 - .508	30.51	25.48	.254 - .508			
29.97	12.04	.127 - .254	30.10	10.03	.254 - .508	30.15	7.950	.254 - .635	30.43	12.70	.127 - .254	30.51	26.67	1.27 - 1.57			
29.97	12.07	.127 - .254	30.10	10.11	.127 - .254	30.15	9.500	1.07 - 1.57	30.43	13.26	.127 - .254	30.53	11.15	1.02 - 1.52			
29.97	12.09	.635 - 1.02	30.10	10.90	1.52 - 1.78	30.15	9.601	.127 - .254	30.43	14.02	.635 - 1.02	30.53	20.14	.381 - .762			
29.97	12.32	.254 - .508	30.10	12.85	.127 - .508	30.15	9.906	3.40 - 4.75	30.43	16.05	.762 - 1.27	30.53	23.80	.635 - 1.02			
29.97	12.67	.381 - .635	30.10	13.97	1.27 - 1.52	30.15	10.26	.508 - 1.02	30.43	16.26	1.78 - 2.29	30.53	25.30	.635 - 1.02			
29.97	13.00	.127 - .254	30.10	14.17	2.03 - 2.54	30.15	12.12	2.54 - 3.18	30.43	22							

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
30.73	9.728	.127 - .191	30.99	21.11	1.52 - 2.11	31.27	23.24	.254 - .508	31.50	27.18	.127 - .254	31.62	28.12	.254 - .508	31.70	16.54	2.29 - 2.67
30.73	17.12	.127 - 1.57	30.99	21.44	1.27 - 1.78	31.27	26.62	.127 - .254	31.50	27.31	.762 - 1.27	31.62	28.52	.127 - .254	31.70	16.66	.127 - .254
30.73	22.30	.127 - .508	30.99	22.23	1.57 - 2.29	31.29	4.699	.381 - .762	31.50	28.45	.635 - 1.07	31.62	28.60	.127 - .254	31.70	17.50	1.27 - 1.78
30.73	24.33	2.54 - 3.18	30.99	24.38	1.27 - 2.11	31.29	12.70	.127 - .254	31.52	7.087	.127 - .762	31.62	28.70	.127 - .254	31.70	17.65	.127 - .254
30.73	26.37	1.27 - 1.91	30.99	25.50	.254 - .508	31.29	16.79	1.02 - 1.52	31.52	12.70	1.27 - 1.52	31.62	29.03	.127 - .381	31.70	18.36	.127 - .254
30.76	5.105	.254 - .508	30.99	27.51	.127 - .254	31.29	19.08	.127 - .254	31.52	16.28	1.27 - 1.91	31.65	6.401	2.03 - 2.64	31.70	18.85	2.54 - 3.18
30.76	10.24	1.91 - 2.29	30.99	27.69	1.07 - 1.57	31.29	20.12	3.05 - 3.30	31.52	19.05	.762 - 1.27	31.65	6.452	.381 - .762	31.70	19.02	1.27 - 1.78
30.76	19.08	1.27 - 1.91	30.99	28.35	1.02 - 1.27	31.32	26.09	1.02 - 1.52	31.52	19.33	2.67 - 3.18	31.65	6.629	1.91 - 2.29	31.70	19.05	.127 - .254
30.76	25.53	.127 - .254	31.01	3.327	.381 - .762	31.32	26.11	.127 - .254	31.52	19.86	2.79 - 3.30	31.65	9.754	1.27 - 2.11	31.70	19.10	.203 - .381
30.76	26.29	.254 - .508	31.01	4.928	.508 - 1.02	31.32	27.05	.127 - .254	31.52	20.02	.254 - .508	31.65	14.38	.127 - .254	31.70	19.30	.635 - 1.02
30.78	25.25	.762 - 1.27	31.01	6.528	1.02 - 1.52	31.32	28.73	.508 - .762	31.52	23.80	.762 - 1.27	31.65	17.81	2.79 - 3.30	31.70	19.81	2.03 - 2.64
30.78	25.78	.508 - 1.02	31.01	22.02	.508 - 1.02	31.34	2.210	.381 - .762	31.52	24.00	.508 - 1.02	31.65	18.82	.381 - .762	31.70	20.57	.127 - .254
30.78	25.81	.508 - 1.02	31.01	22.83	.635 - 1.02	31.34	7.087	.127 - .254	31.52	24.64	.508 - .762	31.65	19.05	.254 - .381	31.70	20.60	1.02 - 2.54
30.78	26.47	1.78 - 2.29	31.01	23.27	.127 - .254	31.34	9.957	3.40 - 3.96	31.52	25.25	.508 - .762	31.65	19.13	1.27 - 1.78	31.70	20.65	1.02 - 1.57
30.81	22.71	.127 - .508	31.01	25.02	1.88 - 2.29	31.34	12.83	1.78 - 2.29	31.52	27.00	.508 - .889	31.65	19.15	1.52 - 2.29	31.70	22.28	.127 - .254
30.81	27.28	.381 - .635	31.01	25.04	.508 - 1.02	31.34	21.56	.508 - 1.02	31.52	28.19	1.27 - 1.78	31.65	19.18	.508 - 1.02	31.70	22.30	.127 - .635
30.84	21.84	.762 - 1.27	31.01	27.79	.254 - .508	31.34	23.01	2.67 - 3.05	31.55	11.07	.508 - .762	31.65	19.33	1.78 - 2.29	31.70	23.09	.254 - .381
30.84	22.33	.381 - .635	31.01	27.89	.889 - 1.27	31.34	24.13	2.29 - 2.79	31.55	11.48	.508 - .762	31.65	19.51	.381 - .762	31.70	23.67	.127 - .254
30.86	6.604	1.02 - 1.52	31.04	4.928	.508 - 1.02	31.34	25.78	.203 - .406	31.55	13.59	2.29 - 2.54	31.65	19.53	1.02 - 1.52	31.70	24.13	.762 - 1.27
30.86	10.41	.254 - .508	31.04	21.21	.508 - 1.27	31.34	26.04	.762 - 1.27	31.55	16.28	1.57 - 2.29	31.65	19.84	.508 - 1.02	31.70	24.99	.254 - .508
30.86	12.04	.127 - .254	31.04	25.78	.127 - .254	31.34	27.43	.508 - .762	31.55	22.33	1.07 - 1.57	31.65	19.89	.508 - 1.02	31.70	25.40	1.57 - 2.11
30.86	19.13	.762 - 1.27	31.04	27.00	1.02 - 1.52	31.37	12.70	.254 - .508	31.55	22.78	.381 - .762	31.65	21.31	1.52 - 2.03	31.70	25.50	1.57 - 2.11
30.86	22.23	1.57 - 2.29	31.04	27.41	.127 - .254	31.37	15.90	.127 - .508	31.55	23.98	1.02 - 1.52	31.65	22.35	.127 - .254	31.70	25.91	.127 - .254
30.86	23.01	.254 - .508	31.06	6.401	2.79 - 3.30	31.37	15.95	1.02 - 1.52	31.55	25.40	.127 - .254	31.65	23.09	1.27 - 1.91	31.70	26.54	.381 - .762
30.89	9.576	1.52 - 2.11	31.06	9.779	2.54 - 3.18	31.37	17.65	2.29 - 2.54	31.55	25.93	.381 - .762	31.65	23.80	.127 - .254	31.70	26.92	.127 - .381
30.89	25.40	.127 - .254	31.06	9.804	1.52 - 1.98	31.37	18.59	.127 - .254	31.57	5.588	.889 - 1.52	31.65	24.18	1.27 - 1.70	31.70	29.08	1.02 - 1.52
30.89	26.14	1.78 - 2.29	31.06	15.95	.203 - .381	31.37	19.46	.254 - .508	31.57	10.29	.762 - 1.27	31.65	26.29	1.91 - 2.29	31.72	3.556	.127 - 1.27
30.89	27.25	.127 - .254	31.06	19.18	.635 - 1.02	31.37	20.37	.127 - .254	31.57	12.47	3.18 - 3.96	31.65	26.57	.508 - 1.02	31.72	4.775	.381 - .762
30.91	17.81	.127 - .254	31.06	20.14	.508 - 1.02	31.37	22.40	.127 - .508	31.57	15.57	.127 - .254	31.65	26.92	.508 - 1.02	31.72	5.156	.127 - 2.67
30.91	19.23	.127 - .254	31.06	23.04	.381 - .762	31.37	24.00	.254 - .508	31.57	15.60	.127 - .254	31.67	1.626	.381 - .762	31.72	6.350	.762 - 1.27
30.91	22.91	.127 - .381	31.06	25.35	.127 - .762	31.37	24.43	.254 - .508	31.57	17.75	.127 - .254	31.67	3.175	1.02 - 1.52	31.72	6.426	.127 - .254
30.91	25.27	.127 - .254	31.06	25.91	.762 - 1.52	31.37	25.65	.127 - .508	31.57	21.72	1.78 - 2.29	31.67	6.452	1.52 - 2.03	31.72	8.077	4.32 - 4.83
30.91	25.35	.254 - .508	31.06	27.15	.254 - .508	31.39	3.327	.127 - .254	31.57	24.51	2.29 - 2.67	31.67	6.680	1.27 - 1.91	31.72	8.103	.914 - 1.52
30.91	25.43	.127 - .635	31.06	27.56	.127 - .254	31.39	10.49	.127 - .254	31.57	25.70	.127 - .254	31.67	8.992	2.54 - 3.18	31.72	8.128	2.67 - 3.18
30.91	25.73	.508 - 1.02	31.09	19.15	1.78 - 2.29	31.39	12.70	.127 - .254	31.57	26.04	.762 - 1.02	31.67	9.601	.127 - .254	31.72	8.306	.381 - .762
30.94	7.036	2.29 - 3.18	31.09	25.91	.508 - 1.02	31.39	12.73	2.29 - 2.79	31.57	26.34	.381 - .762	31.67	9.957	.127 - .254	31.72	8.331	2.29 - 3.18
30.94	8.001	.889 - 1.27	31.09	27.69	1.02 - 1.52	31.39	16.13	.127 - .254	31.57	27.94	1.07 - 1.52	31.67	11.43	.508 - .762	31.72	9.652	2.67 - 3.18
30.94	9.017	1.02 - 1.52	31.12	3.048	.381 - .762	31.39	16.36	1.52 - 1.78	31.60	3.810	.381 - .762	31.67	12.78	.762 - 1.27	31.72	9.931	1.07 - 1.52
30.94	9.652	.508 - 1.52	31.12	9.525	.381 - .762	31.39	20.62	.508 - 1.02	31.60	13.79	.127 - .254	31.67	14.53	.762 - 1.22	31.72	10.19	2.54 - 3.18
30.94	11.15	.762 - 1.27	31.12	14.33	.254 - .508	31.39	24.56	.508 - 1.02	31.60	19.51	1.52 - 3.18	31.67	17.37	2.79 - 3.05	31.72	10.85	.508 - 1.02
30.94	12.04	.127 - .254	31.12	16.26	.127 - .254	31.39	28.50	.127 - .254	31.60	19.56	.508 - 2.11	31.67	17.75	.127 - .254	31.72	11.28	.914 - 1.52
30.94	14.35	1.07 - 1.57	31.12	20.98	1.02 - 1.52	31.42	22.02	.762 - 1.27	31.60	19.86	1.78 - 2.29	31.67	19.15	1.27 - 1.78	31.72	11.43	.127 - .254
30.94	15.93	.127 - .254	31.12	24.05	.254 - .508	31.42	23.62	1.27 - 1.78	31.60	20.14	.127 - .254	31.67	20.73	.127 - 1.27	31.72	11.56	.127 - .254
30.94	19.25	.635 - .889	31.14	13.34	.381 - .762	31.45	8.280	1.02 - 1.52	31.60	20.35	.635 - 1.02	31.67	21.59	1.78 - 2.29	31.72	12.57	.127 - .254
30.94	21.72	1.52 - 1.91	31.14	19.05	3.43 - 3.96	31.45	16.26	1.78 - 2.29	31.60	22.30	2.67 - 3.43	31.67	22.20	.381 - .762	31.72	12.95	1.78 - 2.29
30.94	21.74	1.52 - 1.91	31.17	9.677	.127 - .254	31.45	16.79	.508 - .762	31.60	24.56	2.03 - 2.54	31.67	23.80	.406 - .635	31.72	13.11	.762 - 1.27
30.94	22.58	1.27 - 1.57	31.17	19.74	.127 - .254	31.45	22.61	1.78 - 2.29	31.60	25.40	.635 - 1.02	31.67	24.84	1.27 - 1.78	31.72	13.51	3.96 - 4.75
30.94	26.37	1.52 - 2.03	31.17	20.62	.127 - .254	31.47	18.24	.127 - .254	31.60	25.86	1.78 - 2.29	31.67	25.20	1.57 - 2.11	31.72	13.94	.127 - .254
30.94	27.33	.635 - 1.02	31.17	24.54	.254 - .508	31.47	19.79	.508 - .762	31.60	29.92	.127 - .254	31.67	25.68	.508 - .762	31.72	14.68	1.52 - 1.78
30.96	6.807	1.52 - 2.03	31.19	16.79	2.03 - 2.54	31.47	22.33	1.57 - 2.11	31.62	5.207	.127 - 1.91	31.67	26.26	.889 - 1.27	31.72	15.37	.127 - .254
30.96	6.858	.127 - .635	31.19	23.52	.254 - .508	31.47	22.48	.508 - .762	31.62	8.001	3.96 - 4.75	31.70	3.683	1.27 - 1.91	31.72	15.82	1.02 - 1.52
30.96	8.001	.889 - 1.27	31.19	25.70	.127 - .254	31.47	24.13	.254 - .508	31.62	8.636	.127 - .254	31.70	3.734	.762 - 1.02	31.72	16.13	.127 - .254
30.96	12.01	.127 - .254	31.22	10.57	.127 - .254	31.47	24.43	.508 - 1.52	31.62	12.73	2.54 - 3.18	31.70	4.521	2.54 - 3.18	31.72	16.51	.508 - .762
30.96	13.08	1.27 - 1.91	31.22	15.01	1.02 - 1.52	31.47	26.49	.381 - .762	31.62	13.39	.127 - .254	31.70	5.131	1.27 - 1.78	31.72	16.54	.508 - 1.02
30.96	13.56	.127 - 1.91	31.22	19.13	.508 - 1.02	31.50	1.651	.762 - 1.02	31.62	13.41	1.27 - 1.78	31.70	5.563	1.02 - 1.52	31.72	16.76	.508 - 1.02
30.96	14.02	.127 - .254	31.22	19.23	.635 - 1.78	31.50	3.226	2.29 - 2.67	31.62	13.97	.381 - .889	31.70	6.477	.127 - .254	31.72	16.84	1.52 - 2.03
30.96	15.11	.635 - 1.07	31.22	19.94	.813 - 1.27	31.50	4.369	.254 - .508	31.62	14.22	.127 - .254	31.70	6.655	.127 - .254	31.72	17.50	1.27 - 1.91
30.96	16.31	.127 - .254	31.22	21.87	1.78 - 2.29	31.50	8.204	1.57 - 2.11	31.62	14.35	1.27 - 2.11	31.70	6.680	1.27 - 1.91	31.72	17.53	2.03 - 2.54
30.96	19.08	.254 - .508	31.22	23.29	.635 - 1.07												

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
31.75	3.226	.787 - 1.22	31.75	14.50	1.02 - 1.52	31.75	23.80	2.54 - 3.18	31.78	27.48	.508 - 1.02	31.88	19.15	1.78 - 2.03	32.00	17.32	1.52 - 2.03
31.75	3.556	.508 - 3.18	31.75	14.53	1.02 - 1.27	31.75	23.85	2.54 - 3.18	31.78	27.91	.254 - .508	31.88	19.20	.508 - 1.02	32.00	17.35	1.52 - 2.03
31.75	3.759	.203 - .406	31.75	14.73	3.43 - 3.96	31.75	24.21	.381 - 2.11	31.78	28.19	.508 - .762	31.88	21.41	3.43 - 4.75	32.00	17.50	.508 - .762
31.75	4.166	.127 - .254	31.75	14.88	.381 - .762	31.75	24.43	.381 - .508	31.80	6.807	.762 - 1.27	31.88	21.46	.127 - .254	32.00	19.05	1.57 - 3.05
31.75	4.191	1.52 - 2.11	31.75	15.11	.381 - 3.43	31.75	25.04	2.29 - 2.67	31.80	7.112	2.67 - 3.43	31.88	22.15	.762 - 1.27	32.00	20.98	.127 - .254
31.75	4.318	.762 - 1.52	31.75	15.88	.508 - 3.18	31.75	25.15	.762 - 1.02	31.80	8.026	.635 - 1.78	31.88	23.14	2.67 - 3.18	32.00	21.01	1.02 - 1.52
31.75	4.623	.127 - .254	31.75	16.00	1.27 - 2.54	31.75	25.27	1.52 - 2.03	31.80	8.052	3.43 - 3.96	31.88	24.38	1.02 - 1.52	32.00	24.99	.635 - 1.02
31.75	4.750	1.02 - 2.11	31.75	16.15	.127 - .254	31.75	25.40	2.36 - 3.18	31.80	8.103	1.27 - 1.78	31.88	26.19	.508 - .762	32.00	25.45	2.03 - 2.54
31.75	4.877	1.02 - 1.57	31.75	16.18	.127 - .254	31.75	25.58	1.07 - 1.57	31.80	8.357	1.22 - 1.57	31.88	27.41	.508 - .762	32.00	26.67	.381 - .635
31.75	4.902	.762 - 1.52	31.75	16.26	.762 - 2.03	31.75	25.65	.254 - .508	31.80	8.712	3.96 - 4.83	31.90	3.531	1.27 - 2.11	32.00	26.80	.254 - .381
31.75	4.953	2.29 - 3.43	31.75	16.28	2.54 - 3.18	31.75	25.68	.127 - .254	31.80	9.550	.127 - .508	31.90	8.357	1.91 - 2.54	32.00	27.43	1.02 - 1.52
31.75	5.156	.406 - 3.18	31.75	16.41	.127 - .381	31.75	25.70	1.27 - 1.78	31.80	10.06	1.02 - 1.52	31.90	12.88	1.27 - 1.78	32.00	27.94	1.02 - 1.52
31.75	5.283	.127 - .254	31.75	16.43	2.29 - 3.18	31.75	25.78	.508 - 1.02	31.80	10.34	2.29 - 2.79	31.90	13.18	2.54 - 3.18	32.00	28.70	.254 - .508
31.75	5.410	.254 - .508	31.75	16.51	.127 - .254	31.75	25.83	1.52 - 2.11	31.80	10.36	.635 - 1.07	31.90	15.57	.381 - .762	32.00	28.83	.254 - .508
31.75	5.512	.381 - .762	31.75	16.66	1.78 - 4.75	31.75	25.91	2.54 - 3.05	31.80	10.82	2.54 - 3.18	31.90	23.90	3.18 - 3.96	32.03	3.200	.254 - .305
31.75	5.766	.127 - .381	31.75	16.71	.127 - .254	31.75	26.24	.127 - .254	31.80	11.10	1.52 - 1.91	31.90	27.43	1.57 - 2.03	32.03	4.953	.127 - .254
31.75	6.350	.508 - .762	31.75	16.76	.508 - 1.02	31.75	26.29	1.27 - 1.78	31.80	11.23	3.18 - 3.96	31.93	15.37	.127 - .254	32.03	5.512	2.67 - 3.43
31.75	6.401	.305 - 3.18	31.75	16.81	2.67 - 3.18	31.75	26.31	2.03 - 2.67	31.80	12.85	.127 - .254	31.93	17.09	.508 - .762	32.03	8.026	2.29 - 3.18
31.75	6.452	.127 - .305	31.75	16.89	.762 - 1.02	31.75	26.70	.254 - .508	31.80	14.86	.762 - 1.27	31.93	19.99	3.05 - 3.43	32.03	10.44	2.29 - 2.64
31.75	6.477	.127 - .254	31.75	16.99	.127 - .254	31.75	26.87	1.83 - 2.36	31.80	15.88	.127 - .254	31.93	23.70	.762 - 1.22	32.03	10.52	.127 - .254
31.75	6.579	.127 - .254	31.75	17.15	.381 - .762	31.75	26.95	.635 - 1.02	31.80	15.98	.508 - .762	31.93	23.90	3.18 - 3.96	32.03	12.83	1.78 - 2.29
31.75	6.604	1.02 - 1.52	31.75	17.27	2.67 - 3.18	31.75	27.10	.762 - 1.27	31.80	16.00	2.67 - 3.18	31.93	24.28	.127 - .254	32.03	12.93	2.67 - 3.18
31.75	6.655	1.27 - 1.91	31.75	17.35	.254 - .508	31.75	28.32	.254 - .508	31.80	16.08	1.27 - 1.91	31.93	25.76	.127 - .254	32.03	16.05	.127 - .254
31.75	6.706	.254 - .508	31.75	17.48	2.29 - 3.18	31.75	28.52	.635 - 1.02	31.80	16.26	.203 - .406	31.93	27.94	.127 - .381	32.03	25.50	1.78 - 2.29
31.75	6.756	3.05 - 3.40	31.75	17.50	.254 - 1.02	31.75	28.96	.381 - .635	31.80	18.42	1.52 - 1.78	31.93	28.45	.254 - .508	32.03	25.81	.127 - .254
31.75	6.934	.127 - .254	31.75	17.53	.127 - .254	31.75	29.08	.508 - 1.02	31.80	19.13	.127 - .254	31.93	29.62	.635 - 1.02	32.03	27.00	.762 - 1.07
31.75	7.112	1.57 - 2.11	31.75	17.81	.381 - 2.67	31.75	29.64	.254 - .635	31.80	19.18	.127 - .254	31.95	9.652	.127 - .254	32.05	4.750	.508 - .889
31.75	7.188	1.52 - 2.11	31.75	17.96	.508 - 1.02	31.75	29.97	.127 - .381	31.80	19.43	.127 - .254	31.95	12.01	.127 - .254	32.05	7.493	.508 - 1.02
31.75	7.264	1.27 - 1.91	31.75	18.03	1.27 - 1.78	31.75	30.00	.127 - .381	31.80	19.79	.127 - .381	31.95	12.04	.127 - .254	32.05	13.59	.127 - .254
31.75	7.493	.635 - 1.07	31.75	18.06	.127 - .254	31.75	30.15	.127 - .254	31.80	20.04	1.27 - 1.91	31.95	12.14	.127 - .254	32.05	24.16	.762 - 1.27
31.75	7.899	1.27 - 1.57	31.75	18.16	.127 - .254	31.78	3.327	1.27 - 1.78	31.80	20.07	1.27 - 1.91	31.95	13.67	.254 - .508	32.08	22.40	2.67 - 3.43
31.75	7.925	.127 - .254	31.75	18.36	1.27 - 2.03	31.78	3.353	1.78 - 2.29	31.80	20.24	.254 - .508	31.95	16.05	.381 - .762	32.08	27.31	2.29 - 2.67
31.75	7.976	2.67 - 3.18	31.75	19.05	.305 - 3.18	31.78	4.750	.127 - .254	31.80	22.40	.203 - .406	31.95	16.33	.127 - .254	32.08	27.56	.254 - .508
31.75	8.128	.127 - .254	31.75	19.08	4.57 - 4.78	31.78	5.461	.254 - .508	31.80	23.67	2.54 - 3.18	31.95	17.20	.762 - 1.27	32.08	27.66	.635 - .889
31.75	8.306	.508 - .762	31.75	19.13	1.02 - 1.52	31.78	6.528	1.78 - 2.29	31.80	24.41	.178 - 1.02	31.95	17.42	.127 - .254	32.11	13.92	.762 - 1.27
31.75	8.357	1.78 - 2.29	31.75	19.15	.813 - 1.07	31.78	7.925	2.29 - 2.67	31.80	24.51	.508 - .762	31.95	18.34	.762 - 1.27	32.13	8.992	3.05 - 3.40
31.75	8.636	.127 - .254	31.75	19.18	1.78 - 2.29	31.78	8.382	3.96 - 4.83	31.80	25.35	.203 - .406	31.95	24.99	.254 - .381	32.13	9.550	1.52 - 2.03
31.75	8.661	.508 - 1.02	31.75	19.25	1.78 - 3.18	31.78	8.433	2.67 - 3.18	31.80	25.45	.406 - .635	31.95	25.50	.381 - .762	32.13	12.80	.127 - .254
31.75	8.712	2.03 - 2.54	31.75	19.35	.127 - 1.78	31.78	8.509	.508 - 1.02	31.80	25.50	.635 - 1.02	31.95	25.65	.254 - .508	32.13	13.54	2.54 - 3.18
31.75	8.992	.127 - .254	31.75	19.38	.127 - .254	31.78	9.601	.127 - .254	31.80	25.78	2.54 - 3.18	31.95	28.35	.127 - .254	32.13	22.00	2.03 - 2.54
31.75	9.042	.381 - .762	31.75	19.41	1.02 - 1.52	31.78	9.754	4.32 - 4.83	31.80	25.91	.813 - 1.52	31.95	28.68	.254 - .381	32.13	22.23	1.02 - 1.52
31.75	9.119	1.52 - 2.29	31.75	19.43	2.64 - 3.40	31.78	10.19	.381 - .762	31.80	26.16	.508 - 1.02	31.98	5.893	.508 - 1.02	32.13	23.62	.254 - .508
31.75	9.271	.508 - 1.57	31.75	19.56	1.02 - 1.52	31.78	10.41	.381 - .787	31.80	26.34	1.27 - 1.78	31.98	6.071	.127 - .254	32.13	25.15	2.54 - 3.18
31.75	9.525	2.29 - 2.67	31.75	19.58	.762 - 1.27	31.78	10.59	3.43 - 4.06	31.80	26.42	.127 - .254	31.98	8.026	.254 - .762	32.13	25.40	1.52 - 1.91
31.75	9.576	.127 - .254	31.75	19.84	1.27 - 1.78	31.78	11.18	1.02 - 1.52	31.80	27.74	.254 - .508	31.98	10.03	.254 - .508	32.13	30.63	.127 - .254
31.75	9.601	.127 - .762	31.75	19.89	1.27 - 1.91	31.78	11.96	1.14 - 1.52	31.80	28.12	.127 - .254	31.98	10.80	3.96 - 4.75	32.16	16.97	1.78 - 2.29
31.75	9.627	.305 - 1.02	31.75	19.91	1.27 - 1.78	31.78	12.19	.762 - 1.27	31.80	28.50	.127 - .254	31.98	12.01	.381 - .762	32.16	17.27	1.27 - 1.78
31.75	9.703	2.54 - 3.40	31.75	19.94	.127 - 1.52	31.78	12.24	4.06 - 4.83	31.80	28.58	.254 - .762	31.98	12.07	.127 - .254	32.16	19.33	.127 - .254
31.75	9.728	.762 - 1.27	31.75	20.04	2.67 - 3.43	31.78	12.70	.127 - .254	31.80	28.63	.127 - .254	31.98	12.73	.127 - .254	32.16	19.79	1.27 - 1.91
31.75	9.906	.127 - 2.03	31.75	20.09	.254 - .508	31.78	13.49	3.96 - 4.75	31.83	9.906	2.54 - 3.05	31.98	12.75	.127 - .254	32.16	20.09	.127 - .254
31.75	10.08	.127 - .254	31.75	20.19	.178 - .381	31.78	13.51	3.05 - 3.43	31.83	10.41	1.52 - 2.03	31.98	14.38	.127 - .254	32.16	26.59	1.52 - 2.03
31.75	10.31	2.54 - 4.75	31.75	20.22	2.79 - 3.18	31.78	14.00	.381 - .762	31.83	14.55	.762 - 1.27	31.98	16.08	2.29 - 3.18	32.18	15.85	.406 - .813
31.75	10.34	.127 - 1.27	31.75	20.27	.381 - .762	31.78	14.20	2.67 - 3.18	31.83	16.08	1.52 - 2.03	31.98	16.28	2.79 - 3.43	32.18	20.27	1.91 - 2.54
31.75	10.49	2.54 - 3.05	31.75	20.40	2.03 - 2.54	31.78	14.25	1.52 - 3.05	31.83	16.66	.381 - .762	31.98	17.25	1.78 - 2.29	32.18	26.64	1.91 - 2.29
31.75	11.07	2.54 - 3.18	31.75	20.52	.254 - .508	31.78	14.58	.254 - .508	31.83	19.46	3.96 - 4.75	31.98	19.00	.127 - .254	32.18	28.45	.508 - 1.02
31.75	11.10	.254 - .508	31.75	20.62	.254 - 2.64	31.78	14.71	2.54 - 3.18	31.83	19.51	.762 - 1.27	31.98	22.40	.254 - .508	32.21	18.06	2.03 - 2.54
31.75	11.18	1.02 - 3.18	31.75	20.68	.127 - .254	31.78	16.26	.127 - .254	31.83	19.81	3.96 - 4.75	31.98	23.55	1.02 - 1.27	32.21	23.32	2.03 - 2.64
31.75	11.20	.127 - .305	31.75	21.03	.508 - .762	31.78	16.71	1.02 - 1.57	31.83	19.86	.203 - .508	31.98	25.17	.127 - .254	32.21	24.89	1.52 - 2.03
31.75	11.23	1.02 -															

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
32.33	23.04	.762 - 1.27	32.56	15.88	.127 - .254	32.94	21.64	.254 - .508	33.02	27.10	1.27 - 1.52	33.27	10.34	2.29 - 3.05	33.32	22.66	.508 - 1.02
32.33	23.37	.508 - .762	32.56	23.93	.254 - .508	32.94	21.84	.254 - .508	33.02	27.61	.254 - .508	33.27	10.57	2.79 - 3.30	33.32	23.01	1.57 - 2.03
32.36	18.06	.762 - 1.27	32.56	25.91	.127 - .254	32.94	24.00	1.57 - 2.29	33.02	27.76	.127 - .254	33.27	12.83	.254 - .508	33.32	23.83	.127 - .254
32.36	23.83	.381 - .635	32.56	26.49	.762 - 1.27	32.94	26.87	2.29 - 2.67	33.02	28.85	.762 - 1.02	33.27	12.95	.305 - .508	33.32	23.90	.762 - 1.02
32.36	24.61	2.03 - 2.67	32.56	27.08	1.02 - 1.52	32.94	29.21	.508 - 1.02	33.02	30.02	.127 - .254	33.27	13.11	1.02 - 1.52	33.32	24.08	1.78 - 2.29
32.36	28.58	.127 - .254	32.56	29.51	.254 - .508	32.94	29.69	.508 - 1.27	33.05	9.576	.381 - .762	33.27	13.44	1.02 - 1.52	33.32	25.04	.127 - .254
32.39	6.477	.381 - .762	32.56	29.57	.254 - .508	32.97	5.588	1.52 - 2.03	33.05	12.80	.127 - .508	33.27	15.72	.381 - .762	33.32	25.40	.254 - .508
32.39	7.544	.635 - 1.07	32.59	2.642	.127 - .254	32.97	6.985	1.27 - 1.91	33.05	17.73	.127 - .254	33.27	18.06	.381 - .762	33.32	25.43	2.03 - 2.67
32.39	7.950	1.52 - 2.29	32.59	9.525	.508 - .889	32.97	10.03	.254 - .508	33.05	19.20	.457 - .635	33.27	19.08	2.54 - 3.05	33.32	25.60	1.27 - 3.18
32.39	10.39	1.27 - 1.78	32.59	10.39	.254 - .508	32.97	11.20	.254 - .508	33.05	20.83	1.02 - 1.52	33.27	19.13	2.67 - 3.18	33.32	26.09	.127 - .254
32.39	10.41	.635 - 1.07	32.59	16.51	2.03 - 2.29	32.97	12.17	2.67 - 3.18	33.05	22.89	2.03 - 2.79	33.27	19.18	.127 - .254	33.32	26.19	2.03 - 2.67
32.39	10.44	.635 - 1.02	32.59	17.04	.381 - .635	32.97	12.60	.762 - 1.27	33.05	24.00	2.03 - 2.67	33.27	19.51	1.02 - 1.52	33.32	30.23	.381 - .635
32.39	12.70	1.91 - 2.29	32.59	22.61	.381 - .762	32.97	12.80	2.29 - 2.79	33.05	24.43	2.67 - 3.18	33.27	19.56	.127 - .254	33.32	31.78	2.67 - 3.18
32.39	17.07	.635 - 1.07	32.59	23.60	.762 - 1.02	32.97	16.00	.127 - .254	33.05	27.13	.762 - 1.27	33.27	20.62	.762 - 1.07	33.35	6.807	.889 - 1.27
32.39	20.24	.635 - 1.07	32.59	28.60	1.02 - 1.52	32.97	16.26	.127 - .254	33.07	11.20	2.54 - 3.18	33.27	22.05	3.96 - 4.75	33.35	9.525	2.54 - 3.18
32.39	24.89	.508 - 1.02	32.59	29.64	.127 - .254	32.97	22.35	1.78 - 2.29	33.07	12.12	1.27 - 1.78	33.27	22.30	.381 - .762	33.35	11.58	.127 - .254
32.39	25.63	2.29 - 2.79	32.61	4.877	1.27 - 1.78	32.97	23.01	.381 - .635	33.07	15.95	2.54 - 3.18	33.27	23.98	.127 - .254	33.35	14.30	.127 - .762
32.39	26.54	.635 - 1.07	32.61	8.230	2.03 - 2.64	32.99	3.556	.508 - 1.02	33.07	19.66	1.52 - 2.29	33.27	25.55	.127 - .254	33.35	16.13	2.29 - 2.54
32.39	26.92	.127 - .203	32.61	19.99	1.27 - 1.78	32.99	6.223	.127 - .254	33.07	19.99	2.54 - 3.18	33.27	26.64	.127 - .254	33.35	16.69	1.27 - 1.91
32.39	27.74	.127 - .254	32.61	25.88	.254 - .508	32.99	6.426	.762 - 1.02	33.07	25.58	.305 - .508	33.27	28.70	.127 - .381	33.35	16.76	2.29 - 3.18
32.41	2.667	.635 - 1.02	32.61	27.66	.381 - .762	32.99	9.779	.127 - .254	33.07	30.48	.127 - .254	33.27	31.75	.254 - .508	33.35	17.45	2.67 - 3.18
32.41	20.85	1.27 - 1.78	32.61	30.68	.127 - .254	32.99	10.03	.127 - .508	33.10	4.928	.127 - .254	33.30	4.801	1.02 - 1.52	33.35	19.08	.635 - 1.02
32.44	16.69	2.11 - 2.67	32.64	10.39	3.05 - 3.43	32.99	10.06	.127 - .254	33.10	12.80	.127 - .254	33.30	5.131	.508 - 1.02	33.35	19.28	2.03 - 2.54
32.44	24.49	.508 - .762	32.64	12.83	3.05 - 3.43	32.99	11.96	.762 - 1.27	33.10	18.64	.508 - .762	33.30	6.629	.508 - 1.02	33.35	22.20	.508 - 1.02
32.44	26.90	1.27 - 1.78	32.64	18.39	.127 - .254	32.99	12.01	.127 - .254	33.10	22.83	1.02 - 1.52	33.30	8.509	2.03 - 2.54	33.35	24.16	1.78 - 2.29
32.46	6.350	.127 - .381	32.64	25.40	.508 - 1.02	32.99	14.05	.127 - .381	33.12	6.350	1.02 - 1.27	33.30	9.652	.762 - 1.27	33.35	25.78	1.52 - 2.11
32.46	12.70	2.54 - 3.18	32.64	28.85	.127 - .254	32.99	15.90	.254 - .508	33.12	11.94	1.91 - 3.18	33.30	9.881	.635 - 1.02	33.35	27.00	1.02 - 1.52
32.46	13.44	2.54 - 3.18	32.66	6.375	1.52 - 2.29	32.99	20.62	.635 - 1.02	33.12	12.80	2.29 - 3.05	33.30	12.70	.635 - 1.02	33.35	28.40	.381 - .889
32.46	14.50	.127 - .254	32.66	12.93	3.96 - 4.75	32.99	23.42	1.02 - 1.52	33.12	30.20	.127 - .406	33.30	14.55	.127 - .254	33.35	29.16	.508 - .762
32.46	19.05	.381 - .762	32.66	20.55	.127 - .254	32.99	24.33	1.27 - 1.78	33.15	2.032	.127 - .203	33.30	15.06	1.91 - 2.29	33.35	29.57	.635 - 1.02
32.46	20.85	.762 - 1.27	32.66	20.60	2.29 - 2.67	32.99	24.38	.127 - .254	33.15	6.477	1.02 - 1.27	33.30	16.13	.127 - .254	33.38	6.807	.762 - 1.52
32.46	23.47	.127 - .254	32.66	23.32	.254 - .508	32.99	25.88	.635 - 1.07	33.15	13.06	2.54 - 3.05	33.30	16.64	2.29 - 2.79	33.38	8.661	1.52 - 2.03
32.49	11.13	.127 - .254	32.69	4.521	1.27 - 2.11	32.99	26.16	.406 - .635	33.15	17.91	1.57 - 3.05	33.30	17.17	.127 - .254	33.38	9.957	1.02 - 1.52
32.49	12.85	.127 - .254	32.69	6.375	1.52 - 2.29	32.99	27.13	.127 - .254	33.15	18.64	.508 - .762	33.30	17.48	3.96 - 4.75	33.38	11.15	1.27 - 1.91
32.49	16.08	1.27 - 1.52	32.69	6.452	1.27 - 1.57	33.02	3.734	2.03 - 2.64	33.15	20.40	1.02 - 1.52	33.30	21.79	.127 - .254	33.38	11.20	2.67 - 3.43
32.51	3.937	.127 - .381	32.69	6.706	.254 - .508	33.02	7.569	.508 - .762	33.15	20.96	1.02 - 1.52	33.30	22.23	.508 - 1.02	33.38	13.26	.381 - .762
32.51	4.318	2.54 - 3.18	32.69	29.01	.127 - .254	33.02	7.925	.127 - .254	33.15	20.98	2.54 - 3.18	33.30	22.45	1.27 - 3.43	33.38	15.06	.381 - .762
32.51	5.613	1.78 - 2.29	32.72	15.60	1.27 - 1.78	33.02	8.026	2.67 - 3.18	33.15	23.93	.508 - 1.02	33.30	22.61	.762 - 1.27	33.38	15.90	2.54 - 3.18
32.51	8.077	1.27 - 1.57	32.72	19.33	.762 - 1.27	33.02	8.077	.127 - .254	33.15	25.55	.381 - .762	33.30	22.99	.508 - 1.02	33.38	17.09	.381 - .635
32.51	11.13	.762 - 1.02	32.72	19.74	2.54 - 3.05	33.02	9.347	.635 - 1.02	33.15	25.68	.127 - .254	33.30	24.05	.508 - 1.02	33.38	21.01	.254 - .508
32.51	12.83	.254 - .508	32.72	24.61	.127 - .254	33.02	9.576	.127 - .508	33.15	25.81	1.52 - 1.78	33.30	25.27	.762 - 1.27	33.38	22.48	1.78 - 2.54
32.51	13.08	1.02 - 1.78	32.72	25.98	.381 - .762	33.02	9.601	.127 - .508	33.15	28.96	1.78 - 2.03	33.30	25.43	.127 - .254	33.38	24.61	1.02 - 1.52
32.51	13.16	.508 - 1.02	32.72	28.22	.508 - .889	33.02	9.652	.127 - .508	33.15	30.51	.254 - .508	33.30	25.53	.762 - 1.22	33.38	26.97	.152 - .406
32.51	13.46	.381 - .635	32.72	28.27	1.91 - 2.29	33.02	9.703	.254 - .508	33.15	30.61	.254 - .508	33.30	25.63	.762 - 1.02	33.38	27.69	1.07 - 1.57
32.51	15.95	1.02 - 1.52	32.72	28.65	1.02 - 1.52	33.02	9.728	.508 - .762	33.17	19.25	1.02 - 1.52	33.30	26.85	.127 - .254	33.40	4.496	.127 - .254
32.51	16.97	1.57 - 3.05	32.72	29.21	.381 - .762	33.02	10.01	.127 - .508	33.17	24.64	.381 - .635	33.30	30.23	.127 - .254	33.40	6.426	2.03 - 2.64
32.51	17.20	.762 - 1.27	32.74	28.27	1.91 - 2.29	33.02	10.08	.254 - .508	33.17	25.30	.178 - .381	33.32	5.004	.635 - 1.02	33.40	13.26	.254 - .508
32.51	19.30	1.02 - 1.52	32.77	3.251	.508 - .762	33.02	11.10	.127 - .254	33.17	25.58	1.27 - 2.29	33.32	5.944	1.27 - 1.91	33.40	14.22	.127 - .254
32.51	22.56	1.78 - 2.29	32.77	5.867	2.67 - 3.43	33.02	11.13	.254 - .508	33.17	27.18	.381 - .762	33.32	6.375	1.27 - 1.78	33.40	15.90	2.54 - 3.18
32.51	22.68	.127 - .254	32.77	6.706	.127 - .254	33.02	11.18	.127 - .508	33.17	29.64	.127 - .254	33.32	7.976	1.91 - 2.29	33.40	17.86	.254 - .508
32.51	23.24	.178 - .305	32.77	9.576	.508 - .762	33.02	11.28	.254 - .508	33.17	30.07	.127 - .254	33.32	8.128	.762 - 1.27	33.40	23.44	.508 - .762
32.51	25.40	1.52 - 2.29	32.77	15.93	.508 - .762	33.02	12.98	.254 - .508	33.20	12.75	.254 - .508	33.32	9.500	.508 - 1.02	33.40	29.90	.127 - .254
32.51	25.83	.635 - 1.02	32.77	19.30	.762 - 1.52	33.02	13.16	.254 - .508	33.20	16.64	.127 - .254	33.32	9.576	.508 - .762	33.43	16.64	.127 - .254
32.51	25.91	1.78 - 2.29	32.77	25.40	1.27 - 1.78	33.02	14.17	.254 - .508	33.20	27.13	1.91 - 2.29	33.32	9.957	.762 - 1.52	33.43	18.92	2.03 - 2.54
32.51	26.19	.254 - .508	32.77	29.11	1.27 - 1.52	33.02	15.95	.508 - .889	33.22	3.175	1.02 - 1.57	33.32	12.83	.254 - .381	33.43	22.38	.508 - 1.02
32.51	26.44	1.02 - 1.27	32.77	30.58	.127 - .254	33.02	15.98	.127 - .762	33.22	5.588	1.27 - 1.78	33.32	12.88	1.07 - 1.57	33.43	22.48	.635 - 1.27
32.51	26.54	1.02 - 1.52	32.79	24.54	.508 - 1.02	33.02	16.00	1.27 - 1.91	33.22	6.375	.127 - .254	33.32	14.05	.127 - .254	33.43	23.88	.254 - .381
32.51	27.08	.254 - 1.52	32.79	29.97	.127 - .254	33.02	16.13	.254 - .508	33.22	15.72	.127 - .254	33.32	14.30	.127 - .254	33.43	24.84	1.07 - 1.52
32.51	27.18	1.27 - 1.78	32.82	25.40	.127 - .254</												

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
33.53	12.57	1.57 - 3.43	33.78	8.331	.127 - .254	34.04	7.341	.127 - .254	34.29	9.906	2.67 - 3.18	34.52	22.56	.127 - .254	34.70	17.53	1.98 - 2.67
33.53	14.02	2.54 - 3.05	33.78	9.779	.127 - .254	34.04	16.00	.508 - 1.02	34.29	11.20	.254 - .508	34.52	26.04	2.54 - 3.18	34.70	19.30	.508 - .762
33.53	18.16	.127 - .254	33.78	9.931	3.96 - 4.83	34.04	16.05	.254 - .508	34.29	11.61	.127 - .254	34.52	26.11	2.54 - 3.18	34.70	19.33	.127 - .254
33.53	19.13	.127 - .254	33.78	18.90	.762 - 1.52	34.04	17.20	1.07 - 1.83	34.29	12.70	.127 - .508	34.52	28.60	1.52 - 2.03	34.70	19.38	.127 - .254
33.53	19.25	2.03 - 2.64	33.78	21.62	1.02 - 1.52	34.04	18.44	2.67 - 3.05	34.29	12.78	.127 - .635	34.54	5.182	1.27 - 1.91	34.70	22.43	2.03 - 2.54
33.53	19.33	.381 - 1.52	33.78	23.11	.635 - 1.02	34.04	19.08	1.14 - 1.52	34.29	12.80	.152 - .508	34.54	8.585	.127 - .254	34.70	22.66	.127 - .508
33.53	19.43	.127 - .254	33.78	27.94	.762 - 1.27	34.04	19.46	1.07 - 1.57	34.29	12.83	.152 - .381	34.54	8.738	1.27 - 1.78	34.70	25.32	.635 - 1.02
33.53	21.56	.127 - .254	33.81	16.13	1.78 - 2.29	34.04	25.40	2.67 - 3.18	34.29	12.90	.127 - .508	34.54	15.98	.254 - .508	34.70	26.11	1.78 - 2.29
33.53	22.02	.127 - .254	33.81	19.71	1.27 - 1.78	34.04	25.50	1.07 - 1.52	34.29	14.27	.127 - .254	34.54	16.23	.381 - .762	34.70	26.16	1.27 - 1.91
33.53	22.35	.127 - .254	33.81	23.11	.127 - .254	34.04	26.26	.127 - .254	34.29	14.33	.254 - .508	34.54	16.66	2.54 - 3.18	34.70	27.18	.762 - 2.67
33.53	23.65	.508 - .889	33.81	28.52	.127 - .254	34.04	28.04	1.78 - 2.03	34.29	15.90	.127 - .508	34.54	20.09	2.29 - 2.67	34.70	28.78	1.27 - 1.78
33.53	25.40	2.29 - 3.18	33.81	28.65	.254 - .508	34.04	28.40	1.27 - 2.11	34.29	16.10	.508 - 1.02	34.54	22.30	1.27 - 1.78	34.70	28.96	.508 - .762
33.53	26.01	.381 - .762	33.83	19.56	3.18 - 3.96	34.04	29.03	.127 - .508	34.29	16.99	2.29 - 2.79	34.54	23.57	2.03 - 2.67	34.70	29.06	.127 - .254
33.53	28.70	1.02 - 1.27	33.86	10.08	1.02 - 1.52	34.06	12.17	.127 - .254	34.29	17.15	.127 - .254	34.54	25.04	1.52 - 2.03	34.70	29.29	.254 - .508
33.55	19.81	1.27 - 1.78	33.86	24.13	.127 - .254	34.06	13.64	2.67 - 3.43	34.29	17.78	.762 - 1.52	34.54	25.48	.127 - .254	34.70	31.01	.127 - .254
33.55	20.42	.127 - .254	33.88	6.071	.381 - .762	34.06	22.12	.254 - .508	34.29	19.05	.127 - .762	34.54	26.06	1.27 - 1.91	34.72	19.25	1.78 - 2.29
33.58	19.25	2.03 - 2.64	33.88	8.255	.127 - .254	34.06	22.68	1.02 - 1.52	34.29	19.08	.127 - .254	34.54	26.92	2.29 - 2.67	34.72	19.30	2.79 - 3.30
33.58	29.85	1.02 - 1.52	33.88	19.58	.254 - .508	34.09	9.652	3.05 - 3.96	34.29	19.30	.127 - 1.02	34.54	28.65	.381 - .889	34.72	19.38	2.79 - 3.30
33.60	5.385	.127 - .254	33.88	22.50	2.67 - 3.18	34.09	11.61	2.54 - 3.18	34.29	19.74	.635 - 1.02	34.54	29.11	.762 - 1.52	34.72	22.45	2.03 - 2.64
33.60	6.198	.508 - 1.02	33.88	23.01	1.52 - 1.91	34.09	22.25	3.18 - 3.96	34.29	19.79	1.02 - 1.52	34.57	5.563	1.52 - 2.03	34.72	22.48	1.02 - 1.52
33.60	8.915	.127 - .381	33.91	9.652	.508 - .889	34.09	23.42	1.02 - 1.52	34.29	20.80	1.27 - 1.78	34.57	22.23	1.91 - 3.18	34.72	23.14	.254 - .508
33.60	10.01	.381 - .762	33.91	16.05	.889 - 1.52	34.09	25.78	.127 - .254	34.29	21.84	.381 - .762	34.57	22.45	1.91 - 2.54	34.72	25.65	1.02 - 1.52
33.60	14.00	1.27 - 1.78	33.91	16.51	1.27 - 1.78	34.11	16.00	.635 - 1.02	34.29	21.92	.127 - .762	34.57	22.61	1.27 - 1.91	34.72	26.16	1.52 - 2.03
33.60	16.26	1.52 - 1.91	33.91	23.01	.508 - .762	34.11	22.12	1.27 - 1.91	34.29	22.99	1.27 - 1.78	34.57	26.21	.127 - .254	34.72	27.10	1.02 - 1.52
33.60	16.92	2.54 - 3.18	33.91	28.09	1.57 - 2.03	34.11	23.04	1.07 - 1.57	34.29	23.11	.381 - .762	34.59	5.842	.127 - .254	34.72	28.24	.635 - 1.02
33.60	25.43	.381 - .762	33.91	28.73	1.27 - 1.91	34.11	27.94	2.03 - 2.67	34.29	24.82	.914 - 1.22	34.59	11.15	.381 - .762	34.72	29.29	.508 - .762
33.60	27.00	1.27 - 1.78	33.91	28.80	.127 - .254	34.11	28.60	.762 - 1.27	34.29	24.84	.254 - .508	34.59	13.34	.254 - .508	34.72	29.97	.127 - .381
33.60	30.33	.508 - 1.02	33.93	25.50	.127 - .254	34.11	29.21	1.83 - 2.29	34.29	25.40	1.27 - 1.78	34.59	16.28	1.57 - 2.29	34.75	12.65	.127 - .254
33.63	8.128	.254 - .508	33.93	25.55	.762 - 1.27	34.11	32.03	.508 - 1.02	34.29	26.77	.305 - .508	34.59	16.66	2.54 - 3.18	34.75	12.95	1.91 - 2.29
33.63	13.44	2.67 - 3.43	33.93	26.37	2.03 - 2.54	34.14	6.553	2.54 - 3.43	34.29	27.10	.381 - .762	34.59	19.05	.254 - 1.52	34.75	15.14	.762 - 1.27
33.63	17.45	.127 - .762	33.93	28.73	1.02 - 1.57	34.14	6.604	1.52 - 2.29	34.29	28.14	1.27 - 1.78	34.59	19.35	2.54 - 3.18	34.75	16.13	.127 - .254
33.63	20.52	2.67 - 3.18	33.96	8.103	.127 - .254	34.14	9.550	2.54 - 3.05	34.29	28.93	.127 - .254	34.59	25.45	.127 - .635	34.75	20.12	1.02 - 1.52
33.63	25.43	.508 - 1.02	33.96	10.06	.127 - .254	34.14	19.10	2.54 - 3.18	34.29	30.71	.254 - .508	34.59	30.56	.127 - .254	34.75	22.20	1.27 - 1.78
33.66	3.175	.254 - .508	33.96	11.18	1.07 - 1.57	34.14	20.62	1.02 - 1.57	34.32	14.25	.254 - .762	34.59	32.05	.381 - .762	34.75	23.32	2.54 - 3.18
33.66	3.531	1.02 - 1.52	33.96	12.07	.127 - .254	34.14	25.40	.381 - .762	34.32	19.05	.508 - .762	34.62	23.90	1.52 - 2.03	34.75	24.89	1.27 - 1.78
33.66	3.581	.254 - .508	33.96	12.70	2.54 - 3.18	34.14	25.45	1.27 - 1.91	34.32	26.06	1.52 - 2.03	34.62	25.50	.381 - .762	34.75	26.52	.762 - 1.27
33.66	3.988	.254 - .508	33.96	12.75	.127 - .508	34.14	26.67	.127 - .254	34.32	26.64	.254 - .508	34.62	30.23	.762 - 1.27	34.75	27.15	1.78 - 2.29
33.66	4.343	.127 - .381	33.96	18.97	.635 - 1.02	34.14	27.13	.381 - .762	34.32	27.71	.635 - 1.02	34.62	31.72	.381 - .635	34.75	27.23	.762 - 2.03
33.66	4.369	.254 - .508	33.96	19.00	.254 - .508	34.16	8.661	2.29 - 2.67	34.32	29.57	.381 - .762	34.65	10.52	1.78 - 2.29	34.75	27.25	2.03 - 2.29
33.66	5.182	.254 - .508	33.96	21.74	.254 - .508	34.16	10.36	.127 - .254	34.32	30.71	.254 - .508	34.65	12.83	.635 - 1.02	34.75	28.24	.635 - 1.02
33.66	5.537	.254 - .508	33.96	22.45	.127 - .254	34.16	16.79	1.27 - 1.78	34.32	30.78	.254 - .508	34.65	13.69	1.78 - 2.29	34.75	28.27	1.27 - 1.91
33.66	6.375	.254 - .508	33.96	24.00	1.52 - 2.03	34.16	20.78	1.27 - 1.78	34.32	30.84	.127 - .254	34.65	16.87	.127 - .254	34.75	29.82	1.02 - 1.57
33.66	6.858	.254 - .508	33.96	24.99	.127 - 1.02	34.16	21.23	.127 - .254	34.32	31.83	.127 - .254	34.65	16.89	1.78 - 2.29	34.77	7.925	.635 - 1.02
33.66	7.137	1.02 - 1.52	33.96	25.43	1.78 - 2.29	34.16	23.04	1.52 - 2.29	34.34	17.02	4.57 - 4.83	34.65	17.81	1.02 - 1.52	34.77	8.357	.254 - .508
33.66	7.493	2.03 - 2.64	33.96	27.79	.127 - .254	34.16	24.56	2.54 - 3.18	34.34	19.71	1.27 - 1.91	34.65	19.81	3.43 - 3.96	34.77	12.83	1.65 - 2.03
33.66	7.645	3.05 - .635	33.99	6.477	.127 - .254	34.16	25.43	.254 - .508	34.37	25.10	1.91 - 2.29	34.65	20.02	1.78 - 2.29	34.77	17.02	2.29 - 2.67
33.66	8.890	.254 - .508	33.99	6.579	.127 - .254	34.16	26.39	.635 - 1.02	34.37	27.18	1.27 - 1.78	34.65	23.14	1.78 - 2.29	34.77	19.33	.254 - .508
33.66	9.677	.254 - .508	33.99	8.128	.127 - .254	34.16	26.42	.381 - .762	34.39	8.001	.508 - 1.02	34.65	23.16	2.03 - 2.54	34.77	20.40	1.02 - 1.52
33.66	10.41	.254 - .381	33.99	10.01	.127 - .508	34.16	29.79	.381 - .762	34.39	13.67	.127 - .254	34.65	25.45	.203 - .406	34.77	21.13	.127 - .254
33.66	11.18	.254 - 3.40	33.99	10.06	.254 - .508	34.16	29.82	.381 - .635	34.42	6.680	2.29 - 3.05	34.65	25.68	.762 - 1.27	34.77	22.48	.127 - .381
33.66	12.70	.254 - .381	33.99	11.02	2.54 - 3.05	34.19	5.105	1.52 - 2.03	34.42	12.73	2.79 - 3.30	34.65	26.47	2.03 - 2.54	34.77	22.68	3.18 - 3.96
33.66	15.24	.254 - .381	33.99	12.01	.127 - .254	34.19	11.25	.127 - .635	34.42	17.45	.381 - .635	34.65	30.02	.127 - .254	34.77	25.43	.381 - .762
33.66	16.26	.254 - .381	33.99	12.07	.254 - .508	34.21	11.20	.127 - .254	34.42	18.95	.381 - .762	34.65	30.07	.127 - .254	34.77	29.08	2.29 - 2.67
33.66	16.99	1.02 - 1.52	33.99	12.12	.127 - .254	34.21	12.70	.127 - .254	34.42	20.19	2.29 - 2.67	34.65	30.25	.254 - .508	34.77	30.18	.254 - .381
33.66	17.78	.254 - .381	33.99	12.83	.127 - .508	34.21	12.75	.127 - .254	34.42	22.83	1.27 - 1.78	34.65	30.30	1.27 - 1.78	34.77	30.66	.127 - .254
33.66	19.05	.254 - .381	33.99	14.02	.127 - .381	34.21	27.31	.381 - .762	34.42	25.65	1.52 - 2.67	34.65	30.33	.762 - 1.52	34.80	3.658	.762 - 1.27
33.66	20.57	.254 - .508	33.99	14.78	.127 - .254	34.21	28.96	.381 - .762	34.42	27.03	.381 - .762	34.65	31.42	.254 - .635	34.80	4.877	.762 - 1.27
33.66	22.86	1.27 - 1.91	33.99	19.08	2.54 - 3.40	34.24	11.20	.127 - .254	34.42	27.25	.127 - .254	34.65	31.80	.127 - .254	34.80	5.944	2.54 - 3.18
33.66	23.37	.254 - .381	33.99														

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
34.80	25.40	.107 - .157	34.87	19.02	.127 - .254	34.93	8.357	2.67 - 3.40	34.93	29.11	.635 - 1.02	35.00	19.89	1.02 - 1.52	35.26	20.96	.508 - 1.02
34.80	26.82	.127 - .381	34.87	19.05	.127 - .254	34.93	8.712	2.54 - 3.18	34.93	29.31	.127 - .254	35.00	19.99	2.54 - 3.05	35.26	25.81	2.29 - 2.79
34.80	27.05	.127 - .381	34.87	19.43	.254 - .508	34.93	9.017	1.78 - 2.54	34.93	29.44	.127 - .254	35.00	21.79	.813 - 1.27	35.28	12.04	2.03 - 2.67
34.80	28.60	.127 - .254	34.87	19.94	.127 - .254	34.93	9.474	2.54 - 3.18	34.93	30.18	.127 - .254	35.00	21.87	2.03 - 2.54	35.28	26.72	.762 - 1.27
34.80	28.63	1.02 - 1.52	34.87	22.61	.762 - 1.27	34.93	9.525	1.57 - 3.05	34.93	30.20	.762 - 1.27	35.00	21.97	2.54 - 3.18	35.28	27.25	.127 - .254
34.80	28.70	.127 - .508	34.87	23.01	.127 - .508	34.93	9.703	1.27 - 1.91	34.93	30.35	.127 - .635	35.00	22.25	2.29 - 3.18	35.31	9.347	1.52 - 2.11
34.80	28.85	.508 - .762	34.87	23.16	1.02 - 2.29	34.93	9.931	2.29 - 2.67	34.93	30.48	.508 - .813	35.00	22.30	1.52 - 3.05	35.31	10.92	2.03 - 3.40
34.80	29.54	1.02 - 1.52	34.87	25.30	.127 - .254	34.93	10.03	1.57 - 2.03	34.93	30.51	.635 - 1.02	35.00	24.31	2.67 - 3.18	35.31	14.02	.254 - .508
34.80	30.18	1.52 - 1.78	34.87	25.40	.203 - 1.52	34.93	10.67	1.22 - 1.57	34.93	31.78	.254 - .508	35.00	24.99	.254 - .508	35.31	19.81	.127 - .254
34.80	30.45	.127 - .254	34.87	27.81	1.07 - 1.57	34.93	10.72	1.52 - 1.78	34.93	31.83	.127 - .762	35.00	26.92	.127 - .254	35.31	27.79	.127 - .203
34.80	31.62	.254 - .508	34.87	28.60	.508 - 1.02	34.93	11.15	4.32 - 4.83	34.93	32.13	.127 - .254	35.00	26.95	.305 - .508	35.31	29.13	.381 - .762
34.80	31.88	.254 - .381	34.87	30.66	.635 - 1.02	34.93	11.18	1.91 - 2.29	34.95	6.553	.127 - .254	35.00	27.31	.762 - 1.27	35.31	30.15	.381 - .762
34.82	3.759	.127 - .254	34.87	30.71	.762 - 1.52	34.93	11.28	1.27 - 1.78	34.95	6.782	3.40 - 4.75	35.00	29.03	1.27 - 1.78	35.33	22.56	.254 - .889
34.82	5.944	2.29 - 3.18	34.87	30.94	1.02 - 1.52	34.93	11.30	.381 - .762	34.95	9.728	.127 - .381	35.00	30.12	1.52 - 2.03	35.33	24.97	1.02 - 1.52
34.82	7.137	.127 - .254	34.87	31.39	.254 - .508	34.93	11.48	3.96 - 4.75	34.95	10.31	1.27 - 1.91	35.00	30.51	.127 - .254	35.33	26.82	.127 - .254
34.82	13.34	.508 - .762	34.87	31.88	.127 - .508	34.93	12.70	2.54 - 3.18	34.95	12.78	2.29 - 3.18	35.03	5.156	.508 - 1.02	35.36	26.80	2.54 - 3.05
34.82	15.11	.254 - .508	34.87	39.937	.127 - .254	34.93	12.75	.127 - 1.52	34.95	13.03	.127 - .254	35.03	11.51	.254 - 1.02	35.38	15.52	1.52 - 2.03
34.82	15.93	1.27 - 1.91	34.90	4.826	1.52 - 2.03	34.93	12.83	.762 - 1.27	34.95	13.46	3.96 - 4.75	35.03	12.95	1.78 - 2.03	35.38	18.26	2.03 - 2.64
34.82	16.28	2.67 - 3.18	34.90	6.223	1.27 - 1.78	34.93	13.08	1.52 - 2.03	34.95	13.56	.254 - .508	35.03	14.33	.127 - .254	35.38	32.54	.127 - .254
34.82	16.54	.762 - 1.27	34.90	6.375	4.06 - 4.57	34.93	13.36	1.78 - 2.29	34.95	15.75	.127 - .254	35.03	15.21	.381 - .762	35.41	16.61	.127 - .254
34.82	17.73	1.02 - 1.57	34.90	6.426	2.11 - 2.64	34.93	13.46	.127 - 1.91	34.95	16.51	2.54 - 3.18	35.03	19.99	1.78 - 2.29	35.41	18.39	1.78 - 2.29
34.82	19.28	2.54 - 3.18	34.90	8.077	1.27 - 1.52	34.93	14.12	.127 - 1.52	34.95	16.69	.127 - .254	35.03	20.62	.127 - .254	35.43	3.353	.635 - .889
34.82	19.30	.127 - .254	34.90	8.661	2.29 - 2.79	34.93	14.22	.127 - .254	34.95	17.78	.254 - .508	35.03	21.21	.127 - .254	35.43	10.67	2.67 - 3.18
34.82	20.83	.203 - 1.02	34.90	9.601	1.27 - 1.78	34.93	14.30	3.05 - 3.43	34.95	17.86	.127 - .254	35.03	27.15	2.29 - 3.05	35.43	13.97	1.27 - 2.11
34.82	22.50	.127 - .635	34.90	9.881	1.52 - 1.78	34.93	14.33	.254 - .508	34.95	19.30	1.52 - 3.56	35.03	27.31	.381 - .635	35.43	29.39	1.02 - 1.52
34.82	25.40	3.05 - 3.43	34.90	13.16	3.40 - 4.75	34.93	14.50	1.52 - 1.78	34.95	19.33	2.29 - 2.67	35.03	27.66	.762 - 1.27	35.46	14.30	1.52 - 2.03
34.82	25.91	.127 - .254	34.90	14.27	.381 - .635	34.93	14.99	2.67 - 3.18	34.95	19.43	2.29 - 2.67	35.05	6.452	1.02 - 1.52	35.46	15.52	2.67 - 3.18
34.82	27.25	.127 - .254	34.90	14.30	.127 - .254	34.93	15.72	.508 - 1.02	34.95	19.81	2.79 - 3.30	35.05	7.163	1.57 - 4.83	35.46	30.23	.381 - .635
34.82	27.99	.127 - .254	34.90	14.43	.127 - .254	34.93	16.00	.127 - .178	34.95	20.70	1.52 - 2.03	35.05	7.620	.127 - .203	35.46	30.99	.254 - .508
34.82	28.52	.508 - 1.02	34.90	14.61	2.29 - 2.79	34.93	16.10	.127 - .254	34.95	21.51	.127 - .254	35.05	8.611	.127 - .254	35.48	9.677	2.92 - 3.30
34.82	28.91	1.78 - 2.29	34.90	14.66	.508 - 1.07	34.93	16.28	3.99 - 4.75	34.95	22.94	.635 - 1.02	35.05	8.788	3.05 - 3.40	35.48	10.64	1.52 - 3.18
34.82	29.92	1.78 - 2.29	34.90	16.28	1.27 - 1.78	34.93	16.36	.127 - .254	34.95	23.01	.762 - 1.52	35.05	10.11	.127 - .254	35.48	13.84	.127 - .254
34.82	30.48	.254 - .508	34.90	17.78	3.96 - 4.75	34.93	16.66	1.02 - 1.57	34.95	24.99	.762 - 1.27	35.05	10.29	2.54 - 3.18	35.48	17.91	1.52 - 2.29
34.82	30.78	.127 - .381	34.90	17.81	.127 - .254	34.93	17.78	3.05 - 3.43	34.95	25.48	.254 - .508	35.05	15.14	2.54 - 3.18	35.48	18.03	1.27 - 1.91
34.85	3.581	1.78 - 2.29	34.90	18.03	.127 - .254	34.93	18.01	1.27 - 1.78	34.95	25.81	1.27 - 1.78	35.05	17.63	3.05 - 3.43	35.48	20.70	.127 - .508
34.85	4.851	1.78 - 2.29	34.90	18.21	.127 - .254	34.93	18.26	.254 - .508	34.95	25.96	.127 - .254	35.05	19.10	.508 - .762	35.48	24.92	.381 - .762
34.85	9.601	.762 - 1.27	34.90	19.05	2.54 - 3.18	34.93	19.05	.508 - 1.27	34.95	28.83	2.03 - 2.67	35.05	22.35	.508 - 1.02	35.48	27.13	.127 - .762
34.85	14.33	2.03 - 3.18	34.90	19.20	.508 - .762	34.93	19.08	1.27 - 1.52	34.95	29.39	.254 - .508	35.05	22.89	.127 - 1.52	35.48	30.51	.508 - 1.02
34.85	16.18	.508 - .813	34.90	19.35	1.78 - 2.29	34.93	19.13	2.54 - 3.18	34.95	31.12	.635 - 1.02	35.05	22.91	2.03 - 2.54	35.51	12.83	.127 - .381
34.85	17.53	.254 - .762	34.90	19.56	1.02 - 1.52	34.93	19.15	1.52 - 2.03	34.95	31.67	.127 - .254	35.05	25.50	.127 - .254	35.51	18.21	.127 - .254
34.85	18.54	2.67 - 4.75	34.90	20.32	.254 - .508	34.93	19.23	2.29 - 2.79	34.98	6.833	1.02 - 1.52	35.05	25.63	2.67 - 3.18	35.51	22.15	.635 - 1.02
34.85	19.05	.508 - .813	34.90	20.50	2.29 - 2.54	34.93	19.25	1.22 - 1.57	34.98	8.077	2.54 - 3.18	35.05	25.93	1.27 - 1.91	35.51	23.01	.762 - 1.27
34.85	20.62	.508 - .813	34.90	20.96	1.02 - 1.52	34.93	19.35	.127 - .254	34.98	8.534	1.91 - 2.29	35.05	28.07	.127 - .254	35.51	29.46	.254 - .508
34.85	22.63	1.78 - 2.29	34.90	21.06	.254 - .508	34.93	19.38	3.96 - 4.75	34.98	8.788	2.54 - 3.18	35.05	29.97	.127 - .254	35.51	29.49	.762 - 1.27
34.85	23.06	1.27 - 1.91	34.90	22.35	.635 - 1.02	34.93	19.56	.127 - .254	34.98	9.550	2.67 - 3.18	35.05	30.12	2.03 - 2.54	35.53	9.576	.127 - .508
34.85	23.88	.762 - 1.27	34.90	22.38	2.79 - 3.43	34.93	19.86	3.96 - 4.75	34.98	9.576	2.03 - 2.67	35.05	31.83	.127 - .254	35.53	13.31	.127 - 1.52
34.85	24.08	.127 - .254	34.90	22.45	.635 - 1.02	34.93	20.40	2.29 - 2.54	34.98	9.728	.127 - .254	35.08	14.25	2.03 - 2.54	35.53	16.61	.254 - .508
34.85	24.10	2.29 - 3.18	34.90	22.89	.762 - 1.27	34.93	20.62	.127 - 3.05	34.98	9.754	.762 - 1.27	35.08	17.50	1.27 - 1.78	35.53	18.26	.254 - 1.52
34.85	24.71	.127 - .381	34.90	22.99	.254 - .508	34.93	20.93	.127 - .508	34.98	12.83	.127 - .508	35.08	30.48	.635 - 1.02	35.53	22.61	.635 - 1.02
34.85	24.97	.635 - 1.02	34.90	23.16	.254 - .635	34.93	21.01	2.67 - 3.43	34.98	13.08	1.27 - 1.91	35.10	13.77	.254 - .762	35.53	23.01	.127 - 1.78
34.85	25.48	1.02 - 1.52	34.90	23.93	1.27 - 1.78	34.93	21.06	1.22 - 1.91	34.98	13.13	1.52 - 2.03	35.10	13.79	1.02 - 1.78	35.53	29.46	.762 - 1.27
34.85	25.68	2.67 - 3.05	34.90	25.37	.635 - 1.02	34.93	21.84	.152 - 2.54	34.98	13.49	2.54 - 3.18	35.10	16.08	.508 - .762	35.53	30.56	.127 - .254
34.85	27.05	.305 - .635	34.90	25.68	2.29 - 3.05	34.93	22.23	2.54 - 3.18	34.98	19.15	1.52 - 2.03	35.10	27.76	.127 - .254	35.56	3.556	.508 - 1.02
34.85	28.83	1.27 - 1.78	34.90	26.64	.127 - .254	34.93	22.25	.813 - 1.22	34.98	19.20	1.27 - 1.91	35.10	28.88	1.52 - 2.03	35.56	6.833	1.27 - 1.78
34.85	29.08	1.27 - 2.67	34.90	26.90	.762 - 1.27	34.93	22.28	.127 - .508	34.98	20.07	.508 - 1.02	35.10	28.91	.127 - .254	35.56	9.627	2.03 - 2.54
34.85	29.29	.762 - 1.27	34.90	27.38	.254 - .508	34.93	22.30	2.29 - 3.05	34.98	21.84	.127 - .254	35.10	30.28	.508 - 1.02	35.56	9.652	2.67 - 3.18
34.85	30.20	.762 - 1.27	34.90	28.58	1.27 - 1.91	34.93	22.43	2.54 - .508	34.98	22.73	.813 - 1.22	35.13	15.98	2.29 - 3.18	35.56	12.70	1.02 - 1.52
34.85	30.25	.127 - .254	34.90	28.65	.254 - .508	34.93	23.42	.381 - .762	34.98	24.97	1.52 - 2.03	35.13	25.40	.762 - 1.27	35.56	12.78	.127 - .381
34.85																	

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
35.59	25.04	1.14 - 1.52	35.94	9.703	1.02 - 1.57	36.07	17.53	1.27 - 1.78	36.35	28.68	.254 - .508	36.50	22.50	1.27 - 1.91	36.70	8.179	1.52 - 2.29
35.59	27.99	.254 - .508	35.94	10.06	.127 - .508	36.07	19.10	1.203 - 2.54	36.35	31.83	1.52 - 2.03	36.50	22.73	1.02 - 1.52	36.70	8.890	.813 - 1.52
35.59	29.69	.254 - .508	35.94	10.11	.127 - .254	36.07	21.67	1.27 - 1.52	36.37	23.77	2.29 - 2.67	36.50	24.13	1.27 - 1.78	36.70	17.53	2.29 - 3.05
35.59	30.12	.381 - .635	35.94	12.12	.127 - .254	36.07	25.50	.127 - .254	36.37	25.27	2.54 - 3.18	36.50	25.40	.762 - 1.02	36.70	23.72	1.27 - 1.52
35.59	31.95	.127 - .762	35.94	13.23	.508 - .762	36.07	25.53	.254 - .508	36.37	26.54	.762 - 1.27	36.50	25.43	3.96 - 4.75	36.70	26.52	1.14 - 1.52
35.59	32.89	.127 - .254	35.94	14.40	.254 - .635	36.07	27.94	.127 - .254	36.37	27.79	1.27 - 1.52	36.50	25.60	1.91 - 2.64	36.73	4.547	.127 - .254
35.61	7.493	.762 - 1.27	35.94	22.76	1.52 - 1.78	36.07	28.88	1.27 - 1.78	36.37	28.93	1.02 - 1.52	36.50	26.19	1.27 - 1.78	36.73	6.096	2.29 - 3.05
35.61	12.80	.127 - .254	35.94	25.40	.127 - .254	36.07	30.45	2.03 - 2.54	36.37	29.46	.508 - 1.57	36.50	27.76	.889 - 1.22	36.73	6.350	1.27 - 1.78
35.61	12.83	.203 - .381	35.94	26.52	.381 - .762	36.07	31.80	.762 - 1.27	36.40	8.026	.127 - .254	36.50	28.02	2.03 - 2.54	36.73	6.426	2.67 - 3.43
35.61	12.93	2.67 - 3.43	35.94	27.94	.254 - .508	36.07	32.26	.254 - .508	36.40	12.95	.203 - .762	36.50	28.52	.127 - .762	36.73	6.452	2.54 - 3.18
35.61	13.16	.127 - .203	35.94	28.50	.762 - 1.07	36.07	32.28	.813 - 1.27	36.40	14.30	.127 - .254	36.50	28.75	.762 - 1.27	36.73	8.001	2.54 - 3.18
35.61	19.30	.127 - .381	35.94	28.60	.127 - .254	36.07	32.51	.762 - 1.27	36.40	19.30	1.02 - 1.52	36.50	29.77	.127 - .254	36.73	8.077	2.67 - 3.18
35.61	31.09	1.27 - 1.78	35.97	4.293	.762 - 1.27	36.09	12.57	2.03 - 2.54	36.40	26.39	.127 - .254	36.50	30.10	.381 - 1.78	36.73	26.97	.127 - .381
35.61	34.06	.381 - .762	35.97	8.230	3.43 - 3.96	36.09	13.16	2.29 - 3.05	36.40	26.67	1.02 - 1.52	36.50	30.51	1.52 - 2.03	36.75	10.31	2.54 - 3.18
35.64	6.350	1.07 - 1.91	35.97	12.01	.127 - .254	36.09	30.12	2.54 - 3.05	36.40	27.81	.508 - .762	36.50	31.75	.127 - .254	36.75	15.14	.127 - .254
35.64	10.92	2.54 - 3.18	35.97	12.04	.508 - .762	36.09	30.23	.254 - .508	36.40	34.29	.254 - .508	36.50	32.54	.635 - 1.02	36.75	21.26	2.54 - 3.18
35.64	17.07	2.79 - 3.30	35.97	12.75	.127 - .762	36.12	10.36	.127 - .508	36.42	9.169	.127 - .254	36.53	6.553	2.67 - 3.18	36.75	27.03	2.03 - 2.54
35.64	25.96	.254 - .508	35.97	12.83	.127 - .508	36.12	17.70	1.65 - 2.03	36.42	19.08	2.54 - 3.18	36.53	7.137	3.05 - 3.43	36.75	28.85	2.67 - 3.18
35.66	3.251	1.27 - 1.78	35.97	14.40	.127 - .254	36.12	22.35	1.52 - 2.29	36.42	22.17	3.05 - 3.43	36.53	8.763	1.02 - 1.52	36.75	30.56	.813 - 1.52
35.66	12.90	2.29 - 3.05	35.97	14.99	4.06 - 4.83	36.12	24.00	2.29 - 2.67	36.42	23.77	2.29 - 3.05	36.53	9.576	.254 - .762	36.78	3.175	.762 - 1.27
35.66	30.38	.508 - 1.02	35.97	15.98	.127 - .254	36.12	26.87	1.07 - 1.52	36.42	28.58	.381 - .762	36.53	14.27	.127 - .254	36.78	9.906	1.02 - 1.27
35.69	15.49	.254 - .508	35.97	16.13	1.27 - 1.78	36.14	3.962	.762 - 1.27	36.42	33.40	.254 - .508	36.53	16.99	.508 - .762	36.78	11.20	.254 - .508
35.69	16.00	.127 - .254	35.97	18.01	1.02 - 1.52	36.14	3.988	2.03 - 2.64	36.45	5.258	2.54 - 3.18	36.53	17.32	1.52 - 2.03	36.78	14.61	1.27 - 1.78
35.69	25.60	.381 - .762	35.97	20.14	.127 - .254	36.14	21.95	.508 - 1.02	36.45	6.858	.127 - .254	36.53	19.08	2.54 - 3.18	36.78	16.00	.127 - .254
35.69	32.13	.127 - .254	35.97	26.16	2.54 - 3.05	36.14	22.35	.254 - .508	36.45	8.026	.381 - .762	36.53	19.43	.127 - .254	36.78	26.19	1.91 - 2.29
35.71	3.531	.762 - 1.22	35.97	26.39	1.02 - 1.52	36.14	22.40	.127 - .762	36.45	9.576	.127 - .254	36.53	20.60	3.18 - 3.96	36.78	26.72	.762 - 1.27
35.71	9.906	.127 - .254	35.97	28.22	.127 - .762	36.14	25.40	.787 - 1.07	36.45	9.627	.508 - 1.02	36.53	22.38	2.03 - 2.54	36.78	26.75	1.02 - 1.52
35.71	25.65	1.52 - 1.78	35.97	28.98	1.02 - 1.52	36.14	32.72	.127 - .254	36.45	12.70	.127 - .254	36.53	23.83	1.02 - 1.52	36.78	26.85	.127 - .254
35.71	27.71	.635 - 1.02	35.97	31.14	.635 - 1.02	36.14	32.74	.254 - .762	36.45	14.30	.254 - .508	36.53	25.35	.127 - .254	36.78	27.71	.254 - .508
35.71	31.72	.508 - .762	35.97	33.99	.254 - .508	36.17	11.18	1.52 - 1.78	36.45	16.89	.127 - .254	36.53	26.39	.762 - 1.27	36.78	28.60	2.29 - 2.67
35.74	7.366	.635 - 1.02	35.99	3.175	.254 - .508	36.17	12.83	.127 - .254	36.45	19.05	.508 - .762	36.53	27.05	.914 - 1.27	36.78	30.23	2.03 - 2.54
35.74	9.906	.127 - .762	35.99	10.49	1.52 - 2.03	36.17	12.85	.254 - .508	36.45	22.23	.127 - .254	36.53	27.94	1.27 - 1.78	36.78	30.30	1.27 - 1.78
35.74	15.85	.127 - .254	35.99	12.04	.254 - .508	36.20	8.026	.381 - .762	36.45	27.48	1.78 - 2.29	36.53	29.21	.127 - .254	36.80	13.26	2.67 - 3.18
35.74	16.10	1.52 - 2.29	35.99	12.98	2.67 - 3.18	36.20	9.576	.127 - .508	36.45	28.12	.508 - 1.02	36.53	29.74	.635 - 1.02	36.80	15.98	.254 - .508
35.74	17.91	.127 - .254	35.99	13.18	2.03 - 2.64	36.20	11.13	.254 - .508	36.45	30.28	1.02 - 1.52	36.53	30.18	.508 - 1.02	36.80	24.54	1.02 - 1.52
35.74	28.24	.381 - .762	35.99	13.92	1.27 - 1.78	36.20	11.18	1.78 - 2.29	36.45	31.93	.127 - .254	36.53	30.23	.381 - .762	36.80	25.15	.254 - .508
35.74	28.58	.127 - .254	35.99	14.73	1.91 - 2.29	36.20	12.75	.127 - .508	36.45	33.40	.254 - .508	36.55	2.921	.508 - 1.02	36.80	26.11	1.14 - 1.52
35.74	30.18	.508 - .762	35.99	16.05	.127 - .254	36.20	12.80	.127 - .508	36.47	3.175	.203 - .406	36.55	11.84	.127 - .254	36.80	26.85	1.02 - 1.52
35.74	30.35	.127 - .254	35.99	20.96	1.27 - 1.78	36.20	12.83	.254 - .508	36.47	4.953	.635 - 1.27	36.55	13.08	3.18 - 3.43	36.80	30.43	.127 - .254
35.74	31.80	.127 - .254	35.99	23.16	3.43 - 4.75	36.20	13.08	.127 - .254	36.47	9.576	.254 - 1.02	36.55	16.15	.381 - .762	36.80	33.58	.254 - .508
35.76	22.91	.813 - 1.27	35.99	24.97	1.52 - 2.03	36.20	29.34	.127 - .254	36.47	9.728	.254 - 1.02	36.55	19.23	1.02 - 1.52	36.83	3.988	.508 - .889
35.76	25.50	.127 - .254	35.99	25.32	1.27 - 1.78	36.20	29.49	1.02 - 1.27	36.47	12.80	1.27 - 1.91	36.55	20.60	1.02 - 1.52	36.83	5.105	.635 - 1.02
35.76	31.90	1.02 - 1.52	35.99	25.55	.762 - 1.02	36.20	30.18	.254 - .508	36.47	14.10	.127 - .254	36.55	20.62	.127 - .508	36.83	5.283	1.27 - 1.91
35.76	32.64	.762 - 1.27	35.99	26.19	1.27 - 1.52	36.20	31.78	1.52 - 1.91	36.47	14.30	.381 - .762	36.55	28.58	1.78 - 2.16	36.83	5.588	.508 - .762
35.76	33.83	.127 - .254	35.99	27.18	.508 - 1.02	36.22	22.56	.127 - .508	36.47	16.33	.127 - .254	36.55	32.13	.381 - .762	36.83	6.655	.508 - .762
35.79	12.75	.127 - .254	35.99	30.02	1.27 - 1.78	36.22	26.80	.127 - .254	36.47	22.50	.203 - .305	36.58	5.969	.508 - .889	36.83	7.163	1.02 - 1.52
35.79	12.78	.127 - .254	36.02	5.182	1.02 - 1.52	36.22	27.94	.127 - .254	36.47	23.88	.127 - .254	36.58	6.350	1.52 - 1.78	36.83	9.652	.127 - .508
35.79	19.46	.381 - 1.78	36.02	8.179	.254 - .508	36.22	28.19	.127 - .254	36.47	25.43	1.27 - 1.91	36.58	8.433	.127 - .254	36.83	11.20	.127 - .254
35.79	30.15	.127 - .254	36.02	9.525	1.78 - 2.29	36.22	30.18	.635 - 1.02	36.47	28.80	.762 - 1.27	36.58	9.525	2.29 - 3.05	36.83	11.28	.254 - .508
35.79	30.20	1.27 - 1.52	36.02	12.01	.127 - .254	36.22	32.03	.127 - .508	36.47	29.31	.381 - .635	36.58	9.957	.127 - .254	36.83	11.43	.127 - .254
35.79	33.86	.127 - .254	36.02	12.04	.254 - .508	36.22	32.79	.127 - .381	36.47	30.35	.813 - 1.27	36.58	10.03	.127 - .254	36.83	13.49	2.03 - 2.54
35.81	6.731	1.52 - 2.03	36.02	12.12	.127 - .254	36.25	6.350	1.27 - 1.91	36.47	30.43	.127 - .254	36.58	11.13	1.02 - 1.52	36.83	15.90	.254 - .508
35.81	12.70	.381 - .762	36.02	12.14	2.54 - 3.05	36.25	28.98	1.52 - 1.78	36.47	31.75	1.02 - 1.52	36.58	12.80	.127 - .508	36.83	16.00	.127 - .254
35.81	16.76	.381 - .762	36.02	12.80	.127 - .254	36.25	30.94	.508 - 1.02	36.47	32.13	.508 - .762	36.58	15.49	.127 - .254	36.83	16.51	1.27 - 1.57
35.81	17.53	2.67 - 3.43	36.02	12.83	.254 - .508	36.25	31.83	1.91 - 2.36	36.47	33.53	.127 - .254	36.58	19.35	.127 - .254	36.83	19.30	.762 - 1.52
35.81	21.72	.762 - 1.27	36.02	20.50	2.03 - 2.64	36.25	31.93	.635 - 1.02	36.50	4.724	.254 - .508	36.58	22.63	.381 - .635	36.83	21.08	.508 - 1.02
35.81	22.78	1.52 - 2.29	36.02	22.35	.254 - .508	36.27	25.76	1.52 - 2.03	36.50	5.232	.635 - 3.18	36.58	25.78	.508 - 1.02	36.83	24.18	1.02 - 1.52
35.81	26.16	.508 - 1.02	36.02	22.50	.762 - 1.27	36.27	27.08	.381 - .813	36.50	7.544	1.78 - 2.29	36.58	27.18	.508 - .762	36.83	25.88	2.67 - 3.43
35.81	28.19	.762 - 1.27	36.02	22.53	.127 - .												

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
36.96	16.18	.102 - .127	37.34	5.156	.254 - .508	37.64	19.66	3.05 - 3.43	37.87	1.600	.127 - .254	37.97	35.56	.508 - 1.02	38.05	9.906	2.67 - 3.30
36.96	16.21	2.16 - 2.54	37.34	15.49	2.54 - 3.18	37.64	22.40	.508 - 1.02	37.87	22.23	2.54 - 3.18	38.00	6.350	.762 - 1.27	38.05	10.16	4.32 - 4.83
36.96	19.15	.127 - .254	37.34	19.10	.127 - .254	37.64	22.45	.508 - 1.02	37.87	25.25	2.67 - 3.05	38.00	6.502	.127 - .254	38.05	10.31	1.27 - 3.18
36.96	25.40	.381 - .762	37.34	19.86	2.54 - 3.18	37.64	31.04	1.27 - 1.78	37.87	25.43	.127 - .254	38.00	7.518	.254 - .508	38.05	10.46	.127 - .254
36.96	27.05	1.02 - 1.52	37.34	20.83	.254 - .508	37.67	19.18	2.67 - 3.18	37.87	27.00	2.03 - 2.54	38.00	11.13	1.02 - 1.52	38.05	12.70	.127 - .381
36.96	27.97	1.02 - 1.27	37.34	21.16	2.54 - 3.96	37.69	3.353	.381 - .762	37.87	30.73	.254 - .508	38.00	12.01	.127 - .508	38.05	12.75	.127 - .254
36.98	8.001	.508 - .762	37.34	26.97	1.22 - 1.91	37.69	6.401	3.96 - 4.75	37.87	33.32	.127 - .254	38.00	12.04	.127 - .254	38.05	13.23	.381 - .635
36.98	20.98	2.67 - 3.43	37.34	27.79	.381 - .762	37.69	22.40	1.02 - 1.52	37.90	10.01	.127 - .254	38.00	13.00	4.32 - 4.83	38.05	15.42	.127 - .254
36.98	27.08	.762 - 1.27	37.34	28.22	1.02 - 1.27	37.69	22.58	1.27 - 1.78	37.90	20.40	.406 - .635	38.00	15.75	.381 - 1.27	38.05	15.88	1.02 - 1.52
36.98	27.48	.381 - .762	37.34	29.21	.635 - 1.07	37.69	27.18	.127 - .254	37.90	22.50	.508 - .813	38.00	15.88	1.27 - 2.03	38.05	17.45	.762 - 3.18
37.01	12.75	.127 - .254	37.34	31.14	1.02 - 1.52	37.69	28.70	.508 - .762	37.90	25.68	.508 - 1.02	38.00	16.00	.127 - 1.91	38.05	17.48	2.67 - 3.18
37.01	12.83	.127 - .508	37.34	34.93	.127 - .254	37.69	31.75	2.67 - 3.18	37.90	26.97	2.54 - 3.18	38.00	18.29	.254 - .508	38.05	17.53	2.54 - 3.18
37.01	17.15	1.27 - 1.78	37.36	17.48	1.57 - 2.03	37.69	35.10	.508 - .762	37.90	28.40	.127 - 2.54	38.00	19.35	.127 - .254	38.05	19.15	.508 - .762
37.01	25.96	.127 - .254	37.36	19.25	2.29 - 3.05	37.72	11.99	2.03 - 2.64	37.90	28.70	.381 - .762	38.00	19.48	.254 - .508	38.05	19.23	1.02 - 1.52
37.01	30.48	.381 - .635	37.36	19.28	2.54 - 3.18	37.72	13.21	1.52 - 2.03	37.92	11.00	2.67 - 3.18	38.00	19.89	2.54 - 3.18	38.05	19.58	.127 - 1.22
37.01	32.89	.508 - .762	37.36	20.57	1.27 - 1.78	37.72	13.97	2.54 - 3.18	37.92	19.00	.381 - .762	38.00	22.86	.127 - .254	38.05	20.80	.127 - .254
37.03	17.02	2.54 - 3.05	37.36	20.85	1.45 - 2.24	37.72	16.41	.127 - .254	37.92	19.25	.813 - 1.52	38.00	24.03	.127 - .254	38.05	20.96	.127 - .254
37.03	22.17	.762 - 1.27	37.36	22.28	2.54 - 3.18	37.72	16.51	2.54 - 3.18	37.92	19.71	.508 - .762	38.00	25.25	.254 - .508	38.05	21.44	2.54 - 3.18
37.03	24.99	.127 - .254	37.36	23.83	2.67 - 3.18	37.72	16.76	2.67 - 3.05	37.92	20.57	.127 - .254	38.00	25.48	1.02 - 1.52	38.05	22.02	.127 - .254
37.03	28.55	1.07 - 1.57	37.36	33.81	.127 - 1.02	37.72	17.12	1.27 - 1.78	37.92	25.60	1.27 - 1.78	38.00	25.58	.127 - .254	38.05	22.91	.635 - 1.02
37.06	6.071	.381 - .762	37.39	11.13	.381 - .762	37.72	20.17	.127 - .254	37.92	26.97	.762 - 1.27	38.00	25.76	1.52 - 2.03	38.05	24.87	1.27 - 1.78
37.06	16.00	.127 - .254	37.39	12.73	.127 - .254	37.72	21.49	.127 - .508	37.92	28.85	.254 - .635	38.00	25.83	1.27 - 1.91	38.05	25.32	.762 - 1.27
37.06	21.36	1.02 - 1.27	37.39	19.35	.254 - .508	37.72	22.89	3.40 - 3.96	37.92	30.25	.762 - 1.27	38.00	26.92	.127 - .254	38.05	25.40	1.52 - 2.03
37.06	24.16	.762 - 1.27	37.39	19.43	2.03 - 2.54	37.72	23.34	.762 - 1.02	37.92	31.22	.127 - .254	38.00	27.08	.127 - .254	38.05	25.76	2.54 - 3.18
37.06	29.03	.381 - .762	37.39	21.06	.254 - .508	37.72	24.64	.813 - 1.07	37.92	31.55	.127 - .254	38.00	28.30	.254 - .508	38.05	25.78	.127 - .381
37.06	30.20	.381 - .762	37.39	25.43	1.78 - 2.29	37.72	28.14	1.27 - 1.78	37.92	31.98	.254 - .508	38.00	29.51	.127 - .254	38.05	25.93	.127 - .254
37.08	4.572	.889 - 1.27	37.39	31.24	2.29 - 3.18	37.72	31.06	.381 - .762	37.92	32.33	1.52 - 1.78	38.00	30.00	.254 - .508	38.05	26.21	.508 - 1.02
37.08	12.70	.635 - 1.02	37.41	3.302	1.07 - 1.57	37.72	31.75	.127 - .305	37.92	32.99	.127 - .254	38.00	30.20	.127 - .254	38.05	26.24	.127 - .254
37.08	14.45	1.27 - 1.78	37.41	15.47	.254 - .762	37.72	34.47	.381 - .635	37.92	33.38	.127 - .254	38.00	31.01	1.02 - 1.52	38.05	26.42	2.67 - 3.43
37.08	16.94	1.27 - 1.78	37.44	8.077	.254 - .508	37.74	16.51	2.54 - 3.18	37.95	6.883	.381 - .762	38.00	31.62	.508 - 1.02	38.05	27.05	.127 - .305
37.08	19.33	.254 - .508	37.44	25.65	1.02 - 1.52	37.74	20.40	.127 - .254	37.95	8.382	.127 - .508	38.00	31.83	1.27 - 1.78	38.05	27.08	.762 - 1.27
37.08	24.13	1.02 - 1.52	37.44	29.97	.127 - .254	37.74	21.08	1.02 - 1.57	37.95	12.04	.127 - .254	38.00	31.88	1.02 - 1.52	38.05	27.20	.381 - .762
37.08	30.20	.889 - 1.27	37.44	34.47	.127 - .254	37.74	22.68	.127 - .254	37.95	12.12	.127 - .254	38.00	32.00	.127 - 1.91	38.05	27.23	2.79 - 3.30
37.08	35.41	.508 - .635	37.44	34.49	.381 - .635	37.74	23.01	.127 - .254	37.95	16.18	.127 - .254	38.00	32.26	.127 - .254	38.05	27.89	.762 - 1.52
37.11	4.572	1.78 - 2.03	37.47	12.67	.127 - .254	37.74	27.69	1.27 - 1.91	37.95	16.51	.178 - .508	38.00	33.30	.254 - .508	38.05	28.58	2.29 - 3.05
37.11	22.23	.762 - 1.27	37.47	12.70	2.79 - 3.30	37.74	31.22	1.78 - 2.29	37.95	19.30	1.52 - 2.03	38.02	3.683	.508 - 1.02	38.05	28.70	2.54 - 3.05
37.11	29.77	1.27 - 1.78	37.47	12.80	1.52 - .381	37.74	33.78	.127 - .381	37.95	21.77	2.03 - 2.64	38.02	4.953	.635 - 1.07	38.05	29.69	.635 - 1.02
37.11	34.59	.508 - .762	37.47	13.36	2.03 - 2.54	37.74	35.05	.381 - .762	37.95	23.80	.762 - 1.27	38.02	9.525	1.27 - 2.11	38.05	29.92	.254 - .508
37.13	12.75	2.03 - 2.54	37.47	15.75	.127 - .254	37.77	24.10	2.03 - 2.64	37.95	26.01	.762 - 1.27	38.02	9.576	2.67 - 3.18	38.05	32.21	1.02 - 1.52
37.13	14.30	1.22 - 1.57	37.47	15.90	.127 - .508	37.77	28.65	.127 - .254	37.95	26.85	2.03 - 2.64	38.02	9.627	1.07 - 1.57	38.05	33.15	.762 - 1.27
37.13	27.18	2.03 - 2.54	37.47	19.08	.127 - .508	37.77	31.32	.381 - .762	37.95	26.92	1.63 - 1.98	38.02	9.804	1.57 - 2.03	38.05	33.55	.762 - 1.22
37.13	31.67	2.03 - 1.91	37.47	21.03	1.57 - 2.29	37.77	34.75	.508 - .762	37.95	27.31	1.27 - 1.52	38.02	10.69	3.96 - 4.75	38.05	35.00	.127 - .254
37.16	12.19	2.29 - 2.79	37.47	21.18	.127 - .254	37.80	9.906	.508 - .762	37.95	27.74	1.02 - 1.52	38.02	12.12	.127 - .254	38.05	35.46	.381 - .635
37.16	20.65	2.29 - 2.79	37.47	29.69	1.02 - 1.52	37.80	13.97	2.54 - 3.18	37.95	29.85	.381 - .635	38.02	13.08	2.54 - 3.18	38.07	2.489	1.27 - 1.91
37.16	30.76	.381 - .635	37.47	34.54	.254 - .508	37.80	20.42	1.27 - 1.78	37.95	30.51	.889 - 1.27	38.02	14.20	2.54 - 3.18	38.07	3.226	2.03 - 2.29
37.16	31.09	.381 - .762	37.49	6.477	.127 - .254	37.80	22.35	.127 - .254	37.95	32.13	.127 - .254	38.02	15.54	.508 - .762	38.07	4.242	.127 - .254
37.19	14.99	.127 - .254	37.49	12.70	.127 - .762	37.80	26.49	.127 - .254	37.95	32.26	.254 - .381	38.02	15.75	.254 - 1.52	38.07	4.750	.508 - 1.02
37.19	18.82	1.07 - 1.57	37.49	16.51	.127 - .254	37.80	30.91	.254 - .508	37.95	33.15	.127 - .254	38.02	16.05	.254 - .508	38.07	5.004	3.18 - 3.96
37.19	30.20	.381 - .635	37.49	34.52	.254 - .508	37.80	33.35	.762 - 1.07	37.95	33.99	.254 - .508	38.02	16.64	1.91 - 2.54	38.07	5.410	.127 - .254
37.21	9.576	.762 - 1.52	37.52	15.67	.254 - .508	37.80	33.78	.762 - 1.07	37.95	34.09	2.03 - .381	38.02	18.36	1.52 - 2.11	38.07	6.807	1.78 - 2.29
37.21	9.601	.254 - 1.27	37.52	30.51	.254 - 1.02	37.80	34.29	.127 - .254	37.95	35.92	.381 - .635	38.02	19.13	.635 - 1.02	38.07	7.137	2.54 - 3.18
37.21	20.62	2.67 - 3.40	37.54	27.91	2.03 - 2.54	37.82	9.728	1.78 - 2.29	37.95	36.20	.635 - 1.02	38.02	19.18	.635 - 1.07	38.07	7.696	1.02 - 1.52
37.21	27.81	1.27 - 1.91	37.54	33.27	.635 - 1.07	37.82	25.50	1.27 - 1.78	37.97	6.680	.127 - .254	38.02	19.23	.254 - .762	38.07	7.976	.254 - .508
37.21	30.23	.635 - 1.02	37.57	11.94	2.03 - 2.79	37.82	29.59	.381 - .762	37.97	7.010	.127 - .254	38.02	19.38	.127 - .381	38.07	9.500	.762 - 1.27
37.21	32.05	1.52 - 2.03	37.57	15.24	.508 - .762	37.82	32.00	1.27 - 1.91	37.97	7.468	.508 - .813	38.02	19.61	.762 - 1.22	38.07	9.779	3.43 - 3.96
37.21	33.17	.889 - 1.27	37.57	19.96	3.40 - 3.96	37.85	4.318	.635 - 1.07	37.97	7.493	2.54 - 3.18	38.02	20.57	.127 - .254	38.07	9.931	3.96 - 4.83
37.21	33.66	.381 - .762	37.57	28.78	.381 - .762	37.85	4.343	.762 - 1.27	37.97	8.992	2.67 - 3.43	38.02	22.63	.127 - .254	38.07	10.13	.127 - .254
37.24	9.627	.762 - 1.27	37.57	29.13	.127 - .254	37.85	6.172	2.03 - 2.54	37.97	9.017	.127 - .254	38.02	23.01	2.54 - 3.05	38.07	10.67	.127 - .254
37.24	15.14	.127 - .254	37.57	34.57	.127 -												

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
38.07	22.35	1.02 - 1.52	38.10	11.25	.254 - .813	38.10	22.35	.254 - .508	38.10	33.05	1.27 - 1.78	38.23	28.17	1.02 - 1.52	38.74	17.40	1.02 - 1.52
38.07	22.38	1.02 - 1.52	38.10	11.43	2.54 - 3.18	38.10	22.40	2.79 - 3.40	38.10	33.43	.254 - .508	38.23	33.27	.381 - .635	38.74	20.32	.254 - .508
38.07	24.56	2.67 - 3.18	38.10	11.46	.127 - .254	38.10	22.43	1.02 - 3.18	38.10	33.83	.635 - 1.02	38.25	31.72	1.27 - 1.91	38.74	31.27	.127 - .254
38.07	25.27	.127 - .254	38.10	11.51	4.32 - 4.83	38.10	22.50	3.96 - 4.75	38.10	34.49	1.27 - 1.78	38.28	33.63	.127 - .254	38.74	33.27	.635 - 1.02
38.07	25.48	.127 - .305	38.10	11.53	2.54 - 3.18	38.10	22.66	2.67 - 3.05	38.10	34.95	.381 - 1.52	38.30	8.001	2.67 - 3.18	38.74	33.43	1.78 - 2.29
38.07	25.68	2.79 - 3.30	38.10	12.17	3.96 - 4.75	38.10	22.68	1.57 - 2.29	38.10	35.28	.762 - 1.27	38.30	23.11	2.03 - 2.67	38.74	33.91	1.02 - 1.52
38.07	26.57	1.27 - 1.91	38.10	12.62	2.67 - 3.18	38.10	22.86	1.02 - 1.52	38.13	3.175	1.91 - 2.29	38.33	7.645	2.29 - 3.05	38.76	32.51	1.02 - 1.52
38.07	26.59	1.02 - 1.52	38.10	12.65	1.78 - 2.29	38.10	22.96	2.64 - 3.18	38.13	4.775	.508 - 1.02	38.33	19.84	2.29 - 2.67	38.76	33.27	.635 - 1.07
38.07	26.72	1.27 - 1.78	38.10	12.70	.127 - 1.52	38.10	23.06	.660 - 1.22	38.13	4.826	.127 - .254	38.35	12.95	1.52 - 2.03	38.76	34.16	.127 - .254
38.07	26.90	1.78 - 2.29	38.10	12.75	.127 - .762	38.10	23.11	3.56 - 4.06	38.13	5.080	2.54 - 3.18	38.35	22.86	.762 - 1.27	38.79	33.45	1.52 - 1.98
38.07	27.89	.762 - 1.27	38.10	12.83	.127 - 1.27	38.10	23.72	1.02 - 1.52	38.13	7.112	1.52 - 2.29	38.35	27.66	.381 - .762	38.79	36.02	.508 - .762
38.07	28.37	1.02 - 1.52	38.10	12.85	.127 - 3.18	38.10	23.75	.762 - 1.02	38.13	8.534	2.67 - 3.18	38.35	31.39	.127 - .254	38.81	4.750	.635 - 1.02
38.07	28.52	2.03 - 2.54	38.10	13.00	1.52 - 3.96	38.10	23.80	1.27 - 1.91	38.13	9.449	1.27 - 1.78	38.35	31.95	.127 - .254	38.81	4.953	1.27 - 2.54
38.07	28.83	1.02 - 1.52	38.10	13.03	2.54 - 3.18	38.10	23.83	2.36 - 2.77	38.13	9.703	.127 - .305	38.35	33.32	1.52 - 1.78	38.81	6.350	.254 - .762
38.07	29.01	.127 - .305	38.10	13.08	2.54 - 3.18	38.10	23.93	2.67 - 3.40	38.13	9.779	2.29 - 3.18	38.38	5.410	2.29 - 2.54	38.81	18.49	.127 - .254
38.07	29.21	1.02 - 1.52	38.10	13.18	2.03 - 2.64	38.10	24.23	1.27 - 1.78	38.13	11.10	.127 - .254	38.38	16.00	2.03 - 2.67	38.81	25.63	1.27 - 1.78
38.07	30.53	.127 - .381	38.10	13.23	2.67 - 3.18	38.10	24.64	2.03 - 2.54	38.13	12.90	.762 - 1.27	38.38	20.12	2.29 - 2.67	38.81	32.41	.254 - .508
38.07	31.75	1.27 - 1.91	38.10	13.46	.381 - 3.18	38.10	24.77	.127 - .254	38.13	13.06	.127 - .254	38.38	20.90	4.32 - 4.83	38.81	32.64	.508 - 1.02
38.07	31.90	.762 - 1.02	38.10	13.61	.152 - 3.40	38.10	25.22	.635 - 1.02	38.13	15.90	.254 - .508	38.38	25.78	.127 - .254	38.84	11.84	.127 - .254
38.07	32.00	1.02 - 1.52	38.10	13.64	.762 - 1.22	38.10	25.30	1.27 - 1.78	38.13	18.16	.127 - .254	38.38	28.24	1.27 - 1.91	38.84	20.09	.762 - 1.27
38.10	2.134	.508 - .889	38.10	13.97	2.29 - 3.18	38.10	25.43	.127 - .381	38.13	19.18	.254 - .508	38.38	28.27	1.02 - 1.52	38.84	24.99	2.03 - 2.67
38.10	2.388	.127 - .254	38.10	14.22	.127 - .381	38.10	25.45	1.02 - 2.29	38.13	19.63	2.54 - 3.18	38.38	34.32	.127 - .254	38.84	26.72	2.03 - 2.54
38.10	3.200	1.02 - 1.52	38.10	14.27	1.27 - 4.83	38.10	25.48	.127 - 3.96	38.13	20.75	2.54 - 3.18	38.46	23.88	3.18 - 3.43	38.84	28.37	2.54 - 2.79
38.10	3.302	.508 - .813	38.10	14.30	.381 - .762	38.10	25.50	.381 - 1.27	38.13	20.83	1.02 - 1.52	38.46	28.60	1.57 - 2.03	38.84	31.98	.508 - 1.02
38.10	3.429	2.29 - 2.64	38.10	14.33	2.54 - 3.05	38.10	25.53	.254 - 1.78	38.13	21.34	.254 - .508	38.48	14.81	3.05 - 3.40	38.84	34.54	.508 - 1.02
38.10	3.810	1.02 - 1.57	38.10	14.50	.635 - 1.02	38.10	25.63	1.02 - 3.56	38.13	22.25	1.02 - 1.52	38.48	19.43	1.27 - 1.78	38.84	35.97	.508 - .762
38.10	3.962	.762 - 3.18	38.10	14.66	.254 - .381	38.10	25.65	.127 - .508	38.13	23.09	1.27 - 1.78	38.48	22.66	1.14 - 1.52	38.84	36.91	.127 - .254
38.10	3.988	.762 - 1.27	38.10	14.71	2.79 - 3.30	38.10	25.68	.254 - .508	38.13	25.60	2.03 - 2.54	38.48	34.54	1.02 - 1.52	38.86	6.375	.381 - .762
38.10	4.089	2.54 - 3.18	38.10	15.37	1.27 - 1.78	38.10	25.78	1.02 - 4.83	38.13	25.63	.127 - .254	38.48	34.93	.508 - 1.02	38.86	7.163	1.52 - 2.03
38.10	4.140	.254 - 1.02	38.10	15.88	.762 - 1.27	38.10	25.86	2.54 - 3.18	38.13	25.65	.127 - .254	38.48	35.00	.254 - .508	38.86	7.925	.762 - 1.27
38.10	4.699	1.27 - 2.11	38.10	15.90	.254 - 3.18	38.10	25.88	.127 - .305	38.13	28.47	.508 - .762	38.51	7.442	1.27 - 1.91	38.86	13.61	.127 - .254
38.10	4.775	.127 - .254	38.10	16.10	.127 - .254	38.10	25.91	.127 - 3.18	38.13	28.75	.635 - 1.27	38.51	23.24	1.27 - 1.78	38.86	13.92	.127 - .254
38.10	4.928	.635 - 1.07	38.10	16.15	1.52 - 4.57	38.10	25.96	.508 - 1.02	38.13	28.78	1.52 - 2.03	38.51	30.33	.127 - .254	38.86	21.13	.508 - .762
38.10	4.953	1.22 - 1.91	38.10	16.21	.508 - 1.02	38.10	25.98	.127 - .254	38.13	30.18	1.27 - 1.78	38.51	30.45	.127 - .254	38.86	26.19	1.91 - 2.29
38.10	5.080	.254 - .762	38.10	16.26	2.79 - 3.30	38.10	26.04	2.67 - 3.18	38.13	31.78	.508 - .762	38.53	19.18	2.29 - 2.64	38.86	28.98	1.27 - 1.78
38.10	5.309	2.67 - 3.18	38.10	16.64	.127 - .508	38.10	26.21	1.22 - 3.40	38.13	32.77	.127 - .254	38.56	19.56	1.27 - 1.78	38.86	30.53	.254 - .762
38.10	5.563	1.27 - 1.78	38.10	16.66	1.91 - 3.30	38.10	26.31	.203 - 2.67	38.15	4.699	2.67 - 3.43	38.56	30.35	1.27 - 1.78	38.86	32.51	1.27 - 1.52
38.10	6.223	.813 - 1.52	38.10	16.76	1.02 - 1.52	38.10	26.44	.127 - .254	38.15	5.588	1.52 - 2.03	38.56	35.69	.127 - .254	38.89	8.458	.127 - .254
38.10	6.350	.254 - .508	38.10	16.89	.127 - .254	38.10	26.49	.127 - .254	38.15	8.763	2.03 - 2.64	38.58	15.82	.127 - .254	38.89	9.906	2.54 - 3.18
38.10	6.579	1.52 - 2.11	38.10	17.45	.762 - 1.27	38.10	26.67	3.96 - 4.75	38.15	8.865	.762 - 1.22	38.58	17.50	1.52 - 2.03	38.89	13.11	1.52 - 2.03
38.10	6.731	2.54 - 3.18	38.10	17.48	1.27 - 1.78	38.10	26.97	1.27 - 1.91	38.15	9.525	1.52 - 3.18	38.61	4.953	.889 - 1.27	38.89	15.88	.127 - .254
38.10	6.756	.381 - .635	38.10	17.53	3.05 - 3.43	38.10	27.00	.508 - 1.02	38.15	10.44	.127 - .254	38.61	8.331	.381 - .508	38.89	17.50	1.52 - 2.03
38.10	6.782	.127 - .254	38.10	17.63	.127 - .254	38.10	27.05	.254 - 1.52	38.15	11.20	.762 - 1.27	38.61	19.13	1.52 - 2.03	38.89	19.71	.635 - 1.02
38.10	6.833	.762 - 1.22	38.10	17.78	1.78 - 2.29	38.10	27.74	.127 - .762	38.15	11.28	3.05 - 3.43	38.61	19.30	2.54 - 2.79	38.89	20.52	.762 - 1.27
38.10	6.985	2.03 - 2.29	38.10	17.81	1.27 - 1.78	38.10	27.76	.127 - 1.57	38.15	14.27	3.40 - 4.75	38.61	20.35	.762 - 1.27	38.89	25.40	.508 - .813
38.10	7.112	1.02 - 1.52	38.10	17.86	.127 - .254	38.10	28.32	.127 - .254	38.15	14.30	.127 - .254	38.61	20.42	1.27 - 1.78	38.89	25.78	.635 - 1.07
38.10	7.137	3.96 - 4.75	38.10	18.11	.127 - .254	38.10	28.50	.813 - 1.22	38.15	16.46	2.54 - 3.05	38.61	20.52	1.02 - 1.78	38.89	31.06	.254 - .508
38.10	7.163	.203 - .381	38.10	18.16	.127 - .508	38.10	28.63	.127 - .254	38.15	16.66	3.96 - 4.78	38.61	20.60	2.03 - 2.54	38.91	2.489	.762 - 1.27
38.10	7.188	.127 - .254	38.10	18.31	2.64 - 3.18	38.10	28.68	1.52 - 2.11	38.15	19.10	2.67 - 3.18	38.61	20.73	1.52 - 2.03	38.91	19.43	.127 - .254
38.10	7.696	.127 - .254	38.10	18.42	1.78 - 2.29	38.10	28.85	2.67 - 3.18	38.15	22.28	2.03 - 2.54	38.61	20.85	1.02 - 1.52	38.91	26.59	.381 - .635
38.10	7.899	2.64 - 3.40	38.10	19.02	.254 - .635	38.10	29.36	.381 - .762	38.15	22.48	.127 - .254	38.61	21.29	1.52 - 2.03	38.91	33.17	1.78 - 2.29
38.10	7.925	4.06 - 4.83	38.10	19.13	.254 - 3.18	38.10	29.39	.635 - 1.07	38.15	22.63	.635 - 1.02	38.61	21.59	2.03 - 2.29	38.94	25.48	1.02 - 1.52
38.10	7.950	1.57 - 2.03	38.10	19.15	1.02 - 1.52	38.10	29.74	1.78 - 2.29	38.15	24.38	1.52 - 2.03	38.61	22.61	1.27 - 1.78	38.94	35.03	1.27 - 1.52
38.10	8.001	.203 - 2.79	38.10	19.25	2.67 - 3.18	38.10	29.85	.762 - 1.27	38.15	25.78	.508 - .762	38.61	22.63	1.02 - 1.52	38.96	8.255	2.03 - 2.64
38.10	8.255	1.22 - 1.91	38.10	19.30	.762 - 1.27	38.10	29.92	.508 - 1.02	38.15	27.10	2.54 - 3.18	38.61	25.78	.127 - .254	38.96	12.83	.127 - .508
38.10	8.306	.127 - .254	38.10	19.33	2.54 - 3.18	38.10	29.97	1.52 - 2.03	38.15	28.19	.635 - 1.02	38.61	32.11	.508 - 1.27	38.96	26.06	2.67 - 3.18
38.10	8.382	3.05 - 3.43	38.10	19.43	.508 - 2.03	38.10	30.12	2.67 - 3.43	38.15	28.42	3.05 - 3.43	38.61	36.07	.127 - .254	38.96	26.57	.381 - .762
38.10	8.636	.127 - .254	38.10	19.51	.508 - .762	38.10	30.15	.381 - 3.18	38.15	28.58	.127 - .254	38.63	8.280	.762 - 1.			

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
39.01	20.60	.127 - .254	39.40	7.341	1.27 - 1.78	39.65	15.98	1.91 - 2.67	39.73	17.78	.508 - .762	39.95	12.80	2.29 - 3.43	40.08	19.58	.635 - 1.02
39.01	25.63	1.27 - 1.78	39.40	11.13	.254 - .508	39.65	19.46	2.54 - 3.18	39.73	19.48	.254 - .508	39.95	16.28	1.52 - 2.11	40.08	27.00	.762 - 1.27
39.01	26.01	3.43 - 3.96	39.40	11.18	.254 - .508	39.65	19.51	.635 - 1.02	39.73	28.52	.508 - 1.02	39.95	16.46	.254 - .508	40.08	32.82	.508 - .762
39.04	10.34	1.91 - 3.18	39.40	26.06	1.52 - 2.03	39.65	22.43	.127 - .254	39.73	28.83	1.27 - 1.91	39.95	18.57	1.02 - 1.57	40.08	32.97	.254 - .381
39.04	12.73	.254 - .508	39.40	28.96	.254 - .508	39.65	24.18	.762 - 1.27	39.73	30.20	.127 - .254	39.95	20.62	.381 - .762	40.11	14.48	.127 - .254
39.04	17.02	.127 - .254	39.40	30.20	2.67 - 3.18	39.65	26.39	.762 - 1.27	39.73	33.25	.127 - .254	39.95	25.73	.127 - .254	40.11	31.29	.254 - .508
39.04	32.72	1.07 - 1.57	39.40	32.46	1.52 - 2.03	39.65	26.42	.254 - .381	39.73	35.38	.381 - .762	39.95	27.99	1.52 - 2.03	40.11	35.00	.762 - 1.02
39.04	32.92	.127 - .254	39.42	37.08	.127 - .254	39.65	29.41	1.02 - 1.52	39.73	36.42	.127 - .254	39.95	31.01	.762 - 1.27	40.13	19.94	1.27 - 1.52
39.09	14.27	.254 - .508	39.45	21.69	1.91 - 2.67	39.65	31.27	1.02 - 1.52	39.75	3.099	.508 - 1.02	39.95	31.09	3.43 - 3.96	40.13	20.19	.508 - 1.02
39.09	30.63	.381 - .762	39.45	21.82	2.03 - 2.54	39.65	32.03	1.02 - 1.52	39.75	14.27	.762 - 1.22	39.95	32.11	.127 - .254	40.13	21.06	2.29 - 2.67
39.09	30.99	.381 - .762	39.45	29.41	3.18 - 3.96	39.65	35.31	.127 - .254	39.75	30.28	1.27 - 1.91	39.95	34.90	.127 - .254	40.13	21.59	1.27 - 1.52
39.09	34.52	.762 - 1.27	39.47	19.43	2.03 - 2.64	39.65	36.40	.127 - .305	39.75	31.19	.762 - 1.27	39.98	8.738	2.67 - 3.18	40.13	27.46	.254 - .508
39.12	13.00	2.67 - 3.18	39.47	22.43	.254 - .381	39.65	36.55	.127 - .254	39.75	32.26	.762 - 1.02	39.98	10.41	.127 - .254	40.13	33.27	.127 - .254
39.12	14.30	.127 - .254	39.47	25.40	1.52 - 2.03	39.67	5.105	.508 - .762	39.75	34.77	1.27 - 1.91	39.98	11.02	3.81 - 4.32	40.13	37.39	.127 - .254
39.12	23.11	.381 - .762	39.47	30.30	1.52 - 2.03	39.67	6.375	2.29 - 2.64	39.78	6.528	1.78 - 2.29	39.98	12.04	.127 - .254	40.16	3.023	.127 - .254
39.12	27.99	.635 - 1.02	39.47	37.08	.127 - .254	39.67	8.052	.203 - .406	39.78	12.75	2.67 - 3.18	39.98	12.07	.254 - .508	40.18	10.29	1.02 - 1.52
39.12	30.48	.508 - .762	39.50	4.216	2.03 - 2.64	39.67	8.915	1.91 - 2.67	39.78	24.89	.127 - .254	39.98	12.75	.254 - .508	40.18	11.43	.254 - .508
39.12	32.77	1.27 - 1.78	39.50	16.51	.178 - .305	39.67	9.601	1.22 - 1.91	39.78	33.78	1.27 - 1.78	39.98	16.03	.254 - .508	40.18	13.46	1.02 - 1.52
39.14	8.077	.508 - .762	39.50	26.92	.813 - 1.52	39.67	10.31	2.67 - 3.18	39.78	34.21	.889 - 1.27	39.98	21.03	1.52 - 2.03	40.18	16.10	.254 - .508
39.14	25.60	.635 - 1.78	39.50	27.94	2.29 - 3.05	39.67	10.36	.381 - .762	39.78	35.97	1.02 - 1.52	39.98	24.99	.889 - 1.14	40.18	31.75	2.11 - 2.67
39.14	26.16	.127 - .254	39.50	28.24	2.03 - 2.67	39.67	11.35	1.02 - 1.52	39.80	18.52	.762 - 1.22	39.98	27.20	2.29 - 2.54	40.18	33.05	.127 - .254
39.14	31.75	1.27 - 1.78	39.50	28.78	2.29 - 2.67	39.67	14.27	.813 - 1.27	39.80	23.75	1.27 - 1.91	39.98	28.02	.381 - .762	40.21	27.66	.508 - 1.02
39.17	21.16	.508 - .762	39.50	30.38	.381 - .762	39.67	14.30	3.96 - 4.75	39.80	24.84	.178 - .381	39.98	28.70	.305 - .508	40.23	21.18	.127 - .254
39.17	25.35	.127 - .254	39.50	31.75	1.52 - 2.03	39.67	14.33	.127 - .508	39.80	25.20	.254 - .508	39.98	30.18	.127 - .254	40.23	25.63	1.02 - 1.52
39.17	30.30	.127 - .254	39.52	4.166	1.27 - 1.57	39.67	16.66	3.96 - 4.75	39.80	25.50	2.67 - 3.18	39.98	31.01	.254 - .508	40.26	3.556	1.07 - 1.52
39.19	10.95	1.91 - 2.67	39.52	12.98	2.03 - 2.67	39.67	18.95	1.91 - 2.67	39.80	31.29	.762 - 1.27	39.98	33.53	.127 - .254	40.26	9.525	1.78 - 2.29
39.19	30.48	.508 - .762	39.52	30.28	1.27 - 1.78	39.67	19.05	.254 - 2.54	39.80	31.70	1.57 - 2.29	39.98	33.96	.508 - .762	40.26	25.40	.813 - 1.27
39.19	31.88	1.27 - 1.91	39.52	32.00	.381 - .762	39.67	19.35	.127 - .254	39.80	32.00	.127 - .254	39.98	34.87	1.57 - 2.29	40.26	25.58	.254 - .762
39.19	31.93	.635 - 1.02	39.52	32.05	.508 - 1.02	39.67	19.43	2.29 - 3.05	39.80	33.30	.381 - .762	39.98	35.97	.127 - .254	40.26	28.45	.127 - .381
39.19	32.03	.762 - 1.27	39.52	35.69	.254 - .508	39.67	19.84	2.11 - 2.67	39.80	34.19	.381 - .762	40 mm			40.26	30.71	.635 - 1.02
39.22	29.69	.762 - 1.27	39.52	36.50	.813 - 1.27	39.67	19.86	2.03 - 2.64	39.80	35.05	1.02 - 1.52				40.26	31.90	.635 - 1.02
39.22	30.02	.635 - 1.02	39.55	10.06	.127 - .381	39.67	20.62	1.57 - 2.03	39.83	1.524	1.02 - 1.27				40.26	32.00	.381 - .762
39.22	30.25	.127 - .254	39.55	10.34	1.52 - 2.03	39.67	21.95	3.05 - 3.56	39.83	17.15	.127 - .254				40.26	34.52	1.27 - 1.57
39.22	37.62	.254 - .508	39.55	19.56	2.79 - 3.30	39.67	22.20	.508 - 1.02	39.83	17.58	1.52 - 2.03				40.28	3.581	1.52 - 2.29
39.24	6.706	.762 - 1.27	39.55	25.45	1.91 - 2.29	39.67	22.23	.381 - .762	39.83	26.19	2.79 - 3.30				40.28	32.13	.508 - .762
39.24	11.10	.508 - 1.02	39.55	26.37	1.02 - 1.52	39.67	22.96	1.02 - 1.27	39.83	28.19	1.27 - 1.78	40.01	9.017	2.54 - 3.18	40.28	32.77	.127 - .254
39.24	26.92	.127 - .254	39.55	33.38	2.67 - 3.18	39.67	23.01	1.02 - 1.27	39.83	34.21	.127 - .254	40.01	9.982	3.05 - 3.43	40.31	11.91	.254 - .508
39.24	29.36	.508 - .762	39.55	34.42	.635 - 1.02	39.67	23.50	.762 - 1.52	39.83	36.07	.127 - .254	40.01	12.01	.127 - .254	40.34	17.78	1.27 - 1.78
39.24	30.25	.127 - .254	39.55	34.49	.127 - .254	39.67	23.67	1.27 - 1.91	39.85	9.169	1.02 - 1.52	40.01	12.12	.127 - .254	40.34	25.55	.127 - .254
39.24	35.33	1.27 - 1.78	39.57	3.988	.381 - .762	39.67	23.80	2.54 - 3.18	39.85	12.80	1.78 - 2.29	40.01	12.75	.508 - .762	40.34	28.40	2.67 - 3.05
39.24	37.01	.635 - .889	39.57	6.502	1.91 - 2.54	39.67	23.83	.381 - .635	39.85	14.96	.127 - .762	40.01	12.78	.127 - .254	40.34	31.70	.508 - .889
39.27	30.02	.635 - 1.02	39.57	9.525	1.91 - 2.29	39.67	23.85	.762 - 1.27	39.85	19.20	2.67 - 3.18	40.01	12.80	2.54 - 3.18	40.36	12.83	.635 - 1.02
39.27	30.07	.635 - 1.02	39.57	9.601	1.52 - 2.03	39.67	24.00	1.78 - 2.29	39.85	20.50	2.29 - 2.67	40.01	14.33	.254 - .508	40.39	12.45	2.29 - 3.18
39.29	25.58	1.02 - 1.63	39.57	10.41	2.29 - 2.67	39.67	25.30	1.57 - 2.29	39.85	22.45	2.67 - 3.18	40.01	15.01	1.27 - 1.52	40.39	15.09	2.54 - 3.18
39.32	11.20	.254 - .508	39.57	19.02	.508 - 1.02	39.67	25.32	.508 - .762	39.85	26.16	.635 - 1.02	40.01	15.21	.127 - .254	40.39	32.99	.508 - .889
39.32	24.16	2.29 - 2.79	39.57	19.56	2.67 - 3.18	39.67	25.43	3.05 - 3.40	39.85	28.96	1.78 - 2.29	40.01	16.00	.127 - .254	40.39	34.16	.254 - 1.52
39.32	25.53	.254 - .508	39.57	25.50	.635 - 1.02	39.67	25.45	3.05 - 3.40	39.85	30.15	1.02 - 1.52	40.01	16.33	1.78 - 2.29	40.39	34.59	1.52 - 2.03
39.32	26.37	.787 - 1.22	39.57	36.40	.127 - .254	39.67	25.60	1.02 - 1.52	39.85	32.64	.254 - .508	40.01	17.98	2.67 - 3.18	40.44	10.34	1.22 - 1.57
39.32	27.94	1.02 - 1.27	39.60	19.71	.127 - .254	39.67	26.21	2.11 - 2.67	39.85	33.53	.381 - .762	40.01	18.01	.381 - .762	40.44	29.74	1.02 - 1.52
39.32	32.26	.381 - .762	39.60	22.23	2.79 - 3.30	39.67	27.00	.381 - .635	39.85	33.81	1.02 - 1.52	40.01	18.08	1.02 - 1.52	40.44	31.04	.254 - .508
39.34	9.169	1.27 - 1.78	39.60	27.20	.127 - .254	39.67	28.65	.762 - 1.22	39.88	4.267	.203 - .305	40.01	20.04	.635 - 1.02	40.46	13.08	.254 - .508
39.34	11.28	.127 - .508	39.60	32.72	.254 - .508	39.67	29.34	.381 - .813	39.88	6.502	2.03 - 2.54	40.01	20.17	.127 - .254	40.46	22.86	1.52 - 2.03
39.34	12.78	.381 - .762	39.60	33.40	.152 - 1.02	39.67	30.15	.127 - .254	39.88	8.788	.254 - .508	40.01	21.01	1.02 - 1.52	40.46	26.26	.254 - .508
39.34	12.83	.127 - .508	39.60	36.55	.127 - .508	39.67	30.18	.508 - 1.02	39.88	13.36	2.03 - 2.54	40.01	22.33	.127 - .254	40.46	29.74	2.54 - 3.18
39.34	19.15	1.02 - 1.57	39.62	4.851	.508 - 1.02	39.67	30.56	.635 - 1.22	39.88	18.29	.127 - .254	40.01	24.21	2.29 - 2.54	40.46	29.77	1.27 - 1.91
39.34	25.48	1.27 - 1.78	39.62	6.147	.381 - .762	39.67	33.35	.127 - .254	39.88	20.65	.762 - 1.27	40.01	25.02	.254 - 3.96	40.46	30.33	1.57 - 2.03
39.34	25.53	1.02 - 1.52	39.62	9.677	3.18 - 3.96	39.67	33.53	1.52 - 2.03	39.88	22.10	.127 - .254	40.01	25.04	1.27 - 1.78	40.46	31.47	.254 - .508
39.34	25.58	.127 - .254	39.62	9.931	2.03 - 2.67	39.67	33.60	2.67 - 3.18	39.88	23.01	2.54 - 3.18	40.01	26.04	.762 - 1.27	40.46	33.58	1.52 - 2.03
39.34	31.14	.762 - 1.27	39.62	9.957	2.03 - 2.67												

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

O.D.	I.D.	Choose Any Thickness* To	O.D.	I.D.	Choose Any Thickness* To	O.D.	I.D.	Choose Any Thickness* To	O.D.	I.D.	Choose Any Thickness* To	O.D.	I.D.	Choose Any Thickness* To	O.D.	I.D.	Choose Any Thickness* To
40.61	9.601	.127 - .508	40.82	14.27	3.18 - 3.96	41.10	35.10	.508 - .762	41.25	28.68	1.57 - 2.03	41.28	28.70	2.29 - 3.18	41.40	32.59	.508 - 1.02
40.61	12.42	2.29 - 2.79	40.82	16.00	2.34 - 3.18	41.12	21.29	1.02 - 1.52	41.25	28.83	.381 - .762	41.28	28.80	.813 - 1.07	41.40	33.78	1.02 - 1.52
40.61	12.78	.127 - .254	40.82	25.96	.762 - 1.52	41.12	23.80	1.52 - 1.78	41.25	28.98	.127 - .254	41.28	30.99	1.27 - 1.91	41.40	37.82	.762 - 1.02
40.61	12.83	.127 - .508	40.82	32.28	.635 - 1.02	41.12	37.34	.254 - .508	41.25	30.02	.508 - 1.02	41.28	31.75	.381 - .762	41.40	37.85	1.02 - 1.52
40.61	15.90	.381 - .635	40.82	33.83	.254 - .508	41.15	7.544	2.03 - 2.67	41.25	30.15	2.54 - 3.18	41.28	31.88	2.54 - 3.18	41.40	38.18	.381 - .762
40.61	16.00	.127 - .254	40.84	20.60	.762 - 1.27	41.15	10.36	.127 - .254	41.25	30.61	.127 - 1.78	41.28	31.90	.762 - 1.27	41.43	25.65	.254 - .508
40.61	17.50	1.52 - 2.03	40.84	28.70	2.54 - 3.18	41.15	10.62	.127 - .254	41.25	30.94	.508 - .889	41.28	32.54	1.02 - 1.52	41.43	35.00	.127 - .254
40.61	31.57	.381 - .889	40.84	36.68	.381 - .762	41.15	13.46	.127 - .254	41.25	32.00	.127 - .254	41.28	32.69	.127 - .254	41.43	36.53	.508 - .889
40.61	36.50	.254 - .508	40.87	10.44	1.02 - 1.52	41.15	14.86	2.29 - 3.05	41.25	32.21	.127 - 1.78	41.28	32.92	1.91 - 2.11	41.45	13.03	1.02 - 1.52
40.64	4.318	1.27 - 1.57	40.87	15.09	1.02 - 1.52	41.15	15.04	.305 - .508	41.25	33.76	.127 - .508	41.28	33.10	.635 - 1.07	41.45	14.35	.127 - .254
40.64	6.426	.127 - .254	40.87	16.08	2.29 - 3.05	41.15	16.36	.127 - .254	41.25	34.47	.254 - .635	41.28	33.15	.127 - .254	41.45	30.53	.762 - 1.27
40.64	7.137	1.27 - 1.91	40.87	20.57	.635 - 1.02	41.15	16.43	.127 - .254	41.25	34.95	.127 - .254	41.28	33.73	1.52 - 2.03	41.48	12.73	.381 - .762
40.64	7.874	.762 - 1.27	40.87	21.46	.305 - .508	41.15	18.11	.127 - .254	41.25	35.00	.127 - .254	41.28	34.01	1.27 - 1.91	41.48	21.03	.127 - .254
40.64	9.576	.127 - .381	40.87	25.78	.406 - .635	41.15	19.28	1.02 - 1.52	41.25	35.71	2.29 - 2.79	41.28	34.93	.508 - 1.78	41.50	30.53	.762 - 1.27
40.64	9.601	.127 - .381	40.87	32.00	1.27 - 1.91	41.15	22.45	.127 - .254	41.25	36.63	.254 - .508	41.28	35.10	2.29 - 2.67	41.53	19.99	.508 - .762
40.64	10.54	1.91 - 2.54	40.87	32.39	2.54 - 3.18	41.15	23.09	.127 - .254	41.28	3.175	.508 - 1.02	41.28	35.46	2.03 - 2.54	41.53	25.35	1.27 - 1.91
40.64	11.20	2.54 - 3.18	40.87	35.56	.508 - .813	41.15	23.37	.254 - .508	41.28	3.480	1.02 - 1.52	41.28	35.51	.127 - .635	41.53	29.51	1.27 - 1.78
40.64	12.14	2.29 - 3.05	40.87	37.29	1.22 - 1.57	41.15	23.88	2.54 - 3.18	41.28	4.369	1.02 - 1.52	41.28	35.71	1.78 - 2.29	41.53	33.68	.508 - 1.02
40.64	12.75	.127 - .254	40.89	28.19	.381 - .762	41.15	24.46	3.05 - 3.40	41.28	5.055	1.27 - 1.91	41.28	36.50	1.52 - 2.03	41.53	36.37	1.27 - 1.78
40.64	12.78	.152 - .305	40.89	29.16	2.29 - 2.67	41.15	28.45	2.79 - 3.43	41.28	5.867	.267 - 3.18	41.30	6.375	1.27 - 1.78	41.55	10.44	2.67 - 3.05
40.64	12.80	.127 - .508	40.89	30.48	.508 - .762	41.15	28.50	.254 - .508	41.28	6.756	.127 - .254	41.30	12.80	.254 - .508	41.55	31.75	1.02 - 1.52
40.64	12.83	.127 - .254	40.89	31.98	.127 - .254	41.15	28.96	1.78 - 2.41	41.28	8.382	.127 - .254	41.30	12.93	2.67 - 3.43	41.55	34.98	1.57 - 2.29
40.64	12.90	.254 - 3.43	40.89	32.39	2.54 - 3.18	41.15	29.06	1.27 - 1.78	41.28	8.738	1.52 - 2.03	41.30	13.11	1.27 - 1.52	41.58	33.38	1.27 - 1.52
40.64	12.95	.254 - .508	40.89	33.25	.127 - .254	41.15	30.23	1.52 - 2.29	41.28	9.195	.127 - .254	41.30	14.27	.127 - .254	41.61	14.07	.254 - .508
40.64	13.08	.254 - .508	40.89	34.49	1.27 - 1.78	41.15	32.03	.381 - .762	41.28	9.525	.813 - 2.67	41.30	19.23	.254 - .381	41.61	25.91	.762 - 1.27
40.64	15.88	.508 - 1.02	40.89	35.66	1.78 - 2.29	41.15	33.30	.127 - .254	41.28	10.03	2.67 - 3.18	41.30	19.81	.254 - .508	41.61	32.05	.127 - 1.27
40.64	15.93	.127 - .508	40.89	36.12	.508 - .889	41.15	35.13	.127 - .254	41.28	10.31	1.27 - 1.78	41.30	25.58	.635 - 1.02	41.61	34.93	2.67 - 3.18
40.64	16.00	.254 - .508	40.92	28.83	.127 - .254	41.15	35.18	1.27 - 1.78	41.28	10.46	1.57 - 2.29	41.30	28.58	1.02 - 1.52	41.61	38.48	.381 - .762
40.64	16.10	2.67 - 3.18	40.92	35.81	.254 - .508	41.15	37.34	.508 - .762	41.28	10.92	2.54 - 3.18	41.30	30.15	.127 - 1.02	41.63	17.20	.127 - .254
40.64	18.16	2.67 - 3.05	40.94	28.83	.127 - .508	41.17	8.103	.635 - .914	41.28	11.81	.381 - .762	41.30	33.55	1.27 - 1.91	41.63	18.72	1.52 - 2.03
40.64	19.08	.127 - .254	40.94	32.51	.381 - .889	41.17	19.25	1.27 - 1.91	41.28	12.07	2.67 - 3.43	41.30	34.98	.635 - 1.02	41.63	25.15	.254 - .508
40.64	19.15	.254 - .508	40.94	33.43	.762 - 1.27	41.17	32.13	.127 - .254	41.28	12.65	.127 - .254	41.30	35.61	.127 - .254	41.63	33.27	2.03 - 2.54
40.64	19.43	1.27 - 1.52	40.94	37.29	.254 - .508	41.17	32.39	.508 - 1.02	41.28	12.70	.635 - 2.03	41.33	4.394	.254 - .508	41.63	34.95	.127 - .254
40.64	20.32	.127 - .254	40.94	38.07	.127 - .254	41.17	33.45	.635 - 1.07	41.28	12.80	.127 - .254	41.33	7.976	.381 - .762	41.66	16.38	.127 - .254
40.64	21.01	.127 - .254	40.94	38.35	.127 - .254	41.17	37.59	.635 - .889	41.28	12.90	.127 - 1.07	41.33	9.652	1.02 - 1.52	41.66	19.05	.127 - .254
40.64	22.20	1.02 - 1.52	40.97	8.001	.635 - 1.02	41.20	8.661	1.91 - 2.29	41.28	13.06	.127 - .254	41.33	9.779	2.29 - 3.18	41.66	25.40	.127 - .254
40.64	22.30	.635 - 1.02	40.97	19.76	.508 - 1.02	41.20	10.34	.914 - 1.22	41.28	13.49	2.54 - 3.18	41.33	14.10	3.96 - 4.75	41.66	27.48	3.96 - 4.75
40.64	22.48	.762 - 1.02	40.97	28.55	2.29 - 2.54	41.20	16.38	2.54 - 3.18	41.28	13.59	.254 - .762	41.33	15.93	1.57 - 2.03	41.66	34.87	.254 - .889
40.64	23.50	2.03 - 2.54	40.97	33.32	.381 - .762	41.20	19.48	3.05 - 3.96	41.28	13.61	2.03 - 2.54	41.33	17.60	2.67 - 3.43	41.66	36.58	.127 - .254
40.64	25.40	.127 - .254	41.00	3.683	1.78 - 2.29	41.20	22.71	2.29 - 3.05	41.28	13.72	.254 - 1.52	41.33	20.73	.635 - 1.07	41.66	36.63	1.27 - 1.78
40.64	27.18	.635 - 3.18	41.00	8.357	.127 - .254	41.20	25.20	.635 - 1.02	41.28	13.77	2.29 - 3.05	41.33	22.25	.381 - .762	41.68	26.52	.914 - 1.52
40.64	27.97	.508 - .762	41.00	17.63	.508 - .762	41.20	29.49	1.02 - 1.27	41.28	14.30	.635 - 1.07	41.33	25.55	2.67 - 3.18	41.71	17.32	2.67 - 3.43
40.64	28.58	.381 - .635	41.00	22.45	1.02 - 1.52	41.20	30.18	1.27 - 2.54	41.28	14.33	1.27 - 1.91	41.33	28.58	2.03 - 2.64	41.71	26.39	.127 - .254
40.64	28.65	.254 - .508	41.00	25.43	.127 - .254	41.20	31.75	.508 - 1.02	41.28	14.35	.254 - 3.18	41.33	28.70	.127 - .254	41.71	33.78	1.27 - 2.03
40.64	29.85	2.29 - 3.18	41.00	30.20	.635 - 1.02	41.20	32.03	1.27 - 1.78	41.28	14.38	2.54 - 3.18	41.33	30.00	2.03 - 2.54	41.73	17.22	2.03 - 2.64
40.64	30.61	.254 - .508	41.00	31.78	.127 - .254	41.20	33.32	1.52 - 1.78	41.28	14.50	.381 - .762	41.33	31.75	.127 - .254	41.73	19.18	1.27 - 2.03
40.64	30.99	1.27 - 1.78	41.00	32.51	.508 - 1.02	41.20	34.47	.381 - .762	41.28	15.60	.381 - .762	41.33	32.00	.127 - .254	41.73	33.76	1.27 - 1.78
40.64	32.00	.762 - 1.27	41.00	32.54	.254 - .508	41.20	34.65	.508 - 1.02	41.28	15.88	3.96 - 4.83	41.33	32.18	.127 - .762	41.76	23.14	.635 - 1.02
40.64	32.28	2.79 - 3.30	41.00	34.01	.381 - .762	41.22	6.477	2.03 - 2.64	41.28	16.08	1.52 - 2.29	41.33	32.46	.127 - .254	41.76	23.22	.762 - 1.27
40.64	33.02	1.27 - 1.52	41.00	35.08	.254 - .508	41.22	12.98	2.29 - 2.67	41.28	16.10	2.54 - 3.18	41.33	33.07	.254 - .508	41.76	25.15	1.02 - 1.52
40.64	33.27	.381 - 1.52	41.02	8.026	.254 - .508	41.22	15.16	2.03 - 2.64	41.28	16.26	.127 - .254	41.33	33.53	.635 - 1.02	41.76	26.39	.381 - .762
40.64	33.32	.127 - .254	41.02	12.70	1.27 - 1.78	41.22	19.69	.127 - .254	41.28	16.66	.254 - .508	41.33	35.00	1.27 - 1.78	41.76	33.27	1.78 - 2.29
40.64	34.47	.127 - .381	41.02	15.98	2.29 - 2.54	41.22	19.86	1.57 - 2.03	41.28	16.69	.889 - 1.27	41.35	3.277	1.27 - 1.78	41.76	33.73	1.91 - 2.29
40.64	34.93	.254 - .508	41.02	22.28	1.27 - 1.91	41.22	22.63	.127 - .254	41.28	17.48	2.54 - 3.05	41.35	8.204	2.03 - 2.67	41.76	35.26	2.29 - 2.79
40.64	36.45	.254 - .508	41.02	25.40	1.27 - 1.91	41.22	25.40	2.03 - 2.54	41.28	19.15	1.27 - 1.91	41.35	10.67	3.96 - 4.75	41.76	35.69	1.02 - 1.52
40.64	36.55	.127 - .254	41.02	35.74	.508 - 1.02	41.22	26.21	1.27 - 1.78	41.28	19.18	2.29 - 2.67	41.35	12.90	2.29 - 3.05	41.76	37.03	.508 - 1.02
40.67	16.03	.127 - .254	41.02	35.99	1.02 - 1.52	41.22	27.00	1.27 - 2.03	41.28	19.30	2.54 - 3.18	41.35	20.57	1.02 - 1.52	41.76	38.81	.762 - 1.27
40.67	19.56	.127 - .254	41.02	36.83	.127 - .254	41.22	27.03	1.27 - 1.91	41.28	19.43	2.29 - 3.05	41.35	28.88	.127 - .254	41.78	15.88	.381 - 1.27
40.67	36.47	.127 - .2															

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
41.86	38.48	1.02 - 1.27	42.04	16.54	2.03 - 2.67	42.62	18.21	.508 - .762	42.88	27.86	.762 - 1.27	43.18	36.86	.127 - .254	43.69	31.12	.203 - .381
41.88	1.397	.127 - .254	42.04	19.58	.508 - .762	42.62	19.20	2.67 - 3.18	42.88	32.05	1.27 - 1.91	43.18	38.20	.762 - 1.27	43.69	35.56	.381 - .762
41.88	12.83	.127 - .254	42.04	22.99	1.27 - 1.78	42.62	19.53	.635 - 1.02	42.88	36.37	.762 - 1.27	43.18	38.48	.305 - .508	43.69	37.19	.254 - .508
41.88	14.27	.254 - .508	42.04	25.02	.381 - .762	42.62	34.09	2.03 - 2.54	42.88	38.28	1.02 - 1.52	43.18	39.17	.254 - .508	43.71	33.17	1.27 - 1.91
41.88	15.77	.762 - 1.27	42.04	27.00	.762 - 1.27	42.65	22.78	3.96 - 4.78	42.90	13.13	1.91 - 2.67	43.21	32.16	.381 - .762	43.71	35.76	.127 - .254
41.88	32.92	.127 - .254	42.04	28.58	.508 - .762	42.65	24.16	1.02 - 1.52	42.90	23.88	2.29 - 3.18	43.21	35.18	.762 - 1.27	43.71	38.46	.508 - .762
41.88	34.70	1.52 - 2.03	42.04	29.95	.127 - .508	42.65	26.67	.127 - .254	42.90	31.24	2.54 - 3.18	43.21	36.83	1.02 - 1.52	43.74	10.59	.127 - .254
41.88	36.80	1.27 - 1.78	42.04	35.86	.127 - .254	42.65	30.02	1.02 - 1.52	42.90	34.95	.508 - .762	43.23	5.283	1.02 - 1.52	43.74	19.10	1.14 - 1.52
41.88	38.07	1.27 - 1.78	42.04	36.58	.762 - 1.27	42.65	34.67	.381 - .762	42.93	3.175	.508 - 1.02	43.23	20.83	2.03 - 2.54	43.74	38.48	1.52 - 2.03
41.88	38.13	.254 - .508	42.04	39.14	.127 - .254	42.65	34.93	.127 - .254	42.93	10.41	2.67 - 3.18	43.23	20.96	3.96 - 4.83	43.76	6.731	1.27 - 2.11
41.91	1.295	.381 - .762	42.06	27.97	3.05 - 3.96	42.65	35.28	1.02 - 1.52	42.93	18.06	1.27 - 1.78	43.23	25.40	.254 - .508	43.76	8.992	1.52 - 2.03
41.91	3.353	.254 - .508	42.06	31.06	2.29 - 2.67	42.67	6.350	.254 - .889	42.93	22.61	2.03 - 2.64	43.23	28.45	1.27 - 1.78	43.76	17.42	2.79 - 3.30
41.91	9.576	.762 - 1.27	42.06	34.14	1.27 - 1.78	42.67	12.70	.254 - 2.67	42.93	29.54	1.02 - 1.27	43.26	2.896	.127 - .381	43.76	35.94	.508 - 1.02
41.91	10.44	.381 - .635	42.06	35.31	.762 - 1.27	42.67	15.37	1.02 - 1.52	42.93	30.15	.508 - 1.02	43.26	33.53	1.27 - 1.91	43.76	38.43	1.78 - 2.29
41.91	10.77	2.54 - 3.18	42.06	36.50	1.02 - 1.52	42.67	18.08	1.02 - 1.52	42.93	33.10	.762 - 1.27	43.26	35.20	.127 - .254	43.79	9.525	1.02 - 1.52
41.91	11.18	.254 - .508	42.06	40.16	.127 - .254	42.67	19.51	1.02 - 1.52	42.93	35.00	.762 - 1.52	43.28	2.896	.127 - .254	43.79	30.35	1.52 - 2.03
41.91	11.20	.127 - .254	42.09	8.763	.127 - .254	42.67	20.24	1.07 - 1.57	42.93	39.60	.127 - .254	43.28	4.293	.254 - .635	43.82	34.29	1.02 - 1.57
41.91	12.70	.127 - .254	42.09	8.941	.127 - .254	42.67	20.65	1.02 - 1.52	42.95	19.61	.254 - .508	43.31	31.75	.127 - .305	43.82	35.81	.127 - .254
41.91	12.78	.127 - 1.52	42.09	28.60	.127 - .254	42.67	21.74	1.02 - 1.52	42.95	27.51	.127 - .254	43.31	36.02	.381 - .762	43.84	28.80	1.27 - 1.78
41.91	14.30	.127 - .508	42.09	28.83	2.29 - 2.79	42.67	22.73	1.02 - 1.52	42.95	33.02	1.27 - 1.52	43.33	11.15	1.02 - 1.52	43.84	35.18	.762 - 1.27
41.91	15.75	.381 - 3.18	42.09	30.02	2.54 - 3.05	42.67	23.55	1.02 - 1.52	42.95	37.52	.127 - .254	43.33	14.88	1.78 - 2.29	43.87	41.22	.508 - .889
41.91	15.88	.127 - .508	42.09	30.78	.635 - 1.02	42.67	24.51	1.02 - 1.52	42.95	39.70	.127 - .254	43.33	19.71	1.78 - 2.29	43.89	22.30	2.54 - 3.18
41.91	15.90	.508 - .762	42.11	30.02	.254 - .381	42.67	27.99	.762 - 1.27	42.98	22.48	2.03 - 2.54	43.36	19.81	.127 - .254	43.89	38.33	1.52 - 2.03
41.91	15.98	.127 - .254	42.11	31.22	.127 - .254	42.67	30.35	2.29 - 3.05	43.00	20.40	1.02 - 1.52	43.36	25.45	2.67 - 3.43	43.92	22.10	.508 - 1.02
41.91	16.00	.254 - .508	42.14	19.15	.635 - 1.02	42.67	31.72	1.02 - 1.52	43.00	28.50	.254 - .508	43.38	9.677	1.52 - 2.03	43.92	34.57	.508 - 1.02
41.91	16.10	.508 - 1.02	42.14	38.56	1.27 - 1.57	42.67	34.85	.254 - .635	43.03	18.36	.127 - .254	43.38	31.67	.127 - .508	43.94	16.05	.127 - .254
41.91	17.42	1.57 - 2.03	42.16	9.525	1.27 - 1.78	42.67	36.32	.127 - .254	43.03	24.99	.127 - .254	43.38	33.30	.762 - 1.27	43.94	19.00	.127 - .254
41.91	17.50	3.96 - 4.75	42.16	16.10	.254 - .508	42.67	36.83	.813 - 1.52	43.03	32.00	2.29 - 2.79	43.38	33.32	1.27 - 1.91	43.94	25.40	2.03 - 2.67
41.91	19.05	3.96 - 4.83	42.16	22.17	1.78 - 2.29	42.70	4.978	.127 - .254	43.03	38.07	.635 - 1.02	43.41	9.931	.127 - .381	43.94	33.02	1.52 - 1.78
41.91	25.65	2.29 - 2.67	42.16	24.49	.254 - .508	42.70	22.71	1.27 - 1.78	43.03	38.10	.127 - .381	43.41	19.33	3.96 - 4.75	43.94	33.78	.254 - 1.27
41.91	27.79	1.02 - 1.52	42.16	30.18	.127 - .254	42.70	26.26	2.67 - 3.18	43.05	5.156	1.02 - 1.52	43.43	19.30	2.54 - 3.18	43.94	35.31	1.02 - 1.52
41.91	30.00	.635 - 1.52	42.16	31.75	.381 - .762	42.70	30.30	.508 - 1.02	43.05	7.976	1.02 - 1.52	43.43	27.76	.381 - .889	43.94	37.54	.254 - .508
41.91	31.75	.127 - .762	42.16	34.93	2.29 - 3.05	42.70	33.02	1.02 - 1.52	43.05	25.35	.127 - .254	43.43	34.16	.127 - .254	43.94	38.05	1.02 - 1.52
41.91	31.80	2.67 - 3.96	42.16	35.28	2.29 - 2.67	42.70	34.85	.127 - .508	43.05	25.65	2.54 - 3.18	43.46	29.03	3.96 - 4.75	43.94	39.14	.381 - .762
41.91	31.83	.508 - .762	42.16	35.31	2.79 - 3.30	42.70	35.56	.127 - .254	43.05	39.04	1.52 - 1.91	43.46	33.02	1.27 - 1.78	43.97	12.09	.127 - .254
41.91	32.05	.127 - .254	42.19	28.98	2.03 - 2.54	42.72	25.81	1.52 - 2.03	43.08	25.45	1.52 - 2.11	43.48	22.99	.635 - 1.02	43.97	19.00	.381 - .762
41.91	33.55	2.54 - 3.18	42.19	30.33	.635 - 1.07	42.75	20.80	.254 - .508	43.08	30.48	.508 - 1.02	43.48	41.07	.127 - .254	43.97	21.03	2.29 - 2.67
41.91	33.73	.127 - .254	42.19	34.52	2.67 - 3.18	42.75	23.32	.254 - .508	43.08	35.48	.127 - .254	43.51	38.10	1.27 - 1.78	43.97	21.69	1.78 - 2.29
41.91	35.53	1.27 - 1.78	42.19	35.08	.127 - .254	42.75	25.55	1.27 - 1.91	43.08	36.88	2.03 - 2.67	43.54	35.76	1.27 - 1.57	43.97	22.00	2.03 - 2.54
41.91	35.89	.381 - .635	42.21	34.93	1.02 - 1.52	42.75	32.97	2.29 - 2.67	43.10	11.51	2.54 - 3.18	43.54	35.79	1.27 - 1.78	43.97	22.38	1.02 - 1.52
41.91	36.32	1.78 - 2.29	42.21	35.81	1.02 - 3.18	42.77	30.18	.127 - .254	43.10	21.87	2.29 - 3.18	43.54	38.43	.635 - 1.07	43.97	28.83	.127 - .254
41.94	7.010	.762 - 1.02	42.24	8.636	.127 - .254	42.77	35.28	.635 - 1.02	43.10	33.22	2.67 - 3.18	43.54	39.14	1.02 - 1.52	43.97	30.35	.635 - 1.02
41.94	17.53	.127 - .254	42.24	32.79	.508 - 1.02	42.77	36.63	.127 - .254	43.10	33.73	.127 - .254	43.56	4.699	1.52 - 2.03	43.97	31.88	1.02 - 1.27
41.94	20.78	1.02 - 1.52	42.24	32.97	1.52 - 2.29	42.77	38.74	.381 - .762	43.10	33.99	.254 - .508	43.56	4.775	.508 - .762	43.97	38.02	.762 - 1.27
41.94	31.78	.127 - .254	42.27	37.36	.381 - .762	42.77	39.67	1.02 - 1.27	43.13	3.327	.381 - .762	43.56	24.13	1.27 - 2.03	43.97	40.26	.254 - .508
41.94	33.02	.381 - .635	42.29	31.90	1.27 - 1.78	42.80	8.636	.635 - 1.07	43.13	11.51	2.54 - 3.18	43.56	26.24	1.52 - 2.03	43.99	4.724	.254 - .508
41.94	35.89	.508 - .762	42.29	36.50	1.78 - 2.29	42.80	10.80	1.27 - 2.11	43.13	12.75	.381 - .762	43.56	38.43	.381 - .762	43.99	12.01	.127 - .254
41.96	14.27	.127 - .508	42.29	37.36	.254 - .406	42.80	12.57	.813 - 1.52	43.13	15.90	.254 - .508	43.56	39.40	.127 - .254	43.99	13.84	.127 - .254
41.96	19.96	1.78 - 2.29	42.29	40.16	.127 - .254	42.80	19.86	.508 - 1.02	43.13	18.16	2.29 - 2.67	43.59	10.29	2.29 - 3.05	43.99	16.00	.127 - .254
41.99	12.01	.127 - .254	42.32	22.73	.127 - .203	42.80	27.05	.813 - 1.52	43.13	19.13	1.52 - 2.29	43.59	18.29	1.27 - 1.91	43.99	16.03	.254 - .508
41.99	12.04	.508 - .762	42.34	35.56	.127 - .254	42.80	27.18	1.02 - 1.27	43.13	19.30	2.03 - 2.54	43.59	24.21	1.27 - 1.78	43.99	17.65	.178 - .305
41.99	12.07	.127 - .254	42.37	25.65	1.07 - 1.52	42.80	30.23	.254 - .508	43.13	36.80	.127 - .254	43.59	33.32	.508 - 1.02	43.99	19.00	.127 - .762
41.99	12.50	2.29 - 3.18	42.37	29.06	.127 - .254	42.80	32.23	1.57 - 2.03	43.15	15.88	.381 - .762	43.61	10.41	1.91 - 2.29	43.99	19.05	1.78 - 2.03
41.99	12.75	.127 - .254	42.37	32.11	.127 - .254	42.80	33.02	1.27 - 1.52	43.15	19.15	.254 - .508	43.61	19.25	1.02 - 1.52	43.99	25.22	.127 - .254
41.99	16.03	.127 - .254	42.42	16.13	.127 - .254	42.80	34.54	.508 - .762	43.15	24.10	1.27 - 1.52	43.61	30.12	.381 - .762	43.99	31.93	1.02 - 1.52
41.99	16.08	.508 - 1.02	42.42	25.63	2.54 - 3.43	42.80	39.80	.813 - 1.27	43.15	35.66	.127 - .254	43.61	41.12	.381 - .762	43.99	33.99	1.02 - 1.52
41.99	32.33	1.27 - 1.52	42.42	26.92	.508 - 1.02	42.80	39.83	1.02 - 1.52	43.15	38.18	.381 - .762	43.64	9.144	1.27 - 1.78	43.99	35.23	.635 - 1.02
41.99	32.36	1.27 - 1.78	42.42	28.73	1.78 - 2.03	42.82	8.052	.508 - 1.02	43.18	3.175	2.54 - 3.18	43.64	16.00	.381 - .762	43.99	36.07	.508 - 1.02
41.99	33.68	1.7															

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

O.D.	I.D.	Choose Any Thickness* To	O.D.	I.D.	Choose Any Thickness* To	O.D.	I.D.	Choose Any Thickness* To	O.D.	I.D.	Choose Any Thickness* To	O.D.	I.D.	Choose Any Thickness* To	O.D.	I.D.	Choose Any Thickness* To
44.07	38.43	.236 - .267	44.32	36.78	.508 - .762	44.40	32.11	.381 - .762	44.45	10.34	3.96 - 4.75	44.45	26.64	.127 - .254	44.48	36.42	.508 - 1.02
44.07	39.75	.127 - .254	44.32	38.38	.127 - .254	44.40	32.84	1.78 - 2.29	44.45	10.41	2.54 - 3.18	44.45	26.92	.762 - 1.52	44.48	38.48	.127 - .254
44.09	12.07	.127 - .254	44.32	39.62	.254 - .508	44.40	32.99	.127 - .254	44.45	11.07	3.81 - 4.75	44.45	26.97	.127 - 1.91	44.48	39.85	.508 - .889
44.09	29.18	.762 - 1.52	44.32	39.65	.381 - .635	44.40	33.43	1.78 - 2.29	44.45	11.10	1.52 - 3.05	44.45	28.45	.127 - .254	44.48	40.21	.635 - 1.02
44.09	31.83	1.52 - 2.03	44.35	9.474	1.52 - 2.03	44.40	33.53	1.02 - 1.52	44.45	11.13	.381 - .762	44.45	28.50	2.29 - 3.30	44.50	6.655	2.54 - 3.05
44.12	8.890	.381 - .762	44.35	11.25	.127 - .254	44.40	34.90	2.54 - 3.18	44.45	11.18	.127 - .508	44.45	28.55	2.54 - 3.18	44.50	9.525	.762 - 1.27
44.12	10.19	.127 - .254	44.35	12.62	.635 - 1.02	44.40	35.05	.508 - 1.02	44.45	11.96	4.32 - 4.83	44.45	28.60	.254 - 2.11	44.50	9.677	1.02 - 1.52
44.12	38.13	1.02 - 1.52	44.35	15.11	.127 - .254	44.40	38.07	.381 - .762	44.45	12.70	3.05 - 3.56	44.45	28.70	2.67 - 3.18	44.50	12.32	3.96 - 4.83
44.12	38.15	.127 - .254	44.35	19.84	2.54 - 3.18	44.40	38.38	1.57 - 2.11	44.45	12.80	.254 - 1.52	44.45	28.83	.127 - .254	44.50	13.49	.127 - .254
44.15	19.58	.381 - .635	44.35	23.01	2.54 - 3.18	44.40	41.91	.127 - .254	44.45	12.83	.127 - 1.52	44.45	28.93	.381 - 1.52	44.50	14.30	2.79 - 3.30
44.15	22.40	2.29 - 2.67	44.35	25.43	1.02 - 1.57	44.42	2.540	.635 - 1.02	44.45	12.90	1.02 - 1.52	44.45	29.21	2.29 - 3.05	44.50	16.26	.254 - .508
44.15	25.17	.254 - .508	44.35	26.57	1.91 - 2.29	44.42	3.581	1.52 - 2.03	44.45	12.95	1.22 - 3.40	44.45	29.72	.762 - 1.22	44.50	20.32	.635 - 1.02
44.15	31.72	.127 - .254	44.35	27.08	.127 - .254	44.42	5.359	2.67 - 3.18	44.45	13.08	3.05 - 3.43	44.45	30.15	.762 - 2.03	44.50	23.11	.381 - .762
44.15	31.93	.127 - .508	44.35	28.78	1.02 - 1.52	44.42	6.858	1.91 - 2.29	44.45	13.11	.127 - .254	44.45	30.20	2.54 - 3.18	44.50	25.40	.762 - 1.52
44.15	32.00	1.78 - 2.29	44.35	28.98	.127 - .254	44.42	7.137	1.27 - 1.91	44.45	13.49	.381 - 3.18	44.45	30.23	.127 - .254	44.50	26.70	.508 - 1.02
44.15	39.32	.127 - .381	44.35	29.69	1.52 - 2.03	44.42	8.509	.127 - .254	44.45	13.51	2.54 - 3.18	44.45	30.30	.127 - .254	44.50	26.97	2.54 - 3.18
44.17	28.30	.762 - 1.27	44.35	30.23	2.29 - 3.18	44.42	8.890	1.52 - 2.03	44.45	13.56	2.67 - 3.18	44.45	31.14	.508 - 1.02	44.50	27.03	2.79 - 3.30
44.17	33.07	.508 - 1.02	44.35	31.85	2.54 - 3.18	44.42	9.525	.127 - .254	44.45	13.59	2.67 - 3.43	44.45	31.75	.254 - .762	44.50	36.83	2.03 - 2.54
44.17	36.73	1.02 - 1.52	44.35	33.53	.127 - .254	44.42	9.677	.127 - .254	44.45	13.79	1.02 - 1.52	44.45	31.80	.254 - .508	44.50	36.91	2.11 - 3.05
44.20	9.195	1.27 - 1.78	44.35	36.78	1.27 - 1.91	44.42	9.881	3.96 - 4.75	44.45	14.00	1.52 - 2.03	44.45	31.83	.127 - .254	44.50	38.10	2.03 - 2.29
44.20	12.73	.635 - 1.02	44.35	38.99	1.52 - 2.03	44.42	12.75	.381 - .635	44.45	14.27	.127 - 4.75	44.45	31.85	.508 - 2.08	44.50	38.28	1.27 - 1.78
44.20	12.78	1.78 - 2.29	44.37	7.163	.635 - 1.02	44.42	13.56	.127 - .254	44.45	14.33	.254 - .508	44.45	31.88	.254 - .508	44.50	38.43	1.07 - 1.57
44.20	19.43	.813 - 1.52	44.37	7.264	.127 - .254	44.42	13.87	3.96 - 4.75	44.45	14.38	2.67 - 3.18	44.45	31.90	2.29 - 2.67	44.50	38.81	1.78 - 2.29
44.20	22.30	2.54 - 3.18	44.37	7.976	2.54 - 3.18	44.42	17.81	1.27 - 1.78	44.45	14.99	2.29 - 2.79	44.45	31.98	2.03 - 2.67	44.53	8.712	2.03 - 2.64
44.20	25.60	1.27 - 1.52	44.37	8.458	2.29 - 2.79	44.42	19.84	1.02 - 1.52	44.45	15.82	.508 - 1.91	44.45	32.00	.127 - 1.07	44.53	9.830	1.02 - 2.03
44.20	26.87	1.52 - 2.03	44.37	12.75	.813 - 1.22	44.42	19.89	.127 - .254	44.45	15.85	2.54 - 3.18	44.45	33.02	1.02 - 1.52	44.53	19.08	2.03 - 2.54
44.20	30.45	.635 - 1.02	44.37	13.08	.127 - .254	44.42	20.17	1.78 - 2.29	44.45	15.88	.254 - 4.06	44.45	33.43	.254 - .508	44.53	19.10	2.67 - 3.18
44.20	31.39	2.67 - 3.18	44.37	13.49	.381 - .762	44.42	22.71	.127 - .254	44.45	15.90	.254 - .508	44.45	33.48	.127 - .203	44.53	27.10	.127 - .254
44.20	31.60	.127 - .254	44.37	13.79	2.54 - 3.18	44.42	23.37	.127 - .381	44.45	15.93	.127 - .254	44.45	33.50	.127 - .254	44.53	32.21	.127 - .254
44.20	32.00	.254 - 1.52	44.37	14.35	1.27 - 1.91	44.42	23.80	.508 - 1.02	44.45	15.95	.127 - .813	44.45	33.63	.889 - 1.27	44.53	33.35	2.03 - 2.54
44.20	32.03	.152 - .305	44.37	15.75	1.27 - 1.91	44.42	25.40	.635 - 1.02	44.45	15.98	.127 - 2.29	44.45	33.76	.762 - 1.27	44.53	33.60	.127 - .254
44.20	33.35	1.57 - 2.36	44.37	15.90	.813 - 1.52	44.42	25.43	1.27 - 1.78	44.45	16.00	.254 - .508	44.45	34.32	1.52 - 2.03	44.53	35.18	.127 - .203
44.20	35.05	2.29 - 2.79	44.37	17.81	3.18 - 3.40	44.42	25.53	3.18 - 3.43	44.45	16.13	3.05 - 3.43	44.45	34.37	1.02 - 1.52	44.53	39.73	1.27 - 1.78
44.20	38.86	.127 - .254	44.37	20.70	.254 - .508	44.42	25.78	.381 - .762	44.45	16.18	.635 - 1.02	44.45	34.93	.127 - .508	44.55	22.71	2.54 - 3.18
44.20	38.89	.381 - .762	44.37	22.48	2.54 - 3.18	44.42	25.91	2.67 - 3.43	44.45	16.28	3.96 - 4.83	44.45	35.13	.127 - .254	44.55	31.85	1.57 - 2.11
44.20	38.99	1.02 - 1.52	44.37	22.66	1.91 - 2.67	44.42	26.19	2.67 - 3.43	44.45	16.64	2.54 - 3.18	44.45	35.15	.381 - .635	44.55	34.93	2.67 - 3.18
44.20	40.64	.127 - .254	44.37	23.01	3.05 - 3.56	44.42	26.37	.254 - .508	44.45	16.66	.254 - 1.52	44.45	35.18	2.54 - 3.18	44.55	35.23	.508 - .762
44.20	40.87	.508 - 1.02	44.37	23.06	.254 - .508	44.42	27.28	2.29 - 2.67	44.45	16.69	1.02 - 1.52	44.45	35.20	.127 - .254	44.58	6.528	1.02 - 1.52
44.22	25.65	.635 - 1.02	44.37	23.32	1.78 - 2.29	44.42	27.43	1.27 - 1.52	44.45	16.76	2.29 - 2.67	44.45	35.28	1.52 - 2.03	44.58	7.137	2.03 - 2.54
44.22	31.47	.762 - 1.27	44.37	25.55	2.79 - 3.30	44.42	28.55	2.54 - 3.18	44.45	17.42	1.27 - 1.91	44.45	35.41	2.29 - 3.05	44.58	8.179	1.27 - 1.78
44.25	5.029	1.27 - 1.91	44.37	26.16	.508 - 1.02	44.42	28.58	.254 - .508	44.45	17.45	.127 - .254	44.45	35.51	.813 - 1.27	44.58	23.01	1.02 - 1.57
44.25	25.91	.508 - 1.52	44.37	31.83	.127 - .254	44.42	28.96	.762 - 1.27	44.45	17.48	2.54 - 3.18	44.45	35.56	.127 - 1.27	44.58	32.64	1.52 - 2.03
44.25	37.06	.254 - .508	44.37	31.88	.127 - .635	44.42	29.34	2.03 - 2.54	44.45	17.58	.127 - .254	44.45	35.81	.127 - .508	44.58	39.01	1.27 - 1.78
44.25	38.40	1.52 - 1.78	44.37	33.25	1.27 - 1.91	44.42	30.15	.406 - .635	44.45	17.86	.254 - .508	44.45	35.84	.203 - .381	44.60	12.29	2.67 - 3.43
44.25	39.50	1.27 - 1.78	44.37	33.40	1.52 - 1.78	44.42	31.75	3.18 - 3.43	44.45	18.62	.381 - .635	44.45	36.07	1.78 - 2.29	44.63	6.401	2.03 - 2.64
44.27	8.001	.254 - .813	44.37	34.04	.127 - .254	44.42	31.78	.762 - 1.02	44.45	19.02	.127 - 1.78	44.45	36.45	.127 - 1.02	44.63	15.98	2.54 - 3.18
44.27	12.83	.381 - .508	44.37	34.95	.508 - .762	44.42	31.88	1.02 - 1.52	44.45	19.05	2.54 - 3.96	44.45	36.47	3.05 - 3.40	44.63	36.50	.127 - .254
44.27	12.98	.127 - .254	44.37	35.41	1.07 - 1.57	44.42	31.90	.127 - .254	44.45	19.08	2.29 - 2.79	44.45	36.53	1.02 - 1.52	44.65	14.27	.127 - .254
44.27	13.51	2.54 - 3.18	44.37	35.43	.127 - .254	44.42	32.84	3.96 - 4.57	44.45	19.15	.381 - .762	44.45	36.65	2.29 - 2.67	44.65	37.49	1.27 - 1.78
44.27	30.99	.508 - .762	44.37	36.80	.127 - .254	44.42	37.95	.127 - .254	44.45	19.18	1.52 - 2.29	44.45	36.83	1.02 - 1.52	44.70	11.30	.381 - .762
44.27	31.12	.381 - .762	44.37	36.86	.381 - .635	44.42	38.07	.127 - .254	44.45	19.25	.127 - .254	44.45	37.36	1.27 - 1.91	44.70	16.03	.254 - .508
44.27	34.01	2.29 - 2.67	44.37	38.07	.381 - .762	44.42	38.35	.254 - .508	44.45	19.81	3.96 - 4.75	44.45	38.10	.635 - 1.02	44.70	19.48	.178 - .406
44.27	38.18	.508 - .762	44.40	2.946	.381 - .762	44.42	39.83	.635 - 1.02	44.45	20.62	1.07 - 3.96	44.45	38.15	.127 - .254	44.70	28.96	.178 - .406
44.27	39.01	1.02 - 1.52	44.40	6.502	.254 - .508	44.45	3.226	.127 - .254	44.45	20.70	.127 - .762	44.45	38.79	.508 - 1.02	44.70	32.26	.508 - 1.02
44.30	31.85	.508 - 1.02	44.40	6.756	1.07 - 1.52	44.45	3.810	1.02 - 1.52	44.45	20.83	2.54 - 3.18	44.45	38.89	.762 - 2.03	44.70	32.66	.127 - .254
44.30	33.58	.254 - .508	44.40	6.782	.762 - 1.07	44.45	3.937	1.02 - 2.03	44.45	20.96	2.29 - 2.67	44.45	38.91	.635 - 1.14	44.73	10.36	.381 - .762
44.30	35.51	.508 - 1.02	44.40	7.061	.127 - .254	44.45	4.928	1.91 - 2.54	44.45	21.08	.127 - .254	44.45	39.37	.254 - .381	44.73	17.75	2.03 - 2.67
44.30	36.75	.762 - 1.27	44.40	7.137	1.22 - 1.57	44.45	4.953	.762 - 1.27	44.45	21.13	1.27 - 1.78	44.45	39.75	.127 - .254	44.75	10.36	.381 - .762

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
44.83	35.10	1.57 - 2.11	45.31	33.78	.254 - .508	45.72	39.85	.635 - 1.02	46.02	35.08	1.27 - 1.91	46.61	35.10	.762 - 1.52	46.99	11.18	.127 - .508
44.86	35.10	1.52 - 2.03	45.31	41.05	1.52 - 2.03	45.75	12.75	.127 - .254	46.02	35.61	.381 - .762	46.61	38.13	.127 - .254	46.99	12.75	.254 - .508
44.91	20.14	.127 - .254	45.34	22.38	1.27 - 1.78	45.75	12.83	.254 - .508	46.02	35.81	.762 - 1.27	46.61	41.15	.254 - .508	46.99	12.83	.254 - .508
44.91	31.29	.127 - .254	45.34	27.53	.813 - 1.22	45.75	19.08	.127 - .254	46.02	36.47	1.02 - 1.52	46.63	41.81	.127 - .254	46.99	12.95	.127 - .254
44.91	35.05	.762 - 1.27	45.34	32.11	2.67 - 3.18	45.75	38.13	1.27 - 1.78	46.02	36.68	1.02 - 1.52	46.66	34.11	.127 - .254	46.99	14.25	4.32 - 4.83
44.91	35.10	.127 - .254	45.42	17.73	1.27 - 1.91	45.75	40.89	.508 - .762	46.02	36.70	.508 - 1.02	46.66	34.16	.127 - .381	46.99	15.88	.762 - 1.02
44.93	10.31	2.03 - 2.64	45.42	28.55	.254 - .381	45.75	40.92	.254 - .508	46.02	37.59	1.27 - 1.91	46.69	3.200	.762 - 1.27	46.99	15.90	.254 - .508
44.93	16.28	2.29 - 3.05	45.42	36.20	1.91 - 2.54	45.77	10.80	1.02 - 1.52	46.02	38.05	.254 - .508	46.69	10.64	.127 - .254	46.99	24.56	2.54 - 3.05
44.93	21.29	1.02 - 1.52	45.42	40.28	2.29 - 2.67	45.77	31.93	.127 - .254	46.02	38.35	.127 - .254	46.69	34.82	1.02 - 1.52	46.99	27.20	1.52 - 2.03
44.93	32.99	1.27 - 1.78	45.42	40.31	1.27 - 1.65	45.80	18.08	1.78 - 2.29	46.02	38.66	.508 - 1.02	46.69	39.90	.762 - 1.27	46.99	28.12	.127 - .254
44.93	33.05	1.02 - 1.52	45.42	40.77	.508 - 1.02	45.80	23.01	.508 - .813	46.02	38.68	.762 - 1.27	46.71	31.78	.635 - .762	46.99	28.50	.127 - .508
44.93	35.33	.635 - 1.02	45.44	19.33	2.03 - 3.18	45.80	34.59	1.02 - 1.52	46.02	38.71	.381 - .762	46.71	35.10	.127 - .254	46.99	30.45	1.02 - 1.27
44.96	11.15	.127 - .254	45.47	15.75	.381 - 3.18	45.82	32.26	.254 - .508	46.02	39.70	.381 - .762	46.74	6.325	1.52 - 1.91	46.99	33.27	.127 - 1.78
44.96	19.84	1.27 - 1.78	45.47	20.83	.381 - 3.18	45.82	34.70	.127 - .254	46.05	6.375	2.11 - 2.64	46.74	12.93	1.27 - 1.78	46.99	35.33	.254 - .508
44.96	20.04	1.02 - 1.52	45.47	27.00	.127 - .254	45.85	8.585	.127 - .254	46.05	19.08	.635 - 1.02	46.74	17.25	1.27 - 1.78	46.99	36.53	2.54 - 3.05
44.96	20.57	.762 - 1.02	45.47	38.86	.254 - .508	45.85	9.525	2.29 - 2.67	46.05	19.15	.762 - 1.02	46.74	17.78	.762 - 1.02	46.99	39.88	.508 - 1.27
44.96	21.01	.762 - 1.22	45.47	42.65	.127 - .254	45.85	13.97	.635 - 1.02	46.05	23.01	.635 - 1.02	46.74	25.40	.508 - 1.02	46.99	40.16	.127 - .254
44.96	27.05	1.27 - 1.78	45.49	32.41	.254 - .508	45.85	28.37	.508 - 1.02	46.05	23.83	.127 - .254	46.74	25.53	.127 - .254	46.99	41.94	3.05 - 3.43
44.96	30.00	.254 - .508	45.49	32.51	1.02 - 1.52	45.85	34.93	.762 - 1.52	46.05	28.96	3.96 - 4.75	46.74	25.60	2.29 - 2.67	46.99	42.80	.381 - .635
44.96	31.75	1.02 - 1.52	45.49	40.77	.762 - 1.27	45.85	35.51	.127 - .254	46.05	32.16	2.29 - 2.67	46.74	33.93	1.27 - 1.91	47.02	38.23	.635 - 1.02
44.96	32.13	.127 - .254	45.52	40.77	.254 - .508	45.85	39.75	.254 - .508	46.05	33.60	.254 - .508	46.74	34.11	.254 - .508	47.02	40.39	.127 - .305
44.96	39.17	.254 - .508	45.54	16.21	.127 - .254	45.85	40.23	.381 - .762	46.05	35.41	1.02 - 1.52	46.74	36.17	1.27 - 1.91	47.02	41.40	.127 - .635
44.96	39.75	1.27 - 1.78	45.54	25.37	.254 - .508	45.85	40.41	1.78 - 2.29	46.05	40.26	.254 - .508	46.74	36.20	1.65 - 2.03	47.04	7.366	.508 - .762
44.96	41.38	.381 - .635	45.54	38.07	.508 - .762	45.85	43.64	.127 - .254	46.08	25.40	2.54 - 3.18	46.74	37.57	1.02 - 1.52	47.04	14.22	1.78 - 2.29
44.98	6.528	1.27 - 1.78	45.57	9.830	.254 - .508	45.87	5.232	1.02 - 1.27	46.08	33.02	.635 - 1.27	46.74	38.58	1.02 - 1.52	47.04	15.98	.127 - .254
44.98	11.00	2.67 - 3.18	45.57	40.34	.254 - .508	45.87	8.890	.127 - .254	46.10	8.204	.127 - .406	46.76	9.576	2.79 - 3.30	47.04	29.59	.889 - 1.14
44.98	20.62	.508 - .762	45.59	7.010	2.54 - 3.18	45.87	34.14	.381 - .762	46.10	10.41	1.78 - 2.79	46.76	10.21	1.02 - 1.52	47.04	35.00	.127 - .254
44.98	33.83	2.29 - 2.67	45.59	12.95	2.67 - 3.18	45.87	42.04	.762 - 1.27	46.10	13.28	2.54 - .508	46.76	14.00	2.67 - 3.18	47.04	40.39	.203 - .381
44.98	35.00	.254 - .508	45.59	25.43	.127 - .254	45.87	42.16	.127 - .254	46.10	19.61	2.54 - 3.18	46.76	30.20	.381 - 1.02	47.09	42.11	.508 - .762
44.98	35.48	.127 - .254	45.59	41.28	.635 - 1.02	45.87	42.93	.762 - 1.27	46.10	19.69	3.18 - 3.43	46.76	35.66	.127 - .254	47.12	35.97	.762 - 1.27
45.01	12.73	.381 - .635	45.62	42.88	.381 - .762	45.90	4.216	.889 - 1.27	46.10	26.01	.508 - 1.02	46.76	35.74	.127 - .254	47.12	38.10	3.18 - 3.43
45.01	33.35	1.27 - 1.52	45.64	42.85	.508 - .762	45.90	11.71	1.27 - 1.91	46.10	30.28	2.03 - 2.54	46.76	39.85	.127 - .254	47.14	32.08	2.67 - 3.18
45.01	34.54	.127 - .254	45.67	2.438	.762 - 1.27	45.90	25.58	1.27 - 1.78	46.10	38.68	.381 - .762	46.79	9.601	2.54 - 3.18	47.17	14.88	.508 - .762
45.01	34.57	.127 - .254	45.67	15.98	.127 - .254	45.90	30.71	2.29 - 2.67	46.13	19.08	.254 - .508	46.79	16.26	.635 - 1.02	47.17	18.03	2.29 - 3.18
45.01	37.34	.381 - .635	45.67	23.65	1.27 - 1.91	45.90	31.06	.127 - .254	46.13	33.99	.508 - .762	46.79	21.03	.127 - .254	47.17	36.45	.127 - .305
45.03	5.131	1.27 - 1.78	45.67	27.33	.127 - .254	45.90	36.53	1.02 - 1.52	46.18	16.03	.508 - .762	46.79	27.89	2.03 - 2.54	47.19	34.04	.508 - .762
45.03	11.96	3.30 - 3.81	45.67	28.50	2.67 - 3.18	45.90	38.56	.762 - 1.52	46.18	27.05	.381 - .762	46.79	31.78	2.29 - 3.18	47.19	34.54	.635 - 1.02
45.03	12.73	.127 - .508	45.67	31.88	2.54 - 3.18	45.92	17.53	.762 - 1.27	46.18	35.66	.635 - 1.02	46.79	38.89	1.02 - 1.52	47.22	9.881	1.27 - 1.91
45.03	25.98	1.27 - 1.78	45.69	2.438	.762 - 1.27	45.92	38.96	.254 - .508	46.18	35.71	.508 - .762	46.79	41.73	.635 - 1.02	47.22	20.78	.127 - .254
45.03	29.18	1.27 - 1.78	45.69	4.572	.762 - 1.27	45.95	2.438	1.02 - 1.52	46.18	38.05	1.02 - 1.52	46.81	8.026	.381 - .762	47.22	36.45	.127 - .254
45.03	35.20	1.78 - 2.29	45.69	9.576	.127 - .254	45.95	11.76	.635 - 1.02	46.18	38.15	.508 - .762	46.81	20.73	.635 - .889	47.22	41.71	1.52 - 2.03
45.03	38.10	.254 - .508	45.69	19.13	1.07 - 1.52	45.95	27.00	2.36 - 2.87	46.18	39.93	.127 - .254	46.81	22.35	.127 - 1.02	47.24	5.105	1.27 - 1.91
45.06	3.226	.381 - .762	45.69	20.19	.914 - 1.27	45.95	28.47	2.67 - 3.05	46.20	11.43	.254 - .508	46.81	30.18	.508 - 1.27	47.24	15.75	2.67 - 3.18
45.06	30.02	1.02 - 1.52	45.69	24.00	2.54 - 3.18	45.95	36.50	.127 - .203	46.20	40.13	.127 - .203	46.81	35.08	.127 - .254	47.24	16.03	.254 - .508
45.06	34.59	.127 - .254	45.69	25.91	1.02 - 1.52	45.97	2.540	.508 - 1.27	46.23	11.35	.254 - .508	46.81	36.96	.965 - 1.52	47.24	32.21	.635 - 1.27
45.06	37.69	.508 - .762	45.69	26.14	3.05 - 3.43	45.97	4.242	2.36 - 3.18	46.23	16.00	.254 - .508	46.81	36.98	.762 - 1.27	47.24	34.16	.762 - 1.02
45.09	32.39	2.54 - 3.30	45.69	35.05	1.27 - 1.91	45.97	4.572	.381 - .762	46.23	25.73	.127 - .254	46.81	43.33	.508 - 1.02	47.24	36.70	1.27 - 1.91
45.09	38.38	.635 - 1.02	45.69	35.48	.381 - .762	45.97	19.20	3.96 - 4.83	46.23	36.83	.508 - 2.29	46.84	6.604	2.67 - 3.18	47.27	36.73	.127 - .254
45.09	38.53	.762 - 1.02	45.72	3.734	2.03 - 2.64	45.97	20.93	.127 - .254	46.23	38.48	.127 - .254	46.84	10.62	.254 - .508	47.29	38.35	.305 - .635
45.09	38.61	.635 - 1.02	45.72	3.912	1.27 - 1.52	45.97	22.23	1.02 - 1.52	46.25	25.55	1.27 - 1.91	46.84	20.73	.127 - .254	47.32	16.51	.127 - .254
45.11	17.40	.127 - .254	45.72	4.953	.127 - .254	45.97	26.90	2.29 - 3.05	46.25	40.26	.508 - 1.02	46.84	27.89	1.27 - 1.91	47.32	20.80	.127 - .254
45.11	19.10	2.54 - 3.40	45.72	4.978	2.29 - 2.67	45.97	27.08	1.02 - 1.52	46.28	32.26	1.02 - 1.52	46.84	27.94	.762 - 1.27	47.32	34.57	2.79 - 3.30
45.11	31.37	1.52 - 2.03	45.72	7.823	1.27 - 1.78	45.97	28.70	2.54 - 3.18	46.28	40.28	.762 - 1.27	46.84	32.08	.127 - .254	47.32	34.93	2.29 - 2.79
45.11	32.05	1.52 - 2.03	45.72	12.01	.635 - 1.02	45.97	37.19	.127 - .254	46.30	11.02	1.27 - 1.78	46.84	41.25	.127 - .254	47.32	38.13	2.67 - 3.18
45.11	36.88	.762 - 1.27	45.72	12.07	.127 - .508	45.97	38.56	1.02 - 1.57	46.30	27.08	.508 - 1.02	46.86	3.556	1.02 - 1.52	47.32	40.06	.127 - .254
45.11	40.03	.381 - .635	45.72	12.45	2.29 - 2.79	45.97	40.21	.127 - 1.52	46.30	28.83	.254 - 2.54	46.86	9.931	1.27 - 1.78	47.35	37.64	.127 - .254
45.14	25.35	.254 - .508	45.72	12.80	.127 - .254	46.00	6.985	.127 - .254	46.30	30.61	.508 - .762	46.86	16.79	2.67 - 3.18	47.37	8.992	1.78 - 2.29
45.14	28.19	.381 - .762	45.72	12.83	.127 - .508	46.00	7.950	1.27 - 1.52	46.30	31.75	.889 - 1.27	46.86	30.23	2.67 - 3.18	47.37	19.56	1.27 - 1.78
45.16	5.055	.508 - 1.02	45.72	12.													

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
47.50	12.70	.254 - 3.18	47.60	29.97	.762 - 1.27	47.65	19.43	3.18 - 3.96	47.90	36.73	1.27 - 1.91	48.29	18.44	2.67 - 3.18	48.82	35.81	2.03 - 2.64
47.50	12.83	.254 - 3.18	47.60	30.53	.381 - .635	47.65	25.58	.381 - .813	47.93	17.02	1.02 - 1.52	48.29	19.30	3.05 - 3.56	48.84	9.906	.381 - .762
47.50	16.31	.127 - .254	47.60	31.93	1.78 - 2.29	47.65	28.68	.381 - .762	47.93	30.12	.254 - .508	48.29	19.84	2.67 - 3.18	48.84	22.38	2.67 - 3.43
47.50	16.79	2.67 - 3.18	47.60	32.56	.254 - 1.78	47.65	29.36	2.67 - 3.43	47.93	33.02	1.02 - 1.52	48.29	38.13	.254 - .508	48.84	30.00	.635 - 1.02
47.50	17.68	1.52 - 2.03	47.60	33.81	.127 - .254	47.65	31.93	2.67 - 3.43	47.96	19.18	.127 - .254	48.31	16.03	.127 - .254	48.84	32.05	2.03 - 2.64
47.50	17.73	1.27 - 1.91	47.60	36.65	1.27 - 1.78	47.65	32.00	.127 - 1.02	47.96	20.02	1.27 - 1.78	48.31	27.97	1.02 - 1.57	48.84	38.94	1.27 - 1.78
47.50	20.19	1.02 - 1.52	47.60	36.83	3.81 - 4.32	47.65	32.13	.635 - 1.02	47.98	19.30	.381 - .762	48.31	28.93	2.29 - 3.18	48.84	43.54	.254 - .508
47.50	22.35	1.07 - 1.57	47.60	37.57	.508 - .762	47.65	35.05	.254 - .508	48.01	9.652	2.67 - 3.43	48.31	31.90	2.11 - 2.64	48.87	8.001	.381 - .762
47.50	22.89	.127 - .254	47.60	38.48	.254 - .508	47.65	35.08	.381 - 1.02	48.01	13.00	.127 - .254	48.31	36.07	.508 - 1.02	48.87	17.55	1.27 - 1.78
47.50	23.09	.381 - .762	47.60	40.51	.762 - 1.14	47.65	35.10	.508 - 1.02	48.01	16.00	.127 - .254	48.31	39.88	.127 - .254	48.87	21.84	1.57 - 2.11
47.50	23.14	.127 - .254	47.60	41.28	.381 - .762	47.65	36.53	2.54 - 3.18	48.01	16.46	2.67 - 3.18	48.34	12.32	.635 - 1.02	48.87	24.71	1.57 - 2.11
47.50	25.50	.508 - .762	47.60	41.33	.635 - 1.02	47.65	38.30	.508 - 1.52	48.01	25.98	.254 - .635	48.34	18.26	.254 - 3.18	48.87	27.13	.635 - 1.02
47.50	26.21	2.67 - 3.18	47.60	44.50	.254 - .508	47.65	40.44	2.29 - 2.67	48.01	30.99	1.02 - 2.29	48.34	26.19	1.27 - 1.78	48.87	27.43	1.57 - 2.11
47.50	30.38	.254 - .508	47.63	4.039	.254 - .508	47.65	41.78	.508 - 1.02	48.01	31.90	1.02 - 1.52	48.34	35.66	.381 - .635	48.87	29.90	1.57 - 2.11
47.50	32.33	.254 - .508	47.63	5.182	2.54 - 3.18	47.65	44.50	.508 - .762	48.01	35.00	.762 - 1.27	48.36	38.35	.635 - 1.02	48.87	29.97	1.57 - 2.11
47.50	35.36	.254 - .381	47.63	6.350	1.27 - 2.67	47.65	44.81	.254 - .508	48.01	35.15	.127 - .254	48.36	39.75	.254 - .508	48.87	32.03	1.27 - 1.78
47.50	36.02	.127 - .254	47.63	8.052	.381 - .762	47.68	8.128	2.54 - 3.18	48.01	35.28	.254 - .508	48.39	29.46	.127 - .254	48.87	32.08	1.57 - 2.11
47.50	36.04	.254 - .508	47.63	8.128	2.67 - 3.18	47.68	13.34	.381 - .762	48.01	38.00	.508 - 1.02	48.39	38.35	.127 - .254	48.87	32.13	.127 - .254
47.50	38.20	.635 - 1.02	47.63	9.525	1.02 - 1.52	47.68	25.60	.381 - .762	48.01	38.35	.254 - .508	48.39	40.39	.254 - .762	48.87	34.06	1.57 - 2.11
47.50	38.43	1.52 - 2.29	47.63	10.36	1.52 - 2.03	47.68	34.95	.127 - .254	48.01	39.67	.127 - .254	48.39	41.33	.635 - 1.02	48.87	35.81	1.57 - 2.11
47.50	43.51	1.27 - 1.52	47.63	10.39	2.29 - 3.05	47.68	38.23	1.78 - 2.29	48.01	41.00	1.02 - 1.52	48.39	41.66	2.03 - 2.54	48.90	8.331	.762 - 1.02
47.52	25.63	.127 - .254	47.63	11.10	.127 - .254	47.68	38.74	.381 - .762	48.03	25.40	.203 - .381	48.41	4.928	1.78 - 2.29	48.90	14.33	.254 - .508
47.52	32.00	3.96 - 4.75	47.63	11.43	2.67 - 3.18	47.68	38.79	1.27 - 1.78	48.03	43.66	.254 - .508	48.41	8.026	1.52 - 2.03	48.90	14.55	.381 - .762
47.52	34.98	1.27 - 1.78	47.63	12.95	2.29 - 3.18	47.68	39.70	.635 - 1.02	48.06	25.12	.127 - .254	48.41	9.677	2.29 - 3.05	48.90	17.53	1.27 - 1.78
47.52	35.99	1.52 - 2.03	47.63	15.75	1.57 - 1.91	47.68	41.58	.762 - 1.02	48.06	34.72	2.54 - 3.18	48.41	10.39	1.27 - 1.78	48.90	19.15	1.52 - 2.03
47.52	44.96	.381 - .762	47.63	15.90	.381 - .762	47.70	15.77	.127 - .508	48.06	43.66	.127 - .254	48.41	33.38	2.03 - 2.67	48.90	31.83	.127 - .254
47.55	15.90	1.27 - 1.91	47.63	15.98	1.02 - 1.52	47.70	16.64	2.29 - 3.05	48.08	12.90	2.64 - 3.18	48.41	39.55	.381 - .762	48.90	33.45	.508 - 1.02
47.55	16.05	3.96 - 4.75	47.63	16.05	2.64 - 3.43	47.70	17.53	.127 - .254	48.08	13.59	2.54 - 3.18	48.41	40.39	.381 - .635	48.90	35.33	.635 - 1.02
47.55	19.20	.127 - .254	47.63	18.24	1.57 - 1.91	47.70	19.15	3.18 - 3.96	48.11	22.05	.508 - .762	48.44	9.271	1.52 - 2.03	48.90	38.35	.254 - .508
47.55	22.63	.127 - .254	47.63	19.23	.127 - .254	47.70	20.62	2.67 - 3.18	48.11	29.97	.127 - .254	48.44	29.39	3.05 - 3.40	48.90	39.47	1.27 - 1.91
47.55	23.09	.254 - .635	47.63	19.84	1.91 - 2.29	47.70	26.75	.127 - .254	48.11	38.99	1.27 - 1.78	48.44	37.72	1.78 - 2.29	48.90	43.56	1.57 - 2.11
47.55	32.00	1.91 - 3.43	47.63	22.23	.381 - .762	47.70	38.10	1.52 - 2.03	48.13	9.601	2.54 - 3.18	48.46	22.28	.254 - .508	48.92	39.47	.508 - 1.02
47.55	33.48	1.02 - 1.52	47.63	22.25	.254 - .508	47.70	38.23	.254 - .508	48.13	29.44	.127 - .254	48.49	20.37	2.03 - 2.54	48.92	42.77	.813 - 1.52
47.55	35.23	.127 - .254	47.63	22.61	2.79 - 3.30	47.70	41.91	.762 - 1.02	48.13	40.18	.381 - .762	48.49	31.75	.508 - 1.02	48.92	42.95	.762 - 1.07
47.55	38.33	.127 - .254	47.63	22.63	1.02 - 1.52	47.73	13.28	.127 - .254	48.16	12.90	2.67 - 3.43	48.49	32.39	.127 - .254	48.95	12.19	.127 - .254
47.55	38.43	.127 - .254	47.63	23.01	2.67 - 3.18	47.73	26.14	3.05 - 3.43	48.16	19.10	.127 - .254	48.49	34.24	.127 - .254	48.95	20.57	.127 - .254
47.57	4.496	1.27 - 1.78	47.63	23.77	2.67 - 3.43	47.73	28.70	.127 - .254	48.16	19.33	.127 - .254	48.51	29.44	1.02 - 1.52	48.97	13.54	.203 - .508
47.57	6.401	.127 - .381	47.63	26.95	1.27 - 1.78	47.73	28.96	.127 - .254	48.18	7.849	.127 - .254	48.51	36.50	2.54 - 3.18	48.97	32.13	.635 - 1.02
47.57	9.804	2.29 - 3.18	47.63	27.23	1.78 - 2.29	47.73	31.88	1.78 - 2.29	48.18	35.92	.127 - .254	48.51	36.53	2.67 - 3.18	48.97	40.26	.127 - .254
47.57	12.14	.127 - .254	47.63	27.76	.635 - 1.02	47.73	36.35	1.52 - 1.78	48.21	7.747	.127 - .254	48.51	40.89	.254 - .508	48.97	42.27	1.78 - 2.29
47.57	15.88	2.54 - 3.18	47.63	28.27	2.03 - 2.64	47.73	37.16	.381 - .762	48.21	12.98	3.05 - 3.43	48.51	41.66	2.67 - 3.18	49.00	39.37	.381 - .635
47.57	19.05	2.54 - 3.18	47.63	28.83	1.27 - 1.78	47.73	38.13	.381 - .762	48.21	15.98	.254 - .508	48.54	41.43	.127 - .254	49.02	9.525	.813 - 1.22
47.57	21.44	2.67 - 3.43	47.63	28.96	.254 - 1.07	47.73	39.70	.635 - 1.02	48.21	16.15	3.05 - 3.43	48.56	44.65	.762 - 1.27	49.02	11.46	.381 - .635
47.57	22.40	.381 - .762	47.63	29.01	.178 - .406	47.73	40.77	.635 - 1.02	48.21	19.15	.127 - .254	48.56	45.75	.508 - .762	49.02	30.00	1.27 - 1.78
47.57	28.96	2.54 - 3.18	47.63	29.26	.127 - .254	47.73	42.85	.254 - .508	48.21	23.11	1.27 - 1.91	48.59	27.84	.127 - .254	49.02	37.54	.254 - .508
47.57	32.00	1.65 - 2.03	47.63	29.36	.813 - 3.18	47.75	14.86	3.96 - 4.75	48.23	4.928	.127 - .254	48.59	33.96	.381 - .762	49.02	38.91	.254 - .508
47.57	34.26	.762 - 1.27	47.63	29.74	2.54 - 3.18	47.75	24.38	.127 - .254	48.23	8.636	3.96 - 4.83	48.59	44.58	.127 - .254	49.02	40.64	.635 - 1.07
47.57	35.08	2.29 - 3.18	47.63	30.18	.381 - 1.78	47.75	25.40	1.27 - 1.78	48.23	9.652	.762 - 1.27	48.59	45.19	.127 - .254	49.02	41.91	.127 - .254
47.57	35.20	2.54 - 3.40	47.63	31.60	1.02 - 1.57	47.75	28.73	.635 - 1.02	48.23	11.10	3.96 - 4.83	48.64	6.477	.508 - .762	49.02	46.33	.127 - .762
47.57	36.50	2.54 - 3.18	47.63	31.75	.508 - 1.02	47.75	30.30	.381 - .762	48.23	15.98	.381 - .762	48.64	31.98	2.54 - 3.18	49.02	47.75	.254 - .508
47.57	36.68	1.57 - 1.91	47.63	31.85	.127 - .254	47.75	32.31	1.02 - 1.52	48.23	16.00	.127 - .254	48.64	34.19	1.02 - 1.52	49.05	4.597	.381 - .635
47.57	38.30	.127 - .508	47.63	31.95	.762 - 1.27	47.75	35.36	1.78 - 2.03	48.23	25.78	1.02 - 1.52	48.64	40.28	.178 - .381	49.05	14.38	3.96 - 4.83
47.57	38.94	.127 - .254	47.63	31.98	.508 - 1.02	47.75	37.21	.127 - .254	48.26	6.426	1.27 - 1.52	48.67	24.54	1.27 - 1.78	49.05	40.51	.127 - .508
47.57	41.63	.127 - .254	47.63	32.00	1.52 - 2.29	47.75	44.68	.127 - .254	48.26	9.601	.762 - 1.91	48.69	31.95	3.18 - 3.96	49.07	28.60	3.30 - 3.81
47.57	42.44	.127 - .381	47.63	33.27	1.02 - 1.57	47.75	45.06	.254 - .508	48.26	12.70	.127 - .254	48.72	35.18	.381 - .635	49.07	41.30	1.02 - 1.52
47.57	44.04	.254 - .508	47.63	34.42	1.78 - 2.29	47.75	46.08	.381 - .762	48.26	12.75	.127 - .254	48.72	35.81	1.57 - 2.11	49.07	43.05	.635 - 1.02
47.60	5.563	2.54 - 3.40	47.63	34.52	.381 - .762	47.78	19.96	.254 - .635	48.26	15.90	.127 - .508	48.72	38.58	1.27 - 1.78	49.07	45.19	.127 - .254
47.60	6.401	.127 - .254	47.63	34.80	1.52 - 2.11	47.78	30.58	.381 - .762	48.26	16.00	.127 - .254	48.72	41.45	.127 - .254	49.10	19.05	3.30 - 3.81
47.60	6.756	1.78 - 2.2															

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
49.17	40.28	2.29 - 2.54	49.56	25.40	2.67 - 3.43	49.99	26.11	.127 - .254	50.32	44.09	.127 - .254	50.67	11.51	1.52 - 2.03	50.77	9.855	2.67 - 3.43
49.17	42.06	1.27 - 1.78	49.56	30.51	.762 - 1.27	49.99	29.21	.127 - .254	50.34	19.30	.381 - .762	50.67	16.10	.127 - .254	50.77	10.31	4.06 - 4.83
49.17	43.66	.127 - .254	49.56	45.24	.127 - .254	49.99	30.05	.127 - .254	50.34	40.87	2.11 - 2.64	50.67	19.05	2.67 - 3.18	50.77	10.34	2.54 - 3.18
49.17	44.20	.127 - .254	49.58	20.62	1.02 - 1.52	49.99	31.83	.762 - 1.27	50.37	13.08	.762 - 1.27	50.67	22.50	2.29 - 3.05	50.77	11.48	2.54 - 3.18
49.20	16.54	2.67 - 3.18	49.58	26.80	.508 - 1.02	49.99	35.41	.127 - .254	50.37	23.22	.127 - .254	50.67	25.40	.762 - 1.27	50.77	12.29	1.78 - 2.29
49.20	25.78	1.91 - 2.29	49.58	27.15	2.29 - 2.79	49.99	35.59	1.52 - 1.78	50.37	41.35	.508 - 1.02	50.67	28.65	3.05 - 3.43	50.77	13.08	3.96 - 4.75
49.20	25.93	3.96 - 4.75	49.58	40.44	.762 - 1.27	49.99	38.13	.381 - .762	50.39	5.817	.127 - .254	50.67	38.10	1.22 - 1.57	50.77	14.27	2.54 - 3.18
49.20	27.41	.127 - .254	49.61	34.93	1.02 - 1.52	49.99	40.08	.381 - 3.18	50.39	10.03	.127 - 4.83	50.67	41.55	.381 - .762	50.77	16.94	.762 - 1.02
49.20	29.39	.508 - 1.02	49.61	36.09	.127 - .254	49.99	41.28	.381 - .762	50.39	39.22	.127 - .381	50.67	42.24	.508 - 1.02	50.77	17.45	3.96 - 4.75
49.20	32.00	1.02 - 1.57	49.63	9.576	1.27 - 1.91	49.99	42.98	1.02 - 1.52	50.42	30.63	1.78 - 2.29	50.67	44.65	.381 - .762	50.77	17.55	3.05 - 3.56
49.20	32.59	.127 - .254	49.63	10.69	1.27 - 1.78	49.99	43.97	.127 - .254	50.42	35.51	.254 - .762	50.67	46.18	.381 - .762	50.77	19.02	.635 - 1.02
49.20	32.61	.381 - .762	49.63	28.14	3.18 - 3.96				50.42	40.39	.254 - .508	50.70	6.833	.127 - .254	50.77	19.05	3.96 - 4.75
49.20	35.53	.762 - 1.27	49.63	41.33	.127 - .254				50.42	43.00	.127 - .254	50.70	9.677	.127 - .254	50.77	19.13	.508 - .762
49.20	36.47	.762 - 1.27	49.66	10.69	1.27 - 1.78				50.42	43.05	1.02 - 1.52	50.70	9.931	2.67 - 3.18	50.77	20.24	.508 - 1.02
49.20	38.05	.635 - 1.02	49.66	25.50	3.56 - 4.06				50.42	47.24	.254 - .508	50.70	16.43	.127 - .254	50.77	20.65	3.43 - 3.96
49.20	38.79	.127 - .254	49.66	38.43	.508 - 1.07				50.44	13.72	.127 - .254	50.70	19.51	.127 - .254	50.77	23.80	1.91 - 2.29
49.20	38.81	1.27 - 1.91	49.66	38.58	2.03 - 2.64				50.44	30.61	3.43 - 3.96	50.70	20.85	.127 - .254	50.77	24.82	.381 - .762
49.20	42.09	.254 - .508	49.66	45.21	.127 - .254				50.44	39.27	.127 - .254	50.70	26.54	.127 - .254	50.77	25.40	.762 - 1.02
49.20	42.29	1.27 - 1.78	49.68	25.27	1.27 - 2.29				50.47	17.04	2.54 - 3.05	50.70	28.45	3.43 - 3.96	50.77	25.78	.127 - .254
49.20	44.02	1.02 - 1.52	49.68	25.91	1.27 - 1.78				50.47	22.56	1.27 - 1.78	50.70	35.66	.127 - .254	50.77	26.24	4.06 - 4.83
49.20	45.95	.127 - .254	49.68	38.61	.127 - .254	50.01	12.75	.127 - .254	50.47	33.35	.762 - 1.02	50.70	38.20	.254 - .508	50.77	26.26	.127 - .254
49.23	8.103	.381 - .762	49.68	39.73	.254 - .381	50.01	22.38	.381 - .762	50.50	22.35	1.27 - 1.78	50.70	42.32	.127 - .254	50.77	29.03	.127 - .254
49.23	33.38	1.27 - 1.78	49.71	35.94	.762 - 1.27	50.01	34.01	1.27 - 1.52	50.50	22.83	.127 - .254	50.70	44.48	1.27 - 1.78	50.77	32.74	.635 - 1.02
49.23	35.43	.127 - .254	49.73	9.906	3.43 - 3.96	50.01	35.05	1.78 - 2.29	50.50	38.02	.127 - .254	50.70	46.99	.254 - .508	50.77	33.22	.127 - .508
49.23	37.29	.762 - 1.27	49.76	47.27	.127 - .254	50.01	36.58	.254 - .508	50.50	40.01	1.27 - 1.91	50.72	7.874	2.03 - 2.54	50.77	38.20	.635 - 1.07
49.23	38.15	.635 - 1.02	49.78	19.15	3.05 - 3.40	50.01	37.29	.254 - .508	50.50	40.28	.508 - 1.07	50.72	10.34	1.27 - 1.78	50.77	39.62	.127 - .254
49.23	38.23	1.52 - 2.03	49.78	22.10	3.81 - 4.32	50.01	37.31	.762 - 1.78	50.52	19.05	.508 - .762	50.72	12.70	2.67 - 3.18	50.77	42.04	1.02 - 1.52
49.23	44.65	.127 - .254	49.78	25.68	2.67 - 3.05	50.01	37.34	2.67 - 3.18	50.52	19.96	2.67 - 3.43	50.72	14.25	.127 - .254	50.77	42.80	.508 - .762
49.23	45.95	.127 - .254	49.78	27.05	1.78 - 2.29	50.01	41.35	.381 - .762	50.52	22.23	2.54 - 3.18	50.72	15.82	3.96 - 4.83	50.77	42.98	.762 - 1.02
49.25	3.200	.762 - 1.27	49.78	38.10	.508 - 1.02	50.01	42.09	1.27 - 1.78	50.52	44.53	.762 - 1.27	50.72	17.78	.127 - .254	50.80	4.064	.127 - .381
49.25	26.97	1.52 - 1.78	49.78	40.23	.254 - .508	50.01	42.98	.762 - 1.27	50.55	5.639	.127 - .254	50.72	18.29	.508 - .889	50.80	4.191	1.27 - 1.78
49.25	35.05	2.79 - 3.30	49.78	41.12	.508 - 1.02	50.04	10.49	2.67 - 3.18	50.55	6.223	.127 - .254	50.72	19.46	.254 - .508	50.80	4.572	.127 - .254
49.25	40.08	.762 - 1.27	49.78	41.71	.127 - .254	50.04	14.12	.762 - 1.27	50.55	7.137	3.18 - 3.43	50.72	23.19	.127 - .254	50.80	4.928	.914 - 1.27
49.25	42.27	.508 - .762	49.78	42.52	.127 - .254	50.04	15.09	.254 - .508	50.55	8.052	.127 - .254	50.72	25.93	.762 - 1.27	50.80	5.207	1.52 - 3.18
49.28	17.45	2.29 - 2.67	49.78	43.48	.127 - .254	50.04	23.83	2.29 - 2.79	50.55	8.077	.178 - .305	50.72	26.95	1.27 - 1.91	50.80	5.334	2.67 - 3.43
49.28	22.35	1.65 - 2.03	49.78	47.29	.127 - .254	50.04	36.25	.127 - .254	50.55	13.36	.127 - .254	50.72	27.20	.127 - .254	50.80	5.613	.762 - 1.27
49.28	29.34	2.03 - 2.54	49.81	30.18	.254 - .508	50.04	36.27	.508 - 1.02	50.55	16.54	2.67 - 3.43	50.72	31.85	.127 - .254	50.80	6.350	.635 - 3.18
49.28	32.00	.127 - .254	49.81	33.02	.508 - .762	50.04	38.10	1.27 - 1.78	50.55	17.48	1.27 - 1.78	50.72	35.92	.127 - .254	50.80	6.426	.127 - .254
49.28	32.03	.762 - 1.78	49.81	33.32	1.27 - 2.11	50.04	41.40	.127 - .254	50.55	19.15	.127 - .254	50.72	38.18	2.03 - 2.67	50.80	6.477	.762 - 1.52
49.28	35.61	.381 - .762	49.81	40.23	2.29 - 3.18	50.04	42.01	1.02 - 1.52	50.55	22.68	.127 - .254	50.72	40.23	.127 - .254	50.80	6.629	1.52 - 2.03
49.28	35.81	1.02 - 1.52	49.83	44.07	.203 - .508	50.04	42.98	.254 - .508	50.55	34.95	1.02 - 1.52	50.72	46.96	.127 - .254	50.80	6.756	1.02 - 1.52
49.28	44.93	.127 - .254	49.86	7.137	.127 - .254	50.04	46.08	.381 - .762	50.55	35.03	2.36 - 3.18	50.75	6.375	2.67 - 3.18	50.80	6.858	2.03 - 2.54
49.30	41.33	1.65 - 2.03	49.86	12.22	.127 - .254	50.06	32.21	2.36 - 3.18	50.55	38.58	1.52 - 2.03	50.75	8.331	.127 - .254	50.80	7.163	1.52 - 2.03
49.30	41.38	1.91 - 2.29	49.86	39.75	.635 - 1.02	50.06	39.14	.127 - .762	50.55	45.19	.381 - .762	50.75	10.82	.127 - .254	50.80	7.391	1.27 - 1.91
49.33	7.976	2.67 - 3.18	49.89	7.137	.381 - .762	50.09	9.627	.381 - .762	50.57	8.052	2.67 - 3.30	50.75	11.20	3.05 - 3.43	50.80	7.569	.127 - .254
49.33	29.39	2.03 - 2.54	49.89	40.03	.381 - .635	50.09	12.83	.381 - .762	50.57	16.59	2.29 - 3.05	50.75	12.70	.508 - 1.27	50.80	7.595	.508 - 1.02
49.33	44.35	.381 - .762	49.89	40.11	.127 - 1.02	50.09	22.23	2.67 - 3.18	50.57	17.45	.7						

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
50.80	16.36	2.29 - 2.67	50.80	40.36	.127 - .254	51.00	33.50	.127 - .254	51.87	33.32	1.27 - 1.78	52.32	22.61	2.03 - 2.64	53.34	19.13	.635 - 1.02
50.80	16.69	2.54 - 3.18	50.80	41.28	1.27 - 1.52	51.00	35.36	.127 - .305	51.87	41.40	1.02 - 1.52	52.32	28.98	1.02 - 1.52	53.34	20.17	.254 - .508
50.80	17.02	2.29 - 3.18	50.80	41.30	2.67 - 3.18	51.00	42.57	1.78 - 2.29	51.87	45.59	1.27 - 1.91	52.32	36.53	.762 - 1.27	53.34	35.33	.508 - .762
50.80	17.40	2.03 - 2.67	50.80	41.53	.127 - .381	51.00	45.75	.254 - .508	51.87	49.28	.508 - .762	52.32	36.83	.635 - 1.07	53.34	35.71	1.27 - 1.78
50.80	17.58	2.29 - 3.05	50.80	41.88	.127 - .508	51.03	6.071	1.02 - 1.52	51.89	46.36	.381 - .762	52.32	38.38	.127 - .254	53.34	41.66	.127 - .381
50.80	17.78	.508 - .762	50.80	42.01	.127 - 2.67	51.03	45.29	1.78 - 2.29	51.89	49.28	.254 - .508	52.32	38.61	1.02 - 1.52	53.34	42.06	2.67 - 3.18
50.80	19.05	2.67 - 3.18	50.80	42.42	.635 - 1.02	51.03	45.82	.762 - 1.27	51.92	26.04	1.27 - 1.78	52.32	41.38	.381 - .762	53.34	46.36	.127 - .254
50.80	19.10	.254 - .508	50.80	43.05	.127 - .254	51.05	14.40	2.67 - 3.18	51.92	46.38	.254 - .508	52.32	42.47	.508 - 1.02	53.34	46.48	.254 - .508
50.80	19.13	.127 - .254	50.80	44.42	.254 - 1.52	51.05	16.87	.762 - 1.27	51.94	8.738	1.02 - 1.52	52.32	45.85	.127 - .254	53.34	48.26	1.27 - 1.91
50.80	19.25	.127 - .254	50.80	44.58	2.03 - 2.54	51.05	20.12	3.05 - 3.56	51.94	18.34	.127 - .762	52.35	32.79	1.52 - 2.03	53.34	49.10	.127 - .254
50.80	19.33	2.29 - 2.79	50.80	45.21	.381 - 1.02	51.05	27.53	.127 - .254	51.94	18.39	.127 - 1.27	52.35	44.04	.508 - .889	53.34	50.06	.254 - .508
50.80	19.79	.127 - .254	50.80	45.97	.127 - .508	51.05	37.34	1.27 - 1.78	51.94	31.90	1.27 - 1.78	52.37	9.449	.127 - .254	53.37	14.33	.254 - .508
50.80	19.81	.381 - .762	50.80	46.81	.254 - .635	51.05	43.15	1.27 - 1.78	51.94	34.14	1.02 - 1.52	52.37	13.08	2.54 - 3.18	53.37	43.97	.635 - 1.02
50.80	19.84	.127 - 1.52	50.80	52.43	.381 - .762	51.05	43.31	.127 - .254	51.94	43.26	.127 - .254	52.37	15.88	.127 - .813	53.39	20.12	.762 - 1.02
50.80	19.96	.127 - .254	50.83	5.029	.254 - .508	51.10	31.75	.508 - 1.02	51.94	43.94	.254 - .508	52.37	16.00	1.27 - 1.78	53.42	45.24	.254 - .508
50.80	20.24	.508 - 1.02	50.83	6.223	.127 - .254	51.13	25.48	.381 - .762	51.94	47.78	.127 - .254	52.37	19.46	1.02 - 1.52	53.44	31.75	1.52 - 2.03
50.80	20.62	2.03 - 2.67	50.83	6.350	2.54 - 3.18	51.13	38.15	.508 - 1.02	51.97	39.01	1.52 - 2.03	52.37	34.82	1.78 - 2.29	53.44	42.67	1.02 - 1.52
50.80	22.23	.254 - .508	50.83	8.001	2.67 - 3.05	51.13	42.11	.127 - .254	51.97	40.92	1.78 - 2.29	52.37	35.08	.381 - 1.02	53.49	45.92	.381 - .762
50.80	22.25	2.67 - 3.18	50.83	8.763	3.18 - 3.43	51.18	35.13	.762 - 1.02	51.97	43.94	.508 - .762	52.40	9.957	1.27 - 1.78	53.49	46.08	1.27 - 1.91
50.80	22.35	.254 - .508	50.83	9.525	2.67 - 3.18	51.21	42.85	.127 - .254	51.97	47.52	1.02 - 1.52	52.40	19.08	.762 - 1.27	53.52	7.976	2.67 - 3.18
50.80	23.01	.381 - 1.52	50.83	9.677	.508 - .762	51.23	41.00	.508 - 1.02	51.99	14.00	1.52 - 2.03	52.40	26.97	.127 - .254	53.54	45.75	1.91 - 2.29
50.80	24.82	.635 - 1.02	50.83	11.35	.127 - .254	51.26	38.35	.762 - 1.27	51.99	18.97	.381 - .762	52.40	33.32	.127 - .254	53.57	43.84	.635 - 1.02
50.80	24.87	.508 - 1.02	50.83	12.67	4.32 - 4.83	51.28	12.75	.762 - 1.27	51.99	20.50	1.78 - 2.29	52.40	41.35	.127 - .254	53.57	46.46	2.03 - 2.54
50.80	25.40	1.40 - 1.78	50.83	12.73	.381 - .762	51.28	12.90	1.27 - 1.78	51.99	21.03	.635 - 1.02	52.45	39.73	1.02 - 1.78	53.62	36.47	.254 - .508
50.80	25.53	.127 - .254	50.83	15.04	3.05 - 3.43	51.28	41.22	.381 - .762	51.99	24.51	.635 - 1.02	52.45	39.88	1.27 - 1.78	53.64	32.00	2.03 - 2.67
50.80	25.55	2.11 - 2.67	50.83	19.05	.127 - .254	51.31	7.112	2.54 - 3.18	51.99	25.02	1.78 - 2.03	52.45	43.74	.381 - .762	53.64	38.33	.508 - 1.02
50.80	25.76	.889 - 1.52	50.83	19.18	.127 - .254	51.31	39.40	2.03 - 2.54	51.99	27.99	1.52 - 2.03	52.45	47.17	1.91 - 2.29	53.64	46.51	1.27 - 1.78
50.80	25.78	1.27 - 1.91	50.83	20.65	.127 - .254	51.31	42.72	.381 - .762	51.99	32.36	.127 - .254	52.48	43.64	.762 - 1.27	53.67	6.502	.152 - .406
50.80	25.91	.381 - .762	50.83	20.68	1.52 - 2.03	51.33	15.34	.127 - .254	51.99	35.99	1.52 - 2.03	52.58	29.97	2.03 - 2.64	53.67	22.25	.381 - .762
50.80	26.16	.254 - 3.18	50.83	23.93	2.67 - 3.43	51.33	25.76	.127 - .254	51.99	42.98	1.52 - 2.03	52.58	38.86	.508 - .762	53.67	38.02	1.78 - 2.29
50.80	26.19	1.27 - 1.78	50.83	25.91	.381 - .762	51.33	42.39	.381 - .762	51.99	45.03	.381 - .762	52.58	45.21	2.29 - 2.67	53.67	38.99	.254 - .508
50.80	26.92	.381 - .762	50.83	28.07	2.03 - 2.64	51.36	30.07	.254 - .508	51.99	46.00	.635 - 1.02	52.60	44.42	.254 - .508	53.67	44.07	1.02 - 1.52
50.80	26.97	2.54 - 3.18	50.83	29.34	2.67 - 3.18	51.41	20.57	.762 - 1.27	52.02	7.518	.127 - .254	52.63	32.44	.381 - .762	53.67	48.01	.508 - 1.02
50.80	27.03	2.54 - 3.18	50.83	32.56	2.67 - 3.18	51.44	38.89	1.27 - 1.78	52.02	15.90	.127 - .254	52.68	15.95	.127 - .254	53.67	48.67	.127 - .254
50.80	27.31	.381 - .762	50.83	33.32	1.27 - 1.78	51.44	40.64	.254 - .508	52.02	16.03	.127 - .254	52.68	38.10	1.02 - 1.52	53.70	30.23	.635 - 1.02
50.80	27.69	.127 - .254	50.83	35.48	.381 - .635	51.46	47.60	1.02 - 1.52	52.02	32.00	1.78 - 2.29	52.71	50.01	.762 - 1.27	53.70	48.26	.381 - .762
50.80	28.14	1.02 - 1.52	50.83	38.23	.127 - .254	51.49	40.01	.381 - .762	52.02	35.00	.762 - 1.27	52.73	41.38	1.27 - 1.78	53.72	25.04	2.03 - 2.54
50.80	28.58	.381 - 1.57	50.83	38.66	.127 - .254	51.54	31.04	.127 - .254	52.02	35.23	.127 - .254	52.76	29.34	2.03 - 2.64	53.72	44.75	.508 - .762
50.80	28.73	.762 - 1.57	50.83	40.21	.635 - 1.02	51.54	41.30	1.27 - 1.78	52.02	35.38	1.78 - 2.29	52.76	35.05	2.03 - 2.64	53.75	33.78	.762 - 1.27
50.80	29.41	.635 - 1.07	50.83	40.69	.762 - 1.27	51.54	44.58	.127 - .254	52.02	44.40	.508 - 1.02	52.76	41.63	.762 - 1.27	53.77	29.26	.127 - .254
50.80	29.59	.508 - 1.02	50.85	2.565	.127 - .254	51.56	23.77	1.27 - 1.78	52.04	30.71	.127 - .254	52.76	43.66	.762 - 1.27	53.77	44.81	.127 - .254
50.80	29.62	.127 - .254	50.85	9.652	2.29 - 3.40	51.56	26.92	1.27 - 1.78	52.04	47.09	.127 - .254	52.78	31.42	.127 - .254	53.80	35.10	1.78 - 2.29
50.80	30.23	2.03 - 4.75	50.85	11.10	1.27 - 1.91	51.56	30.07	1.27 - 1.78	52.07	3.556	1.52 - 2.03	52.78	41.15	.127 - .254	53.80	38.30	2.67 - 3.18
50.80	30.45	.127 - .254	50.85	12.95	.127 - .254	51.56	33.27	1.27 - 1.78	52.07	6.426	.127 - .254	52.78	42.95	1.27 - 1.52	53.80	39.04	.127 - .254
50.80	30.51	2.03 - 2.54	50.85	13.54	3.96 - 4.75	51.56	36.42	1.27 - 1.78	52.07	10.31	2.67 - 3.18	52.81	44.45	1.52 - 2.03	53.80	40.89	1.78 - 2.03
50.80	30.68	1.27 - 1.91	50.85	16.89	2.67 - 3.05	51.56	38.10	.127 - .254	52.07	12.85	.127 - .254	52.83	21.18	1.78 - 2.29	53.80	41.68	1.52 - 2.03
50.80	30.91	.127 - .254	50.85	21.72	.127 - .254	51.56	43.56	.406 - .762	52.07	15.90	.254 - .508	52.83	40.64	.127 - 1.02	53.80	47.93	.635 - 1.02
50.80	30.99	.889 - 1.52	50.85	32.41	1.27 - 1.78	51.59	23.77	.127 - .254	52.07	15.93	.254 - .508	52.83	43.05	2.29 - 2.67	53.82	26.95	1.91 - 2.29
50.80	31.70	3.96 - 4.75	50.85	35.08	.508 - .762	51.59	44.58	.127 - .762	52.07	15.98	.127 - .254	52.83	43.66	.762 - 1.02	53.82	38.18	.127 - .254
50.80	31.75	.203 - 1.02	50.85	35.31	.254 - .508	51.61	12.42	.127 - .254	52.07	16.00	.127 - .508	52.86	20.83	1.07 - 1.52	53.82	38.40	.127 - .254
50.80	31.83	.254 - 3.96	50.85	38.13	1.27 - 1.91	51.61	22.35	.127 - .254	52.07	16.54	2.03 - 2.54	52.86	26.92	.254 - .508	53.82	40.31	1.27 - 1.78
50.80	31.90	1.27 - 1.78	50.85	38.86	.635 - .889	51.64	22.28	.635 - 1.02	52.07	18.57	.254 - .508	52.88	47.83	.127 - .254	53.85	15.95	1.27 - 1.91
50.80	32.05	2.11 - 2.64	50.85	39.62	2.67 - 3.43	51.64	38.74	.254 - .762	52.07	36.20	.762 - 1.27	52.88	49.33	.508 - .762	53.85	20.57	.381 - .762
50.80	32.08	1.27 - 1.91	50.85	41.40	1.27 - 1.78	51.64	39.67	.508 - .762	52.07	42.16	1.91 - 2.29	52.91	36.58	.127 - .254	53.85	22.23	1.02 - 1.57
50.80	32.11	2.29 - 3.05	50.85	44.02	2.03 - 2.67	51.64	44.32	.254 - .508	52.07	43.38	1.02 - 1.52	52.96	36.30	1.02 - 1.52	53.85	23.55	3.96 - 4.75
50.80	32.51	1.02 - 2.29	50.85	44.65	.127 - .254	51.64	46.86	1.02 - 1.52	52.12	15.90	.635 - 1.02	52.96	45.75	.635 - 1.02	53.85	25.76	.381 - .762
50.80	32.54	1.02 - 1.52	50.85	46.02	1.78 - 2.29	51.66	39.98	.508 - 1.02	52.17	32.36	.254 - .508	52.98	19.99	.508 - .889	53.85	30.15	.381 - .635
50.80	32.56	.127 - .254	50.85	46.43	.127 - .254	51.69	10.74	.762 - 1.27	52.17	35.15	.635 - 1.02	52.98	42.52	.127 - .254	53.85	32.13	1.02 - 1.52
50.80	32.64	.635 - 1															

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
53.95	40.13	1.02 - 1.52	54.10	47.47	.635 - 1.02	54.81	37.31	.127 - .254	55.58	19.84	2.54 - 3.40	56.39	22.50	.127 - .254	57.07	30.48	.254 - .508
53.95	46.10	1.78 - 2.29	54.10	47.52	.254 - .508	54.81	39.73	2.03 - 3.05	55.58	28.60	1.27 - 1.91	56.39	32.77	3.81 - 4.17	57.10	6.350	2.67 - 3.05
53.95	50.14	.381 - .762	54.13	42.11	.381 - .762	54.81	43.87	.762 - 1.27	55.60	42.93	.635 - 1.02	56.39	48.41	1.27 - 1.78	57.10	15.75	.381 - .762
53.98	8.788	1.27 - 1.91	54.13	47.70	2.03 - 2.67	54.84	9.804	.254 - .508	55.63	28.58	.635 - 1.02	56.41	33.32	2.54 - 3.18	57.10	16.66	3.96 - 4.75
53.98	9.652	2.54 - 3.18	54.13	51.59	.762 - 1.27	54.84	42.93	.635 - 1.02	55.63	36.96	.508 - 1.02	56.44	20.98	.762 - 1.27	57.10	22.43	.127 - .254
53.98	12.70	2.03 - 2.54	54.15	6.350	2.29 - 2.79	54.86	28.63	.508 - .762	55.63	38.53	.381 - .762	56.52	20.62	.508 - 1.02	57.10	26.24	2.67 - 3.05
53.98	12.88	.127 - .254	54.15	30.23	1.52 - 2.03	54.86	35.56	1.02 - 3.18	55.63	41.33	.127 - .254	56.52	45.82	1.27 - 1.78	57.10	28.63	1.27 - 1.91
53.98	14.27	2.54 - 3.18	54.20	35.81	.381 - .762	54.86	43.94	.508 - 1.02	55.63	43.46	.381 - .762	56.54	41.05	2.03 - 2.54	57.10	30.23	.127 - .254
53.98	14.35	.254 - .508	54.20	43.92	1.52 - 2.03	54.91	16.97	.508 - .762	55.65	31.85	.381 - .762	56.54	41.91	.508 - 1.02	57.10	31.72	.381 - .762
53.98	15.90	.381 - .762	54.20	44.50	.127 - .305	54.91	19.20	.635 - 1.02	55.65	48.06	1.52 - 2.03	56.57	36.86	1.27 - 1.78	57.10	31.75	2.29 - 2.67
53.98	16.64	1.91 - 2.54	54.20	48.21	.508 - 1.02	54.91	21.77	.508 - .762	55.65	50.93	.381 - .762	56.57	45.72	.508 - 1.78	57.10	32.77	2.67 - 3.18
53.98	17.65	2.29 - 2.67	54.23	28.45	2.54 - 3.05	54.91	38.40	2.03 - 2.67	55.68	41.55	1.02 - 1.57	56.57	47.12	2.67 - 3.43	57.10	33.40	.127 - .254
53.98	17.91	.127 - .254	54.25	40.08	1.52 - 2.03	54.91	43.79	3.40 - 4.06	55.68	44.55	.762 - 1.02	56.59	42.80	2.67 - 3.18	57.10	38.28	.762 - 1.27
53.98	19.33	1.52 - 2.29	54.28	50.01	.127 - .254	54.91	44.70	.813 - 1.27	55.70	24.69	.635 - 1.07	56.59	47.17	1.52 - 2.29	57.10	38.30	.127 - .254
53.98	20.65	2.79 - 3.43	54.31	48.18	.127 - .254	54.94	6.401	.762 - 1.27	55.70	49.12	.762 - 1.02	56.64	45.72	.762 - 3.05	57.10	42.04	.127 - 2.29
53.98	22.73	.127 - .254	54.31	49.99	.635 - 1.02	54.94	17.22	.127 - .254	55.70	50.95	.254 - .508	56.64	49.20	1.83 - 2.29	57.10	44.42	.381 - .889
53.98	23.04	.508 - .762	54.33	35.99	2.03 - 2.64	54.94	49.00	1.52 - 2.03	55.78	43.13	.254 - .508	56.64	49.25	.127 - .254	57.10	44.53	.127 - .254
53.98	25.78	2.67 - 3.18	54.33	36.93	.127 - .254	54.94	51.51	.127 - .254	55.78	43.23	.127 - .254	56.67	44.78	1.27 - 1.52	57.10	44.88	2.03 - 2.54
53.98	27.18	.127 - .254	54.33	46.18	.127 - .254	54.97	25.07	1.27 - 1.78	55.78	50.34	.127 - .254	56.69	44.73	1.27 - 1.78	57.10	47.63	.762 - 1.27
53.98	27.31	.254 - .508	54.33	46.25	.635 - 1.02	54.97	45.75	.635 - 1.02	55.80	41.91	1.02 - 1.52	56.69	44.81	.254 - .762	57.10	47.98	.635 - 1.02
53.98	27.94	.762 - 1.27	54.33	48.16	.762 - 1.02	54.97	48.21	1.78 - 2.29	55.83	26.59	1.02 - 1.52	56.72	46.86	.254 - .508	57.10	48.56	1.27 - 1.78
53.98	28.52	1.52 - 2.03	54.36	43.94	.635 - 1.02	54.97	48.46	1.27 - 1.78	55.83	28.60	1.02 - 1.52	56.74	31.75	.381 - .635	57.10	50.55	.127 - .254
53.98	31.78	1.27 - 1.91	54.36	51.10	1.02 - 1.52	54.99	6.452	.127 - .254	55.83	51.99	.127 - .254	56.77	26.26	.127 - .254	57.10	50.80	.254 - .508
53.98	31.80	2.29 - 2.67	54.41	39.24	.762 - 1.27	54.99	8.204	.762 - 1.27	55.85	6.350	.127 - .254	56.77	38.07	1.27 - 1.78	57.10	50.85	2.03 - 2.54
53.98	32.00	1.91 - 2.29	54.41	49.30	.127 - .254	54.99	17.02	2.67 - 3.43	55.85	15.98	.381 - .762	56.77	38.33	.127 - .762	57.12	8.026	1.27 - 1.78
53.98	33.22	.635 - 1.27	54.41	50.88	.127 - .254	54.99	35.03	.508 - 1.02	55.85	17.93	1.27 - 1.78	56.77	41.66	.127 - .254	57.12	11.13	3.96 - 4.75
53.98	34.01	2.03 - 2.67	54.43	41.17	.127 - .254	54.99	35.05	.127 - .254	55.85	21.34	.127 - .254	56.77	49.53	1.02 - 1.52	57.12	11.15	2.64 - 3.05
53.98	34.95	.381 - .762	54.43	43.94	.508 - 1.02	54.99	38.25	1.27 - 1.78	55.88	9.144	1.27 - 1.78	56.79	36.63	.127 - .254	57.12	13.72	.381 - .762
53.98	35.76	.762 - 1.27	54.43	45.49	.254 - .508	54.99	41.78	.127 - .254	55.88	15.95	.254 - .508	56.79	39.67	1.78 - 2.29	57.12	13.77	3.81 - 4.32
53.98	36.55	.381 - .762	54.46	48.01	.127 - .254	54.99	42.16	2.03 - 2.54	55.88	22.35	1.52 - 1.78	56.85	36.25	.635 - 1.02	57.12	19.10	.127 - .254
53.98	38.10	.381 - 2.64	54.48	21.46	.127 - .254	54.99	43.21	.762 - 1.27	55.88	25.65	.127 - 1.52	56.87	22.23	2.54 - 3.18	57.12	19.20	.127 - .254
53.98	38.20	1.02 - 1.52	54.48	43.94	.127 - .254	54.99	45.47	1.02 - 1.27	55.88	35.00	2.67 - 3.18	56.87	25.91	3.96 - 4.78	57.12	20.32	2.03 - 2.54
53.98	38.28	.127 - 1.52	54.48	49.96	.127 - .254	54.99	45.72	.127 - .254	55.88	38.58	.762 - 1.27	56.87	32.00	1.27 - 1.52	57.12	30.91	.127 - .254
53.98	38.76	1.02 - 1.52	54.51	41.78	1.78 - 2.29	54.99	49.99	.127 - .254	55.88	40.61	1.22 - 1.91	56.87	45.03	1.27 - 1.78	57.12	41.66	.127 - .508
53.98	39.67	1.27 - 1.78	54.51	42.01	1.91 - 2.29	55.02	11.63	2.29 - 2.67	55.88	43.18	1.22 - 1.91	56.90	19.86	3.96 - 4.78	57.12	43.46	1.02 - 1.52
53.98	40.13	.127 - .254	54.51	44.27	.127 - .508	55.02	30.89	1.27 - 1.78	55.88	45.72	2.67 - 3.05	56.90	28.32	.508 - .762	57.15	3.175	1.27 - 1.78
53.98	41.28	.381 - .762	54.53	42.44	.762 - 1.27	55.02	40.49	1.52 - 2.29	55.88	46.48	1.02 - 1.52	56.90	30.48	.406 - .813	57.15	3.454	.381 - .635
53.98	41.68	.254 - 1.02	54.56	15.90	.381 - .762	55.04	35.76	1.78 - 2.29	55.88	47.85	.762 - 1.27	56.90	35.15	2.03 - 2.67	57.15	4.166	.254 - .508
53.98	41.71	1.02 - 1.52	54.56	17.53	2.67 - 3.43	55.04	43.64	.127 - .254	55.88	47.88	1.52 - 2.03	56.90	36.58	2.67 - 3.43	57.15	5.486	1.52 - 2.03
53.98	42.44	.254 - .508	54.56	22.30	2.67 - 3.43	55.04	45.01	1.78 - 2.29	55.88	48.77	.508 - .762	56.90	41.43	.381 - .762	57.15	6.528	.508 - 1.02
53.98	44.45	.254 - .508	54.56	25.48	.254 - .508	55.09	18.29	.508 - .762	55.91	12.83	.127 - .508	56.90	44.75	1.02 - 1.52	57.15	8.255	1.91 - 2.64
53.98	44.48	2.29 - 2.67	54.56	44.81	.762 - 1.02	55.12	13.61	.127 - .254	55.91	19.18	.127 - .254	56.90	51.05	.127 - 1.02	57.15	9.398	1.27 - 1.78
53.98	44.63	.635 - 1.27	54.56	45.16	1.27 - 1.78	55.12	15.16	.127 - .254	55.91	38.61	1.02 - 1.52	56.90	51.44	.127 - .254	57.15	9.601	1.27 - 1.91
53.98	45.24	.635 - 1.02	54.56	50.50	1.52 - 1.91	55.12	38.61	.381 - .762	55.91	51.05	.254 - .508	56.92	17.73	.508 - 1.02	57.15	10.01	.762 - 1.27
53.98	47.04	.381 - .762	54.61	12.83	.254 - .508	55.12	39.52	.127 - .254	55.91	51.79	.127 - .254	56.92	22.35	.762 - 1.27	57.15	10.16	2.54 - 3.18
53.98	47.65	1.27 - 1.78	54.61	16.03	.254 - .508	55.14	16.81	.127 - .254	55.93	19.10	.381 - .762	56.92	40.08	2.54 - 3.18	57.15	11.15	2.54 - 3.18
53.98	48.03	.127 - .254	54.61	20.65	2.54 - 3.18	55.14	48.26	.254 - .508	55.93	47.93	.127 - .254	56.92	43.18	.381 - .762	57.15	12.14	.762 - 1.27
53.98	50.24	.127 - .508	54.61	31.75	2.54 - 3.18	55.14	50.01	.127 - .254	55.96	6.477	2.54 - 3.18	56.95	16.36	.127 - .254	57.15	12.70	2.67 - 3.05
54.00	11.15	.254 - .762	54.61	35.03	.508 - 1.02	55.17	12.09	.127 - .254	55.96	26.06	.254 - .508	56.95	39.75	.127 - .254	57.15	12.88	.762 - 1.27
54.00	16.03	.127 - .254	54.61	45.16	.381 - 1.27	55.17	44.70	.508 - .762	55.96	40.18	1.27 - 1.91	56.95	43.84	2.03 - 2.67	57.15	13.13	.127 - 2.79
54.00	19.18	1.27 - 2.67	54.61	48.26	.127 - .254	55.19	35.38	.127 - .254	55.96	47.85	.762 - 1.27	56.95	44.73	1.27 - 1.78	57.15	13.18	4.32 - 4.83
54.00	49.53	1.02 - 1.52	54.64	15.98	.127 - .254	55.19	43.41	.127 - .254	56.01	28.50	1.27 - 1.78	56.95	46.84	2.03 - 2.67	57.15	13.49	1.27 - 1.52
54.03	9.779	.127 - .254	54.64	17.45	2.54 - 3.18	55.25	43.43	.508 - 1.02	56.01	28.63	1.02 - 1.52	56.97	19.35	.762 - 1.27	57.15	14.27	3.43 - 3.96
54.03	10.31	2.54 - 3.05	54.64	22.20	2.54 - 3.18	55.27	23.93	1.27 - 1.78	56.01	45.01	1.78 - 2.29	56.97	25.63	1.52 - 2.03	57.15	15.75	.762 - 1.27
54.03	19.15	1.02 - 1.52	54.64	35.03	.635 - 1.02	55.27	52.53	.254 - .508	56.01	48.56	1.78 - 2.29	56.97	39.40	.254 - .508	57.15	15.90	.381 - .762
54.03	25.37	.254 - .508	54.66	16.00	.127 - .254	55.30	12.70	3.05 - 3.56	56.03	16.03	.127 - .254	57.00	47.17	.381 - .762	57.15	15.98	1.02 - 1.52
54.03	25.93	2.03 - 2.67	54.69	18.39	2.54 - 3.40	55.30	39.24	.254 - .508	56.03	45.49	.127 - .254	57.02	8.382	.127 - .254	57.15	16.23	.381 - .762
54.03	32.00	.127 - .254	54.69	22.23	2.54 - 3.18	55.30	52.10	1.02 - 1.52	56.03	50.29	1.27 - 2.54	57.02	16.08	.127 - .254	57.15	16.26	3.96 - 4.75
54.03	41.28	.127 - .															

BOKER'S METAL WASHERS ARE FLAT AND TUMBLE DEBURRED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
57.15	27.10	.127 - .254	57.23	51.08	.508 - .813	58.42	50.80	1.02 - 1.52	59.31	50.67	.508 - .762	60.02	56.03	.254 - .508	60.33	41.63	2.54 - 3.18
57.15	29.97	2.67 - 3.43	57.25	38.38	.508 - .762	58.45	15.88	.127 - .254	59.39	41.55	.508 - 1.02	60.05	16.00	2.67 - 3.18	60.33	41.78	.127 - .254
57.15	31.88	1.02 - 1.52	57.25	39.50	2.79 - 3.30	58.45	37.59	1.27 - 3.18	59.41	10.92	1.52 - 2.03	60.07	17.12	3.18 - 3.96	60.33	42.88	.762 - 1.02
57.15	31.90	.127 - .254	57.28	26.21	2.29 - 3.05	58.47	41.15	1.27 - 1.78	59.41	56.77	.508 - .762	60.07	28.85	.127 - .254	60.33	44.86	1.27 - 1.91
57.15	31.93	.635 - 1.07	57.28	31.55	.762 - 1.02	58.50	50.80	.127 - .254	59.44	44.50	.127 - .635	60.07	57.56	.381 - .762	60.33	45.34	.381 - .762
57.15	32.08	1.52 - 2.03	57.28	41.28	1.02 - 1.57	58.50	55.73	.127 - .254	59.46	55.88	.127 - 1.52	60.10	38.30	.762 - 1.27	60.33	48.41	1.07 - 1.52
57.15	32.13	1.27 - 3.43	57.28	41.78	.127 - .254	58.52	48.39	2.54 - 3.05	59.49	44.96	1.91 - 2.29	60.10	39.88	.762 - 1.27	60.33	48.90	1.27 - 1.78
57.15	32.36	2.03 - 2.64	57.30	32.54	2.29 - 3.18	58.52	50.80	.127 - .254	59.49	50.83	1.27 - 1.78	60.10	46.41	.762 - 1.27	60.33	49.23	1.27 - 4.75
57.15	32.46	2.54 - 3.40	57.30	45.16	.762 - 1.02	58.55	38.05	.203 - .406	59.51	45.03	.127 - .254	60.12	38.61	2.54 - 3.18	60.33	51.28	.508 - 1.02
57.15	32.49	.127 - .254	57.33	49.23	.127 - .254	58.55	42.70	1.27 - 1.91	59.54	26.24	.508 - 1.02	60.15	35.03	1.02 - 1.52	60.33	53.47	.127 - .254
57.15	32.66	.254 - .508	57.40	22.35	.762 - 1.02	58.57	48.23	1.22 - 1.57	59.56	18.24	2.29 - 2.67	60.15	35.05	.381 - .762	60.33	53.98	1.02 - 1.52
57.15	33.30	1.02 - 1.52	57.40	32.21	.127 - .254	58.60	30.45	.762 - 1.27	59.56	34.80	1.52 - 1.78	60.15	41.66	1.27 - 1.78	60.35	16.03	3.05 - 3.56
57.15	33.91	.635 - 1.27	57.40	33.53	.254 - .762	58.60	48.08	2.79 - 3.30	59.59	52.68	.762 - 1.27	60.15	52.55	.127 - .254	60.35	19.18	.762 - 1.52
57.15	34.93	.254 - .508	57.40	48.01	.381 - .762	58.62	56.08	.127 - .381	59.61	36.50	1.27 - 1.78	60.17	6.223	.254 - .508	60.35	35.71	.254 - .508
57.15	35.05	.381 - .762	57.53	41.53	.127 - .254	58.65	26.95	.381 - .762	59.61	53.59	.127 - .254	60.17	20.73	.381 - .762	60.35	36.65	1.02 - 1.52
57.15	35.23	2.67 - 3.40	57.53	47.75	.254 - .508	58.67	16.79	.381 - .762	59.64	18.97	1.27 - 1.78	60.17	43.21	.127 - .254	60.35	46.43	.762 - 1.27
57.15	36.20	.762 - 1.27	57.56	8.992	1.52 - 2.03	58.67	22.61	.762 - 1.27	59.64	19.89	1.91 - 2.29	60.17	47.63	1.27 - 1.78	60.35	47.63	1.02 - 1.52
57.15	36.53	.762 - 1.27	57.58	49.07	.635 - 1.02	58.67	28.85	2.03 - 2.67	59.64	35.05	1.52 - 2.03	60.20	3.429	.127 - .254	60.38	6.629	2.29 - 3.05
57.15	36.63	1.27 - 1.91	57.61	8.026	.381 - .762	58.67	41.55	.127 - .254	59.64	50.80	1.07 - 1.57	60.20	6.248	.127 - .254	60.38	12.75	.127 - .254
57.15	38.10	1.52 - 3.96	57.63	23.27	.127 - .254	58.67	43.00	.127 - .254	59.64	52.50	.381 - .762	60.20	12.95	.127 - .254	60.38	38.40	1.27 - 1.91
57.15	38.35	.127 - .254	57.63	32.00	1.27 - 1.78	58.67	47.57	1.78 - 2.29	59.66	12.75	2.54 - 3.05	60.20	21.64	.127 - .254	60.38	45.29	.127 - .254
57.15	38.86	1.07 - 1.52	57.66	46.05	.508 - .762	58.67	50.72	.254 - .635	59.66	37.95	.635 - 1.02	60.20	22.45	1.27 - 1.52	60.40	17.50	1.02 - 1.52
57.15	39.70	1.27 - 2.64	57.66	47.88	.762 - 1.27	58.70	7.925	.762 - 1.27	59.66	50.93	1.52 - 2.29	60.20	31.85	2.79 - 3.30	60.40	31.88	.127 - .254
57.15	40.59	.762 - 1.27	57.66	48.01	.914 - 1.52	58.70	13.51	1.27 - 1.78	59.69	19.15	.381 - .762	60.20	40.34	2.29 - 2.67	60.40	45.34	.635 - .889
57.15	41.02	.381 - .762	57.66	49.96	1.78 - 2.29	58.70	16.08	.762 - 1.27	59.69	31.75	2.29 - 2.67	60.20	42.70	.127 - .254	60.40	45.72	2.29 - 3.18
57.15	41.15	1.02 - 1.52	57.66	50.29	.381 - .762	58.70	27.10	.127 - .254	59.69	32.18	1.27 - 1.78	60.20	50.83	2.03 - 2.67	60.40	46.96	2.29 - 2.67
57.15	41.35	2.79 - 3.30	57.68	6.553	1.52 - 2.03	58.70	42.88	.635 - 1.02	59.69	35.46	.127 - .254	60.22	38.48	1.27 - 1.78	60.40	50.72	2.29 - 2.92
57.15	41.40	.127 - .508	57.68	50.27	.127 - .254	58.70	49.12	1.27 - 1.78	59.69	46.10	.127 - .254	60.22	47.37	.381 - .762	60.40	50.80	1.02 - 1.52
57.15	41.43	.127 - .508	57.68	50.29	.127 - .254	58.70	52.83	.762 - 1.27	59.69	49.45	2.29 - 2.67	60.25	10.62	.381 - .762	60.40	50.93	1.02 - 1.52
57.15	42.37	.508 - 1.91	57.71	11.25	2.03 - 2.54	58.72	12.75	3.18 - 3.43	59.69	51.05	.254 - 1.02	60.25	22.00	.635 - 1.52	60.43	22.25	1.52 - 2.03
57.15	42.85	.635 - 1.02	57.73	14.99	2.54 - 3.18	58.72	14.30	1.27 - 1.78	59.72	6.858	2.03 - 2.54	60.25	25.40	.635 - 1.02	60.43	38.23	1.02 - 1.52
57.15	44.48	.127 - .508	57.73	16.89	2.54 - 3.18	58.72	25.48	.127 - .254	59.72	15.95	.254 - .508	60.25	25.78	2.54 - 3.18	60.43	41.40	.254 - .762
57.15	44.91	1.27 - 1.91	57.73	48.51	.254 - .508	58.72	41.66	.381 - .762	59.72	42.14	.254 - .508	60.25	38.40	1.27 - 1.91	60.43	51.08	.762 - 1.02
57.15	45.21	.127 - .254	57.73	49.99	.127 - .508	58.72	41.94	2.67 - 3.40	59.74	16.21	3.96 - 4.83	60.25	42.01	1.02 - 1.52	60.45	14.00	2.03 - 2.67
57.15	45.24	1.27 - 1.78	57.76	39.22	.254 - .508	58.72	45.77	.127 - .254	59.74	42.16	.127 - .254	60.25	50.55	.381 - .762	60.45	17.02	1.27 - 1.91
57.15	45.26	2.29 - 2.67	57.79	22.38	.635 - 1.02	58.72	47.78	.254 - .508	59.79	53.34	.254 - .508	60.27	4.902	1.52 - 2.03	60.45	22.10	1.52 - 2.29
57.15	45.75	2.54 - 3.40	57.79	50.80	.127 - .254	58.72	50.80	1.02 - 1.52	59.82	47.57	.127 - .254	60.27	5.334	.762 - 1.27	60.45	25.40	1.02 - 1.52
57.15	45.97	3.18 - 3.43	57.84	30.07	1.52 - 2.03	58.75	46.43	.381 - .762	59.82	56.31	.254 - .508	60.27	16.00	.381 - .762	60.45	31.75	.762 - 1.02
57.15	46.84	1.02 - 1.91	57.84	45.34	.127 - .254	58.75	50.60	.127 - .254	59.84	20.70	2.03 - 2.67	60.27	16.31	2.03 - 2.54	60.45	41.45	.254 - .508
57.15	47.63	1.27 - 1.91	57.86	42.52	2.67 - 3.43	58.75	55.50	.127 - .254	59.89	27.81	.635 - 1.02	60.27	19.18	.127 - .254	60.45	41.88	.762 - 1.27
57.15	48.56	1.78 - 2.29	57.86	47.45	1.27 - 1.78	58.78	18.92	1.78 - 2.29	59.89	39.17	.762 - 1.27	60.27	22.25	1.27 - 1.78	60.45	43.18	1.27 - 1.52
57.15	48.77	.508 - 1.02	57.86	48.74	1.02 - 1.52	58.78	33.35	.508 - 1.52	59.89	40.64	.508 - 1.02	60.27	28.58	.635 - 1.02	60.45	49.20	1.02 - 1.52
57.15	50.01	.254 - .381	57.86	49.28	1.02 - 1.52	58.78	44.65	.635 - 1.02	59.89	49.07	3.43 - 3.96	60.27	32.54	.762 - 1.14	60.45	50.72	.381 - .762
57.15	51.44	.508 - 1.02	57.86	50.55	1.27 - 1.78	58.78	50.57	.127 - .254	59.89	54.10	.254 - .508	60.27	33.02	1.02 - 1.52	60.45	51.31	2.29 - 2.67
57.15	52.88	.127 - .254	57.89	7.950	.762 - 1.27	58.80	48.41	1.02 - 1.52	59.92	32.00	.508 - 1.02	60.27	38.10	1.27 - 1.78	60.45	53.09	.254 - .508
57.18	6.756	.127 - .254	57.89	44.35	.508 - .762	58.80	50.44	2.29 - 2.67	59.94	11.13	1.78 - 2.29	60.27	44.17	.381 - .635	60.48	8.331	1.27 - 1.78
57.18	9.601	.635 - 1.02	57.91	27.18	1.02 - 1.52	58.80	51.61	1.02 - 1.52	59.94	18.49	1.27 - 1.78	60.27	48.56	.127 - .254	60.48	36.50	.635 - 1.02
57.18	13.72	3.40 - 3.96	57.91	29.21	.635 - 1.02	58.83	4.394	1.02 - 1.52	59.94	25.48	1.27 - 1.78	60.27	49.20	.762 - 1.27	60.48	39.42	.508 - 1.02
57.18	14.71	2.29 - 2.67	57.91	51.61	1.27 - 1.78	58.83	15.82	.508 - 1.02	59.94	28.78	4.06 - 4.83	60.27	55.02	1.02 - 1.52	60.50	51.16	2.67 - 3.18
57.18	20.62	.127 - .254	57.96	40.01	3.18 - 3.43	58.83	44.63	.813 - 1.27	59.94	32.05	.127 - .254	60.30	8.788	2.67 - 3.18	60.53	22.38	1.52 - 2.03
57.18	22.99	.762 - 1.27	57.96	44.98	1.27 - 1.78	58.83	52.27	.127 - .254	59.94	34.93	.381 - 1.52	60.30	14.22	1.02 - 1.52	60.55	8.077	2.29 - 2.79
57.18	27.51	3.05 - 3.56	57.99	8.484	1.52 - 2.03	58.85	49.30	.635 - 1.02	59.94	40.08	.127 - 1.02	60.30	15.88	1.27 - 1.91	60.58	6.452	2.03 - 2.54
57.18	34.98	1.02 - 1.52	57.99	32.03	2.03 - 2.64	58.85	50.01	1.78 - 2.03	59.94	49.73	.254 - .508	60.30	22.86	.508 - 1.02	60.58	47.68	.254 - .508
57.18	38.13	.762 - 1.27	57.99	49.48	.381 - .762	58.88	19.58	.127 - .254	59.94	54.99	.127 - .254	60.30	27.08	.127 - .254	60.58	49.15	1.52 - 2.03
57.18	38.58	.635 - 1.02	58.01	51.89	1.02 - 1.52	58.88	44.70	.127 - .254	59.97	25.63	.635 - 1.78	60.30	29.72	.762 - 4.75	60.63	34.70	1.27 - 1.91
57.18	39.07	.127 - .254	58.01	52.58	.762 - 1.02	58.88	49.33	.508 - 1.02	59.97	26.59	.127 - .254	60.30	34.90	1.27 - 1.78	60.66	36.40	1.52 - 1.78
57.18	39.70	.762 - 1.02	58.04	19.51	1.91 - 2.29	58.93	40.13	1.78 - 2.29	59.97	30.00	2.03 - 3.05	60.30	38.99	1.02 - 1.52	60.66	43.21	1.27 - 1.78
57.18	51.44	2.67 - 3.43	58.04	52.58	.127 - .254	58.93	42.70	.127 - .254	59.97	45.06	.254 - .508	60.30	39.04	.508 - 1.02	60.66	52.02	1.02 - 1.5

NO TOOLING CHARGE FOR ANY OF THE SIZES LISTED

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
60.93	43.51	.127 - .254	61.80	55.58	.254 - .508	62.87	44.96	.127 - .254	63.45	36.80	1.78 - 2.29	63.50	32.05	.254 - .508	63.58	31.80	2.29 - 2.54
60.93	43.69	.889 - 1.27	61.82	37.67	.762 - 1.27	62.92	49.99	.762 - 2.03	63.45	38.48	3.18 - 3.43	63.50	32.21	1.27 - 1.78	63.58	40.08	.508 - .762
60.93	54.18	1.27 - 1.91	61.82	38.13	1.27 - 1.91	62.94	31.24	1.91 - 2.67	63.45	38.91	2.79 - 3.43	63.50	32.31	.381 - .635	63.58	52.73	1.78 - 2.29
60.93	54.99	.508 - 1.02	61.82	38.89	.762 - 1.27	62.94	40.59	.127 - .254	63.45	39.83	.508 - 1.27	63.50	32.39	2.67 - 3.18	63.58	54.33	.762 - 1.02
60.96	12.80	.127 - .254	61.82	55.55	1.27 - 1.78	62.94	47.98	.508 - 1.02	63.45	41.28	.254 - .508	63.50	32.49	2.54 - 3.18	63.60	22.23	2.54 - 3.05
60.96	12.83	.254 - .508	61.85	31.88	3.18 - 3.96	62.94	50.29	1.52 - 1.78	63.45	42.85	.127 - .254	63.50	32.51	1.27 - .254	63.60	38.13	1.27 - 1.78
60.96	12.98	2.67 - 3.43	61.85	48.26	1.27 - 1.91	62.97	53.34	.381 - .762	63.45	47.78	.508 - .762	63.50	32.89	.254 - .508	63.63	3.683	.635 - 1.02
60.96	19.13	.254 - .508	61.85	57.28	.254 - .381	62.99	19.05	1.52 - 1.91	63.45	48.51	1.52 - 1.78	63.50	33.02	1.78 - 2.29	63.63	4.953	1.52 - 2.03
60.96	33.53	.381 - .762	61.85	57.48	.381 - .762	62.99	57.28	.127 - .254	63.45	50.85	.127 - 3.81	63.50	33.30	1.02 - 1.52	63.63	23.60	1.27 - 1.78
60.96	44.04	2.03 - 2.67	61.87	44.45	2.29 - 2.67	63.02	42.49	2.67 - 3.43	63.45	51.18	1.27 - 1.78	63.50	34.19	.127 - .254	63.63	35.89	3.05 - 3.43
60.96	46.18	.127 - .254	61.87	47.68	.127 - .254	63.02	55.50	.127 - .254	63.45	51.61	.381 - .762	63.50	34.93	.762 - 1.02	63.63	35.97	2.54 - 3.40
60.96	46.69	1.52 - 2.03	61.90	31.93	1.27 - 1.78	63.04	54.41	.635 - 1.02	63.45	53.82	1.52 - 2.03	63.50	35.36	1.02 - 1.52	63.63	50.52	.127 - .254
60.96	46.99	.254 - .508	61.90	33.35	1.02 - 1.52	63.04	54.61	1.27 - 1.78	63.45	58.67	1.78 - 2.03	63.50	35.41	1.02 - 1.52	63.68	14.27	1.27 - 3.18
60.96	49.10	.127 - .254	61.90	36.20	.635 - 1.07	63.07	40.41	2.03 - 2.29	63.47	8.255	1.52 - 2.03	63.50	38.10	2.67 - 3.18	63.68	58.67	.381 - .635
60.96	50.77	1.14 - 1.52	61.90	38.05	.254 - .508	63.07	53.59	.508 - .762	63.47	26.06	.127 - .254	63.50	38.35	.508 - 1.27	63.75	12.75	2.29 - 2.67
60.96	50.83	.127 - .254	61.90	47.63	.508 - .889	63.09	41.66	.127 - .254	63.47	26.95	1.27 - 1.78	63.50	38.38	1.27 - 1.52	63.78	17.73	2.67 - 3.18
60.96	51.99	1.27 - 1.78	61.90	50.80	.127 - 1.91	63.12	26.80	3.43 - 3.96	63.47	32.26	.127 - .254	63.50	38.53	.127 - .254	63.78	19.84	1.02 - 1.52
60.96	52.37	.508 - 1.02	61.90	55.55	.635 - 1.02	63.12	35.43	2.67 - 3.18	63.47	33.35	2.67 - 3.43	63.50	38.68	1.27 - 1.78	63.78	50.29	.762 - 1.52
60.96	55.88	.381 - 1.27	61.90	57.15	.508 - 1.02	63.17	25.78	3.40 - 4.75	63.47	35.03	1.52 - 1.78	63.50	38.84	1.78 - 2.29	63.88	3.683	.381 - .762
60.96	56.01	.127 - .254	61.93	8.890	.127 - .254	63.17	36.20	.762 - 1.27	63.47	35.23	1.52 - 2.03	63.50	39.65	1.27 - 1.91	63.88	56.34	2.03 - 2.54
60.96	56.39	1.27 - 1.78	61.93	9.906	1.07 - 1.52	63.17	41.53	.127 - .254	63.47	38.05	.635 - 1.02	63.50	40.79	.635 - 1.07	63.91	40.16	1.78 - 2.29
60.99	19.33	.254 - .762	61.93	17.55	2.67 - 3.43	63.20	50.75	.254 - .508	63.47	44.42	.127 - .508	63.50	41.25	1.02 - 1.52	63.91	42.75	.762 - 1.27
60.99	30.71	.381 - .762	61.93	23.88	2.54 - 3.18	63.22	44.40	1.27 - 1.78	63.47	44.63	1.02 - 1.52	63.50	41.28	1.27 - 1.52	63.96	40.01	1.52 - 2.03
60.99	47.98	.381 - .254	61.93	50.98	1.02 - 1.52	63.22	45.11	.381 - .508	63.47	47.98	.254 - .508	63.50	41.53	2.29 - 3.18	63.96	48.72	1.02 - 1.52
60.99	52.50	.635 - 1.02	61.93	54.86	.381 - .635	63.22	50.85	.127 - .254	63.47	49.58	.127 - .254	63.50	44.45	1.02 - 1.52	64.01	8.992	1.52 - 2.03
61.01	19.30	.381 - .762	61.93	56.24	1.02 - 1.52	63.25	36.47	.127 - .254	63.47	52.35	.381 - .508	63.50	44.58	.127 - .254	64.01	9.347	.127 - .254
61.01	21.77	1.27 - 1.78	61.95	49.94	1.02 - 1.52	63.25	47.07	.127 - .254	63.50	2.540	.381 - .762	63.50	44.60	2.67 - 3.18	64.01	48.79	.508 - .762
61.01	50.04	1.78 - 2.29	61.95	50.22	.127 - .381	63.25	50.29	2.29 - 2.79	63.50	2.870	.381 - .889	63.50	44.68	2.29 - 2.67	64.01	53.87	.381 - .762
61.01	50.80	1.52 - 1.91	61.95	54.97	.381 - .762	63.25	50.70	2.67 - 3.18	63.50	3.658	.127 - .508	63.50	44.96	1.02 - 1.52	64.01	55.73	1.27 - 1.78
61.01	58.29	.127 - .762	61.98	21.26	2.67 - 3.43	63.25	52.32	.127 - .254	63.50	3.785	2.03 - 2.29	63.50	45.14	.381 - 1.57	64.01	57.28	.127 - .254
61.04	55.78	.127 - .254	61.98	32.36	1.27 - 1.78	63.27	25.68	3.05 - 3.96	63.50	4.775	2.29 - 2.67	63.50	45.39	1.02 - 1.52	64.06	48.79	.127 - .254
61.06	48.34	.127 - .254	61.98	49.99	.127 - .254	63.27	38.30	2.03 - 3.18	63.50	5.029	.254 - .508	63.50	45.62	1.91 - 3.96	64.08	51.82	.889 - 1.57
61.09	3.429	.127 - .254	61.98	50.24	.508 - .762	63.30	27.15	.127 - .254	63.50	6.629	2.54 - 3.43	63.50	46.08	.254 - .787	64.11	13.54	.127 - .254
61.09	25.22	2.03 - 2.64	61.98	50.34	.381 - .762	63.32	19.10	1.22 - 1.57	63.50	6.756	.127 - .254	63.50	46.23	.127 - .254	64.21	59.13	.508 - .762
61.09	53.98	.254 - .635	61.98	55.25	.127 - .254	63.32	31.88	2.03 - 2.54	63.50	7.925	3.18 - 3.96	63.50	47.98	.762 - 1.27	64.26	31.78	1.52 - 1.78
61.09	56.31	1.02 - 1.52	61.98	56.36	2.29 - 2.67	63.32	35.56	.635 - .889	63.50	9.398	1.27 - 1.78	63.50	48.01	.508 - .762	64.26	47.63	1.52 - 2.03
61.14	16.71	2.54 - 3.05	61.98	57.45	1.02 - 1.27	63.32	39.67	2.03 - 2.67	63.50	9.525	2.03 - 2.64	63.50	48.26	.254 - .635	64.26	55.68	.127 - .254
61.16	47.63	.508 - 1.02	61.98	58.17	.127 - .254	63.32	45.34	3.18 - 3.96	63.50	9.779	3.18 - 3.96	63.50	49.40	.254 - 1.52	64.26	57.40	.508 - .762
61.19	47.57	.762 - 1.27	61.98	59.18	.254 - .508	63.32	46.99	3.05 - 3.43	63.50	9.906	2.29 - 3.05	63.50	49.63	.635 - 1.02	64.26	58.83	.127 - .254
61.21	48.46	.178 - .889	62.00	38.79	1.27 - 1.78	63.32	50.80	1.02 - 1.52	63.50	10.16	.127 - .254	63.50	50.24	1.07 - 1.57	64.29	59.21	.381 - .635
61.24	55.55	.127 - .254	62.13	8.001	2.67 - 3.18	63.32	52.37	1.02 - 1.52	63.50	10.29	2.67 - 3.43	63.50	50.55	.254 - .787	64.34	60.07	.127 - .254
61.32	41.25	.127 - .254	62.15	38.10	.127 - .254	63.35	15.65	.762 - 1.27	63.50	11.18	2.03 - 2.54	63.50	50.83	.127 - .254	64.36	53.01	1.27 - 1.52
61.32	49.15	.635 - 1.02	62.15	51.82	.381 - .762	63.35	31.93	.127 - .254	63.50	11.53	2.67 - 3.43	63.50	50.85	.914 - 3.43	64.49	7.645	1.02 - 1.52
61.37	38.58	1.02 - 1.52	62.15	52.30	.127 - .254	63.37	12.90	2.67 - 3.18	63.50	12.70	2.29 - 3.43	63.50	51.56	.508 - .762	64.52	38.81	.762 - 1.27
61.37	48.54	.762 - 1.02	62.15	54.08	1.02 - 1.52	63.37	15.65	.254 - .508	63.50	12.73	.381 - .889	63.50	53.98	1.02 - 1.27	64.52	49.33	.127 - .254
61.39	37.21	1.27 - 1.78	62.18	44.42	.127 - .254	63.37	15.75	.381 - 1.52	63.50	13.21	2.67 - 3.18	63.50	54.51	.127 - .254	64.52	53.09	.254 - .508
61.42	47.57	.508 - 1.02	62.18	50.52	1.78 - 2.29	63.37	29.21	.127 - .254	63.50	14.30	.914 - 1.52	63.50	55.25	.127 - 1.52	64.52	53.21	.762 - 1.27
61.44	55.55	.127 - .254	62.18	53.06	.127 - .254	63.37	33.50	2.67 - 3.43	63.50	15.82	1.02 - 1.52	63.50	57.15	.635 - 1.02	64.54	49.25	.635 - 1.02
61.47	47.57	.508 - .762	62.20	50.04	.381 - .889	63.37	35.56	.127 - .254	63.50	15.85	.127 - .254	63.50	57.35	1.02 - 2.03	64.57	48.18	.127 - .254
61.47	53.34	.508 - .762	62.23	12.80	.254 - .508	63.37	41.94	.762 - 1.27	63.50	15.95	.254 - .508	63.50	57.68	.508 - .889	64.62	35.38	.127 - .254
61.47	55.37	.508 - .889	62.23	19.13	.381 - .762	63.37	51.97	.127 - .254	63.50	16.00	.254 - .508	63.50	58.75	.127 - .254	64.62	56.92	1.02 - 1.52
61.47	55.52	.381 - .762	62.23	30.28	1.02 - 1.52	63.37	52.32	1.27 - 1.91	63.50	16.13	.381 - .762	63.50	58.78	.508 - .762	64.72	50.70	1.27 - 1.78
61.47	55.55	.762 - 1.27	62.23	54.18	.381 - .813	63.37	53.85	2.29 - 2.79	63.50	16.28	3.05 - 3.43	63.50	59.51	.127 - .254	64.72	56.21	.127 - .254
61.49	53.98	.508 - 1.02	62.23	54.23	.127 - .762	63.40	28.50	.127 - .254	63.50	16.66	3.96 - 4.75	63.53	6.426	.254 - .508	64.74	48.36	.127 - .254
61.52	38.66	2.79 - 3.30	62.23	54.36	.305 - .508	63.40	28.52	.254 - 1.27	63.50	16.76	2.67 - 3.43	63.53	11.35	1.27 - 1.78	64.74	52.04	.127 - .254
61.52	51.82	2.54 - 3.18	62.23	58.55	1.02 - 1.27	63.40	42.29	2.03 - 2.36	63.50	17.48	2.67 - 3.18	63.53	15.93	.254 - 3.18	64.77	10.41	.127 - .254
61.52	56.26	.127 - .254	62.26	15.98	.254 - .508	63.40	59.97	.127 - .254	63.50	19.08	1.52 - 2.03	63.53	17.48	4.06 - 4.83	64.77	51.36	.127 - .254
61.54	36.12	.127 - .203	62.26	20.68	.127 - .254	63.42	10.36	.762 - 1.27	63.50	19.10	.254 - .508	63.53	30.45	.127 - .254	64.77	58.42	.127 - .254
61.54	41.22	.762 - 1.27	6														

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To
65.07	39.67	.254 - 3.18	66.50	50.98	.381 - .762	66.73	12.70	3.43 - 4.75	69.85	15.98	.254 - .508	73.23	50.80	.203 - .406	77.47	16.00	.381 - .762
65.07	46.00	.508 - .889	66.52	44.55	.381 - .762	66.73	32.16	.635 - 1.02	69.85	19.30	.508 - 1.02	73.28	55.30	.508 - 1.02	77.72	51.18	.254 - .381
65.07	58.75	.254 - .508	66.52	53.95	.381 - .635	66.73	32.92	1.52 - 1.91	69.85	30.48	.508 - .762	73.28	62.87	.381 - .762	77.72	55.37	1.02 - 1.27
65.10	19.20	.508 - 1.02	66.55	10.46	.254 - .508	66.73	33.45	1.52 - 2.03	69.85	31.75	.254 - .508	73.41	60.71	.127 - .254	77.77	69.85	.508 - .762
65.10	50.88	.508 - 1.02	66.55	14.05	.127 - .254	66.73	37.11	1.52 - 1.91	69.85	33.02	.508 - .889	73.53	61.47	.508 - .762	77.77	71.07	.635 - .889
65.10	50.95	.381 - .762	66.55	28.55	.127 - .203	66.73	39.65	1.52 - 1.91	69.85	33.32	1.02 - 1.52	73.66	16.00	.254 - .762	77.80	60.25	1.22 - 1.57
65.10	51.51	.127 - .254	66.55	31.88	1.02 - 1.52	66.73	42.52	2.67 - 3.18	69.85	39.67	1.02 - 1.52	73.66	19.81	2.03 - 2.67	77.85	39.62	2.29 - 2.67
65.13	43.33	2.03 - 2.67	66.55	33.58	.127 - .254	66.73	49.50	.635 - 1.02	69.85	41.53	.508 - .762	73.66	51.05	1.52 - 2.03	77.85	71.12	1.02 - 1.27
65.13	61.85	.127 - .254	66.55	60.48	.254 - .508	66.73	57.48	.254 - .508	69.85	47.75	.508 - 1.02	73.66	60.96	.254 - 1.02	77.88	64.77	1.02 - 1.27
65.15	10.46	.127 - .254	66.60	6.401	3.05 - 3.40	66.73	58.95	1.02 - 1.52	69.85	50.80	.254 - 1.27	73.94	42.06	1.02 - 1.52	77.90	22.89	1.02 - 1.27
65.15	54.51	.381 - 1.14	66.60	8.661	1.91 - 2.29	66.75	8.915	.127 - .254	69.85	60.20	.254 - .381	74.04	49.91	1.02 - 1.52	77.98	45.09	.254 - .508
65.15	61.82	.127 - .508	66.60	27.10	.381 - .762	66.75	16.10	2.03 - 2.54	69.85	63.50	.254 - .508	74.04	67.13	.508 - .762	77.98	49.02	.508 - 1.02
65.18	58.93	1.02 - 1.52	66.60	28.70	1.27 - 1.91	66.75	47.70	1.02 - 1.52	69.98	9.525	.254 - .508	74.07	49.91	1.02 - 1.52	77.98	68.86	.381 - .635
65.20	10.34	.762 - 1.27	66.60	41.58	.762 - 1.27	66.75	47.78	.127 - .254	69.98	32.00	.889 - 1.14	74.14	31.93	1.27 - 1.52	78.16	23.90	1.02 - 1.52
65.28	46.41	1.78 - 2.29	66.60	47.45	1.02 - 1.52	66.75	57.23	1.27 - 1.78	69.98	59.59	.635 - .889	74.17	51.56	1.27 - 1.52	78.23	55.63	1.02 - 1.27
65.28	46.43	.254 - .508	66.60	50.85	.381 - .762	66.78	48.77	1.27 - 1.78	69.98	60.99	.254 - 1.02	74.30	42.93	1.02 - 1.52	78.36	62.43	1.52 - 2.03
65.30	18.03	2.03 - 2.54	66.62	13.06	.127 - .254	66.78	58.17	.127 - .254				74.30	59.99	.508 - 1.02	78.49	41.91	1.22 - 1.57
65.38	57.15	.254 - .508	66.62	51.44	1.91 - 2.29	66.80	6.452	.508 - 1.02				74.42	68.83	.508 - .762	78.56	66.75	.508 - 1.02
65.41	18.06	1.02 - 1.52	66.62	60.25	.254 - .508	66.80	10.44	.381 - .762				74.45	33.27	1.02 - 1.52	78.56	70.10	.254 - 1.02
65.48	26.04	.762 - 1.52	66.62	60.35	.127 - .254	66.80	36.04	.762 - 1.27				74.47	65.94	.254 - .508	78.59	50.80	.254 - .508
65.48	52.73	.127 - .254	66.65	3.150	.762 - 1.27	66.80	40.89	2.29 - 2.67				74.52	65.96	1.52 - 1.78	78.71	70.03	1.02 - 1.27
65.51	52.32	2.29 - 3.05	66.65	19.05	2.67 - 3.18	66.80	58.19	1.52 - 2.03				74.55	64.01	.508 - .762	78.74	15.95	.254 - .508
65.53	35.08	3.05 - 3.43	66.65	19.15	1.02 - 1.52	66.80	58.22	.127 - .254				74.60	34.93	1.02 - 1.52	78.74	63.50	.127 - 1.52
65.53	54.28	.508 - 1.02	66.65	38.94	2.03 - 2.54	66.80	60.58	.762 - 1.52				74.60	38.10	1.02 - 1.52	78.74	63.53	.762 - 1.27
65.53	55.78	.381 - .635	66.65	39.90	2.79 - 3.30	66.83	58.12	.127 - .254				74.60	67.06	.635 - 1.02	78.74	69.85	.762 - 1.27
65.53	59.39	.508 - 1.02	66.65	45.24	.762 - 1.27	66.93	41.50	.127 - .254	70.00	27.56	.254 - .508	74.68	33.66	1.22 - 1.57	78.92	53.90	1.02 - 1.52
65.58	44.45	.254 - .508	66.65	45.49	.381 - .762	66.93	47.45	.381 - .762	70.00	58.01	1.02 - 1.27	74.78	14.53	.254 - .508	78.99	73.36	.254 - .508
65.61	22.35	1.02 - 1.52	66.65	48.18	.127 - .254	66.93	48.54	2.03 - 2.54	70.00	60.99	1.02 - 1.27	74.80	50.65	1.02 - 1.52	78.99	73.41	.254 - .508
65.66	13.61	2.79 - 3.30	66.65	49.73	2.29 - 3.05	66.95	41.55	.127 - .254	70.10	46.99	.508 - 1.02	74.90	38.38	1.02 - 1.52	79.25	69.77	1.02 - 1.52
65.68	51.59	.508 - 1.02	66.65	50.70	.127 - .254	67.06	41.40	.127 - .254	70.61	57.48	.635 - 1.02	74.93	15.95	.254 - .508	79.25	69.85	.254 - .508
65.74	9.931	1.52 - 2.03	66.68	6.375	1.02 - 1.27	67.06	61.21	.762 - 1.27	70.61	60.02	.508 - 1.02	74.93	56.62	1.02 - 1.27	79.27	41.68	1.22 - 1.57
65.76	53.34	1.02 - 1.52	66.68	7.137	2.03 - 2.64	67.18	52.25	.254 - .508	70.61	62.99	.254 - 1.27	74.93	57.15	.381 - .635	79.32	54.64	.381 - .635
65.79	8.763	2.67 - 3.18	66.68	8.814	2.54 - 3.18	67.18	55.25	.762 - 1.02	70.64	64.29	.152 - .254	74.93	57.40	.508 - 1.02	79.32	54.69	.254 - .508
65.79	57.23	1.27 - 1.78	66.68	9.195	.127 - .254	67.23	55.22	.508 - 1.02	70.79	60.71	.381 - .635	75.01	14.00	.381 - .635	79.38	23.01	2.03 - 2.29
65.81	60.27	.508 - .762	66.68	9.550	1.27 - 1.91	67.31	15.95	.254 - .508	70.87	44.37	.762 - 1.02	75.06	43.66	1.02 - 1.27	79.38	48.26	1.22 - 1.57
65.81	60.35	.381 - .762	66.68	9.728	2.54 - 3.18	67.31	19.15	.508 - .762	70.99	61.72	.152 - .254	75.13	62.71	1.02 - 1.52	79.38	48.31	1.02 - 1.52
65.89	60.15	.508 - .762	66.68	9.779	1.22 - 1.57	67.31	52.83	.127 - .254	71.02	59.51	1.52 - 1.98	75.31	63.12	.508 - 1.02	79.38	50.80	.508 - 1.02
65.91	40.13	.508 - 2.03	66.68	11.91	2.67 - 3.43	67.36	48.51	.127 - .254	71.07	19.05	.254 - .762	75.36	19.96	1.02 - 1.52	79.50	8.001	2.67 - 3.18
65.99	41.28	2.03 - 2.54	66.68	12.75	.127 - .254	67.44	28.88	1.27 - 1.52	71.07	63.65	.127 - .254	75.41	54.76	.254 - .635	79.71	39.78	.508 - .762
65.99	60.76	.127 - .254	66.68	12.78	.381 - .762	67.49	56.36	1.02 - 1.27	71.09	19.18	.508 - .762	75.62	59.18	.508 - 1.02	79.71	40.08	.508 - .762
66.01	35.00	.254 - .508	66.68	15.93	2.29 - 3.05	67.56	56.31	.254 - .508	71.12	15.95	.254 - .508	75.69	62.23	.254 - .508	79.76	36.73	.508 - .762
66.01	35.23	1.52 - 2.03	66.68	19.05	1.02 - 1.78	67.61	52.07	1.02 - 1.52	71.12	47.42	.508 - .762	75.84	56.64	1.52 - 2.03	79.98	18.34	2.29 - 3.18
66.04	12.78	.127 - .508	66.68	22.20	1.27 - 1.91	67.69	52.20	1.02 - 1.52	71.12	50.80	.254 - .508	76.00	59.00	.254 - .762	79.98	42.44	.508 - 1.27
66.04	15.98	.254 - .508	66.68	25.40	1.52 - 1.78	67.69	56.64	1.02 - 1.52	71.12	66.04	.254 - .762	76.05	60.81	.254 - .508			
66.04	19.10	.381 - .762	66.68	25.91	.127 - .254	67.72	43.56	1.02 - 1.52	71.37	4.293	.381 - .635	76.07	24.10	.254 - .381			
66.04	19.13	.203 - .381	66.68	27.31	.127 - .254	67.89	25.48	.508 - 1.02	71.37	60.33	.152 - .254	76.12	55.55	.254 - .508			
66.04	19.18	.254 - .508	66.68	31.75	.762 - 1.02	67.92	25.48	.254 - .508	71.37	60.96	.254 - .508	76.15	60.45	1.27 - 1.52			
66.04	20.62	.127 - .508	66.68	33.40	2.03 - 2.54	67.95	36.58	1.02 - 1.52	71.42	4.877	1.27 - 1.57	76.20	6.350	.762 - 1.27			
66.04	30.10	.127 - .254	66.68	35.89	2.03 - 2.64	67.97	25.48	1.02 - 1.52	71.50	50.01	.508 - 1.02	76.20	6.426	.127 - 1.52			
66.04	36.98	.508 - .762	66.68	38.51	2.54 - 3.18	68.00	59.99	.762 - 1.27	71.53	55.88	.508 - .889	76.20	7.925	1.02 - 1.52			
66.04	45.26	.508 - .762	66.68	38.89	2.64 - 3.40	68.00	60.50	1.52 - 2.03	71.53	61.11	.508 - 1.02	76.20	8.712	.254 - .381	80.01	16.00	.254 - .762
66.04	53.85	1.52 - 2.03	66.68	41.66	.254 - 1.52	68.00	61.98	.508 - .889	71.60	65.15	.762 - 1.02	76.20	9.525	.508 - 1.02	80.01	42.49	1.02 - 1.52
66.04	55.27	.457 - .787	66.68	43.21	.635 - 1.02	68.20	21.41	.508 - 1.02	71.76	61.98	.254 - .508	76.20	13.49	2.29 - 2.67	80.01	72.01	.381 - .635
66.04	55.37	.457 - .762	66.68	44.70	.127 - .254	68.20	21.44	.762 - 1.27	71.83	36.45	.762 - 1.02	76.20	13.59	1.02 - 1.52	80.65	68.58	.254 - .508
66.04	58.42	1.02 - 1.52	66.68	45.24	.381 - .762	68.25	41.53	2.29 - 2.67	71.86	30.28	.254 - .381	76.20	14.22	1.27 - 1.78	80.80	56.64	1.02 - 1.27
66.07	35.33	1.78 - 2.29	66.68	47.80	.254 - .508	68.38	3.200	.127 - .254	71.86	57.66	.508 - 1.02	76.20	19.05	2.29 - 2.67	80.90	25.98	.127 - .254
66.07	51.08	1.02 - 1.52	66.68	48.92	1.27 - 1.91	68.43	52.86	2.03 - 2.36	71.88	45.97	.508 - 1.02	76.20	22.61	.508 - 1.02	80.90	74.68	.508 - .762
66.09	35.00	.254 - .508	66.68	50.75	2.67 - 3.18	68.58	19.81	1.02 - 1.52	71.88	57.48	1.27 - 1.52	76.20	24.92	.381 - .762	81.05	49.66	1.02 - 1.52
66.09	61.01	.762 - 1.27	66.68	50.85	.127 - .254	68.58	60.20	.508 - 1.02	72.01	6.782	.508 - 1.02	76.20	25.91	.508 - .889	81.15	32.00	.127 - .254
66.12	31.75	.508 - 1.02	66.68	51.05	.508 - .762	68.58	64.52	.127 - .254	72.14	64.52	.254 - .508	76.20	30.94	.254 - .381	81.15	34.42	.508 - .889

O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To	O.D.	I.D.	Choose Any Thickness* From To			
83.82	57.66	.508 - .889	88.90	57.15	.508 - .889	93.98	75.18	.508 - 1.02	101.5	76.15	.254 - .508	108.5	99.95	.508 - 1.02	120 mm					
83.97	63.63	1.02 - 1.27	88.90	63.50	.254 - .508	94.82	84.63	.508 - .889	101.6	12.80	1.02 - 1.52	109.2	81.28	.508 - 1.02						
84.12	60.33	.381 - .635	88.90	77.72	.254 - .381	94.87	83.82	.254 - .508	101.6	17.53	1.02 - 1.52	109.4	69.75	.508 - 1.02						
84.15	55.58	.254 - .508	88.90	79.38	.508 - .762	95.25	16.66	2.29 - 2.67	101.6	25.65	1.27 - 1.78	109.7	60.58	.508 - 1.02						
84.15	69.93	.635 - 1.02	88.90	80.21	.508 - .762	95.25	22.23	.508 - .889	101.6	50.80	.203 - .381									
84.46	79.88	.381 - .635	88.90	82.55	.254 - .508	95.25	76.58	.127 - .254	101.6	51.59	1.02 - 1.52	110 mm			120.1	103.7	.762 - 1.27			
84.76	7.823	2.03 - 2.29	88.98	68.63	1.02 - 1.52	95.25	82.55	.889 - 1.14	101.6	57.94	.203 - .381				123.2	113.0	.127 - .254			
84.84	74.75	.508 - .762	89.15	63.75	.508 - 1.02	95.53	47.50	.762 - 1.27	101.6	64.26	.762 - 1.27				123.4	9.906	2.29 - 3.18			
84.86	65.15	.127 - .254	89.18	81.46	1.02 - 1.27	96.01	77.44	.508 - 1.02	101.6	65.07	1.22 - 1.57				123.4	110.5	.508 - .914			
85.45	35.66	.508 - .762	89.28	77.47	1.27 - 1.52	96.04	36.45	.762 - 1.27	101.6	65.46	.508 - 1.02				123.4	116.8	.381 - .762			
85.52	52.45	.508 - .762	89.41	69.85	.508 - .762	96.52	83.82	.508 - .889	101.6	70.61	1.02 - 1.52	110.7	12.32	1.22 - 1.57	123.8	76.66	.508 - .762			
85.60	66.68	1.22 - 1.57	89.84	55.52	.508 - 1.02	96.52	85.09	.508 - 1.02	101.6	76.20	.203 - .635	110.9	83.13	.508 - .889	125.3	121.0	.381 - .635			
85.73	80.16	.381 - .635	89.84	57.91	.762 - 1.27	97.00	86.74	1.02 - 1.52	101.6	85.39	.254 - .508	111.1	95.91	.254 - .381	125.7	111.6	.254 - .508			
85.98	79.91	.508 - .762	89.92	73.41	.381 - .762	97.10	84.63	.762 - 1.02	101.6	86.61	.508 - .762	111.1	103.7	.762 - 1.02	126.0	108.2	.508 - .762			
86.03	46.13	.508 - .762	89.99	80.01	.381 - .635	97.79	45.21	.508 - 1.02	101.6	87.02	.508 - .762	111.2	82.75	.635 - 1.02	126.4	80.39	.635 - 1.02			
86.11	4.851	.254 - .381	90 mm			97.79	71.25	.127 - .254	101.6	90.02	.381 - .635	111.3	85.73	.152 - .305	126.8	124.6	.508 - 1.02			
86.18	46.76	.508 - 1.02				98.30	34.80	.508 - .813	102.0	90.73	1.02 - 1.52	111.7	101.2	.381 - .762	127.0	6.858	1.02 - 1.52			
86.23	76.71	.508 - .762				98.40	41.71	1.27 - 1.57	102.2	77.72	1.02 - 1.52	111.8	70.56	.254 - .508	127.0	39.67	.762 - 1.27			
86.36	10.16	1.22 - 1.57				98.43	29.21	1.02 - 1.52	102.3	84.05	1.27 - 1.52	112.3	98.81	.508 - .762	130 mm					
86.36	15.95	.508 - .762				98.55	63.88	.762 - 1.27	103.0	32.99	1.27 - 1.52	112.6	96.77	.508 - .889						
87.02	74.65	.254 - .762	90.17	15.95	.508 - .762	98.58	60.86	1.27 - 1.52	103.0	95.25	.127 - .254	112.6	80.09	.254 - .381						
87.05	74.68	.508 - .889	90.17	75.57	.508 - .762	98.78	58.80	.508 - .762	103.3	83.19	.508 - .762	112.6	19.20	1.27 - 1.78						
87.12	78.16	.508 - 1.02	90.20	76.58	.508 - .762	99.06	68.58	1.27 - 1.52	104.0	97.99	.254 - .508	113.5	88.14	.508 - .762					130.2 111.6 .381 - .635	
87.63	16.00	.254 - .762	90.35	70.66	.254 - .508	99.06	85.34	.508 - 1.02	104.0	82.98	.254 - .508	113.6	88.09	.508 - .762	130.6	72.64	.152 - .305			
87.63	39.47	.127 - .254	90.68	6.579	.762 - 1.27	99.16	89.23	.762 - 1.02	104.6	64.74	.508 - .762	113.8	102.4	.635 - .889	For outside diameters up to 305 mm contact BOKER's at (800) 927-4377.					
87.63	66.29	1.02 - 1.27	90.68	27.18	1.02 - 1.52	99.26	59.74	.508 - 1.02	104.6	80.01	.889 - 1.27	114.0	107.3	.762 - 1.27						
87.63	79.38	.762 - 1.02	90.68	27.69	.762 - 1.02	99.67	12.50	.762 - 1.27	104.8	45.24	1.02 - 1.27	114.3	52.27	.254 - .508						
87.68	77.17	.254 - .381	90.73	79.63	.762 - 1.27	99.70	56.49	.508 - .762	104.8	87.12	.508 - .762	114.3	12.80	1.02 - 1.52						
87.73	77.60	.381 - .762	90.81	25.91	.914 - 1.27	100 mm			104.8	95.25	.508 - 1.02	114.3	63.50	1.22 - 1.57						
87.96	66.85	.508 - .762	91.08	83.19	.508 - .813				104.8	81.64	1.22 - 1.57	115.6	6.172	1.02 - 1.52						
88.04	56.64	1.02 - 1.52	91.19	85.73	.508 - 1.02				104.9	16.76	.508 - .762	116.1	98.30	.508 - .762						
88.14	17.91	2.29 - 2.67	91.67	57.15	.635 - 1.02				105.4	90.83	.508 - .762	117.4	109.9	.254 - .381						
88.42	61.34	.254 - .508	91.67	63.50	.635 - 1.02				106.6	54.25	.254 - .508	119.1	90.42	.127 - .254						
88.44	68.66	.813 - 1.07	91.95	19.05	1.02 - 1.52	106.7	89.03	.508 - .813	107.1	41.10	.508 - 1.02	119.1	98.53	.127 - .254						
88.49	73.15	.889 - 1.22	92.08	51.56	1.57 - 2.03	107.1	41.10	.508 - 1.02	107.3	38.61	.508 - .813	119.4	98.17	.254 - .508						
88.67	50.80	.254 - .381	92.08	65.07	.508 - 1.02	100.00	42.49	.254 - .508	107.7	64.14	.508 - .813	119.5	79.76	.508 - .762						
88.75	16.15	2.29 - 3.18	92.08	77.01	.254 - .508	100.00	51.00	.381 - .635	108.0	19.81	.254 - .508	119.6	98.37	.254 - .508						
88.82	67.82	1.52 - 2.03	92.08	81.18	.508 - .762	100.00	59.99	.508 - .813	108.0	20.35	.508 - .762	119.9	98.65	.508 - .889						
88.85	71.07	.762 - 1.02	92.46	52.63	.508 - 1.02	100.1	80.01	1.27 - 1.52	108.0	90.17	1.27 - 1.52									
88.90	3.429	.381 - .635	92.63	59.59	.381 - .914	100.2	89.03	.508 - 1.02	108.0	90.68	.508 - .762									
88.90	12.80	1.02 - 1.52	92.99	76.00	.254 - .762	100.6	91.74	.762 - 1.27	108.0	92.96	.381 - .635									
88.90	50.80	1.02 - 1.52	93.04	61.65	1.02 - 1.52	101.3	48.03	.254 - .381	108.1	76.66	1.02 - 1.27									
88.90	51.56	1.02 - 1.27	93.98	73.63	1.02 - 1.52	101.5	35.08	.127 - .254												



NEW TOOLS CONTINUALLY ADDED!

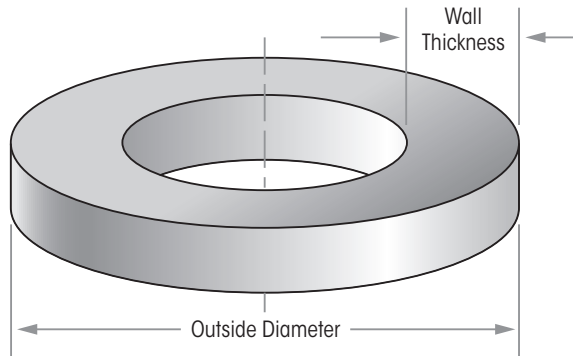
For the most up-to-date list of washer sizes, please visit **bokers.com**

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

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

Did You Know? Washer Wall Thickness

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



WALL THICKNESS TABLE

O.D. RANGE		MINIMUM WALL THICKNESS	
Inches	Millimeters	Inches	Millimeters
.1875 - .375	4.76 - 9.5	.0625	1.6
.375 - 1	9.5 - 25	.09375	2.4
1 - 2	25 - 51	.125	3.2
2 - 3	51 - 76	.1875	4.76
3 - 5	76 - 127	.25	6.35
For:		Minimum Wall:	
Low carbon steel—annealed 1050 high carbon steel—annealed Copper alloys—all tempers Aluminum alloys—all tempers		Two times material thickness but not less than above chart	
Stainless steel annealed blue steel* Pre-tempered high carbon steel*		Three times material thickness but not less than above chart	

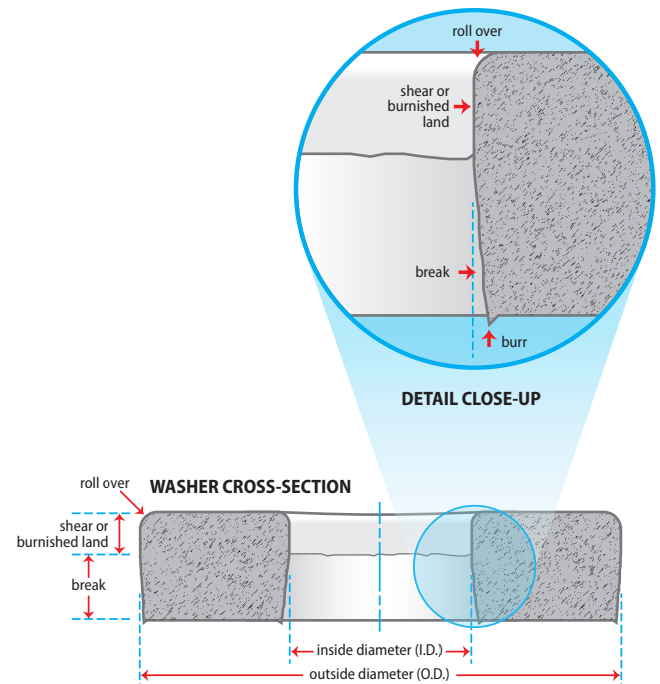
*Note: Contact your Boker's Sales Associate for exceptions. Special tooling or setup procedures sometimes permit a narrower wall thickness. There is a limit of up to .020" maximum thickness of blue steel and pre-tempered high carbon steel.

Did You Know? Edge Conditions

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

MATERIAL THICKNESS	When deburring is NOT specified	When deburring is specified, such as "Must be burr free"
.010" or less	.001"	.0005"
.011" - .039"	.002"	.001"
.040" - .079"	.003"	.002"
.080" - .125"	.004"	.003"
.126" or more	.006"	.004"

Boker's maximum burr on metallic washers and stampings



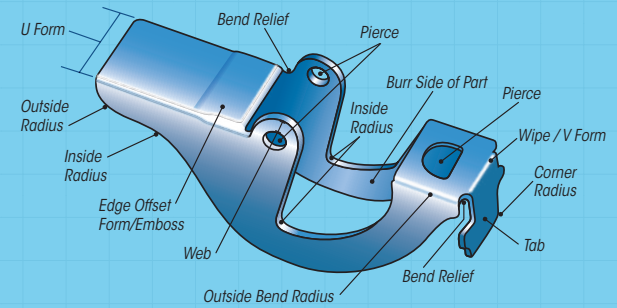
Feature Size: This is to be measured only in cut portion of the hole and cut portion of the outside diameter.

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

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

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

Designer's Guide to Precision Metal Stampings

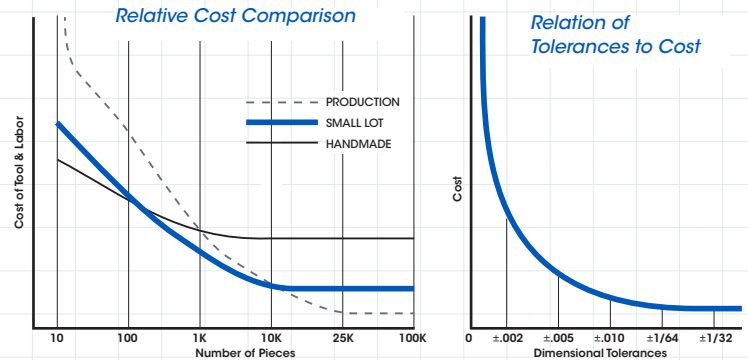
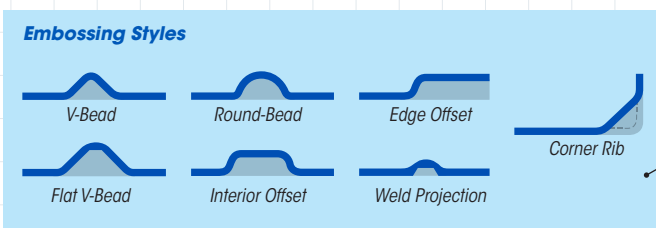
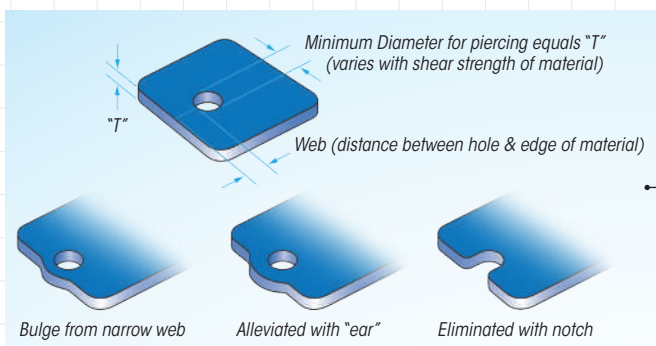
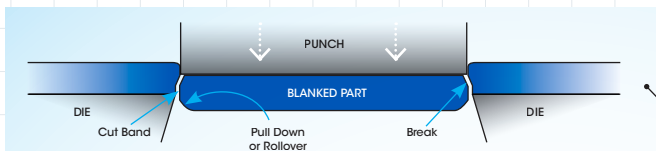


INTRODUCTION

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

The basics of metal stampings.

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



What are the advantages of short-run custom stampings?

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

STAMPING OPERATIONS

Flat Blanking

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

Metal Piercing

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

Metal Forming

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

Selecting the Optimal Washer



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



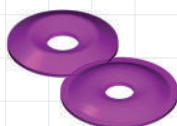
Tab: A type of lock washer designed with one or more tabs or notches to effectively lock a part into place, generally used where heat or heavy vibrations are a factor.



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.



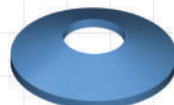
Finishing: Also referred to as "countersunk" washers, finishing washers are often found on consumer products and used as an appearance part where the washer catches the head of a fastener, allowing it to sit flush with its surrounding surface.



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.



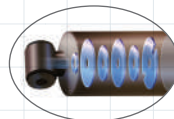
Wave: These washers are ideal for obtaining loads when the load is static or the working range is small and the amount of axial space is limited.



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 %	MATERIAL	FACTOR %
Polycarbonate	10-12	Polypropylene	5-10
Nylon	10	PTFE	5
Polyethylene	10	Polyester	5
Acetal	10	Linen Phenolic	5
PVC	10	Vulcanized Fiber	0-5
A.B.S.	10	FR-4	0-5
MD Nylon	10	G-10	0-5

Non-Metallic Washers and Spacers

The thickness ranges stated in this catalog are minimum and maximum values for metallic washers and spacers but may be suitable for non-metallic parts as well.

When determining the proper sized tool for your washer or spacer, the outside diameter (O.D.) listed in the catalog typically remains the same for both the metallic and non-metallic part. The inside diameter (I.D.), however, may shrink by as much as twelve percent of the material thickness depending on the material used and its thickness. Rely on Boker's experienced Sales Associates to determine the proper tool to manufacture the size part you specify.

Glossary of Terms

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

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

Bend Radius – Inside radius.

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

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

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

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

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

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

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

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

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

Burr-Free – Edge without sharp protrusions.

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

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

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

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

Coining – Compressive metal flowing action.

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

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

Corner – Three surfaces meeting at one point.

Corner Radius – Outside radius.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Grinding – Process of removing material by abrasion.

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

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

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

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

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

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

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

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

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

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

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

Metal Thinning – Thickness reduction during any forming operation.

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

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

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

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

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

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

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

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

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

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

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

Punch Press – Machine supplying compression force for reshaping materials.

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

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

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

Roundness – Extent to which a feature is circular.

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

Scrap – Leftover, unused material relegated to recycling.

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

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

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

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

Slug – Scrap from a piercing operation.

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

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

Squareness – Measure of perpendicularity of adjacent edges or surfaces.

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

Staking – Method of fastening using displaced material for retention.

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

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

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

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

Stripping – Process of disengaging tooling from the workpiece.

Strips – Sheet material, sheared into narrow long pieces.

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

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

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

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

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

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

V Punch – Vee shaped tool used for angle forming.

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

Webs – Material between two openings or edges.

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

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



Equipment & Capabilities

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. (14" x 21" x 8")
- (2) Fanuc Wire E.D.M.
- Ocean Technologies E.D.M. Drill
- Okamoto Precision Grinder
- Stratasys Dimension SST 1200ES 3D Printer



Washer Department

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

Stamping Department

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



Heat Treating Department

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

Raw Stock & Shear Department

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

Secondary Operations Department

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



Shipping Department

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

Cleaning & Deburring Department

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



Inspection Department

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

Material Capabilities

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

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