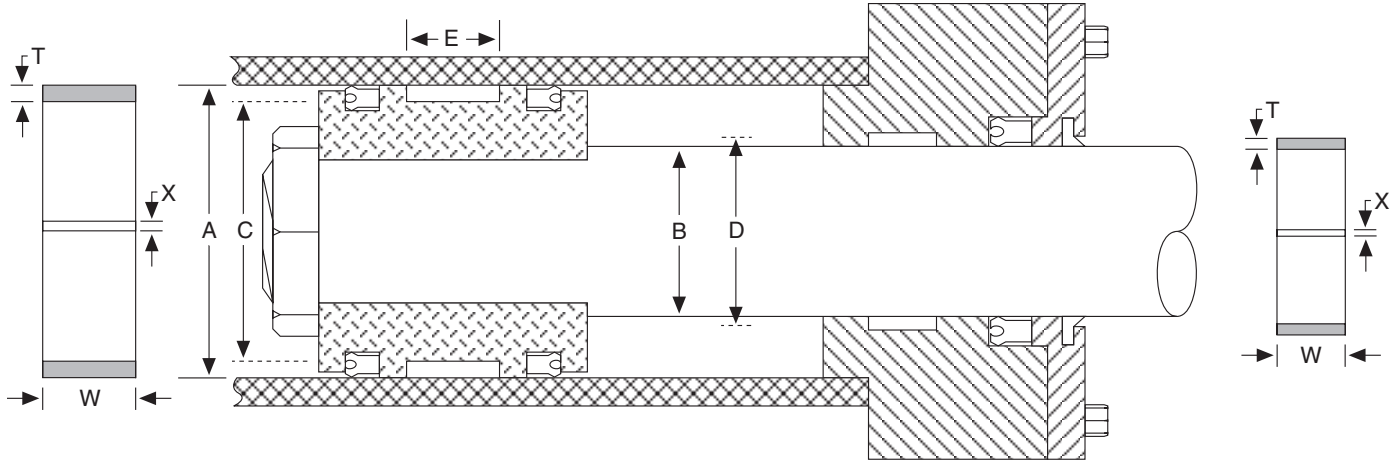


NYLON WEAR RING TECHNICAL INFORMATION



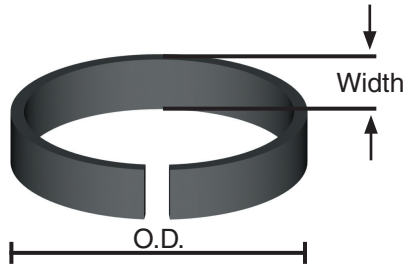
- A - CYLINDER BORE
- B - ROD DIAMETER
- C - MINIMUM BORE "A" MINUS .253/.256
- D - MAXIMUM ROD DIAMETER "B" PLUS .253/.256
- E - GROOVE WIDTH
- T - THICKNESS OF WEAR RING
- W - WIDTH OF WEAR RING
- X - MINIMUM RING GAP

WEAR RINGS

Groove Dimensions For Standard Wear Ring Widths											
1/2" Width			5/8" Width			3/4" Width			1" Width		
E	T	X	E	T	X	E	T	X	E	T	X
.510"	.122"	1/16"	.635"	.122"	1/16"	.760"	.122"	1/16"	1.010"	.122"	1/16"
.515"	.125"		.640"	.125"		.765"	.125"		1.015"	.125"	
Cut Down Factors For Standard Wear Rings											
In many cases an oversized nylon wear ring can be cut down to fit a smaller groove without a loss of concentricity. Use the following guide when cutting down wear rings.											
Wear Ring O.D.						Maximum amount to be Cut Down					
4" OD						3/8" of circumference					
4-1/2" - 6-1/2" OD						1/2"					
7" -9" OD						1"					
9-1/2" - 14" OD						1-1/2"					
Flexible Guide Bearing Cut To Fit Formula											
Use the following formula when cutting flexible guide bearing to fit a specific application.											
For Piston Bearings						For Rod Bearings					
Bearing Length = (Bore - C.S.) x 3.14 - Gap						Bearing Length = (Rod + C.S.) x 3.14 - Gap					

STYLE 606 NYLON WEAR RINGS 1/16" THICK

NOTE: "SC" suffix designates a Scarf Cut wear ring.



SEAL INFORMATION

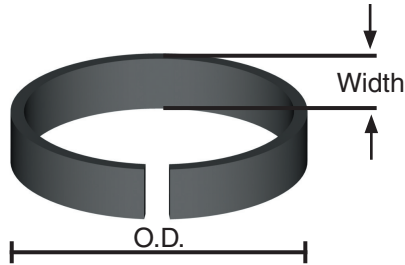
TEMPERATURE RANGE	-40° TO +250° F
TENSILE STRENGTH	27,000 PSI
COMPRESSIVE STRENGTH	26,000 PSI
PART NUMBER	(Prefix) - (OD) - (Width)

WEAR RINGS

Part Number	O.D.	Width
606-087-050	7/8	1/2
606-112-050	1-1/8	1/2
606-125-050-SC	1-1/4	1/2
606-125-075-SC	1 1/4	3/4
606-137-050	1-3/8	1/2
606-150-031-SC	1-1/2	5/16
606-150-037-SC	1-1/2	3/8
606-162-082	1-5/8	13/16
606-162-098-SC	1-5/8	.980
606-162-125	1-5/8	1-1/4
606-187-098-SC	1-7/8	.980
606-200-025-SC	2	1/4
606-200-031-SC	2	5/16
606-200-072-SC	2	.720
606-200-098-SC	2	.980
606-212-098-SC	2-1/8	63/64
606-212-125	2-1/8	1-1/4
606-225-036	2-1/4	.360
606-225-072-SC	2-1/4	.720
606-225-098-SC	2-1/4	.980
606-225-100	2-1/4	1
606-237-098-SC	2-3/8	.980
606-237-100	2-3/8	1
606-237-118	2-3/8	1-3/16
606-250-031-SC	2-1/2	5/16
606-250-050	2-1/2	1/2
606-250-126-SC	2-1/2	1.260

Part Number	O.D.	Width
606-262-098-SC	2-5/8	.980
606-262-124-SC	2-5/8	1.240
606-262-168	2-5/8	1-11/16
606-275-050	2-3/4	1/2
606-275-098-SC	2-3/4	.980
606-275-100	2-3/4	1
606-287-100-SC	2-7/8	1
606-287-126-SC	2-7/8	1.260
606-287-157-SC	2-7/8	1-9/16
606-287-181	2-7/8	1-13/16
606-312-098-SC	3-1/8	.980
606-312-124	3-1/8	1.240
606-312-156	3-1/8	1-9/16
606-312-165-SC	3-1/8	1.650
606-325-031-SC	3-1/4	5/16
606-325-050	3-1/4	1/2
606-337-174	3-3/8	1.740
606-337-187	3-3/8	1-7/8
606-362-105	3-5/8	1.050
606-362-188-SC	3-5/8	1-7/8
606-387-157	3-7/8	1.570
606-400-031-SC	4	5/16
606-500-043-SC	5	7/16
606-600-043-SC	6	7/16
606-800-050-SC	8	1/2

STYLE 608 NYLON WEAR RINGS .078" THICK

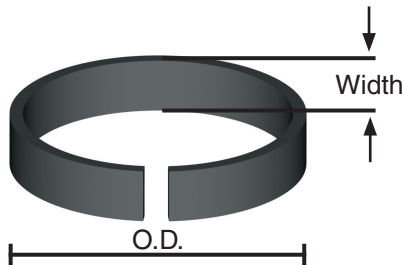


SEAL INFORMATION	
TEMPERATURE RANGE	-40° TO +250° F
TENSILE STRENGTH	27,000 PSI
COMPRESSIVE STRENGTH	35,000 PSI
PART NUMBER	(Prefix) - (OD) - (Width)

Part Number	O.D.	Width
608-125-050	1-1/4	1/2
608-152-075	1.520	3/4

Part Number	O.D.	Width
608-154-075	1.540	.078
608-166-062	1.66	.625

STYLE 609 NYLON WEAR RINGS 3/32" THICK

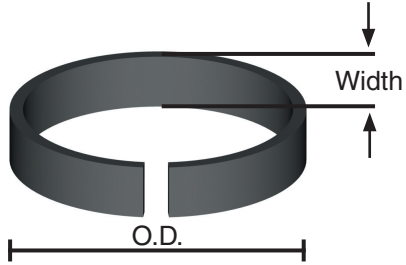


SEAL INFORMATION	
TEMPERATURE RANGE	-40° TO +250° F
TENSILE STRENGTH	27,000 PSI
COMPRESSIVE STRENGTH	26,000 PSI
PART NUMBER	(Prefix) - (OD) - (Width)

Part Number	O.D.	Width
609-125-018	1-1/4	3/16
609-125-037	1-1/4	3/8
609-150-018	1-1/2	3/16
609-150-037	1-1/2	3/8
609-200-019	2	3/16
609-200-037	2	3/8
609-250-037	2-1/2	3/8
609-255-150	2.55	1-1/2
609-285-100	2.85	1

Part Number	O.D.	Width
609-300-022	3	7/32
609-325-037	3-1/4	3/8
609-331-062	3-5/16	5/8
609-350-050	3-1/2	1/2
609-362-022	3-5/8	7/32
609-393-022	3-15/16	7/32
609-400-037	4	3/8
609-500-050	5	1/2
609-600-050	6	1/2

STYLE 610 NYLON WEAR RINGS .100" THICK



SEAL INFORMATION

TEMPERATURE RANGE	-40° TO +250° F
TENSILE STRENGTH	27,000 PSI
COMPRESSIVE STRENGTH	26,000 PSI
PART NUMBER	(Prefix) - (OD) - (Width)

WEAR RINGS

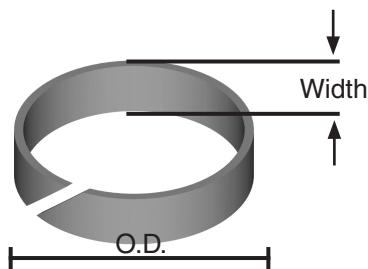
Part Number	O.D.	Width
610-270-228	2.70	2.28
610-295-196	2.95	1.96
610-300-099-SC	3.00	.99
610-320-117-SC	3.20	1.17
610-325-112	3.25	1-1/8
610-345-162-SC	3.45	1-5/8
610-345-196	3.45	1.96
610-345-274-SC	3.45	2.74
610-370-176	3.70	1.76
610-370-188-SC	3.70	1.88

Part Number	O.D.	Width
610-370-236-SC	3.70	2.36
610-395-243	3.95	2-7/16
610-420-156-SC	4.20	1-9/16
610-420-255	4.20	2.55
610-445-237	4.45	2-3/8
610-495-196-SC	4.95	1.96
610-520-250	5.20	2-1/2
610-595-361	5.95	3.61
610-720-314	7.20	3.14

STYLE PB POWERBANDS™ 1/8" THICK

We are pleased to introduce our new line of Powerband™ tight tolerance premium wear-rings. Manufactured from a highly engineered blend of premium nylon, glass fiber, and PTFE, Powerbands™ offer a high strength wear-ring for all cylinder applications, including those with minimal lubrication. And, with a Coefficient of Friction nearly 50% lower than our standard product, your cylinders will run smoother and more efficiently than ever.

All Powerbands™ are fully machined with cross-section tolerances of only $\pm 0.001"$, chamfered corners, and scarf or angle-cut end gaps. Compared to standard tolerances of $\pm 0.0025"$, this tightened tolerance improves the alignment and concentric operation of cylinder rods and pistons. The fully machined chamfered corners will better accommodate cylinder housing grooves, further improving piston and rod alignment. Lastly, the scarf-cut end gap reduces the loss of bearing support that may occur during cylinder side-loading. When combined, these features reduce the tolerance stack-up within the components of the cylinder. As a result, your cylinders will operate more consistently and be capable of operating at higher pressures and higher side loads than with standard wear-ring products. Furthermore, with this improved cylinder operation, your seals will last longer and the life of your cylinder will be extended. Powerbands™ are currently available in our most popular wear-ring dimensions, as shown here. If you do not see your size or would like more information on this innovative product, please contact your Sales Representative.



SEAL INFORMATION

TEMPERATURE RANGE	-40° TO +250° F
TENSILE STRENGTH	20,000 PSI
FLEXURAL STRENGTH	34,000 PSI
COMPRESSIVE STRENGTH	20,000 PSI
PART NUMBER	(Prefix) - (OD) - (Width)

Part Number	O.D.
1/4" WIDE	
PB12-150-025-SC	1-1/2
PB12-200-025-SC	2
PB12-250-025-SC	2-1/2
PB12-300-025-SC	3
PB12-325-025-SC	3-1/4
3/8" WIDE	
PB12-150-037-SC	1-1/2
PB12-175-037-SC	1-3/4
PB12-200-037-SC	2
PB12-225-037-SC	2-1/4
PB12-250-037-SC	2-1/2
PB12-275-037-SC	2-3/4
PB12-300-037-SC	3
PB12-325-037-SC	3-1/4
PB12-350-037-SC	3-1/2
PB12-375-037-SC	3-3/4
PB12-400-037-SC	4
PB12-425-037-SC	4-1/4
PB12-450-037-SC	4-1/2
PB12-500-037-SC	5
PB12-600-037-SC	6
1/2" WIDE	
PB12-150-050-SC	1-1/2

Part Number	O.D.
1/2" WIDE	
PB12-162-050-SC	1-5/8
PB12-175-050-SC	1-3/4
PB12-200-050-SC	2
PB12-225-050-SC	2-1/4
PB12-250-050-SC	2-1/2
PB12-275-050-SC	2-3/4
PB12-300-050-SC	3
PB12-325-050-SC	3-1/4
PB12-350-050-SC	3-1/2
PB12-375-050-SC	3-3/4
PB12-400-050-SC	4
PB12-425-050-SC	4-1/4
PB12-450-050-SC	4-1/2
PB12-475-050-SC	4-3/4
PB12-500-050-SC	5
PB12-525-050-SC	5-1/4
PB12-550-050-SC	5-1/2
PB12-600-050-SC	6
PB12-650-050-SC	6-1/2
PB12-700-050-SC	7
PB12-750-050-SC	7-1/2
PB12-800-050-SC	8
5/8" WIDE	
PB12-200-062-SC	2

Part Number	O.D.
5/8" WIDE	
PB12-225-062-SC	2-1/4
PB12-250-062-SC	2-1/2
PB12-275-062-SC	2-3/4
PB12-300-062-SC	3
PB12-325-062-SC	3-1/4
PB12-350-062-SC	3-1/2
PB12-375-062-SC	3-3/4
PB12-400-062-SC	4
PB12-425-062-SC	4-1/4
PB12-450-062-SC	4-1/2
PB12-475-062-SC	4-3/4
PB12-500-062-SC	5
PB12-525-062-SC	5-1/4
PB12-550-062-SC	5-1/2
PB12-600-062-SC	6
PB12-650-062-SC	6-1/2
PB12-700-062-SC	7
PB12-750-062-SC	7-1/2
PB12-800-062-SC	8
3/4" WIDE	
PB12-175-075-SC	1-3/4
PB12-200-075-SC	2
PB12-225-075-SC	2-1/4
PB12-250-075-SC	2-1/2

STYLE PB POWERBANDS™ 1/8" THICK

POWERBANDS

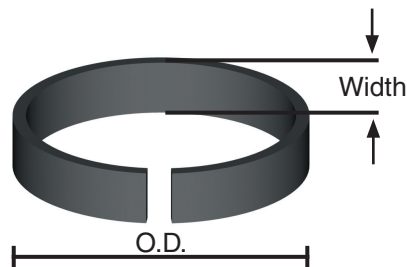
Part Number	O.D.
3/4" WIDE	
PB12-275-075-SC	2-3/4
PB12-300-075-SC	3
PB12-325-075-SC	3-1/4
PB12-350-075-SC	3-1/2
PB12-375-075-SC	3-3/4
PB12-400-075-SC	4
PB12-425-075-SC	4-1/4
PB12-450-075-SC	4-1/2
PB12-475-075-SC	4-3/4
PB12-500-075-SC	5
PB12-525-075-SC	5-1/4
PB12-550-075-SC	5-1/2
PB12-600-075-SC	6
PB12-650-075-SC	6-1/2
PB12-700-075-SC	7

Part Number	O.D.
3/4" WIDE	
PB12-750-075-SC	7-1/2
PB12-800-075-SC	8
1" WIDE	
PB12-200-100-SC	2
PB12-225-100-SC	2-1/4
PB12-250-100-SC	2-1/2
PB12-275-100-SC	2-3/4
PB12-300-100-SC	3
PB12-325-100-SC	3-1/4
PB12-350-100-SC	3-1/2
PB12-375-100-SC	3-3/4
PB12-400-100-SC	4
PB12-425-100-SC	4-1/4
PB12-450-100-SC	4-1/2

Part Number	O.D.
1" WIDE	
PB12-475-100-SC	4-3/4
PB12-500-100-SC	5
PB12-525-100-SC	5-1/4
PB12-550-100-SC	5-1/2
PB12-600-100-SC	6
PB12-625-100-SC	6-1/4
PB12-650-100-SC	6-1/2
PB12-700-100-SC	7
PB12-750-100-SC	7-1/2
PB12-800-100-SC	8
PB12-900-100-SC	9
1-1/2" WIDE	
PB12-350-150-SC	3-1/2

STYLE 612 NYLON WEAR RINGS 1/8" THICK

Style 612 wear rings are made of glass reinforced nylon. With physical properties equivalent to bronze they are highly recommended because of their wear rate and non-scoring properties and their ability to ingest metal chips. **NOTE:** "SC" suffix designates a Scarf Cut wear ring, "ST" a Step Cut wear ring and "SL" Slots on the O.D.



P= PRECISION OR TIGHT TOLERANCE RADIAL WALL

SEAL INFORMATION

TEMPERATURE RANGE	-40° TO +250° F
TENSILE STRENGTH	27,000 PSI
COMPRESSIVE STRENGTH	26,000 PSI
PART NUMBER	(Prefix) - (OD) - (Width)

Part Number	O.D.
0.16" WIDE	
612-200-016	2
612-250-016P	2-1/2
612-300-016P	3
612-350-016P	3-1/2
3/16" WIDE	
612-250-018	2-1/2
1/4" WIDE	
612-150-025	1-1/2
612-175-025	1-3/4
612-200-025	2
612-250-025	2-1/2
1/4" WIDE	
612-225-025	2-1/4
612-300-025	3
612-306-025	3-1/16
612-350-025	3-1/2
612-325-025	3-1/4
612-387-025	3-7/8
1/4" WIDE	
612-425-025	4-1/4
612-1000-025	10
0.26" WIDE	
612-218-026	2-3/16
5/16" WIDE	
612-250-031	2-1/2
612-225-031	2-1/4
612-275-031	2-3/4
612-275-031P	2-3/4
612-300-031	3
612-325-031	3-1/4
612-400-031	4

Part Number	O.D.
3/8" WIDE	
612-100-037	1
612-150-037	1-1/2
612-125-037	1-1/4
612-112-037	1-1/8
612-162-037	1-5/8
612-175-037	1-3/4
612-200-037	2
612-212-037	2-1/8
612-250-037	2-1/2
612-225-037	2-1/4
612-275-037	2-3/4
612P-300-037P	3
612-300-037-SC	3
612-350-037	3-1/2
612-325-037	3-1/4
612-375-037	3-3/4
612-400-037	4
612-450-037	4-1/2
612-425-037	4-1/4
612-500-037	5
612-550-037	5-1/2
612-600-037	6
612-650-037	6-1/2
0.42" WIDE	
612-412-042	4-1/8
7/16" WIDE	
612-350-043	3-1/2
1/2" WIDE	
612-150-050	1-1/2
612-125-050	1-1/4
612-137-050	1-3/8
612-162-050	1-5/8
612-175-050	1-3/4

Part Number	O.D.
1/2" WIDE	
612-187-050	1-7/8
612R-200-050P	2
612-200-050	2
612-200-050-ST	2
612-212-050	2-1/8
612-250-050	2-1/2
612-250-050-ST	2-1/2
612-225-050	2-1/4
612-225-050-SC	2-1/4
612-237-050	2-3/8
612-262-050	2-5/8
612-275-050	2-3/4
612-287-050	2-7/8
612-300-050-ST	3
612-300-050P	3
612-300-050P-SC	3
612-300-050	3
612-312-050	3-1/8
612-325-050	3-1/4
612-350-050	3-1/2
612-362-050	3-5/8
612-375-050	3-3/4
612-375-050-ST	3-3/4
612-375-050P-SC	3-3/4
612-400-050	4
612-425-050	4-1/4
612-426-050	4.26
612-450-050	4-1/2
612-450-050P	4-1/2
612-475-050	4-3/4
612-500-050	5
612-525-050	5-1/4
612-550-050P	5-1/2

STYLE 612 NYLON WEAR RINGS 1/8" THICK

WEAR RINGS

Part Number	O.D.
1/2" WIDE	
612-550-050-ST	5-1/2
612-550-050	5-1/2
612-575-050	5-3/4
612-600-050P-SC	6
612-600-050	6
612-625-050	6-1/4
612-650-050	6-1/2
612-700-050	7
612-700-149-ST	7
612-725-050	7-1/4
612-750-050	7-1/2
612-775-050	7-3/4
612-800-050	8
612-850-050	8-1/2
612-862-050	8-5/8
612-900-050	9
612-950-050	9-1/2
612-975-050	9-3/4
612-987-050	9-7/8
612-1000-050	10
612-1050-050	10-1/2
612-1100-050	11
612-1200-050	12
612-1400-050	14
612-1600-050	16
5/8" WIDE	
612-150-062	1-1/2
612-200-062	2
612-225-062	2-1/4
612-250-062	2-1/2
612-262-062	2-5/8
612-275-062	2-3/4
612-275-062-SC	2-3/4
612-300-062	3
612-325-062	3-1/4
612-350-062-ST	3-1/2
612-350-062	3-1/2
612-362-062	3-5/8
612-375-062	3-3/4
612-400-062	4
612-400-062-ST	4
612-425-062	4-1/4
612-440-062	4.4
612-450-062	4-1/2
612-500-062	5
612-525-062	5-1/4
612-550-062	5-1/2

Part Number	O.D.
5/8" WIDE	
612-575-062	5-3/4
612-600-062	6
612-600-062-SC	6
612-625-062	6-1/4
612-650-062	6-1/2
612-700-062	7
612-700-062-SC	7
612-725-062	7-1/4
612-750-062	7-1/2
612-800-062	8
612-850-062	8-1/2
612-900-062	9
612-950-062	9-1/2
612-1000-062	10
11/16" WIDE	
612-700-068	7
0.74" WIDE	
612-250-074-SC	2-1/2
3/4" WIDE	
612-175-075	1-3/4
612-187-075	1-7/8
612-200-075	2
612-212-075	2-1/8
612-225-075	2-1/4
612-225-075-SC	2-1/4
612-237-075	2-3/8
612-250-075	2-1/2
612-262-075	2-5/8
612-275-075	2-3/4
612-287-075	2-7/8
612-300-075	3
612-325-075	3-1/4
612-337-075	3-3/8
612-350-075	3-1/2
612-350-075P	3-1/2
612-362-075	3-5/8
612-375-075	3-3/4
612-400-075	4
612-425-075	4-1/4
612-450-075	4-1/2
612-450-075-SC	4-1/2
612-475-075	4-3/4
612-487-075	4-7/8
612-500-075	5
612-525-075	5-1/4
612-550-075	5-1/2

Part Number	O.D.
3/4" WIDE	
612-575-075	5-3/4
612-600-075	6
612-625-075	6-1/4
612-650-075	6-1/2
612-675-075	6-3/4
612-700-075	7
612-725-075	7-1/4
612-750-075	7-1/2
612-800-075	8
612-825-075	8-1/4
612-850-075	8-1/2
612-900-075	9
612-900-075-SC	9
612-950-075	9-1/2
612-975-075	9-3/4
612-1000-075	10
612-1025-075	10-1/4
612-1150-075	11-1/2
612-1250-075	12-1/2
612-1350-075	13-1/2
7/8" WIDE	
612-100-087-SC	1
612-225-087-SC	2-1/4
612-250-087	2-1/2
612-287-087	2-7/8
612-350-087	3-1/2
612-400-087	4
612-425-087P	4-1/4
612-450-087	4-1/2
612-600-087	6
612-800-087	8
15/16" WIDE	
612-275-093-SC	2-3/4
612-450-093-SC	4-1/2
0.99" WIDE	
612-300-099-SC	3
612-400-099-SC	4
612-425-099-SC	4-1/4
612-450-099-SC	4-1/2
612-475-099-SC	4-3/4
1" WIDE	
612-150-100	1-1/2
612-175-100	1-3/4
612-200-100	2
612-200-100P-SC	2
612-250-100P	2-1/4

STYLE 612 NYLON WEAR RINGS 1/8" THICK

WEAR RINGS

Part Number	O.D.
1" WIDE	
612-225-100	2-1/4
612-225-100-SC	2-1/4
612-250-100	2-1/2
612-250-100-ST	2-1/2
612-262-100	2-5/8
612-275-100	2-3/4
612-275-100-ST	2-3/4
612-275-100P-SC	2-3/4
612-287-100	2-7/8
612-300-100	3
612-300-100-ST	3
612-312-100	2-1/8
612-325-100-SC	3-1/4
612-325-100	3-1/4
612-350-100	3-1/2
612-350-100-ST	3-1/2
612-350-100-SL	3-1/2
612-362-100	3-5/8
612-375-100	3-3/4
612-375-100P-SC	3-3/4
612-387-100	3-7/8
612-387-100-SC	3-7/8
612-400-100	4
612-400-100-SL	4
612-400-100P-SC	4
612-412-100	4-1/8
612-425-100	4-1/4
612-425-100P	4-1/4
612-450-100	4-1/2
612-475-100	4-3/4
612-500-100	5
612-525-100	5-1/4
612-550-100	5-1/2
612-575-100	5-3/4
612-600-100	6
612-625-100	6-1/4
612-650-100	6-1/2
612-675-100	6-3/4
612-700-100	7
612-725-100	7-1/4
612-750-100	7-1/2
612-775-100	7-3/4
612-787-100	7-7/8
612-800-100	8
612-825-100	8-1/4
612-850-100	8-1/2
612-862-100	8-5/8

Part Number	O.D.
1" WIDE	
612-875-100	8-3/4
612-900-100	9
612-912-100	9-1/8
612-925-100	9-1/4
612-950-100	9-1/2
612-1000-100	10
612-1025-100	10-1/4
612-1050-100	10-1/2
612-1100-100	11
612-1200-100P	12
612-1225-100	12-1/4
612-1400-100	14
612-1600-100	16
1.02" WIDE	
612-525-102-SC	5-1/4
1-1/16" WIDE	
612-600-107	6
1.11" WIDE	
612-325-111	3-1/4
612-500-111-SC	5
1-1/8" WIDE	
612-350-112-SC	3-1/2
612-500-112	5
1.24" WIDE	
612-300-124-SC	3
612-375-124-SC	3-3/4
612-425-124-SC	4-1/4
612-475-124-SC	4-3/4
612-500-124	5
612-600-124-SC	6
1-1/4" WIDE	
612-225-125P	2-1/4
612-325-125	3-1/4
612-375-125	3-3/4
612-400-125	4
612-425-125-SC	4-1/4
612-425-125	4-1/4
612-475-125-SC	4-3/4
612-525-125	5-1/4
612-525-125-SC	5-1/4
612-550-125	5-1/2
612-600-125	6
612-676-125P-SC	6.756
612-650-125	6-1/2
612-825-125	8-1/4
612-1000-125	10

Part Number	O.D.
1-1/4" WIDE	
612-1025-125-SC	10-1/4
612-1050-125	10-1/2
612-1100-125	11
612-1125-125	11-1/4
612-1200-125	12
612-1225-125	12-1/4
612-1400-125	14
1-5/16" WIDE	
612-600-131-SC	6
1-3/8" WIDE	
612-550-137	5-1/2
612-650-137	6-1/2
612-725-138	7-1/4
1.46" WIDE	
612-800-146-ST	8
1.49" WIDE	
612-375-149	3-3/4
612-425-149-SC	4-1/4
612-450-149-SC	4-1/2
612-525-149	5-1/4
612-625-149-SC	6-1/4
612-650-149-SC	6-1/2
612-750-149-SC	7-1/2
1-1/2" WIDE	
612-200-150	2
612-275-150	2-3/4
612-275-150P	2-3/4
612-325-150-ST	3-1/4
612-325-150P	3-1/4
612-350-150	3-1/2
612-400-150	4
612-425-150P	4-1/4
612-450-150	4-1/2
612-475-150	4-3/4
612-575-150	5-3/4
612-600-150	6
612-600-150-ST	6
612-625-150	6-1/4
612-650-150-ST	6-1/2
612-675-150P	6-3/4
612-700-150	7
612-825-150	8-1/4
612-850-150-ST	8-1/2
612-900-150	9
612-925-150-SC	9-1/4
612-962-150P-SC	9-5/8

STYLE 612 NYLON WEAR RINGS 1/8" THICK

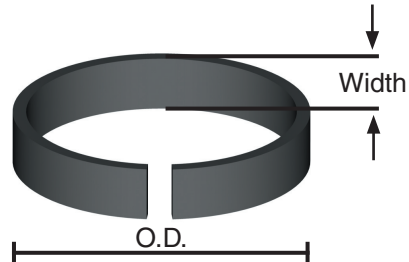
WEAR RINGS

Part Number	O.D.
1-1/2" WIDE	
612-1000-150	10
612-1050-150-ST	10-1/2
612-1200-150	12
612-1300-150	13
612-1400-150	14
612-1600-150	16
1.55" WIDE	
612-325-155	3-1/4
612-500-155-SC	5
1-9/16" WIDE	
612-475-156	4-3/4
612-512-156	5-1/8
612-512-156-SC	5-1/8
1.61" WIDE	
612-550-161	5-1/2
612-575-161-SC	5-3/4
1-5/8" WIDE	
612-325-162-SC	3-1/4
612-1100-162	11
1.74" WIDE	
612-550-175-SC	5-1/2
612-600-174-SC	6
612-625-174-SC	6-1/4
612-650-174	6-1/2
612-700-174	7
612-825-174-SC	8-1/4
1-3/4" WIDE	
612-500-175	5
612-575-175	5-3/4
612-1000-175	10
1.86" WIDE	
612-450-186	4-1/2
1-7/8" WIDE	
612-1100-187	11
1.88" WIDE	
612-425-188	4-1/4
1.99" WIDE	
612-375-199	3-3/4
612-475-199	4-3/4
612-550-199	5-1/2
612-575-199	5-3/4
612-650-199-SC	6-1/2
612-700-199-SC	7
612-725-199-SC	7-1/4
612-775-199	7-3/4

Part Number	O.D.
2" WIDE	
612-275-200P-SC	2-3/4
612-325-200	3-1/4
612-325-200P-SC	3-1/4
612-475-200	4-3/4
612-525-200P-SC	5-1/4
612-600-200	6
612-625-200	6-1/4
612-625-200P-SC	6-1/4
612-650-200	6-1/2
612-700-200	7
612-725-200	7-1/4
612-725-200P-SC	7-1/4
612-750-200	7-1/2
612-800-200	8
612-850-200	8-1/2
612-900-200	9
612-1200-200	12
2-1/8" WIDE	
612-325-212-SC	3-1/4
612-825-212-SC	8-1/4
2.24" WIDE	
612-550-224-SC	5-1/2
612-825-224-SC	8-1/4
2-1/4" WIDE	
612-925-225	9-1/4
2.36" WIDE	
612-450-236	4-1/2
612-575-236	5-3/4
612-700-236-SC	7
612-750-236	7-1/2
612-850-236	8-1/2
2-3/8" WIDE	
612-850-237	8-1/2
2.49" WIDE	
612-426-249-SC	4.26
612-750-249-SC	7-1/2
612-825-249	8-1/4
2-1/2" WIDE	
612-750-249-SC	7-1/2
2.74" WIDE	
612-625-274-SC	6-1/4
612-650-274-SC	6-1/2
612-825-274	8-1/4
612-1050-274	10-1/2

Part Number	O.D.
2.86" WIDE	
612-600-286	6
612-650-286	6-1/2
2-15/16" WIDE	
612-900-293-SC	9
2.95" WIDE	
612-750-295	7-1/2
3" WIDE	
612-700-300	7
612-850-300	8-1/2
3-1/8" WIDE	
612-700-312	7
3.24" WIDE	
612-1000-324-SC	10
3.48" WIDE	
612-650-348-SC	6-1/2
3-1/2" WIDE	
612-475-350	4-3/4
612-775-350	7-3/4
3.61" WIDE	
612-525-361-SC	5-1/4
3.74" WIDE	
612-1050-374-SC	10-1/2
3-3/4" WIDE	
612-1050-375	10-1/2
3-7/8" WIDE	
612-1150-387	11-1/2
3.99" WIDE	
612-1250-399-SC	12-1/2
612-1275-399-SC	12-3/4
612-1375-399-SC	13-3/4
612-1425-399-SC	14-1/4
4" WIDE	
612-1050-400	10-1/2
4.11" WIDE	
612-825-411-SC	8-1/4
5" WIDE	
612-800-500	8
7.1" WIDE	
612-725-710	7-1/4

STYLE 616 NYLON WEAR RINGS 3/16" THICK



SEAL INFORMATION

TEMPERATURE RANGE	-40° TO +250° F
TENSILE STRENGTH	27,000 PSI
COMPRESSIVE STRENGTH	26,000 PSI
PART NUMBER	(Prefix) - (OD) - (Width)

Part Number	O.D.
1/2" WIDE	
616-3003-050	3
616-3503-050	3-1/2
616-4003-050	4
616-4503-050	4-1/2
616-5503-050-SC	5-1/2
616-8003-050	8
616-9875-050	9-7/8
5/8" WIDE	
616-2203-062	2.200
616-2623-062	2-5/8
616-2873-062	2-7/8
616-3063-062	3-1/16
616-3253-062	3-1/4
616-6003-062	6
3/4" WIDE	
616-3003-075	3
616-3503-075	3-1/2
616-4253-075	4-1/4
616-5123-075	5-1/8
616-6123-075	6-1/8
616-6503-075	6-1/2
7/8" WIDE	
616-3003-087	3
616-4003-087	4
616-5003-087	5
616-5503-087	5-1/2
616-6003-087	6
616-7123-087	7-1/8
61/64" WIDE	
616-6123-095	6-1/8
1" WIDE	
616-3123-100	3-1/8
616-3503-100	3-1/2
616-3753-100	3-3/4
616-4003-100	4
616-4123-100	4-1/8

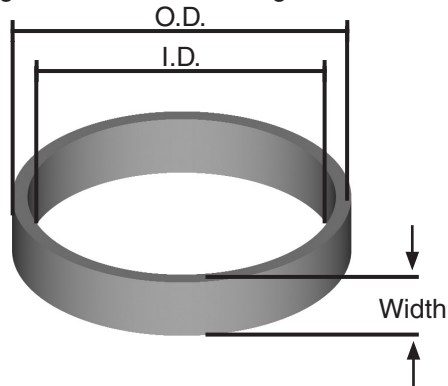
Part Number	O.D.
1" WIDE	
616-4503-100	4-1/2
616-5003-100	5
616-5503-100	5-1/2
616-5753-100	5-3/4
616-6003-100	6
616-6753-100	6-3/4
616-7123-100	7-1/8
616-7253-100	7-1/4
616-8503-100	8-1/2
616-14003-100	14
1-1/4" WIDE	
616-3123-125	3-1/8
616-3373-125	3-3/8
616-3623-125	3-5/8
616-3873-125	3-7/8
616-5503-125-SC	5-1/2
616-6003-125	6
616-7003-125	7
616-10003-125	10
1-1/2" WIDE	
616-4373-150	4-3/8
616-5003-150	5
616-5503-150	5-1/2
616-6503-150	6-1/2
616-8003-150	8
616-10003-150	10
1.61" WIDE	
616-7373-161	7-3/8
1.74" WIDE	
616-5503-174	5-1/2
1-3/4" WIDE	
616-3873-175	3-7/8
616-4373-175	4-3/8
1.93" WIDE	
616-9503-193	9-1/2

Part Number	O.D.
1.99" WIDE	
616-8253-199	8-1/4
2-1/4" WIDE	
616-4875-225	4-7/8
2.36" WIDE	
616-13875-236-SC	13.882
2-1/2" WIDE	
616-12003-250	12
2.61" WIDE	
616-11375-261-SC	11.382
2.62" WIDE	
616-3873-262	3-7/8
2.74" WIDE	
616-6003-274	6
616-8253-274	8-1/4
2.89" WIDE	
616-12873-289	12-7/8
3-1/16" WIDE	
616-7253-306	7-1/4
4" WIDE	
616-12253-400	12-1/4
7.69" WIDE	
616-15125-769-SC	15.127
616-16125-769-SC	16.118
7.85" WIDE	
616-13125-785-SC	13.118
9.99" WIDE	
616-13875-999-SC	13.882
10.97" WIDE	
616-11375-1097-SC	11.382
12.18" WIDE	
616-12875-1218-SC	12-7/8

WEAR RINGS

STYLE 614 NYLON ROD BEARINGS

Style 614 rod bearings are available in nylon material. These products are used extensively in hydraulic cylinders due to their low rate of wear and non-scoring properties. Excellent for those heavy duty applications that require a sturdy bearing. Most of these bearings are solid, although some may be split.



SEAL INFORMATION

TEMPERATURE RANGE	-40° TO +250° F
TENSILE STRENGTH	27,000 PSI
COMPRESSIVE STRENGTH	26,000 PSI
PART NUMBER	(Prefix) - (ID) - (Width)

WEAR RINGS

Part Number	ID	OD	Width
614-1253-100	1-1/4	1-1/2	1
614-1254-084	1-1/4	1-3/4	27/32
614-1254-100	1-1/4	1-3/4	1
614-1255-150	1-1/4	1-7/8	1-1/2
614-1502-100	1-1/2	1-5/8	.975
614-1503-100	1-1/2	1-3/4	1
614-1504-058	1-1/2	2	.580
614-1504-075	1-1/2	2	3/4
614-1505-150	1-1/2	2-1/8	1-1/2
614-1752-100	1-3/4	1-7/8	.975
614-1753-100	1-3/4	2	1
614-1754-040	1-3/4	2-1/4	7/16
614-1754-058	1-3/4	2-1/4	.580
614-1754-075	1-3/4	2-1/4	3/4
614-1754-087	1-3/4	2-1/4	7/8
614-2002-100	2	2-1/8	.975
614-2003-099	2	2-1/4	1
614-2004-050	2	2-1/2	1/2
614-2004-058	2	2-1/2	.580
614-2004-070	2	2-1/2	.700
614-2004-075	2	2-1/2	3/4
614-2004-100	2	2-1/2	1
614-2252-150	2-1/4	2-3/8	1.475
614-2253-125	2-1/4	2-1/2	1-1/4
614-2253-155	2-1/4	2-1/2	1-35/64
614-2253-225	2-1/4	2-1/2	2-1/4
614-2254-058	2-1/4	2-3/4	.580
614-2254-075	2-1/4	2-3/4	3/4
614-2502-150	2-1/2	2-5/8	1.475
614-2503-125	2-1/2	2-3/4	1-1/4
614-2503-155	2-1/2	2-3/4	1-35/64
614-2504-025	2-1/2	3	1/4
614-2504-040	2-1/2	3	13/32

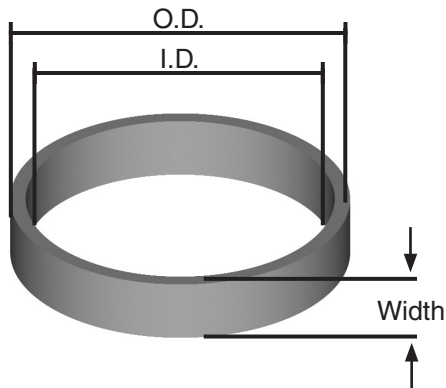
Part Number	ID	OD	Width
614-2504-058	2-1/2	3	.580
614-2504-075	2-1/2	3	3/4
614-2504-100	2-1/2	3	1
614-2753-155	2-3/4	3	1-35/64
614-2754-100	2-3/4	3-1/4	1
614-2755-100	2-3/4	3-3/8	1
614-3002-150	3	3-1/8	1.475
614-3004-046	3	3-1/2	15/32
614-3004-050	3	3-1/2	1/2
614-3004-075	3	3-1/2	3/4
614-3004-100	3	3-1/2	1
614-3004-150	3	3-1/2	1-1/2
614-3123-075	3-1/8	3-1/2	3/4
614-3123-084	3-1/8	3-1/2	.845
614-3253-037	3-1/4	3-5/8	3/8
614-3253-100	3-1/4	3-5/8	1
614-3253-155	3-1/4	3-1/2	1-35/64
614-3504-025	3-1/2	4	1/4
614-3504-046	3-1/2	4	15/32
614-3754-075	3-3/4	4-1/4	3/4
614-3754-100	3-3/4	4-1/4	1
614-3755-100	3-3/4	4-3/8	1
614-4004-025	4	4-1/2	1/4
614-4004-037	4	4-1/2	3/8
614-4004-075	4	4-1/2	3/4
614-4004-084	4	4-1/2	.845
614-4004-093	4	4-1/2	15/16
614-4004-100	4	4-1/2	1
614-4004-150	4	4-1/2	1-1/2
614-4005-100	4	4-5/8	1
614-4504-025	4-1/2	5	1/4
614-4754-100	4-3/4	5-1/4	1
614-4754-200	4-3/4	5-1/4	2

STYLE 614 NYLON ROD BEARINGS

Part Number	ID	OD	Width
614-4755-100	4-3/4	5-3/8	1
614-5004-075	5	5-1/2	3/4
614-5004-084	5	5-1/2	.845
614-5004-093	5	5-1/2	15/16
614-5004-100	5	5-1/2	1
614-5754-100	5-3/4	6-1/4	1
614-5755-100	5-3/4	6-3/8	1
614-6004-037	6	6-1/2	3/8
614-6004-075	6	6-1/2	3/4

Part Number	ID	OD	Width
614-6004-084	6	6-1/2	.845
614-6004-093	6	6-1/2	15/16
614-6004-100	6	6-1/2	1
614-7004-075	7	7-1/2	3/4
614-8004-075	8	8-1/2	3/4
614-8256-075	8-1/4	9	3/4
614-9006-075	9	9-3/4	3/4
614-9375-100	9-3/8	10	1

STYLE 615 PHENOLIC BEARINGS

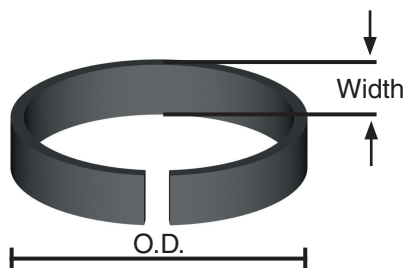


Part Number	ID	OD	Width
615-1254-075	1-1/4	1-3/4	3/4
615-2253-100	2-1/4	2-1/2	1
615-2504-150	2-1/2	2-3/4	1-1/2

SEAL INFORMATION	
TEMPERATURE RANGE	-40° TO +250° F
TENSILE STRENGTH	10,600 PSI
COMPRESSIVE STRENGTH	34,000 PSI
PART NUMBER	(Prefix)-(OD) (CS)-(Width)

Part Number	ID	OD	Width
615-2753-138	2-3/4	3	1.385
615-3753-175	3-3/4	4	1.74

STYLE 625 NYLON WEAR RING 1/4" THICK



Part Number	OD	Width
625-650-349	6-1/2	3.49
625-650-350	6-1/2	3-1/2

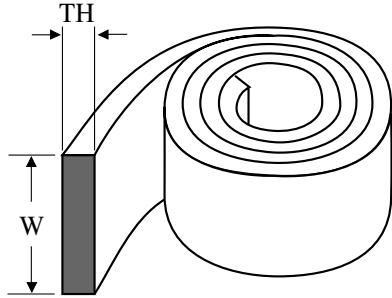
SEAL INFORMATION	
TEMPERATURE RANGE	-40° TO +250° F
TENSILE STRENGTH	27,000 PSI
COMPRESSIVE STRENGTH	26,000 PSI
PART NUMBER	(Prefix)-(OD) (CS)-(Width)

Part Number	OD	Width
625-825-350	8-1/4	3-1/2

FLEXIBLE GUIDE BEARINGS - FILLED PTFE

Flexible Guide Bearings are strips of filled PTFE. The material can be cut to any length to fit any rod or bore size without losing its concentricity. The filler material is shown below. **NOTE:** Glass filled material has a thickness tolerance of $\pm .010"$. Bronze filled tolerance is $\pm .0025"$.

B= BRONZE FILLED PTFE



SEAL INFORMATION

MATERIAL	GLASS FILLED 40% BRONZE FILLED PTFE
TEMPERATURE RANGE	-50° TO +400° F
TENSILE STRENGTH	2,100 PSI
COMPRESSIVE STRENGTH	1,500 PSI
PART NUMBER	(Prefix) - (Width)

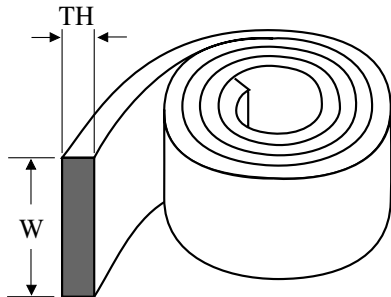
WEAR RINGS

Part Number	W Width	TH Thickness	Filler
606T-025	1/4	1/16	Bronze
606T-037	3/8	1/16	Bronze
606T-050	1/2	1/16	Bronze
606T-062	5/8	1/16	Bronze
606T-075	3/4	1/16	Bronze
606T-100	1	1/16	Bronze
609T-075	3/4	3/32	Bronze
609T-100	1	3/32	Bronze
609T-125	1-1/4	3/32	Bronze
612T-037B	3/8	1/8	Bronze

Part Number	W Width	TH Thickness	Filler
612T-050	1/2	1/8	Glass
612T-050B	1/2	1/8	Bronze
612T-062	5/8	1/8	Glass
612T-062B	5/8	1/8	Bronze
612T-075	3/4	1/8	Glass
612T-075B	3/4	1/8	Bronze
612T-100	1	1/8	Glass
612T-100B	1	1/8	Bronze
612T-112	1-1/8	1/8	Glass
612T-150	1-1/2	1/8	Glass

FLEXIBLE GUIDE BEARINGS - POLYESTER RESIN

Manufactured using woven fabric-reinforced polyester resin, this material produces a dimensionally accurate rectangular strip which can be cut to any length. Low coefficient of friction and high compressive strength makes it an ideal bearing material. A common radial thickness of 1/8" allows the stacking of various widths. Size reference is marked every 6" on the strip. Available by the foot or in flat boxed rolls of 32 feet. Cutting is made easy by using Anvil type pruning shears. Wall tolerance $\pm .002"$, radial wall thickness = 0.124 to 0.121"



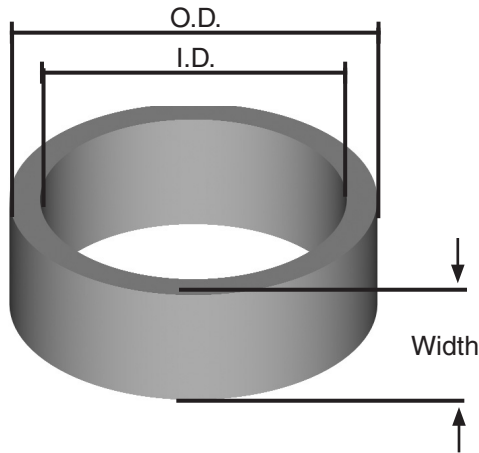
SEAL INFORMATION

TEMPERATURE RANGE	-40° TO +250° F
TENSILE STRENGTH	8,500 PSI
COMPRESSIVE STRENGTH	16,500 PSI
PART NUMBER	(Prefix) - (Width)

Part Number	W Width	TH Thickness
612F-037	3/8	1/8
612F-050	1/2	1/8
612F-062	5/8	1/8

Part Number	W Width	TH Thickness
612F-075	3/4	1/8
612F-100	1	1/8

STYLE 660 BRONZE ROD BEARINGS

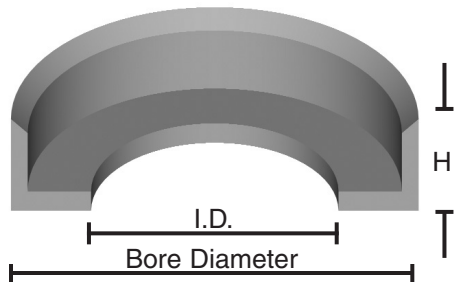


SEAL INFORMATION	
TEMPERATURE RANGE	-40° TO +250° F
TENSILE STRENGTH	35,000 PSI
YIELD STRENGTH	18,000 PSI
PART NUMBER	(Prefix) - (ID) (CS) - (Width)

Part Number	ID	OD	Width
660-1754-100	1-3/4	2-1/4	1
660-1008-125	1	1-1/2	1-1/4
660-1004-125	1	1-1/4	1-1/4

FOLLOWER BEARINGS

These parts are used as companion pieces for Cascade Vee Sets, used primarily as bearings. The bore sizes shown are nominal and are used in oversized bores of = .015" to = .030".



SEAL INFORMATION	
MATERIAL	60D POLYESTER
TEMPERATURE RANGE	-65° TO +220° F
PART NUMBER	(Prefix) - (Bore Diameter)

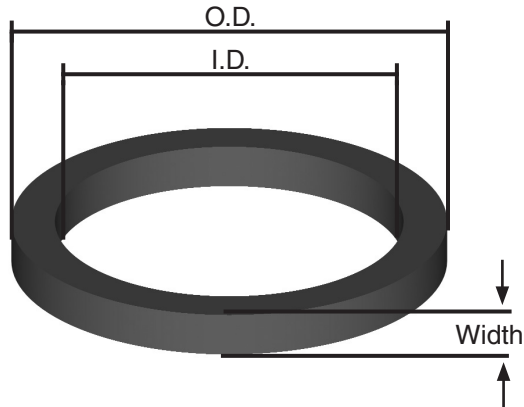
Part Number	Bore Diameter
FB-175	1-3/4
FB-200	2
FB-225	2-1/4
FB-250	2-1/2

Part Number	Bore Diameter
FB-300	3
FB-325	3-1/4
FB-350	3-1/2
FB-400	4

Part Number	Bore Diameter
FB-425	4-1/4
FB-475	4-3/4
FB-550	5-1/2
FB-650	6-1/2

MODULAR BACK-UPS

These back-up rings, made from urethane or nylon, are commonly used as spacers for u-seals.



SEAL INFORMATION

MATERIAL	URETHANE, NYLON OR HARD HYTREL
TEMPERATURE RANGE	-40° TO +250° F
PART NUMBER	(Prefix) (CS) - (ID) - (Width)

N = Nylon
S = Split
P = Hard Hytrel

WEAR RINGS

Part Number	I.D.	O.D.	Width
MB12-0.75-12-S	3/4	1	1/8
MB18-2.00-18	2	2-3/8	3/16
MB25-1.25-25	1-1/4	1-3/4	1/4
MB25-1.37-25	1-3/8	1-7/8	1/4
MB25-1.50-25	1-1/2	2	1/4
MB25-1.75-25	1-3/4	2-1/4	1/4
MB25-2.00-25	2	2-1/2	1/4
MB25-2.25-25	2-1/4	2-3/4	1/4
MB25-2.50-25	2-1/2	3	1/4
MB25-3.00-25	3	3-1/2	1/4
MB25-3.25-25	3-1/4	3-3/4	1/4
MB25-3.50-25	3-1/2	4	1/4
MB25-4.00-25	4	4-1/2	1/4
MB25-4.00-43	4	4-1/2	7/16
MB25-4.50-25	4-1/2	5	1/4
MB25-5.00-25	5	5-1/2	1/4
MB25-6.00-25	6	6-1/2	1/4
MB31-1.75-31	1-3/4	2-3/8	5/16
MB31-1.87-31	1-7/8	2-1/2	5/16
MB31-2.00-31	2	2-5/8	5/16
MB31-2.12-31	2-1/8	2-3/4	5/16
MB31-2.12-37	2-1/8	2-3/4	3/8
MB31-2.25-31	2-1/4	2-7/8	5/16
MB31-2.37-31	2-3/8	3	5/16
MB31-2.50-31	2-1/2	3-1/8	5/16
MB31-4.50-31	4-1/2	5-1/8	5/16
MB37-1.75-50	1-3/4	2-1/2	1/2
MB37-1.75-50N	1-3/4	2-1/2	1/2
MB37-1.75-56	1-3/4	2-1/2	9/16
MB37-2.00-25P	2	2-3/4	1/4
MB37-2.00-37	2	2-3/4	3/8

Part Number	I.D.	O.D.	Width
MB37-2.50-25P	2-1/2	3-1/4	1/4
MB37-2.62-50	2-5/8	3-3/8	1/2
MB37-2.62-50N	2-5/8	3-3/8	1/2
MB37-2.62-57	2-5/8	3-3/8	.575
MB37-2.75-25	2-3/4	3-1/2	1/4
MB37-3.00-37	3	3-3/4	3/8
MB37-3.12-37	3-1/8	3-7/8	3/8
MB37-3.50-25	3-1/2	4-1/4	1/4
MB37-3.50-37	3-1/2	4-1/4	3/8
MB37-3.50-44P	3-1/2	4-1/4	7/16
MB37-3.62-50N	3-5/8	4-3/8	1/2
MB37-3.62-56	3-5/8	4-3/8	9/16
MB37-4.00-37	4	4-3/4	3/8
MB37-4.25-37	4-1/4	5	3/8
MB37-4.50-50	4-1/2	5-1/4	1/2
MB37-4.50-50N	4-1/2	5-1/4	1/2
MB37-4.75-37	4-3/4	5-1/2	3/8
MB37-4.75-37N	4-3/4	5-1/2	3/8
MB37-5.00-37	5	5-3/4	3/8
MB37-5.25-12	5-1/4	6	1/8
MB37-5.50-37	5-1/2	6-1/4	3/8
MB37-5.50-43NS	5-1/2	6-1/4	7/16
MB37-6.00-43NS	6	6-3/4	7/16
MB37-6.00-56	6	6-3/4	9/16
MB37-7.00-37	7	7-3/4	3/8
MB43-3.87-25	3-7/8	4-3/4	1/4
MB43-4.50-62	4-1/2	5-3/8	5/8
MB43-4.75-31	4-3/4	5-5/8	5/16
MB50-3.00-50	3	4	1/2