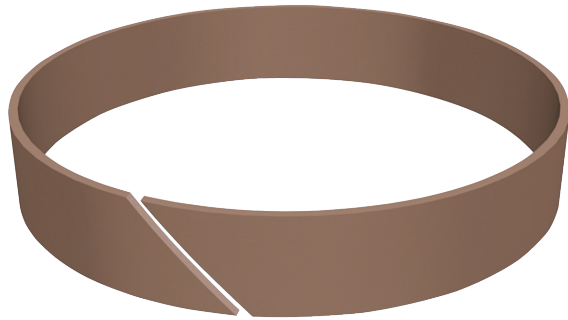


Wear Rings



Materials	Temp. Range
Bronze filled PTFE	-268°C to 288°C
Carbon Graphite filled PTFE	-268°C to 288°C
Glass filled Nylon	-240°C to 121°C
Glass filled PTFE	-268°C to 288°C
Phenolic	-60°C to 130°C
PEEK	-70°C to 260°C

Product Description

The function of a wear ring is to help keep the piston centred, which allows for even wear and pressure distribution on the seals. We provide wear rings in a variety of materials, our standard material is a glass filled nylon. Wear rings are used in both piston and rod applications. The standard tolerance for wear rings is ± 0.005 .

Style	Advantages	Installation	Performance
<p>Butt Cut</p>	Easiest cut style to install in most applications.		
<p>Angle Cut</p>	Improves bearing stress at the gap.		
<p>Step Cut</p>	Improves bearing stress at gap. Better resistance to contaminants & spike loads.		

3/16th Cross-section is not available in Step Cut style.

Part Numbers:

WR -

O.D.

Width

C/S if other than 0.125"

*CT

Material if other than Nylon:

R-Rod

- BRZ - Bronze filled PTFE
- TGF - Glass filled PTFE
- TCG - Carbon Graphite filled PTFE
- PH - Phenolic
- PEEK - PEEK

*CT, close tolerance, indicates a tolerance of +0.000/-0.002

Listed parts have a 0.125" actual target cross-section. Wear rings can be manufactured with custom cross-sections upon request.

Part Number	Bore Dia.	Seal Height
WR 1000187	1.000	0.187
WR 1000250	1.000	0.250
WR 1000312	1.000	0.312
WR 1000375	1.000	0.375
WR 1000500	1.000	0.500
WR 1000625	1.000	0.625
WR 1000750	1.000	0.750
WR 1000875	1.000	0.875
WR 1000100	1.000	1.000
WR 1000125	1.000	1.250
WR 1000150	1.000	1.500
WR 1000175	1.000	1.750
WR 1000200	1.000	2.000
WR 1125187	1.125	0.187
WR 1125250	1.125	0.250
WR 1125312	1.125	0.312
WR 1125375	1.125	0.375
WR 1125500	1.125	0.500
WR 1125625	1.125	0.625
WR 1125750	1.125	0.750
WR 1125875	1.125	0.875
WR 1125100	1.125	1.000
WR 1125125	1.125	1.250
WR 1125150	1.125	1.500
WR 1125175	1.125	1.750
WR 1125200	1.125	2.000
WR 1250187	1.250	0.187
WR 1250250	1.250	0.250
WR 1250312	1.250	0.312
WR 1250375	1.250	0.375
WR 1250500	1.250	0.500
WR 1250625	1.250	0.625
WR 1250750	1.250	0.750
WR 1250875	1.250	0.875
WR 1250100	1.250	1.000

Part Number	Bore Dia.	Seal Height
WR 1250125	1.250	1.250
WR 1250150	1.250	1.500
WR 1250175	1.250	1.750
WR 1250200	1.250	2.000
WR 1500187	1.500	0.187
WR 1500250	1.500	0.250
WR 1500312	1.500	0.312
WR 1500375	1.500	0.375
WR 1500500	1.500	0.500
WR 1500625	1.500	0.625
WR 1500750	1.500	0.750
WR 1500875	1.500	0.875
WR 1500100	1.500	1.000
WR 1500125	1.500	1.250
WR 1500150	1.500	1.500
WR 1500175	1.500	1.750
WR 1500200	1.500	2.000
WR 1750187	1.750	0.187
WR 1750250	1.750	0.250
WR 1750312	1.750	0.312
WR 1750375	1.750	0.375
WR 1750500	1.750	0.500
WR 1750625	1.750	0.625
WR 1750750	1.750	0.750
WR 1750875	1.750	0.875
WR 1750100	1.750	1.000
WR 1750125	1.750	1.250
WR 1750150	1.750	1.500
WR 1750175	1.750	1.750
WR 1750200	1.750	2.000
WR 2000250	2.000	0.250
WR 2000312	2.000	0.312
WR 2000375	2.000	0.375
WR 2000500	2.000	0.500
WR 2000625	2.000	0.625

Part Number	Bore Dia.	Seal Height
WR 2000750	2.000	0.750
WR 2000875	2.000	0.875
WR 2000100	2.000	1.000
WR 2000125	2.000	1.250
WR 2000150	2.000	1.500
WR 2000175	2.000	1.750
WR 2000200	2.000	2.000
WR 2500187	2.500	0.187
WR 2500250	2.500	0.250
WR 2500312	2.500	0.312
WR 2500375	2.500	0.375
WR 2500500	2.500	0.500
WR 2500625	2.500	0.625
WR 2500750	2.500	0.750
WR 2500875	2.500	0.875
WR 2500100	2.500	1.000
WR 2500125	2.500	1.250
WR 2500150	2.500	1.500
WR 2500175	2.500	1.750
WR 2500200	2.500	2.000
WR 2625187	2.625	0.187
WR 2625250	2.625	0.250
WR 2625312	2.625	0.312
WR 2625375	2.625	0.375
WR 2625500	2.625	0.500
WR 2625625	2.625	0.625
WR 2625750	2.625	0.750
WR 2625875	2.625	0.875
WR 2625100	2.625	1.000
WR 2625125	2.625	1.250
WR 2625150	2.625	1.500
WR 2625175	2.625	1.750
WR 2625200	2.625	2.000
WR 2750187	2.750	0.187
WR 2750250	2.750	0.250

Wear Rings

IMPERIAL SEALS

Wear Rings

Part Number	Bore Dia.	Seal Height
WR 2750312	2.750	0.312
WR 2750375	2.750	0.375
WR 2750500	2.750	0.500
WR 2750625	2.750	0.625
WR 2750750	2.750	0.750
WR 2750875	2.750	0.875
WR 2750100	2.750	1.000
WR 2750125	2.750	1.250
WR 2750150	2.750	1.500
WR 2750175	2.750	1.750
WR 2750200	2.750	2.000
WR 3000187	3.000	0.187
WR 3000250	3.000	0.250
WR 3000312	3.000	0.312
WR 3000375	3.000	0.375
WR 3000500	3.000	0.500
WR 3000625	3.000	0.625
WR 3000750	3.000	0.750
WR 3000875	3.000	0.875
WR 3000100	3.000	1.000
WR 3000125	3.000	1.250
WR 3000150	3.000	1.500
WR 3000175	3.000	1.750
WR 3000200	3.000	2.000
WR 3250187	3.250	0.187
WR 3250250	3.250	0.250
WR 3250312	3.250	0.312
WR 3250375	3.250	0.375
WR 3250500	3.250	0.500
WR 3250625	3.250	0.625
WR 3250750	3.250	0.750
WR 3250875	3.250	0.875
WR 3250100	3.250	1.000
WR 3250125	3.250	1.250
WR 3250150	3.250	1.500

Part Number	Bore Dia.	Seal Height
WR 3250175	3.250	1.750
WR 3250200	3.250	2.000
WR 3500187	3.500	0.187
WR 3500250	3.500	0.250
WR 3500312	3.500	0.312
WR 3500375	3.500	0.375
WR 3500500	3.500	0.500
WR 3500625	3.500	0.625
WR 3500750	3.500	0.750
WR 3500875	3.500	0.875
WR 3500100	3.500	1.000
WR 3500125	3.500	1.250
WR 3500150	3.500	1.500
WR 3500175	3.500	1.750
WR 3500200	3.500	2.000
WR 3750187	3.750	0.187
WR 3750250	3.750	0.250
WR 3750312	3.750	0.312
WR 3750375	3.750	0.375
WR 3750500	3.750	0.500
WR 3750625	3.750	0.625
WR 3750750	3.750	0.750
WR 3750875	3.750	0.875
WR 3750100	3.750	1.000
WR 3750125	3.750	1.250
WR 3750150	3.750	1.500
WR 3750175	3.750	1.750
WR 3750200	3.750	2.000
WR 3875187	3.875	0.187
WR 3875250	3.875	0.250
WR 3875312	3.875	0.312
WR 3875375	3.875	0.375
WR 3875500	3.875	0.500
WR 3875625	3.875	0.625
WR 3875750	3.875	0.750

Part Number	Bore Dia.	Seal Height
WR 3875875	3.875	0.875
WR 3875100	3.875	1.000
WR 3875125	3.875	1.250
WR 3875150	3.875	1.500
WR 3875175	3.875	1.750
WR 3875200	3.875	2.000
WR 4000187	4.000	0.187
WR 4000250	4.000	0.250
WR 4000312	4.000	0.312
WR 4000375	4.000	0.375
WR 4000500	4.000	0.500
WR 4000625	4.000	0.625
WR 4000750	4.000	0.750
WR 4000875	4.000	0.875
WR 4000100	4.000	1.000
WR 4000125	4.000	1.250
WR 4000150	4.000	1.500
WR 4000175	4.000	1.750
WR 4000200	4.000	2.000
WR 4250187	4.250	0.187
WR 4250250	4.250	0.250
WR 4250312	4.250	0.312
WR 4250375	4.250	0.375
WR 4250500	4.250	0.500
WR 4250625	4.250	0.625
WR 4250750	4.250	0.750
WR 4250875	4.250	0.875
WR 4250100	4.250	1.000
WR 4250125	4.250	1.250
WR 4250150	4.250	1.500
WR 4250175	4.250	1.750
WR 4250200	4.250	2.000
WR 4500187	4.500	0.187
WR 4500250	4.500	0.250
WR 4500312	4.500	0.312

Part Number	Bore Dia.	Seal Height
WR 4500375	4.500	0.375
WR 4500500	4.500	0.500
WR 4500625	4.500	0.625
WR 4500750	4.500	0.750
WR 4500875	4.500	0.875
WR 4500100	4.500	1.000
WR 4500125	4.500	1.250
WR 4500150	4.500	1.500
WR 4500175	4.500	1.750
WR 4500200	4.500	2.000
WR 4750187	4.750	0.187
WR 4750250	4.750	0.250
WR 4750312	4.750	0.312
WR 4750375	4.750	0.375
WR 4750500	4.750	0.500
WR 4750625	4.750	0.625
WR 4750750	4.750	0.750
WR 4750875	4.750	0.875
WR 4750100	4.750	1.000
WR 4750125	4.750	1.250
WR 4750150	4.750	1.500
WR 4750175	4.750	1.750
WR 4750200	4.750	2.000
WR 4875187	4.875	0.187
WR 4875250	4.875	0.250
WR 4875312	4.875	0.312
WR 4875375	4.875	0.375
WR 4875500	4.875	0.500
WR 4875625	4.875	0.625
WR 4875750	4.875	0.750
WR 4875875	4.875	0.875
WR 4875100	4.875	1.000
WR 4875125	4.875	1.250
WR 4875150	4.875	1.500
WR 4875175	4.875	1.750

Part Number	Bore Dia.	Seal Height
WR 4875200	4.875	2.000
WR 5000250	5.000	0.250
WR 5000312	5.000	0.312
WR 5000375	5.000	0.375
WR 5000500	5.000	0.500
WR 5000625	5.000	0.625
WR 5000750	5.000	0.750
WR 5000875	5.000	0.875
WR 5000100	5.000	1.000
WR 5000125	5.000	1.250
WR 5000150	5.000	1.500
WR 5000175	5.000	1.750
WR 5000200	5.000	2.000
WR 5250250	5.250	0.250
WR 5250312	5.250	0.312
WR 5250375	5.250	0.375
WR 5250500	5.250	0.500
WR 5250625	5.250	0.625
WR 5250750	5.250	0.750
WR 5250875	5.250	0.875
WR 5250100	5.250	1.000
WR 5250125	5.250	1.250
WR 5250150	5.250	1.500
WR 5250175	5.250	1.750
WR 5250200	5.250	2.000
WR 5250225	5.250	2.250
WR 5500250	5.500	0.250
WR 5500312	5.500	0.312
WR 5500375	5.500	0.375
WR 5500500	5.500	0.500
WR 5500625	5.500	0.625
WR 5500750	5.500	0.750
WR 5500875	5.500	0.875
WR 5500100	5.500	1.000
WR 5500125	5.500	1.250

Part Number	Bore Dia.	Seal Height
WR 5500150	5.500	1.500
WR 5500175	5.500	1.750
WR 5500200	5.500	2.000
WR 5625250	5.625	0.250
WR 5625312	5.625	0.312
WR 5625375	5.625	0.375
WR 5625500	5.625	0.500
WR 5625625	5.625	0.625
WR 5625750	5.625	0.750
WR 5625875	5.625	0.875
WR 5625100	5.625	1.000
WR 5625125	5.625	1.250
WR 5625150	5.625	1.500
WR 5625175	5.625	1.750
WR 5625200	5.625	2.000
WR 5750250	5.750	0.250
WR 5750312	5.750	0.312
WR 5750375	5.750	0.375
WR 5750500	5.750	0.500
WR 5750625	5.750	0.625
WR 5750750	5.750	0.750
WR 5750875	5.750	0.875
WR 5750100	5.750	1.000
WR 5750125	5.750	1.250
WR 5750150	5.750	1.500
WR 5750175	5.750	1.750
WR 5750200	5.750	2.000
WR 6000250	6.000	0.250
WR 6000312	6.000	0.312
WR 6000375	6.000	0.375
WR 6000500	6.000	0.500
WR 6000625	6.000	0.625
WR 6000750	6.000	0.750
WR 6000875	6.000	0.875
WR 6000100	6.000	1.000

Wear Rings

IMPERIAL SEALS

Wear Rings

Part Number	Bore Dia.	Seal Height
WR 6000125	6.000	1.250
WR 6000150	6.000	1.500
WR 6000175	6.000	1.750
WR 6000200	6.000	2.000
WR 6250250	6.250	0.250
WR 6250312	6.250	0.312
WR 6250375	6.250	0.375
WR 6250500	6.250	0.500
WR 6250625	6.250	0.625
WR 6250750	6.250	0.750
WR 6250875	6.250	0.875
WR 6250100	6.250	1.000
WR 6250125	6.250	1.250
WR 6250150	6.250	1.500
WR 6250175	6.250	1.750
WR 6250200	6.250	2.000
WR 6500250	6.500	0.250
WR 6500312	6.500	0.312
WR 6500375	6.500	0.375
WR 6500500	6.500	0.500
WR 6500625	6.500	0.625
WR 6500750	6.500	0.750
WR 6500875	6.500	0.875
WR 6500100	6.500	1.000
WR 6500125	6.500	1.250
WR 6500150	6.500	1.500
WR 6500175	6.500	1.750
WR 6500200	6.500	2.000
WR 6750250	6.750	0.250
WR 6750312	6.750	0.312
WR 6750375	6.750	0.375
WR 6750500	6.750	0.500
WR 6750625	6.750	0.625
WR 6750750	6.750	0.750
WR 6750875	6.750	0.875

Part Number	Bore Dia.	Seal Height
WR 6750100	6.750	1.000
WR 6750125	6.750	1.250
WR 6750150	6.750	1.500
WR 6750175	6.750	1.750
WR 6750200	6.750	2.000
WR 7000250	7.000	0.250
WR 7000312	7.000	0.312
WR 7000375	7.000	0.375
WR 7000500	7.000	0.500
WR 7000625	7.000	0.625
WR 7000750	7.000	0.750
WR 7000875	7.000	0.875
WR 7000100	7.000	1.000
WR 7000125	7.000	1.250
WR 7000150	7.000	1.500
WR 7000175	7.000	1.750
WR 7000200	7.000	2.000
WR 7250250	7.250	0.250
WR 7250312	7.250	0.312
WR 7250375	7.250	0.375
WR 7250500	7.250	0.500
WR 7250625	7.250	0.625
WR 7250750	7.250	0.750
WR 7250875	7.250	0.875
WR 7250100	7.250	1.000
WR 7250125	7.250	1.250
WR 7250150	7.250	1.500
WR 7250175	7.250	1.750
WR 7250200	7.250	2.000
WR 7500250	7.500	0.250
WR 7500312	7.500	0.312
WR 7500375	7.500	0.375
WR 7500500	7.500	0.500
WR 7500625	7.500	0.625
WR 7500750	7.500	0.750

Part Number	Bore Dia.	Seal Height
WR 7500875	7.500	0.875
WR 7500100	7.500	1.000
WR 7500125	7.500	1.250
WR 7500150	7.500	1.500
WR 7500175	7.500	1.750
WR 7500200	7.500	2.000
WR 7750250	7.750	0.250
WR 7750312	7.750	0.312
WR 7750375	7.750	0.375
WR 7750500	7.750	0.500
WR 7750625	7.750	0.625
WR 7750750	7.750	0.750
WR 7750875	7.750	0.875
WR 7750100	7.750	1.000
WR 7750125	7.750	1.250
WR 7750150	7.750	1.500
WR 7750175	7.750	1.750
WR 7750200	7.750	2.000
WR 8000250	8.000	0.250
WR 8000312	8.000	0.312
WR 8000375	8.000	0.375
WR 8000500	8.000	0.500
WR 8000625	8.000	0.625
WR 8000750	8.000	0.750
WR 8000875	8.000	0.875
WR 8000100	8.000	1.000
WR 8000125	8.000	1.250
WR 8000150	8.000	1.500
WR 8000175	8.000	1.750
WR 8000200	8.000	2.000
WR 8250250	8.250	0.250
WR 8250312	8.250	0.312
WR 8250375	8.250	0.375
WR 8250500	8.250	0.500
WR 8250625	8.250	0.625

Part Number	Bore Dia.	Seal Height
WR 8250750	8.250	0.750
WR 8250875	8.250	0.875
WR 8250100	8.250	1.000
WR 8250125	8.250	1.250
WR 8250150	8.250	1.500
WR 8250175	8.250	1.750
WR 8250200	8.250	2.000
WR 8500250	8.500	0.250
WR 8500312	8.500	0.312
WR 8500375	8.500	0.375
WR 8500500	8.500	0.500
WR 8500625	8.500	0.625
WR 8500750	8.500	0.750
WR 8500875	8.500	0.875
WR 8500100	8.500	1.000
WR 8500125	8.500	1.250
WR 8500150	8.500	1.500
WR 8500175	8.500	1.750
WR 8500200	8.500	2.000
WR 8750250	8.750	0.250
WR 8750312	8.750	0.312
WR 8750375	8.750	0.375
WR 8750500	8.750	0.500
WR 8750625	8.750	0.625
WR 8750750	8.750	0.750
WR 8750875	8.750	0.875
WR 8750100	8.750	1.000
WR 8750125	8.750	1.250
WR 8750150	8.750	1.500
WR 8750175	8.750	1.750
WR 8750200	8.750	2.000
WR 9000250	9.000	0.250
WR 9000312	9.000	0.312
WR 9000375	9.000	0.375
WR 9000500	9.000	0.500

Part Number	Bore Dia.	Seal Height
WR 9000625	9.000	0.625
WR 9000750	9.000	0.750
WR 9000875	9.000	0.875
WR 9000100	9.000	1.000
WR 9000125	9.000	1.250
WR 9000150	9.000	1.500
WR 9000175	9.000	1.750
WR 9000200	9.000	2.000
WR 9250250	9.250	0.250
WR 9250312	9.250	0.312
WR 9250375	9.250	0.375
WR 9250500	9.250	0.500
WR 9250625	9.250	0.625
WR 9250750	9.250	0.750
WR 9250875	9.250	0.875
WR 9250100	9.250	1.000
WR 9250125	9.250	1.250
WR 9250150	9.250	1.500
WR 9250175	9.250	1.750
WR 9250200	9.250	2.000
WR 9500250	9.500	0.250
WR 9500312	9.500	0.312
WR 9500375	9.500	0.375
WR 9500500	9.500	0.500
WR 9500625	9.500	0.625
WR 9500750	9.500	0.750
WR 9500875	9.500	0.875
WR 9500100	9.500	1.000
WR 9500125	9.500	1.250
WR 9500150	9.500	1.500
WR 9500175	9.500	1.750
WR 9500200	9.500	2.000
WR 9750250	9.750	0.250
WR 9750312	9.750	0.312
WR 9750375	9.750	0.375

Part Number	Bore Dia.	Seal Height
WR 9750500	9.750	0.500
WR 9750625	9.750	0.625
WR 9750750	9.750	0.750
WR 9750875	9.750	0.875
WR 9750100	9.750	1.000
WR 9750125	9.750	1.250
WR 9750150	9.750	1.500
WR 9750175	9.750	1.750
WR 9750200	9.750	2.000
WR 10000500	10.000	0.500
WR 10000625	10.000	0.625
WR 10000750	10.000	0.750
WR 10000875	10.000	0.875
WR 10000100	10.000	1.000
WR 10000125	10.000	1.250
WR 10000150	10.000	1.500
WR 10000175	10.000	1.750
WR 10000200	10.000	2.000
WR 10000225	10.000	2.250
WR 10500500	10.500	0.500
WR 10500625	10.500	0.625
WR 10500750	10.500	0.750
WR 10500875	10.500	0.875
WR 10500100	10.500	1.000
WR 10500125	10.500	1.250
WR 10500150	10.500	1.500
WR 10500175	10.500	1.750
WR 10500200	10.500	2.000