

Materials	Temp. Range
Glass Reinforced Nylon	-240°C to 121°C
Bronze Reinforced PTFE	-200°C to 260°C
Carbon Graphite Reinforced PTFE	-200°C to 260°C
Glass Reinforced PTFE	-200°C to 260°C
Moly/Glass Reinforced PTFE	-200°C to 260°C
KasPex™ PEEK	-70°C to 260°C
Phenolic (PH)	-60°C to 130°C
UHMW-PE	-250°C to 80°C

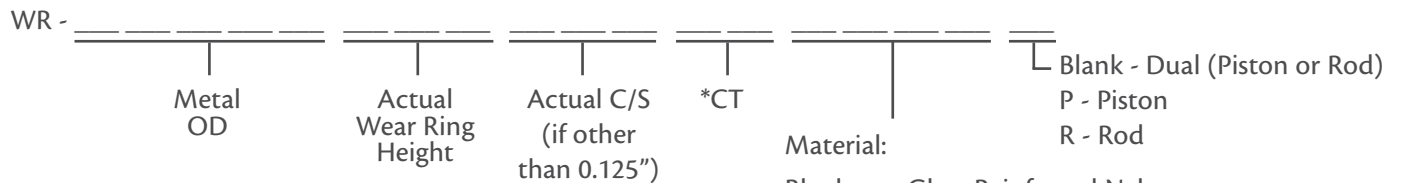
## Product Description

Wear rings are precision-engineered to help keep the piston and rod centred and prevent metal-to-metal contact between components. This allows for even wear and pressure distribution on the seals. Our standard wear ring material is glass reinforced nylon.

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

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

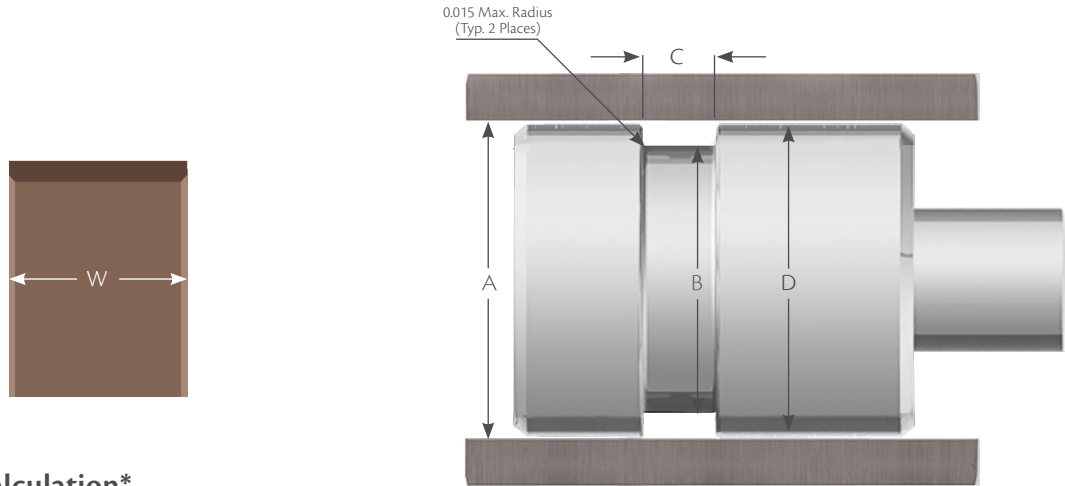
## Part Numbers:



Standard tolerance wear ring C/S = 0.125" +0/- 0.005

\*Close tolerance wear ring C/S = 0.125" +0/-0.002

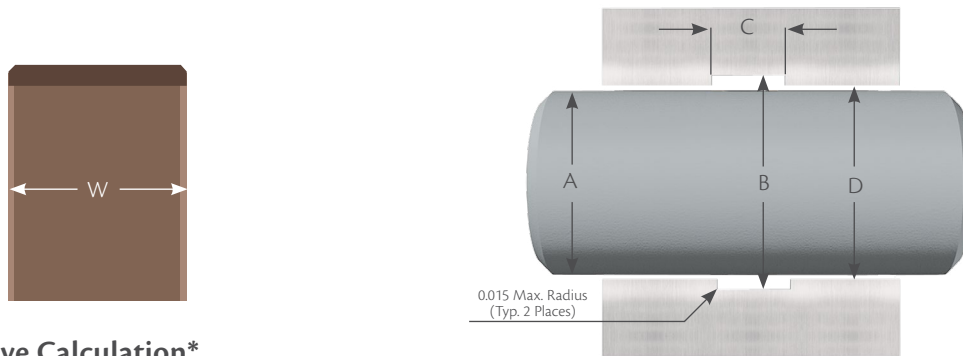
- Blank - Glass Reinforced Nylon
- BRZ - Bronze Reinforced PTFE
- TCG - Carbon Graphite Reinforced PTFE
- TGF - Glass Reinforced PTFE
- TMG - Moly Glass Reinforced PTFE
- PK - KasPex™ PEEK
- PH - Phenolic
- UHMW - UHMW-PE



### Piston Groove Calculation\*

A Bore Diameter		B Groove Diameter		C Groove Width	D Piston Diameter	
Range	Tol.	Calculation	Tol.	Calculation	Calculation	Tol.
<b>0.062 Cross Section</b>				<b>+0.010/-0.000</b>		
0.875 - 5.625	+0.002/-0.000	Dia. A - 0.125	+0.000/-0.002	C=W+0.010	Dia. A - 0.017	+0.000/-0.002
<b>0.125 Cross Section</b>				<b>+0.010/-0.000</b>		
1.000 - 4.875	+0.002/-0.000	Dia. A - 0.251	+0.000/-0.002	C=W+0.010	Dia. A - 0.017	+0.000/-0.002
5.000 - 7.500	+0.004/-0.000	Dia. A - 0.251	+0.000/-0.003	C=W+0.010	Dia. A - 0.018	+0.000/-0.003
7.500 - 12.000	+0.006/-0.000	Dia. A - 0.251	+0.000/-0.004	C=W+0.010	Dia. A - 0.021	+0.000/-0.004

\*Groove values are for close tolerance wear rings. For non-close tolerance wear rings, please refer to the [Wear Strip section](#).



### Rod (Shaft) Groove Calculation\*

A Rod Diameter		B Groove Diameter		C Groove Width	D Throat Diameter	
Range	Tol.	Calculation	Tol.	Calculation	Calculation	Tol.
<b>0.062 Cross Section</b>				<b>+0.010/-0.000</b>		
0.875 - 5.625	+0.000/-0.002	Dia. A + 0.125	+0.002/-0.000	C=W+0.010	Dia. A + 0.017	+0.002/-0.000
<b>0.125 Cross Section</b>				<b>+0.010/-0.000</b>		
0.750 - 5.625	+0.000/-0.002	Dia. A + 0.251	+0.002/-0.000	C=W+0.010	Dia. A + 0.017	+0.002/-0.000
5.625 - 7.000	+0.000/-0.004	Dia. A + 0.251	+0.003/-0.000	C=W+0.010	Dia. A + 0.020	+0.003/-0.000
7.000 - 12.000	+0.000/-0.006	Dia. A + 0.251	+0.004/-0.000	C=W+0.010	Dia. A + 0.021	+0.004/-0.000

\*Groove values are for close tolerance wear rings. For non-close tolerance wear rings, please refer to the [Wear Strip section](#).