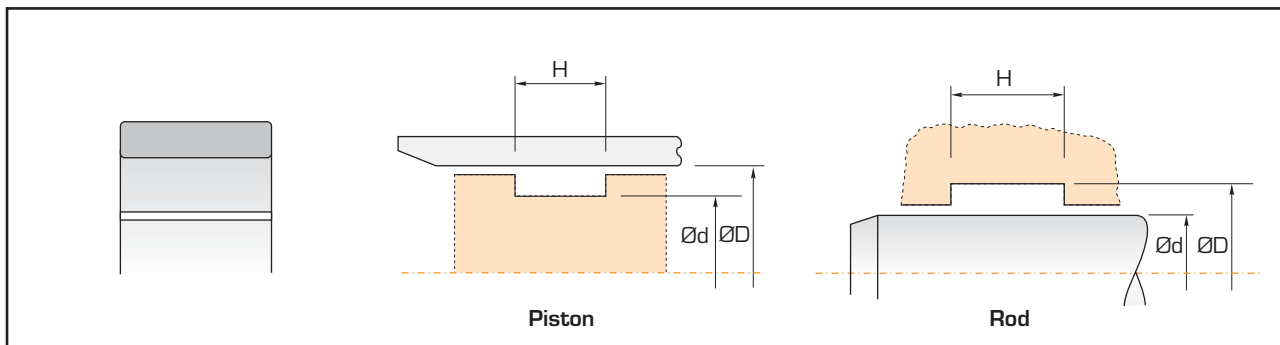


- Category**
- Wear Ring, Rod or Piston
- Construction**
- Heat stabilised, 33% glass filled nylon 66
- Housing**
- Rectangular groove in one piece gland or piston
- Features**
- High performance, dimensionally stable, injection moulded, reinforced nylon construction
 - Split for easy installation
- Comments**
- Efficiently eliminate metal on metal contact between sliding surfaces
 - Increase cylinder life and reduce overall costs
 - Use multiple wear rings in one groove to increase bearing area
- Manufacturer**
- Dynamic Seals
- Size Range**
- US imperial

- Metric Specifications**
- Operating Conditions**
- | | |
|--------------------|---------------|
| Maximum Speed: | 5.0 m/sec |
| Temperature Range: | -40°C ~ 120°C |
- Surface Finish**
- | | |
|-----------------------|--------------|
| Dynamic Sealing Face: | 0.4 µmRa |
| Static Sealing Face: | 3.2 µmRa max |
- Compression Strength at Yield**
- | |
|-----------------------|
| 240 MN/m ² |
|-----------------------|
- Imperial Specifications**
- Operating Conditions**
- | | |
|--------------------|---------------|
| Maximum Speed: | 15.0 ft/sec |
| Temperature Range: | -40°F ~ 250°F |
- Surface Finish**
- | | |
|-----------------------|----------------|
| Dynamic Sealing Face: | 16 µinCLA |
| Static Sealing Face: | 125 µinCLA max |
- Compression Strength at Yield**
- | |
|------------|
| 35 000 psi |
|------------|
- Extrusion Gap (Diametral)**
- Where a seal is used with a wear ring, the extrusion gap for the wear ring is determined by the extrusion gap required by the seal. The use of seals with antiextrusion devices allows larger metal to metal clearances.
 - Where no seal is used, extrusion gaps not less than 1mm (0.040") diametral and not exceeding 30% of the wear ring cross section should prove adequate.

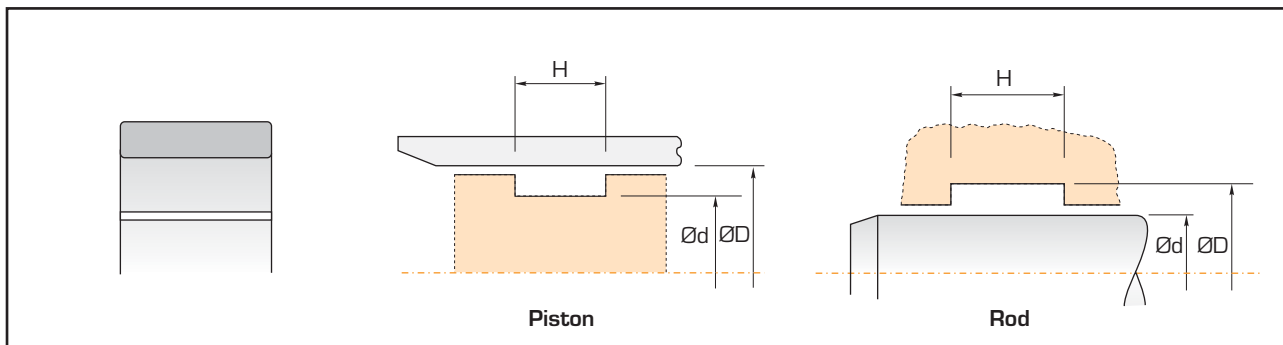


Imperial Sizes

Part No.	ØD	Ød	H
<i>Rod</i>	<i>+0.004 -0</i>	<i>f9</i>	<i>+0.005 -0</i>
<i>Piston</i>	<i>H11</i>	<i>+0 -0.004</i>	<i>+0.005 -0</i>
WR1000-093-187	1.000	0.814	0.197
WR1000-045-125	1.000	0.910	0.135
WR1250-125-437	1.250	1.000	0.447
WR1250-125-500	1.250	1.000	0.510
WR1250-125-1000	1.250	1.000	1.010
WR1250-094-187	1.250	1.062	0.197
WR1250-076-250	1.250	1.098	0.260
WR1250-062-1500	1.250	1.125	1.510
WR1375-062-500	1.375	1.250	0.510
WR1500-125-250	1.500	1.250	0.260
WR1500-125-375	1.500	1.250	0.385
WR1500-125-500	1.500	1.250	0.510
WR1500-094-187	1.500	1.312	0.197
WR1500-094-375	1.500	1.312	0.385
WR1500-092-375	1.500	1.316	0.385
WR1500-089-250	1.500	1.322	0.260
WR1625-062-1000	1.625	1.500	1.010
WR1750-125-190	1.750	1.500	0.200
WR1750-125-375	1.750	1.500	0.385
WR1750-125-500	1.750	1.500	0.510
WR1875-125-190	1.875	1.625	0.200
WR1875-125-375	1.875	1.625	0.385
WR1875-125-500	1.875	1.625	0.510
WR1875-092-375	1.875	1.691	0.385
WR1875-062-1000	1.875	1.750	1.010
WR2000-125-187	2.000	1.750	0.197
WR2000-125-250	2.000	1.750	0.260
WR2000-125-312	2.000	1.750	0.322
WR2000-125-375	2.000	1.750	0.385
WR2000-125-500	2.000	1.750	0.510
WR2000-125-750	2.000	1.750	0.760
WR2000-125-1000	2.000	1.750	1.010
WR2000-092-375	2.000	1.816	0.385
WR2000-089-250	2.000	1.821	0.260

Imperial Sizes (cont'd)

Part No.	ØD	Ød	H
WR2000-062-500	2.000	1.876	0.510
WR2125-125-375	2.125	1.875	0.385
WR2125-125-750	2.125	1.875	0.760
WR2125-062-1000	2.125	2.000	1.010
WR2250-125-187	2.250	2.000	0.197
WR2250-125-250	2.250	2.000	0.260
WR2250-125-312	2.250	2.000	0.322
WR2250-125-375	2.250	2.000	0.385
WR2250-125-500	2.250	2.000	0.510
WR2250-125-625	2.250	2.000	0.635
WR2250-125-750	2.250	2.000	0.760
WR2250-125-1000	2.250	2.000	1.010
WR2250-092-375	2.250	2.066	0.385
WR2250-062-780	2.250	2.125	0.790
WR2375-125-500	2.375	2.125	0.510
WR2375-125-750	2.375	2.125	0.760
WR2500-156-187	2.500	2.187	0.197
WR2500-125-187	2.500	2.250	0.197
WR2500-125-250	2.500	2.250	0.260
WR2500-125-312	2.500	2.250	0.322
WR2500-125-375	2.500	2.250	0.385
WR2500-125-500	2.500	2.250	0.510
WR2500-125-625	2.500	2.250	0.635
WR2500-125-750	2.500	2.250	0.760
WR2500-125-1000	2.500	2.250	1.010
WR2500-092-312	2.500	2.316	0.322
WR2500-092-375	2.500	2.316	0.385
WR2500-089-250	2.500	2.321	0.260
WR2625-125-375	2.625	2.375	0.385
WR2625-125-625	2.625	2.375	0.635
WR2625-062-1000	2.625	2.500	1.010
WR2625-062-1500	2.625	2.500	1.510
WR2750-125-250	2.750	2.500	0.260
WR2750-125-312	2.750	2.500	0.322
WR2750-125-375	2.750	2.500	0.385
WR2750-125-500	2.750	2.500	0.510

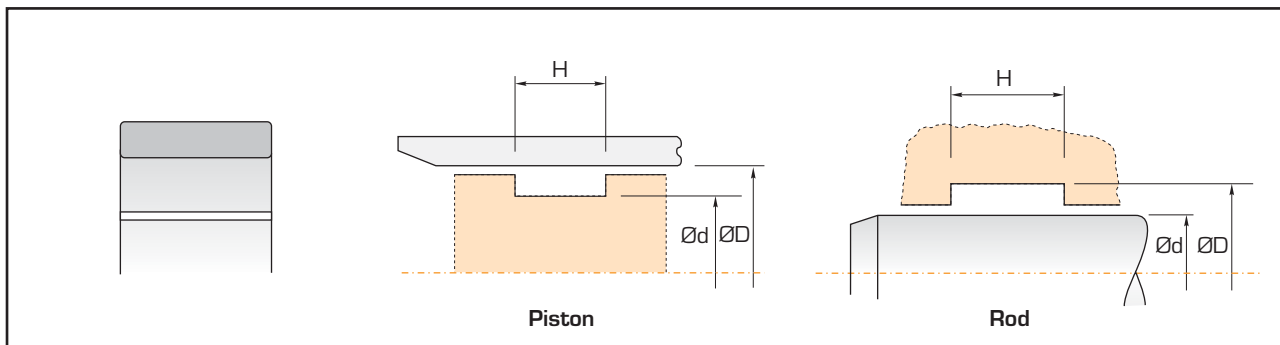


Imperial Sizes (cont'd)

Part No.	ØD	Ød	H
<i>Rod</i>	<i>+0.004 -0</i>	<i>f9</i>	<i>+0.005 -0</i>
<i>Piston</i>	<i>H11</i>	<i>+0 -0.004</i>	<i>+0.005 -0</i>
WR2750-125-625	2.750	2.500	0.635
WR2750-125-750	2.750	2.500	0.760
WR2750-125-1000	2.750	2.500	1.010
WR2875-062-1500	2.875	2.751	1.510
WR3000-125-250	3.000	2.750	0.260
WR3000-125-312	3.000	2.750	0.322
WR3000-125-375	3.000	2.750	0.385
WR3000-125-437	3.000	2.750	0.447
WR3000-125-500	3.000	2.750	0.510
WR3000-125-625	3.000	2.750	0.635
WR3000-125-750	3.000	2.750	0.760
WR3000-125-1000	3.000	2.750	1.010
WR3000-113-250	3.000	2.774	0.260
WR3000-096-212	3.000	2.808	0.222
WR3000-092-375	3.000	2.816	0.385
WR3125-125-500	3.125	2.875	0.510
WR3125-062-1500	3.125	3.000	1.510
WR3125-062-1000	3.125	3.001	1.010
WR3250-187-500	3.250	2.875	0.510
WR3250-125-187	3.250	3.000	0.197
WR3250-125-250	3.250	3.000	0.260
WR3250-125-312	3.250	3.000	0.322
WR3250-125-375	3.250	3.000	0.385
WR3250-125-500	3.250	3.000	0.510
WR3250-125-625	3.250	3.000	0.635
WR3250-125-750	3.250	3.000	0.760
WR3250-125-1000	3.250	3.000	1.010
WR3250-125-1500	3.250	3.000	1.510
WR3250-113-250	3.250	3.024	0.260
WR3250-096-212	3.250	3.058	0.222
WR3250-093-375	3.250	3.064	0.385
WR3375-125-750	3.375	3.125	0.760
WR3500-187-500	3.500	3.125	0.510
WR3500-187-1000	3.500	3.125	1.010

Imperial Sizes (cont'd)

Part No.	ØD	Ød	H
WR3500-125-187	3.500	3.250	0.197
WR3500-125-250	3.500	3.250	0.260
WR3500-125-312	3.500	3.250	0.322
WR3500-125-375	3.500	3.250	0.385
WR3500-125-437	3.500	3.250	0.447
WR3500-125-500	3.500	3.250	0.510
WR3500-125-625	3.500	3.250	0.635
WR3500-125-750	3.500	3.250	0.760
WR3500-125-1000	3.500	3.250	1.010
WR3500-125-1115	3.500	3.250	1.125
WR3500-125-1125	3.500	3.250	1.135
WR3500-113-250	3.500	3.274	0.260
WR3500-096-212	3.500	3.308	0.222
WR3500-095-500	3.500	3.310	0.510
WR3500-094-750	3.500	3.312	0.760
WR3500-092-375	3.500	3.316	0.385
WR3625-125-500	3.625	3.375	0.510
WR3625-125-1000	3.625	3.375	1.010
WR3750-125-187	3.750	3.500	0.197
WR3750-125-250	3.750	3.500	0.260
WR3750-125-312	3.750	3.500	0.322
WR3750-125-375	3.750	3.500	0.385
WR3750-125-500	3.750	3.500	0.510
WR3750-125-625	3.750	3.500	0.635
WR3750-125-750	3.750	3.500	0.760
WR3750-125-1000	3.750	3.500	1.010
WR3750-125-1500	3.750	3.500	1.510
WR4000-187-500	4.000	3.625	0.510
WR4000-187-875	4.000	3.625	0.885
WR4000-187-1000	4.000	3.626	1.010
WR4000-125-250	4.000	3.750	0.260
WR4000-125-312	4.000	3.750	0.322
WR4000-125-375	4.000	3.750	0.385
WR4000-125-500	4.000	3.750	0.510
WR4000-125-625	4.000	3.750	0.635
WR4000-125-750	4.000	3.750	0.760

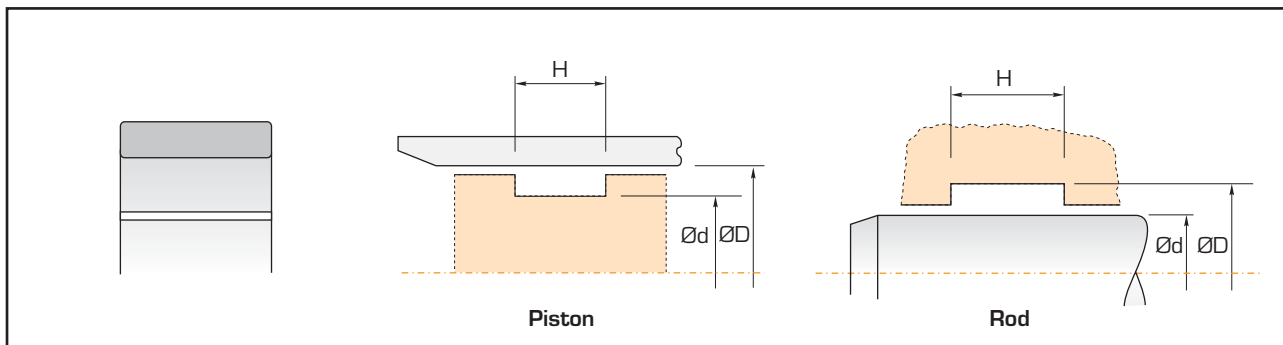


Imperial Sizes (cont'd)

Part No.	ØD	Ød	H
<i>Rod</i>	<i>+0.004 -0</i>	<i>f9</i>	<i>+0.005 -0</i>
<i>Piston</i>	<i>H11</i>	<i>+0 -0.004</i>	<i>+0.005 -0</i>
WR4000-125-1000	4.000	3.750	1.010
WR4000-113-250	4.000	3.773	0.260
WR4250-125-250	4.250	4.000	0.260
WR4250-125-312	4.250	4.000	0.322
WR4250-125-375	4.250	4.000	0.385
WR4250-125-500	4.250	4.000	0.510
WR4250-125-625	4.250	4.000	0.635
WR4250-125-750	4.250	4.000	0.760
WR4250-125-1000	4.250	4.000	1.010
WR4250-125-1500	4.250	4.000	1.510
WR4500-125-312	4.500	4.250	0.322
WR4500-125-375	4.500	4.250	0.385
WR4500-125-500	4.500	4.250	0.510
WR4500-125-625	4.500	4.250	0.635
WR4500-125-750	4.500	4.250	0.760
WR4500-125-1000	4.500	4.250	1.010
WR4750-125-375	4.750	4.500	0.385
WR4750-125-500	4.750	4.500	0.510
WR4750-125-750	4.750	4.500	0.760
WR4750-125-1000	4.750	4.500	1.010
WR4750-125-1250	4.750	4.500	1.260
WR4750-125-1500	4.750	4.500	1.510
WR5000-187-1000	5.000	4.626	1.010
WR5000-144-375	5.000	4.712	0.385
WR5000-125-375	5.000	4.750	0.385
WR5000-125-500	5.000	4.750	0.510
WR5000-125-625	5.000	4.750	0.635
WR5000-125-750	5.000	4.750	0.760
WR5000-125-1000	5.000	4.750	1.010
WR5000-125-1115	5.000	4.750	1.125
WR5000-125-1125	5.000	4.750	1.135
WR5000-125-1500	5.000	4.750	1.510
WR5125-125-625	5.125	4.875	0.635
WR5250-125-500	5.250	5.000	0.510

Imperial Sizes (cont'd)

Part No.	ØD	Ød	H
WR5250-125-625	5.250	5.000	0.635
WR5250-125-750	5.250	5.000	0.760
WR5250-125-1000	5.250	5.000	1.010
WR5250-125-1500	5.250	5.000	1.510
WR5500-125-375	5.500	5.250	0.385
WR5500-125-500	5.500	5.250	0.510
WR5500-125-625	5.500	5.250	0.635
WR5500-125-750	5.500	5.250	0.760
WR5500-125-1000	5.500	5.250	1.010
WR5500-125-1250	5.500	5.250	1.260
WR5500-125-1500	5.500	5.250	1.510
WR5750-125-750	5.750	5.500	0.760
WR5750-125-1000	5.750	5.500	1.010
WR5750-125-1500	5.750	5.500	1.510
WR6000-144-375	6.000	5.712	0.385
WR6000-125-375	6.000	5.750	0.385
WR6000-125-500	6.000	5.750	0.510
WR6000-125-625	6.000	5.750	0.635
WR6000-125-750	6.000	5.750	0.760
WR6000-125-1000	6.000	5.750	1.010
WR6000-125-1500	6.000	5.750	1.510
WR6250-125-500	6.250	6.000	0.510
WR6250-125-625	6.250	6.000	0.635
WR6250-125-750	6.250	6.000	0.760
WR6250-125-1000	6.250	6.000	1.010
WR6250-125-1250	6.250	6.000	1.260
WR6250-125-1500	6.250	6.000	1.510
WR6500-250-4250	6.500	6.000	4.260
WR6500-125-500	6.500	6.250	0.510
WR6500-125-750	6.500	6.250	0.760
WR6500-125-1000	6.500	6.250	1.010
WR6500-125-1500	6.500	6.250	1.510
WR6750-125-750	6.750	6.500	0.760
WR6750-125-1000	6.750	6.500	1.010
WR6750-125-1500	6.750	6.500	1.510
WR7000-125-500	7.000	6.750	0.510



Imperial Sizes (cont'd)

Part No.	ØD	Ød	H
<i>Rod</i>	<i>+0.004 -0</i>	<i>f9</i>	<i>+0.005 -0</i>
<i>Piston</i>	<i>H11</i>	<i>+0 -0.004</i>	<i>+0.005 -0</i>
WR7000-125-625	7.000	6.750	0.635
WR7000-125-750	7.000	6.750	0.760
WR7000-125-1000	7.000	6.750	1.010
WR7000-125-1500	7.000	6.750	1.510
WR7250-125-500	7.250	7.000	0.510
WR7250-125-750	7.250	7.000	0.760
WR7250-125-1000	7.250	7.000	1.010
WR7250-125-2750	7.250	7.000	2.760
WR8250-125-1000	7.250	8.000	1.010
WR7375-125-750	7.375	7.125	0.760
WR7500-250-7250	7.500	7.000	7.260
WR7500-125-500	7.500	7.250	0.510
WR7500-125-750	7.500	7.250	0.760
WR7500-125-1000	7.500	7.250	1.010
WR7750-125-500	7.750	7.500	0.510
WR7750-125-1000	7.750	7.500	1.010
WR8000-125-500	8.000	7.750	0.510
WR8000-125-750	8.000	7.750	0.760
WR8000-125-1000	8.000	7.750	1.010
WR8000-125-5000	8.000	7.750	5.010
WR8030-125-500	8.030	7.780	0.510
WR8375-125-1000	8.375	8.125	1.010
WR8500-187-1000	8.500	8.126	1.010
WR8500-187-1500	8.500	8.126	1.510
WR8500-125-500	8.500	8.250	0.510
WR8500-125-1000	8.500	8.250	1.010
WR8750-125-1000	8.750	8.500	1.010
WR8750-125-1500	8.750	8.500	1.510
WR9000-250-500	9.000	8.500	0.510
WR9000-125-1000	9.000	8.750	1.010
WR9125-250-500	9.125	8.625	0.510
WR9250-125-1000	9.250	9.000	1.010
WR9500-125-500	9.500	9.250	0.510
WR9500-125-1000	9.500	9.250	1.010

Imperial Sizes (cont'd)

Part No.	ØD	Ød	H
WR9750-125-750	9.750	9.500	0.760
WR9750-125-1000	9.750	9.500	1.010
WR10000-195-1000	10.000	9.610	1.010
WR10000-125-1000	10.000	9.750	1.010
WR10000-125-1250	10.000	9.750	1.260
WR10000-125-1500	10.000	9.750	1.510
WR10000-125-2750	10.000	9.750	2.760
WR10250-125-1000	10.250	10.000	1.010
WR10500-187-1000	10.500	10.126	1.010
WR10500-125-1000	10.500	10.250	1.010
WR10500-125-1250	10.500	10.250	1.260
WR11000-125-1000	11.000	10.750	1.010
WR11250-125-1000	11.250	11.000	1.010
WR11250-125-1250	11.250	11.000	1.260
WR11500-125-1000	11.500	11.250	1.010
WR12000-125-750	12.000	11.750	0.760
WR12000-125-1000	12.000	11.750	1.010
WR12000-125-1500	12.000	11.750	1.510
WR12375-250-1250	12.375	11.875	1.260
WR12500-125-1000	12.500	12.250	1.010
WR13000-250-1250	13.000	12.500	1.260
WR13000-125-1000	13.000	12.750	1.010
WR18000-125-750	18.000	17.750	0.760