

Category

- Seal, Double Acting Piston

Construction

- High grade cast iron ring with special step joint

Housing

- Rectangular groove in one piece piston

Duty

- Heavy

Features

- Can pass over large ports in cylinder walls
- Capable of operating at high temperatures
- Special step joint eliminates "gapping"

Comments

- Use up to three rings on a piston
- Some leakage past cast iron rings makes these unsuitable for applications where a 0 leakage seal is required

Size Range

- Imperial

Metric Specifications

Surface Finish

Dynamic Sealing Face:	0.4 ~ 1.0 µmRa
Static Sealing Face:	3.2 µmRa max
Other Faces:	1.0 µmRa max

Chamfers

Minimum Z = H

Imperial Specifications

Surface Finish

Dynamic Sealing Face:	16 ~ 40 µinCLA
Static Sealing Face:	125 µinCLA max
Other Faces:	40 µinCLA max

Chamfers

Minimum Z = H

Port Passover

- Cast iron rings can pass over ports in the cylinder wall where the port diameter is less than 4 times the width of the piston ring groove *H*

Operating Conditions

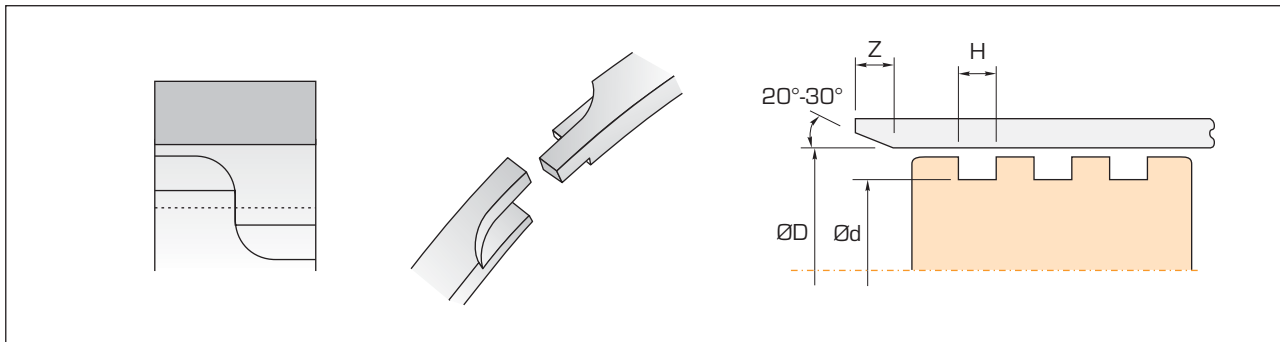
- Cast iron rings will operate efficiently at temperatures and speeds beyond the range of elastomer seals

Extrusion Gap

- Whilst there is no practical reason to restrict extrusion gaps to prevent extrusion of the piston ring, the metal to metal clearance should be kept to a minimum to assist in cylinder alignment

TRANSEALS TRANSEALS TRANSEALS TRANSEALS TRANSEALS TRANSEALS TRANSEALS TRANSEALS TRANSEALS TRANSEALS

TRANSEALS TRANSEALS TRANSEALS TRANSEALS TRANSEALS TRANSEALS TRANSEALS TRANSEALS TRANSEALS TRANSEALS



Imperial Sizes

Part No.	ØD	Ød	H
<i>Tolerances</i>	<i>H10</i>	<i>+0 -0.006</i>	<i>+0.002 -0</i>
IPI-1500-125	1.500	1.286	0.126
IPI-1500-188	1.500	1.286	0.189
IPI-1750-125	1.750	1.510	0.126
IPI-2000-125	2.000	1.750	0.126
IPI-2000-188	2.000	1.750	0.189
IPI-2250-125	2.250	1.980	0.126
IPI-2250-188	2.250	1.980	0.189
IPI-2500-125	2.500	2.206	0.126
IPI-2500-188	2.500	2.206	0.189
IPI-2750-125	2.750	2.437	0.126
IPI-2750-188	2.750	2.437	0.189
IPI-3000-125	3.000	2.680	0.126
IPI-3000-188	3.000	2.680	0.189
IPI-3000-250	3.000	2.680	0.251
IPI-3250-188	3.250	2.914	0.189
IPI-3250-250	3.250	2.914	0.251
IPI-3500-188	3.500	3.148	0.189
IPI-3500-250	3.500	3.148	0.251
IPI-3500-312	3.500	3.148	0.313
IPI-3750-250	3.750	3.380	0.251
IPI-4000-250	4.000	3.612	0.251
IPI-4000-312	4.000	3.612	0.313
IPI-4250-250	4.250	3.844	0.251
IPI-4500-250	4.500	4.074	0.251
IPI-4500-312	4.500	4.074	0.313
IPI-4750-250	4.750	4.308	0.251
IPI-5000-250	5.000	4.540	0.251
IPI-5000-312	5.000	4.540	0.312
IPI-5250-250	5.250	4.782	0.251
IPI-5500-250	5.500	5.020	0.251
IPI-5500-312	5.500	5.020	0.313
IPI-6000-250	6.000	5.488	0.251
IPI-6000-312	6.000	5.488	0.313

Imperial Sizes (cont'd)

Part No.	ØD	Ød	H
IPI-6500-312	6.500	5.984	0.313
IPI-6750-312	6.750	6.182	0.313
IPI-7000-312	7.000	6.414	0.313
IPI-7250-312	7.250	6.646	0.313
IPI-7500-312	7.500	6.882	0.313
IPI-8000-250	8.000	7.350	0.251
IPI-8000-312	8.000	7.350	0.313
IPI-8000-375	8.000	7.350	0.376
IPI-8500-312	8.500	7.820	0.313
IPI-9000-312	9.000	8.282	0.313