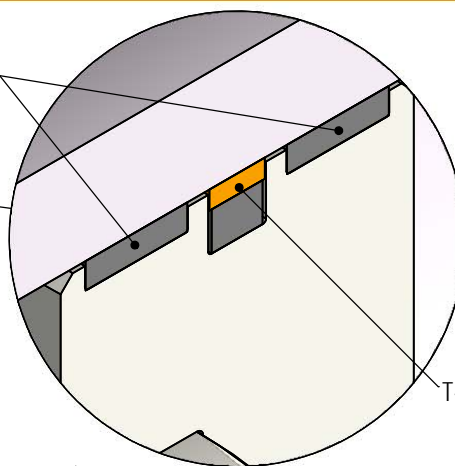


Wear Rings



T-LON® "RPI" Seal

Description:

With over 30 years of application success, the RPI hydraulic piston seal is a proven reliable seal for both low and high pressure systems.

The RPI seal is a double-acting filled T-LON® PTFE compound with a square elastomer energizer offering premium seal stability in reciprocating applications. The filled PTFE seal ring is manufactured with an interference fit with the bore and optimum compression with the square energizer. This offers excellent sealability at low pressures and high pressures when the cylinder experiences ballooning. The square energizer helps prevent the seal from rocking often experienced with a standard o-ring.

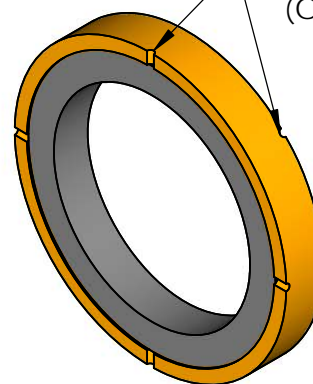
Advantages:

- Low seal drag/friction (Minimize energy loss)
- No Stick-slip (Smooth Operation)
- Long seal life from T-LON® filled PTFE compounds
- Available for cylinders up to 45" diameter

Face Grooves (Optional):

For applications of high pressure rise rates, pressure spikes, and rapid change of direction, the seal is apt to experience blow-by. To prevent blow-by and to energize the seal rapidly, face grooves are added to both sides of the seal.

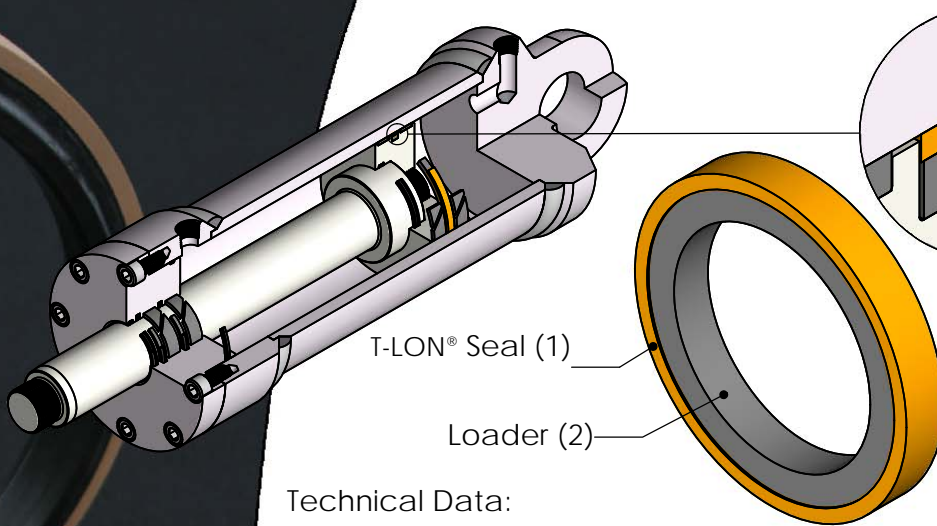
Face Grooves (Optional)



Applications:

- Mobile Hydraulic Cylinders
- Pneumatic Piston Cylinders
- Agriculture Equipment
- Hydraulic Valves and Pumps
- Filling Machines
- Testing Machinery





RADIAL EXTRUSION GAP
"E-GAP"

MAXIMUM E-GAP (inch) (25% GF PTFE)***			
RING CS	1500 PSI	3000 PSI	5800 PSI
0.070	0.016	0.010	0.006
0.090	0.016	0.010	0.008
0.142	0.020	0.012	0.008
0.202	0.024	0.014	0.010

***USE PISTON WEAR RINGS SO E-GAP DOES NOT EXCEED TABLED VALUES

Technical Data:

- (1) T-LON® seal compound determines allowable pressure and velocity ranges
- Velocity: Up to 12 ft/s
 - Pressure: Up to 8500 psi (Function of e-gap and T-LON® compound. Max velocity and pressure cannot be used together)

Most Common:

BRONZE FILLED PTFE ("21" or "22")

- Highest Extrusion Resistance (Higher bronze content increases extrusion/wear resistance; I.E. larger e-gap allowable)
- Good sealability

GLASS FILLED PTFE ("03" or "09")

- Good wear resistance for tubes with rougher surface finish (Higher glass content increases extrusion/wear resistance)
- More chemical resistant but more abrasive on mating components

- (2) Loader compound determines temperature and chemical compatibility

Most Common:

NBR SHORE 70 A ("P")

- Working Temp. Range -30°F to 230°F (250°F intermittent)
- Commonly used with greases, aliphatic hydrocarbon mineral and vegetable oils, and various hydraulic fluids

EPDM SHORE 70 A ("E")

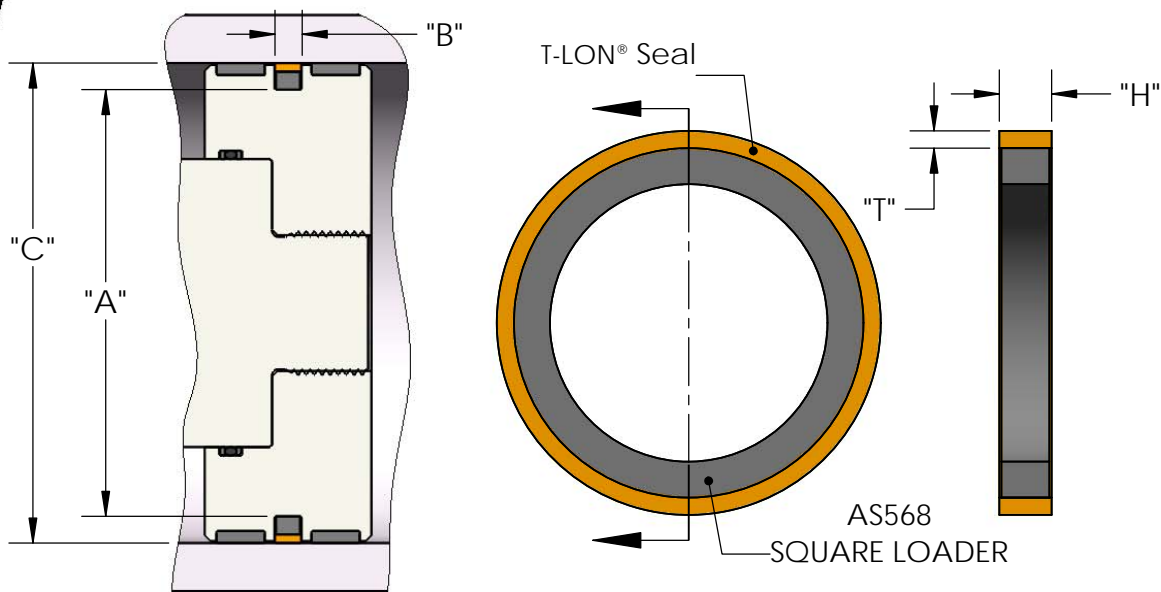
- Working Temp. Range -50°F to 300°F (400°F steam intermittent)
- Commonly used with water, steam, water/ silicone/ glycol based fluids, and app's affected by ozone and weathering.

ORDERING INFORMATION

RPI -

B O R E Ø	L O A D E R	T L O N M A T E R I A L	G R O O V E O P T I O N	P A C K A G I N G	L O A D E R	OMIT IF NO LOADERS REQ'D "P" = STANDARD NBR 70A "E" = EPDM 70A OMIT IF NO LOADERS REQ'D "B" = BULK PACKAGE COMPONENTS "I" = INDIVIDUALLY PACKAGE SEALS OMIT IF NO FACE GROOVES REQ'D "G" = ADD FACE GROOVES
"0100" = 1.00" "1050" = 10.50"	"1" = 100 SERIES AS568A (3/32") "3" = 300 SERIES AS568A (3/16")	"03" = 15% GLASS PTFE "09" = 25% GLASS PTFE "21" = 40% BRONZE PTFE "22" = 60% BRONZE PTFE				

T-LON® "RPI" Series Piston Seal



T-LON® "RPI" Series Piston Seal Sizes (More Available Upon Request)

Groove dimensions conform to American National Standard,
ANSI B93.32-1973 and NFPA T3.19.18

Size	Bore Dia ± .002 (C)	Groove Dimension		Ring Dimensions		Square Loader No.	Size	Bore Dia ± .002 (C)	Groove Dimension		Ring Dimensions		Square Loader No.	
		Dia. ± .002 (A)	Width ± .002 (B)	CS (T)	Width ± .003 (H)				Dia. ± .002 (A)	Width ± .002 (B)	CS (T)	Width ± .003 (H)		
0100-1	1.000	0.692	0.129	0.070 ±.003	0.119	-115	0600-4	6.000	5.238	0.379	0.365	-431		
0125-1	1.250	0.942				-433								
0150-1	1.500	1.192				-435								
0175-1	1.750	1.443				-437								
0200-1	2.000	1.693				-438								
0225-1	2.250	1.943				-439								
0250-1	2.500	2.193				-440								
0275-1	2.750	2.443	-441											
0300-3	3.000	2.445	0.284	0.090 ±.003	0.272	-333	0800-4	8.000	7.238			0.202 ±.005	0.365	-442
0325-3	3.250	2.695				-443								
0350-3	3.500	2.945				-444								
0375-3	3.750	3.195				-445								
0400-3	4.000	3.445				-446								
0412-3	4.125	3.570				-447								
0425-3	4.250	3.695				-448								
0450-3	4.500	3.945	-449											
0475-3	4.750	4.195	-451											
0500-3	5.000	4.445	-453											
0525-4	5.250	4.488	0.379	0.142 ±.005	0.365	-425	1400-4	14.000	13.122	-455				
0550-4	5.500	4.738				-427								
0575-4	5.750	4.988				-429								