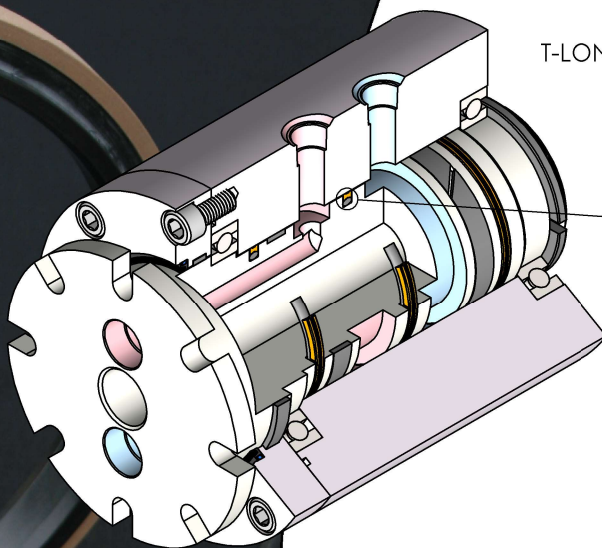
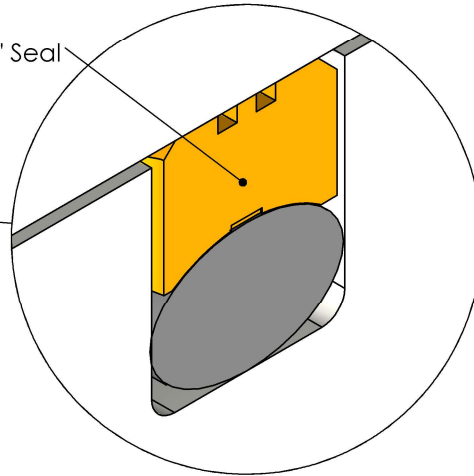


T-LON® "TRPI" Series Rotary Piston Seal

T-LON



T-LON® "TRPI" Seal



- Low seal drag/friction
- Long seal life from T-LON® filled PTFE compounds
- Available for cylinders up to 20" diameter

Description:

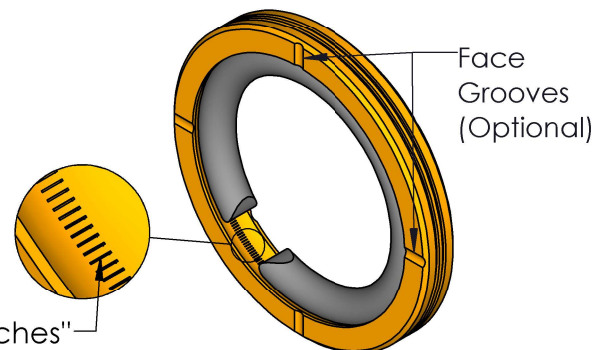
The TRPI rotary piston seal is a proven reliable seal for both low and high pressure systems. It is a double-acting filled T-LON® PTFE compound with an o-ring elastomer energizer offering premium sealability in slow rotating or oscillating applications. The filled PTFE seal ring is manufactured with an interference fit with the bore and optimum compression with the o-ring energizer. This offers excellent sealability at low pressures and high pressures when the cylinder experiences ballooning.

Preventing O-ring Slippage:

The TRPI PTFE rings come standard with "T-Notches" on the surface in contact with the o-ring. This helps resist slip between the PTFE sealing ring and the elastomer o-ring. Consult T-LON for other available proven options to resist slip.

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.



Applications:

- Spindles
- Hydraulic Swivel Couplings
- Hose Reels
- Manipulators
- Tricone and Single Roller Cone Earth Drilling Rotary Bits
- Horizontal Directional Drilling Reamers



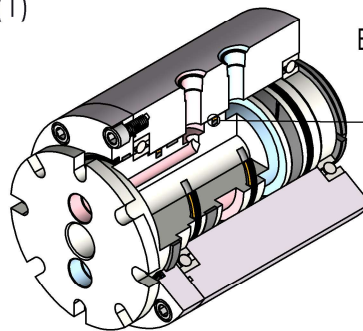
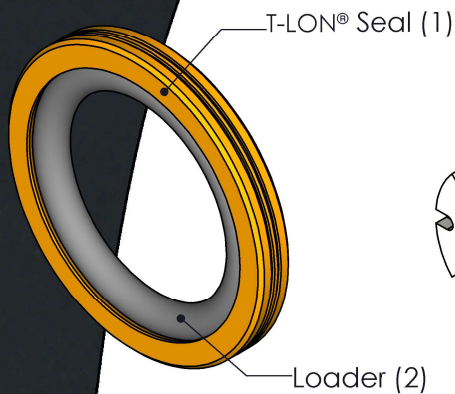
T-LON

1110 Richards Rd • Hartland, WI 53029
Telephone 262 / 367-2333 • FAX 262 / 367-8159

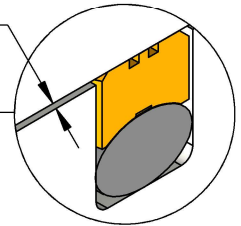
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SHEET 1 OF 3
REV 05/25

T-LON® "TRPI" Series Rotary Piston Seal



RADIAL EXTRUSION GAP "E-GAP"



Technical Data:

- (1) T-LON® seal compound determines allowable pressure and velocity ranges
- Surface Speed: Up to 3 ft/s
 - Pressure: Up to 5800 psi
- (Function of e-gap and T-LON® compound. Max velocity and pressure cannot be used together)

Most Common:

CARBON FIBER T-SMART® ("18")

- Use with pressures up to 5800psi***
- Great sliding properties with very high extrusion resistance

CARBON/GRAPHITE PTFE ("15")

- Use with pressures up to 4350psi***
- Great sliding properties with good extrusion resistance

GLASS/MoS2 PTFE ("31")

- Use with pressures up to 4350psi***
- Great sliding properties with moderate extrusion resistance

Loader Series	MAXIMUM E-GAP (in)		
	1500 PSI	3000 PSI	***Max Pressure
000	0.006	0.004	H8 bore tolerance
100	0.008	0.006	/
200	0.010	0.008	f8 rod tolerance
300	0.012	0.010	
400	0.012	0.010	

- (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

FKM SHORE 75 A ("V")

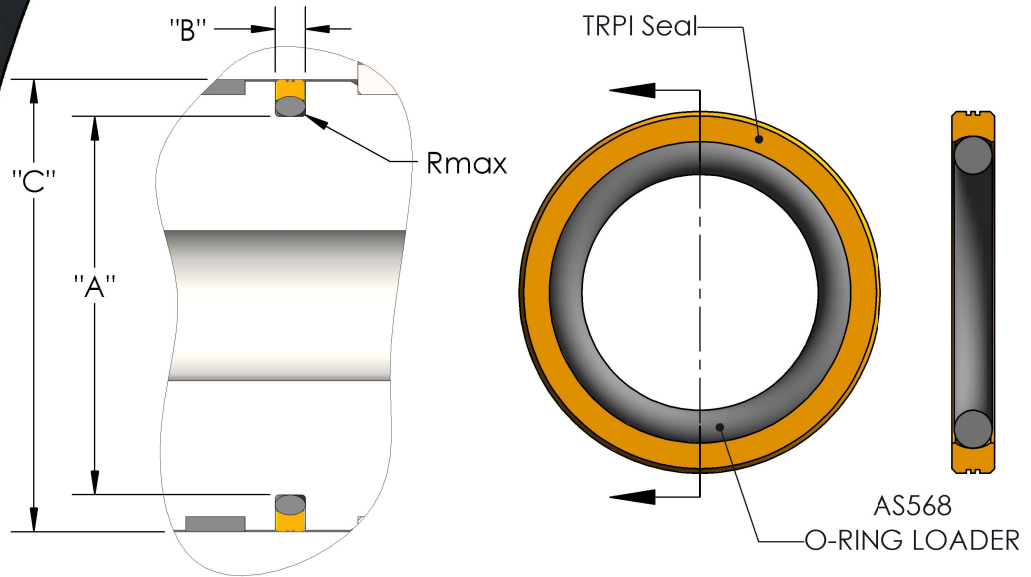
- Working Temp. Range 0°F to 400°F
- Excellent resistance to ozone, oxygen, mineral oil, synthetic hydraulic fluids, fuels, and many organic solvents and chemicals.

ORDERING INFORMATION

TRPI -

BORE	SERIES	T L O N	GROOVE	PACKAGING	LOADER
"0100" = 1.00" "1050" = 10.50"	DASH	MATERIAL	OPTION	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
"1" = 100 SERIES AS568A (3/32") "3" = 300 SERIES AS568A (3/16")				OMIT IF NO FACE GROOVES REQ'D "G" = ADD FACE GROOVES	
"31" = 15% GLASS / 5% MoS2 PTFE "18" = Carbon Fiber T-SMART PTFE "15" = Carbon/Graphite PTFE					

T-LON® "TRPI" Series Rotary Piston Seal



T-LON "TRPI" Series Piston Seal Sizes (More Available Upon Request)
Groove dimensions for "TRPI" Series

Size	Bore Dia (C)	T O L	Groove Dimension			R _{max}	O-ring Loader Dash No.
			Dia. (A)	T O L	Width +.008 -.000 (B)		
0075-0	0.750	+.002 -.000	0.557	+.000 -.002	0.087	0.016	-015
0100-0	1.000		0.807				-019
0125-0	1.250		1.057				-023
0150-0	1.500		1.307				-027
0175-1	1.750	+.003 -.000	1.455	+.000 -.003	0.126	0.024	-127
0200-1	2.000		1.705				-131
0225-1	2.250		1.955				-135
0250-1	2.500		2.205				-139
0275-1	2.750		2.455				-143
0300-2	3.000		2.567		0.165	0.040	-230
0325-2	3.250		2.817				-232
0350-2	3.500		3.067				-234
0375-2	3.750		3.317				-236
0400-2	4.000		3.567				-238
0425-2	4.250		3.817				-240
0450-2	4.500		4.067				-242
0475-2	4.750		4.317				-244
0500-2	5.000		4.567				-246

Size	Bore Dia (C)	T O L	Groove Dimension			R _{max}	O-ring Loader Dash No.
			Dia. (A)	T O L	Width +.008 -.000 (B)		
0525-3	5.250	+.004 -.000	4.640	+.000 -.004	0.248	0.051	-350
0550-3	5.500		4.890				-352
0575-3	5.750		5.140				-354
0600-3	6.000		5.390				-356
0650-3	6.500		5.890				-360
0700-3	7.000		6.390				-362
0750-3	7.500		6.890				-364
0800-3	8.000		7.390				-366
0850-3	8.500		7.890				-368
0900-3	9.000		8.390				-370
0950-3	9.500		8.890				-372
1000-3	10.000		9.390				-374
1050-3	10.500		9.890				-376
1100-3	11.000		10.390				-378
1200-3	12.000		11.390				-380
1300-4	13.000	+.005 -.000	12.173	+.000 -.005	0.319	0.071	-453
1400-4	14.000		13.173				-455
1500-4	15.000		14.173				-457
1600-4	16.000		15.173				-459
1700-4	17.000		16.173				-461
1800-4	18.000		17.173				-463
1900-4	19.000		18.173				-465
2000-4	20.000		19.173				-467