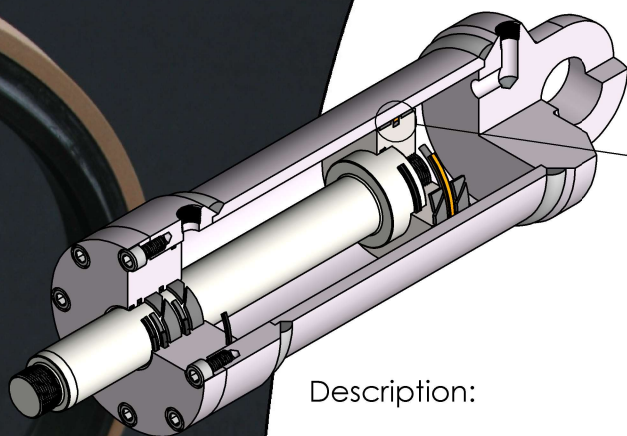
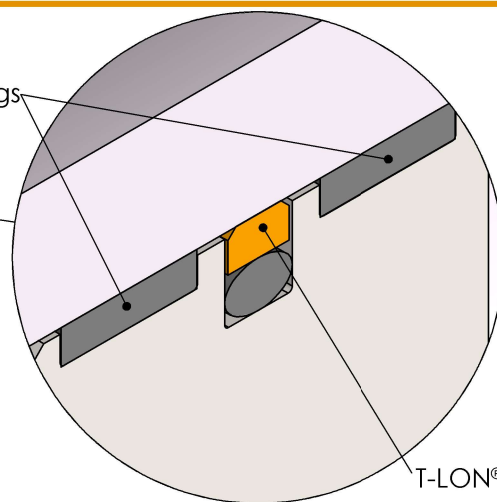




Wear Rings



T-LON® "PS247" Seal

Description:

With over 30 years of application success, the PS247 hydraulic piston seal is a proven reliable seal for both low and high pressure systems.

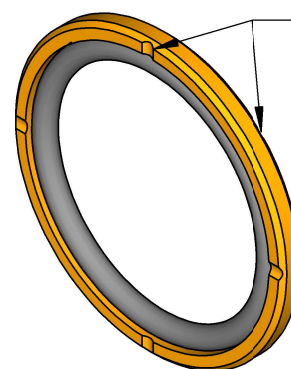
The PS247 seal is a double-acting filled T-LON® PTFE compound with an o-ring elastomer energizer designed for reciprocating applications. The filled PTFE seal ring is manufactured with an interference fit with the bore and optimum compression with the o-ring energizer. This offers excellent sealability at low pressures and high pressures when the cylinder experiences ballooning. Since the energizers are standard AS568 o-ring sizes, many elastomer compounds are readily available. The chamfers on the PS247 ring aid in assembly and crossing over ports in the cylinder.

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.



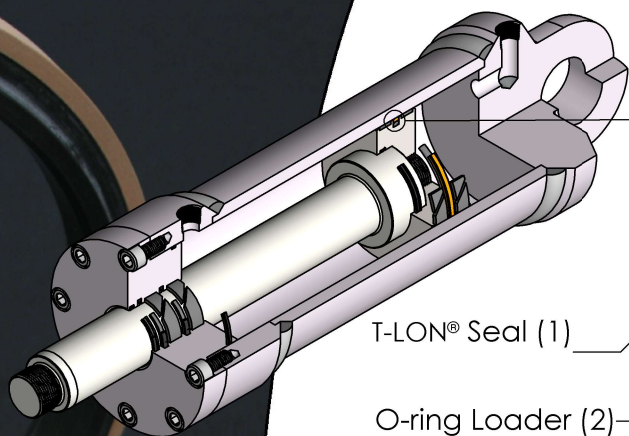
Face Grooves (Optional)

Applications:

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

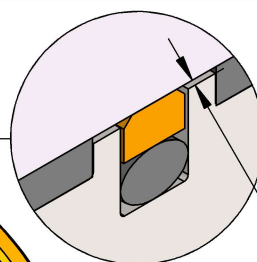


T-LON® "PS247" Series Piston Seal



T-LON® Seal (1)

O-ring Loader (2)



RADIAL EXTRUSION GAP
"E-GAP"

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/MoS2 FILLED PTFE ("31")

- Good wear resistance for tubes with rougher surface finish
- More chemical resistant and used in applications when seal could run dry

MAXIMUM E-GAP (inch) (40% BZ PTFE)***			
SIZE	1500 PSI	3000 PSI	5800 PSI
PS2470	0.010	0.006	0.003
PS2471	0.014	0.008	0.006
PS2472	0.016	0.010	0.008
PS2473	0.020	0.012	0.008
PS2474	0.020	0.015	0.010

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

- (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

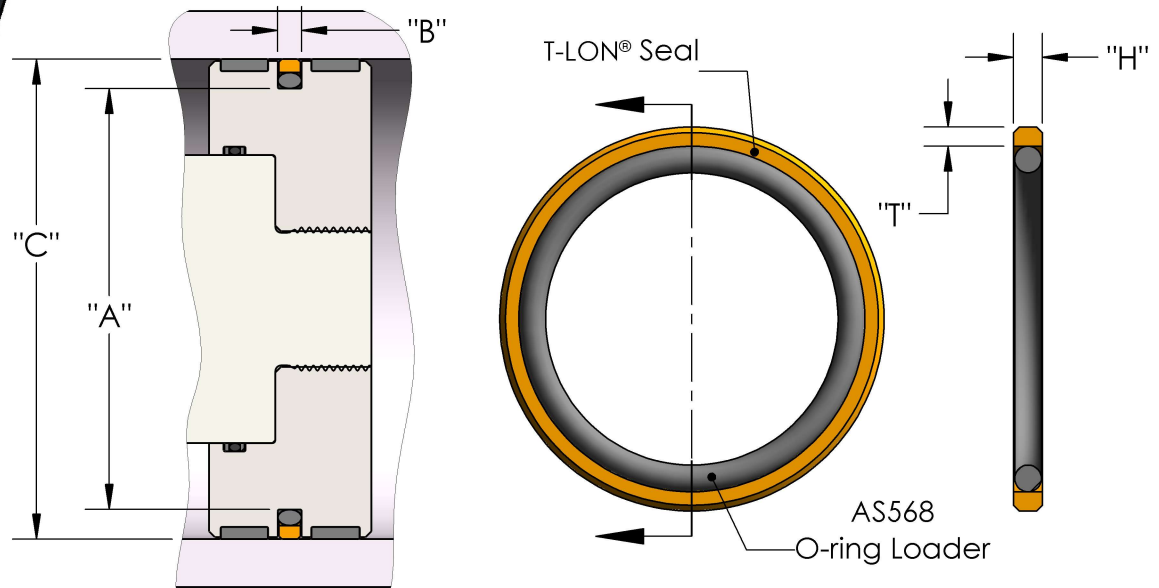
EPDM SHORE 70 A ("E")

- 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

PS247

1" = 100 SERIES 3" = 300 SERIES Labeled 1/16" increments "16" = 1.000" BORE "120" = 7.500" BORE	LOA D E R S	B O R E Ø	T L O N	M A T E R I A L	G R O O V E	P A C K A G I N G	L O A D E R	M A T E R I A L
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								
"21" = 40% BRONZE PTFE "22" = 60% BRONZE PTFE "31" = 15% GLASS/5% MoS2 PTFE								



T-LON® "PS247" Series Piston Seal Sizes (More Available Upon Request)
Groove dimensions for "PS247" Series

Size	Bore Dia. (C)	T O L	Groove Dimension			O-ring Loader No.
			Dia. (A)	T O L	Width ±.002 (B)	
PS2470-8	0.500	+.002 -.000	0.326	±.001	0.083	-011
PS2470-10	0.625		0.451			-013
PS2470-12	0.750		0.576			-015
PS2470-14	0.875		0.701			-017
PS2470-16	1.000		0.826			-019
PS2470-18	1.125		0.951			-021
See "GPI" Series, XXXX-1 for equivalent sizes	0.750	+.002 -.000	0.452	±.001	0.128	-111
	1.000		0.702			-115
	1.250		0.952			-119
	1.500		1.202			-123
	1.750		1.452			-127
PS2472-28	1.750	+.002 -.000	1.326	±.002	0.168	-219
PS2472-32	2.000		1.576			-223
PS2472-40	2.500		2.076			-226
PS2472-44	2.750		2.326			-228
PS2472-48	3.000		2.576			-230

Size	Bore Dia. (C)	T O L	Groove Dimension			O-ring Loader No.
			Dia. (A)	T O L	Width ±.002 (B)	
PS2473-52	3.250	+.003 -.000	2.634	±.003	0.249	-334
PS2473-56	3.500		2.884			-336
PS2473-60	3.750		3.124			-338
PS2473-64	4.000		3.384			-340
PS2473-68	4.250		3.634			-342
PS2473-72	4.500		3.884			-343
PS2473-80	5.000	+.004 -.000	4.384	±.004	0.322	-348
PS2473-96	6.000		5.384			-355
PS2474-88	5.500		4.670			-426
PS2474-96	6.000		5.170			-430
PS2474-104	6.500		5.670			-434
PS2474-112	7.000		6.170			-437
PS2474-120	7.500	+.004 -.000	6.670	±.004	0.322	-439
PS2474-128	8.000		7.170			-441
PS2474-144	9.000		8.170			-445
PS2474-152	9.500		8.670			-446
PS2474-160	10.000		9.170			-447