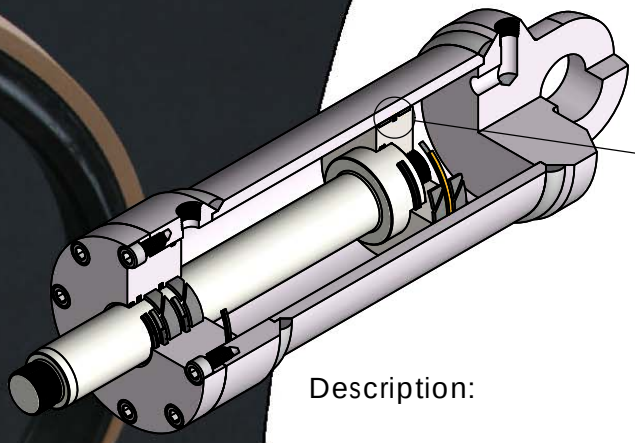
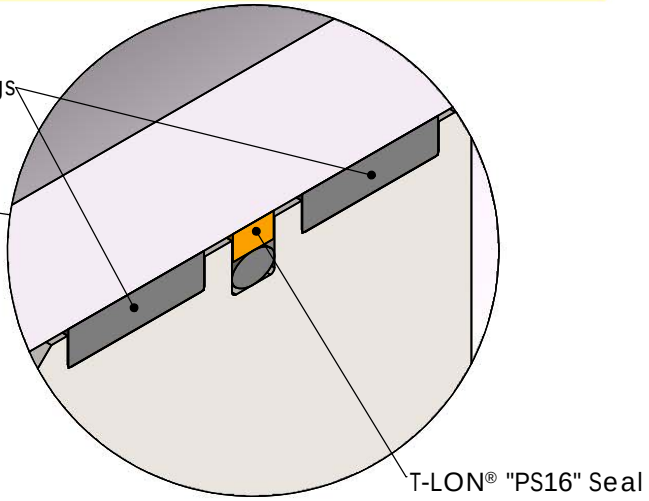
T-LON® "PS16" Series Piston Seal





Description:

With over 30 years of application success, the PS16 hydraulic piston seal is a proven reliable seal for both low and medium pressure systems.

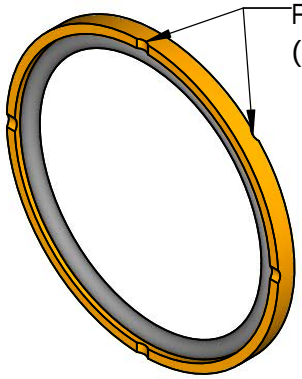
The PS16 seal is a low profile double-acting filled T-LON® PTFE compound with an o-ring elastomer energizer designed for reciprocating applications with lower seal drag than other common 2 piece seals. The filled PTFE seal ring is manufactured with an interference fit with the bore and optimum compression 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.

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.



Applications:

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

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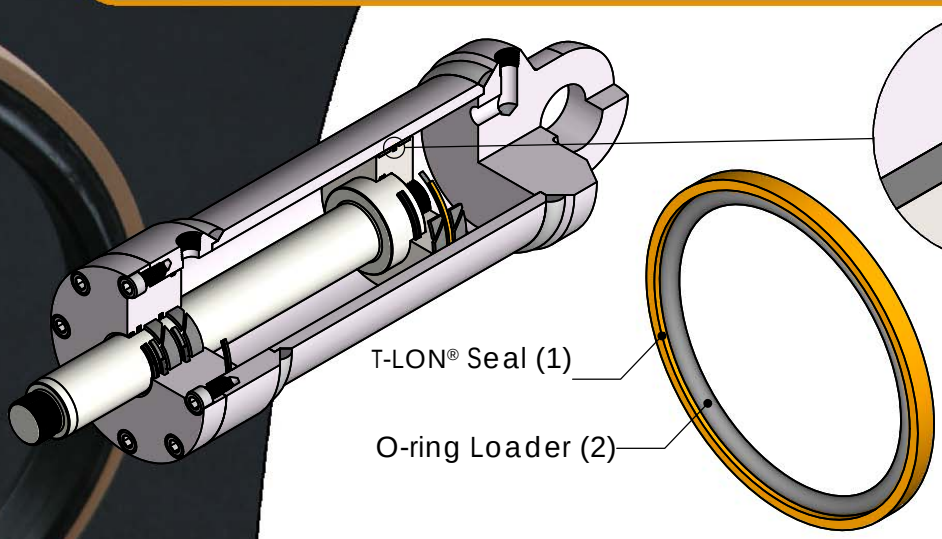

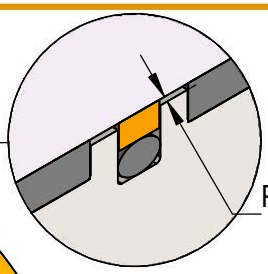

MAXIMUM E-GAP (inch) (15% GLASS PTFE)***			
SIZE	1500 PSI	3000 PSI	5000 PSI
PS16-0	0.008	0.005	0.003
PS16-1	0.010	0.006	0.004
PS16-2	0.014	0.008	0.006
PS16-4	0.016	0.010	0.006

***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 5000 psi

(Function of e-gap and T-LON® compound. Max velocity and pressure cannot be used together)

Most Common:

GLASS FILLED PTFE ("03")
- Good wear resistance for tubes with rougher surface finish
- More chemical resistant and lower seal drag

(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

PS16 - ___ - _____ - ___ ___ - ___ - ___ ___

- LOADER SERIES: "1" = 100 SERIES; "3" = 300 SERIES
- BORE ∅: Labeled 1/16" increments; "016" = 1.000" BORE; "120" = 7.500" BORE
- T-LON MATERIAL: "03" = 15% GLASS FILLED PTFE
- GROOVE OPTION: OMIT IF NO FACE GROOVES REQ'D; "G" = ADD FACE GROOVES
- PACKAGING: OMIT IF NO LOADERS REQ'D; "B" = BULK PACKAGE COMPONENTS; "I" = INDIVIDUALLY PACKAGE SEALS
- LOADER MATL: OMIT IF NO LOADERS REQ'D; "P" = STANDARD NBR 70A; "E" = EPDM 70A

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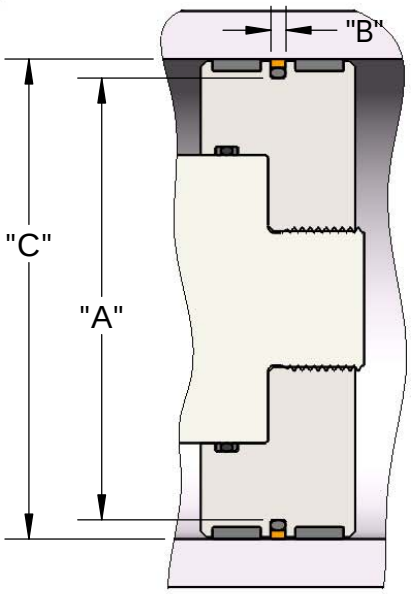

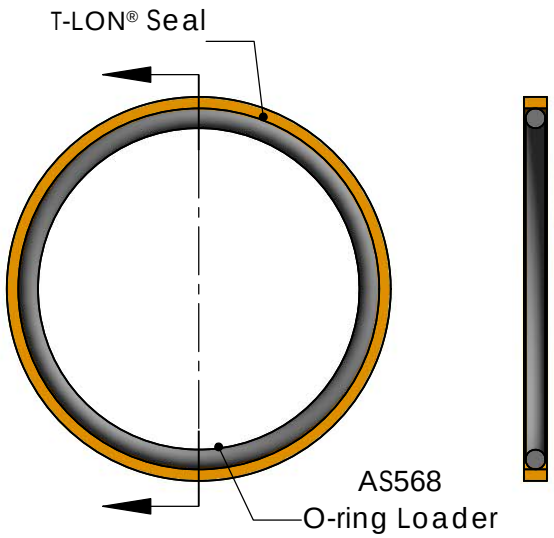

T-LON® "PS16" Series Piston Seal Sizes (More Available Upon Request)

Groove dimensions for "PS16" Series

Size	Bore Dia. (C)	TOL	Groove Dimension			O-ring Loader No.
			Dia. (A)	TOL	Width +.003 -.000 (B)	
PS16-0-016	1.000	+.003 -.000	0.787	±.002	0.094	-018
PS16-0-018	1.125		0.912			-020
PS16-0-020	1.250		1.037			-022
PS16-0-022	1.375		1.162			-024
PS16-0-024	1.500		1.287			-026
PS16-0-026	1.625		1.412			-028
PS16-0-028	1.750		1.537			-030
PS16-1-028	1.750		1.473		0.126	-127
PS16-1-030	1.875		1.598			-129
PS16-1-032	2.000		1.723			-131
PS16-1-034	2.125		1.848			-133
PS16-1-036	2.250		1.973			-135
PS16-1-038	2.375		2.098			-137
PS16-1-040	2.500		2.223			-139
PS16-2-044	2.750		2.353	±.003	0.157	-228
PS16-2-048	3.000		2.603			-230
PS16-2-052	3.250		2.853			-232
PS16-2-056	3.500		3.103			-234

Size	Bore Dia. (C)	TOL	Groove Dimension			O-ring Loader No.
			Dia. (A)	TOL	Width +.003 -.000 (B)	
PS16-2-060	3.750	+.003 -.000	3.353	±.003	0.157	-236
PS16-2-064	4.000		3.603			-238
PS16-2-068	4.250		3.853			-240
PS16-2-072	4.500		4.103			-242
PS16-2-076	4.750		4.353			-244
PS16-2-080	5.000		4.603			-246
PS16-2-084	5.250		4.853			-248
PS16-2-088	5.500		5.103			-250
PS16-2-092	5.750		5.353			-252
PS16-4-096	6.000		5.305		0.293	-431
PS16-4-100	6.250		5.555			-433
PS16-4-104	6.500		5.805			-435
PS16-4-108	6.750		6.055			-437
PS16-4-112	7.000		6.305			-438
PS16-4-116	7.250		6.555			-439
PS16-4-120	7.500		6.805			-440
PS16-4-128	8.000		7.305			-442