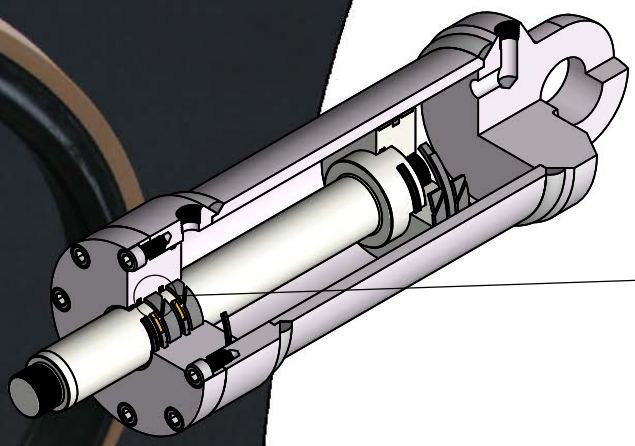
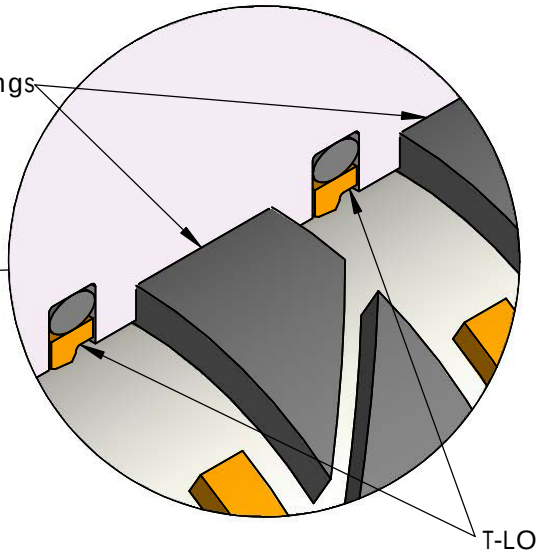
T-LON® "SRI" Series Stepped Rod Buffer Seal





Description:

With over 30 years of application success, the SRI stepped rod buffer seal is a proven reliable seal for both low and high pressure systems.

The SRI seal is a single-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 rod and optimum compression with the o-ring energizer. The single-acting seal design must be asssembled with the step facing the media to be sealed. The optimized lip profile removes the fluid film during rod extension and allows fluid return during rod retraction. To prevent seal damage during extreme pressure spikes, the stepped profile allows temporary leakage that is sealed by a secondary buffer seal to prevent fluid into the environment.

Advantages:

- Low seal drag/friction (Minimize energy loss)
- No Stick-slip (Smooth Operation)
- Long seal life from T-LON® filled PTFE compounds
- Available for rods up to 44" diameter

Applications:

- Industrial Hydraulic Cylinders
- Mobile Hydraulic Cylinders
- Agriculture Equipment
- Hydraulic hammers

NATIONAL FLUID POWER ASSOCIATION NFPA MEMBER

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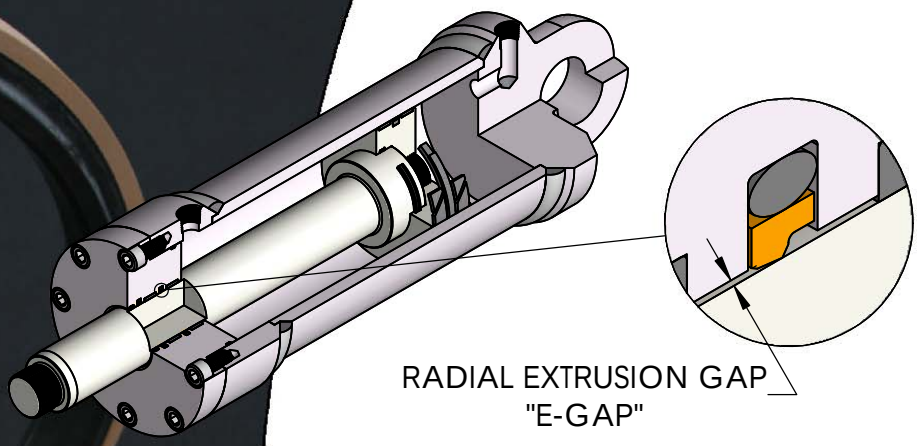
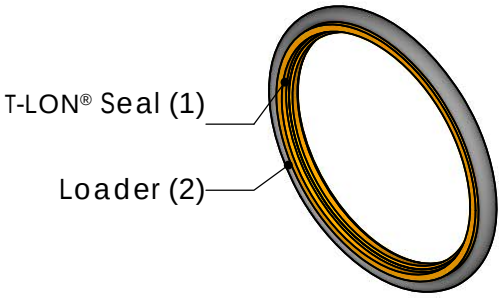


RADIAL EXTRUSION GAP
"E-GAP"

MAXIMUM E-GAP (inch) (40% BZ PTFE)***			
O-RING SERIES	1500 PSI	3000 PSI	5800 PSI
-1-	0.016	0.010	0.006
-2-	0.016	0.010	0.008
-3-	0.020	0.012	0.008
-4-	0.024	0.014	0.010

***USE ROD 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 13 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 rods with rougher surface finish
- More chemical resistant and used in applications when seal could run dry

(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

SRI - ____ - ____ - ____ - ____

- **ROD Ø**: "0100" = 1.00" … "1050" = 10.50"
- **LOADER SERIES**: "1" = 100 SERIES AS568A (3/32") … "3" = 300 SERIES AS568A (3/16")
- **TLON MATERIAL**: "21" = 40% BRONZE PTFE; "22" = 60% BRONZE PTFE; "31" = 15% GLASS/5%MoS2 PTFE
- **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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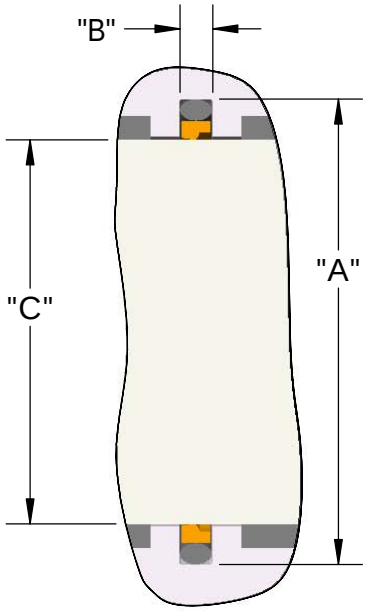

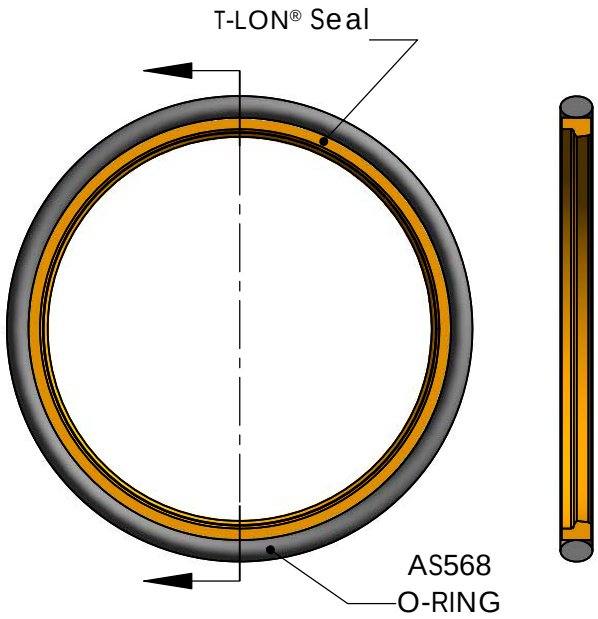

T-LON® "SRI" Series Rod Seal Sizes (More Available Upon Request)

Groove dimensions for "SRI" Series

Size	Rod Dia (C)		Groove Dimension Dia. (A)		Groove Dimension Width (B)		O-ring No.
0038-1	0.375		0.662				-112
0050-1	0.500		0.787				-114
0062-1	0.625		0.912				-116
0075-1	0.750		1.037				-118
0088-1	0.875	+.000	1.162	+.003	0.126	+.008	-120
0100-1	1.000	-.002	1.287	-.000		-.000	-122
0112-1	1.125		1.412				-124
0125-1	1.250		1.537				-126
0137-1	1.375		1.662				-128
0150-1	1.500		1.787				-130
0075-2	0.750		1.171				-213
0100-2	1.000		1.421				-217
0125-2	1.250		1.671				-221
0137-2	1.370		1.791				-222
0150-2	1.500		1.921				-223
0175-2	1.750		2.171				-225
0187-2	1.875		2.296				-226
0200-2	2.000	+.000	2.421	+.003	0.165	+.008	-227
0212-2	2.125	-.003	2.546	-.000		-.000	-228
0225-2	2.250		2.671				-229
0250-2	2.500		2.921				-231
0275-2	2.750		3.171				-233
0300-2	3.000		3.421				-235
0325-2	3.250		3.671				-237
0350-2	3.500		3.921				-239
0400-2	4.000		4.421				-243
0450-2	4.500		4.921				-247

Size	Rod Dia (C)		Groove Dimension Dia. (A)		Groove Dimension Width (B)		O-ring No.
0150-3	1.500		2.094				-327
0200-3	2.000		2.594				-331
0250-3	2.500		3.094				-335
0300-3	3.000		3.594				-339
0350-3	3.500		4.094				-343
0400-3	4.000		4.594				-347
0450-3	4.500	+.000	5.094	+.004	0.248	+.008	-351
0475-3	4.750	-.004	5.344	-.000		-.000	-353
0500-3	5.000		5.594				-355
0550-3	5.500		6.094				-359
0600-3	6.000		6.594				-362
0650-3	6.500		7.094				-364
0675-3	6.750		7.344				-365
0700-3	7.000		7.594				-366
0400-4	4.000		4.807				-424
0450-4	4.500		5.307				-428
0500-4	5.000		5.807				-432
0550-4	5.500		6.307				-436
0600-4	6.000		6.807				-438
0650-4	6.500	+.000	7.307	+.005	0.319	+.008	-440
0700-4	7.000	-.005	7.807	-.000		-.000	-442
0750-4	7.500		8.307				-444
0800-4	8.000		8.807				-445
0900-4	9.000		9.807				-447
1000-4	10.000		10.807				-449
1100-4	11.000		11.807				-451
1200-4	12.000		12.807				-453