






Seal Rings: Polyethylene, Fiber-Reinforced Plastic					
Part Numbers		Thread Type & Size	Dimensions Inches (mm)		
-22°F to 158°F (-30°C to 70°C)	-40°F to 572°F (-40°C to 300°C)		d	D	H
		See page 56 for thread specs	Inner Diameter	Outer Diameter	Height
SR-07-NY	SR-07-HD		PG 7	.49 (12.5)	.65 (16.5)
SR-09-NY	SR-09-HD	PG 9	.60 (15.2)	.75 (19)	.06 (1.5)
SR-11-NY	SR-11-HD	PG 11	.73 (18.6)	.89 (22.5)	.06 (1.5)
SR-13-NY	SR-13-HD	PG 13 / 13.5	.80 (20.4)	.98 (25)	.06 (1.5)
SR-16-NY	SR-16-HD	PG 16	.89 (22.5)	1.06 (27)	.06 (1.5)
SR-21-NY	SR-21-HD	PG 21	1.11 (28.3)	1.32 (33.5)	.06 (1.5)
SR-29-NY	SR-29-HD	PG 29	1.46 (37)	1.71 (43.5)	.08 (2)
SR-36-NY	SR-36-HD	PG 36	1.85 (47)	2.17 (55)	.08 (2)
SR-42-NY	SR-42-HD	PG 42	2.13 (54.1)	2.48 (63)	.08 (2)
SR-48-NY	SR-48-HD	PG 48	2.33 (59.3)	2.72 (69)	.08 (2)
SR-38-NY	-	3/8" NPT	.67 (17)	.87 (22)	.06 (1.5)
SR-18-NY	-	1/2" NPT	.83 (21)	.98 (25)	.06 (1.5)
SR-34-NY	-	3/4" NPT	1.06 (27)	1.43 (36)	.04 (1)
SR-10-02	-	1" NPT	1.32 (33.5)	1.71 (43)	.09 (2.2)
SR-14-NY	-	1-1/4" NPT	.63 (41.5)	1.95 (49)	.06 (1.5)
SM-12-NY	SM-12-HD	M12 X 1.5	.47 (12)	.63 (16)	.08 (2)
SM-16-NY	SM-16-HD	M16 X 1.5	.63 (16)	.79 (20)	.08 (2)
SM-20-NY	SM-20-HD	M20 X 1.5	.79 (20)	.98 (25)	.08 (2)
SM-25-NY	SM-25-HD	M25 X 1.5	.98 (25)	1.22 (31)	.08 (2)
SM-32-NY	SM-32-HD	M32 X 1.5	1.26 (32)	1.50 (38)	.08 (2)
SM-40-NY	SM-40-HD	M40 X 1.5	1.57 (40)	1.68 (42.7)	.08 (2)
SM-50-NY	SM-50-HD	M50 X 1.5	1.97 (50)	2.28 (58)	.08 (2)
SM-63-NY	SM-63-HD	M63 X 1.5	2.48 (63)	2.83 (72)	.08 (2)

O-Rings: Buna-N, FKM, Silicone					
Part Numbers			Thread Type & Size	Dimens. Inches (mm)	
-22°F to 248°F (-30°C to 120°C)	-40°F to 392°F (-40°C to 200°C)	-76°F to 482°F (-60°C to 250°C)		d	H
			See page 56 for thread specs	Inner Diameter	Height
OR-07-BN	OR-07-VT	OR-07-SI		PG 7	.39 (10)
OR-09-BN	OR-09-VT	OR-09-SI	PG 9	.47 (12)	.06 (1.5)
OR-11-BN	OR-11-VT	OR-11-SI	PG 11	.63 (16)	.06 (1.5)
OR-13-BN	OR-13-VT	OR-13-SI	PG 13 / 13.5	.67 (17)	.07 (1.8)
OR-16-BN	OR-16-VT	OR-16-SI	PG 16	.71 (18)	.06 (1.5)
OR-21-BN	OR-21-VT	OR-21-SI	PG 21	1.02 (26)	.08 (2)
OR-29-BN	OR-29-VT	OR-29-SI	PG 29	1.30 (33)	.08 (2)
OR-36-BN	OR-36-VT	OR-36-SI	PG 36	1.69 (43)	.08 (2)
OR-42-BN	OR-42-VT	OR-42-SI	PG 42	1.97 (50)	.08 (2)
OR-48-BN	OR-48-VT	OR-48-SI	PG 48	2.16 (55)	.08 (2)
OR-38-BN	OR-38-VT	OR-38-SI	3/8" NPT	.51 (13)	.08 (2)
OR-18-BN	OR-18-VT	OR-18-SI	1/2" NPT	.75 (19)	.07 (1.8)
OR-34-BN	OR-34-VT	OR-34-SI	3/4" NPT	.87 (23)	.078 (2)
OR-10-BN	OR-10-VT	OR-10-SI	1" NPT	1.14 (29)	.078 (2)
OR-54-BN	OR-54-VT	OR-54-SI	1-1/4" NPT	1.50 (38)	.10 (2.5)
OR-64-BN	OR-64-VT	OR-64-SI	1-1/2" NPT	1.77 (45)	.10 (2.5)
OM-12-BN*	OM-12-VT*	OM-12-SI*	M12 X 1.5	.39 (10)	.06 (1.5)
OM-16-BN*	OM-16-VT*	OM-16-SI*	M16 X 1.5	.47 (12)	.06 (1.5)
OM-20-BN*	OM-20-VT*	OM-20-SI*	M20 X 1.5	.67 (17)	.07 (1.8)
OM-25-BN	OM-25-VT	OM-25-SI	M25 X 1.5	.87 (22)	.08 (2)
OM-32-BN	OM-32-VT	OM-32-SI	M32 X 1.5	1.14 (29)	.08 (2)
OM-40-BN	OM-40-VT	OM-40-SI	M40 X 1.5	1.38 (35)	.08 (2)
OM-50-BN	OM-50-VT	OM-50-SI	M50 X 1.5	1.69 (43)	.08 (2)
OM-63-BN	OM-63-VT	OM-63-SI	M63 X 1.5	2.17 (55)	.08 (2)

If Type NEMA 4x or 6 (IP 68 or IP 69K - Submersible) is required, O-Rings or Seal Rings should be used when mounting Strain Relief Fittings to a control panel, secured with a Locking Nut. The straight Strain Relief Fittings feature a molded O-Ring groove. For these fittings the O-Ring is the best solution. The Snap Elbows and some of the Conduit Fittings don't have a recess for an O-Ring. In that case, the Seal Ring would be the better choice, unless the hole can be beveled to accommodate an O-Ring.

\*Metal Parts use different O-Rings.

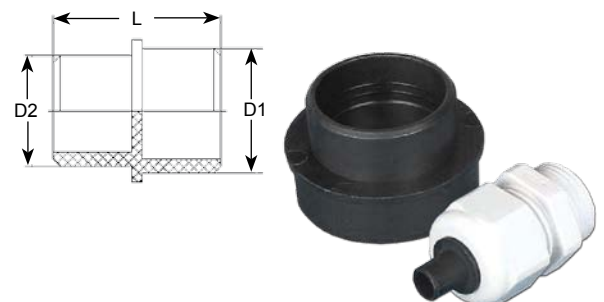


## Accessories - Strain Relief Blind Plugs Nylon - Fits PG / NPT / Metric Threads

Part Numbers	Fits PG Thread	Fits NPT Thread	Fits Metric Thread	Dimensions in Inches (mm)		
				D1	D2	L
-40°F to 212°F (-40°C to 100°C)	See page 56 for thread specs	See page 56 for thread specs	See page 56 for thread specs	Diameter (1)	Diameter (2)	Length
PL-07-BK				PG 7	-	M12 x 1.5
PL-09-BK	PG9	3/8" NPT	M16 x 1.5	.26 (7.5)	.22 (5.5)	.67 (17)
PL-11-BK	PG 11	-	M16 x 1.5 - E	.37 (9.5)	.26 (6.5)	.75 (19)
PL-13-BK	PG 13 / 13.5	1/2" NPT	M20 x 1.5	.45 (11.5)	.33 (8.5)	.75 (19)
PL-16-BK	PG 16	1/2" NPT-E	M20 x 1.5 - E	.53 (13.5)	.45 (11.5)	.77 (19.5)
PL-21-BK	PG 21	3/4" NPT	M25 x 1.5	.69 (17.5)	.61 (15.5)	.93 (23.5)
PL-29-BK	PG 29	1" & 1-1/4" NPT	M32 x 1.5	.94 (24)	.75 (19)	1.02 (26)
PL-36-BK	PG 36	1-1/2" NPT	M40 x 1.5	1.22 (31)	.98 (25)	1.10 (28)
PL-42-BK	PG 42	-	M50 x 1.5	1.46 (37)	1.18 (30)	1.10 (28)
PL-48-BK	PG 48	-	M63 x 1.5	1.69 (43)	1.34 (34)	1.10 (28)

RoHS

These non-threaded Plugs are made of Black Nylon (RAL 9005) and fit PG, NPT and Metric Strain Relief Fittings.

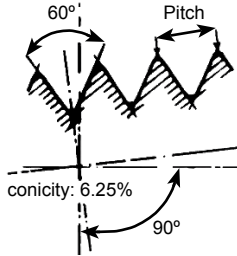


Inserts into Dome Nut for a liquid tight seal!

For Material Specifications and Approval Information refer to page 52.

### NPT Threads

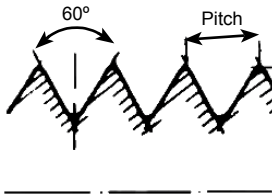
Thread Size	1/4" NPT	3/8" NPT	1/2" NPT	3/4" NPT	1" NPT	1-1/4" NPT	1-1/2" NPT	2" NPT
Major Dia. in Inches (mm)	.54 (13.72)	.675 (17.145)	.84 (21.336)	1.05 (26.67)	1.314 (33.40)	1.66 (42.164)	1.90 (48.26)	2.375 (60.325)
Pitch in Inches (mm)	.056 (1.41)	.056 (1.411)	.071 (1.814)	.071 (1.814)	.087 (2.208)	.087 (2.208)	.087 (2.208)	.087 (2.208)
Threads per Inch	18	18	14	14	11.5	11.5	11.5	11.5



- NPT Thread = National Pipe Thread
- Taper rate for all NPT threads is 1/16
- The taper on NPT threads allows them to form a seal when torqued as the flanks of the threads compress against each other, as opposed to straight thread fittings

### Metric Threads

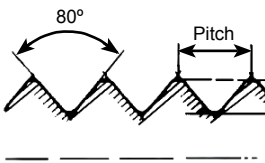
Thread Size	M6	M8	M10	M12	M16	M20	M25	M32	M40	M50	M63
Major Dia. in Inches (mm)	.24 (6)	.31 (8)	.39 (10)	.47 (12)	.63 (16)	.79 (20)	.98 (25)	1.26 (32)	1.57 (40)	1.97 (50)	2.48 (63)
Pitch in Inches (mm)	.04 (1)	.05 (1.25)	.06 (1.5)	.059 (1.5)	.059 (1.5)	.059 (1.5)	.059 (1.5)	.059 (1.5)	.059 (1.5)	.059 (1.5)	.059 (1.5)
Thru Hole in Inches (mm)	.251 (6.4)	.33 (8.4)	.413 (10.5)	.492 (12.5)	.63 (16)	.79 (20)	.98 (25)	1.26 (32)	1.57 (40)	1.97 (50)	2.48 (63)



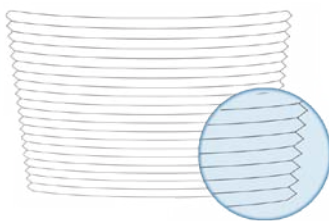
- World-wide most commonly used type thread
- Characterized by its major diameter and its pitch
- Designated by the letter M followed by the value of the nominal diameter and the pitch, both expressed in millimeters and separated by the multiplication sign 'x' (i.e. M12 x 1.5)

### PG Threads

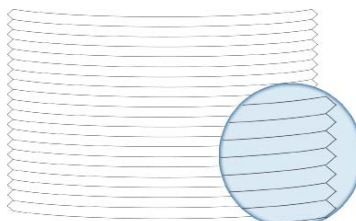
Thread Size	PG 7	PG 9	PG 11	PG 13 / 13.5	PG 16	PG 21	PG 29	PG 36	PG 42	PG 48
Major Dia. in Inches (mm)	.49 (12.5)	.60 (15.2)	.73 (18.6)	.80 (20.4)	.89 (22.5)	1.11 (28.3)	1.46 (37)	1.85 (47)	2.13 (54)	2.39 (59.3)
Pitch in Inches (mm)	.05 (1.27)	.056 (1.41)	.056 (1.41)	.056 (1.41)	.056 (1.41)	.062 (1.59)	.062 (1.59)	.062 (1.59)	.062 (1.59)	.062 (1.59)
Thru Hole in Inches (mm)	.50 (12.7)	.606 (15.4)	.74 (18.8)	.8149 (20.7)	.897 (22.8)	1.12 (28.6)	1.47 (37.4)	1.87 (47.5)	2.14 (54.5)	2.35 (59.8)



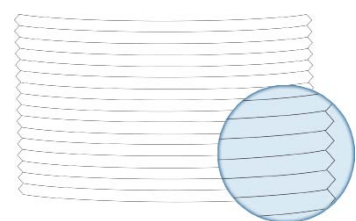
- PG Thread = Panzer-Gewinde (also Panzer-Rohr-Gewinde)
- German thread type
- Depth of thread smaller than NPT or Metric, but larger flank angle
- Straight thread



**NPT Threads**  
(Tapered)



**Metric Threads**  
(Straight)



**PG Threads**  
(Straight)