

Technical Information

Torque Specifications & Thread Diameter



Sizes & Dimensions for SEALCON Liquid Tight Cable Glands

Metric	Major Thread Diameter	Minor Thread Diameter	PG	Major Thread Diameter	Minor Thread Diameter	NPT	Major Thread Diameter	Minor Thread Diameter	Dome Opening	
M12 x 1.5	12.0 mm / .47"	10.5 mm / .41"							6.5 mm / .26"	
			PG 7	12.5 mm / .49"	11.3 mm / .44"				6.5 mm / .26"	
			PG 9	15.2 mm / .60"	13.9 mm / .54"	3/8"	16.8 mm / .66"	15.2 mm / .60"	8.0 mm / .31"	
M16 x 1.5	16.0 mm / .63"	14.5 mm / .57"	PG 11	18.6 mm / .73"	17.3 mm / .68"				8.0 mm / .31"	
										10.0 mm / .39"
M20 x 1.5	20.0 mm / .79"	18.5 mm / .72"	PG 13	20.4 mm / .80"	19.1 mm / .75"	1/2"	20.8 mm / .82"	18.8 mm / .74"	12.0 mm / .47"	
			PG 16	22.5 mm / .89"	21.2 mm / .83"	1/2"-E	20.8 mm / .82"	18.8 mm / .74"	14.0 mm / .55"	
										18.0 mm / .71"
M25 x 1.5	25.0 mm / .98"	23.5 mm / .92"	PG 21	28.3 mm / 1.11"	26.8 mm / 1.05"	3/4"	26.2 mm / 1.03"	24.1 mm / .95"	18.0 mm / .71"	
M32 x 1.5	32.0 mm / 1.26"	30.5 mm / 1.20"	PG 29	37.0 mm / 1.46"	35.5 mm / 1.39"	1"	32.8 mm / 1.29"	30.5 mm / 1.20"	25.0 mm / 0.98"	
						1-1/4"	41.4 mm / 1.63"	38.1 mm / 1.50"	25.0 mm / 0.98"	
										32.0 mm / 1.26"
M40 x 1.5	40.0 mm / 1.57"	38.5 mm / 1.51"	PG 36	47.0 mm / 1.85"	45.5 mm / 1.79"	1-1/2"	47.8 mm / 1.88"	45.7 mm / 1.80"	32.0 mm / 1.26"	
										38.0 mm / 1.50"
			PG 42	54.0 mm / 2.13"	52.5 mm / 2.13"					38.0 mm / 1.50"
M50 x 1.5	50.0 mm / 1.97"	48.5 mm / 1.90"	PG 48	59.3 mm / 2.33"	57.8 mm / 2.27"				44.0 mm / 1.73"	
										67.5 mm / 2.66"
M63 x 1.5	63.0 mm / 2.48"	61.5 mm / 2.42"				2"	60.33mm / 2.35"	NA*	67.5 mm / 2.66"	
M75 x 1.5	75.0 mm / 2.95"	NA*		74.85 mm / 2.95"		2-1/2"	73.03 mm / 2.86"	NA*	81.5 mm / 3.21"	
M90 x 1.5	90.0 mm / 3.54"	NA*		89.8 mm / 3.54"		3"	88.9 mm / 3.5"	NA*	3.175 mm / 1.25"	

Determine Sizes & Type of Fitting:

- Check markings on the hex portion (wrenching flats). PG, NPT or Metric size should be embedded. This only applies to Nylon parts.
- Measure major thread diameter and compare with chart above. This may tell you whether it is a PG, NPT or Metric thread (Nylon or Brass)
- Confirm grommet type inside fitting. (See table on right for grommet identification)
- The shading (grouping) indicates same size bodies, but different threads.

Note:

Dome Opening = the largest possible dimension for one or more cables.
The chart can also be useful when working with knockouts (drilling holes)

Grommet Identification	
Color	Type of Grommet
Black	Standard
Gray	Reduced
Beige	Multi-Hole / Solid Plug
Green	FPM
Red	Silicone

Recommended Torque Specifications for HSK Cable Glands Only

Torque in lb/in = pound / inch (Nm) Newton Meters

Sizes	Plastic Fittings Dome Nuts	Metal Fittings Dome Nuts
PG7, M12 x 1.5	13.28 (1.50)	35.40 (4.0)
PG9, PG11, 3/8" NPT, M16 x 1.5	17.70 (2.0)	53.10 (6.0)
1/2"NPT ENLARGED, M16x1.5 ENLARGED	26.55 (3.0)	44.25 (5.0)
PG13.5, PG16, 1/2" NPT, M20 x 1.5	39.83 (4.5)	70.81 (8.0)
M20 x 1.5 ENLARGED	39.83 (4.5)	88.51 (10)
PG21, M25 x 1.5, 3/4"NPT,	44.2 (5)	106.21 (12.0)
PG29, M32 x 1.5, 1" NPT	57.53 (6.5)	132.76 (15.0)
PG36, 1-1/2"NPT, M40 x 1.5	88.51 (10.0)	132.76 (15.0)
PG42, PG48, M50 x 1.5	132.76 (15.0)	212.42 (24.0)
M63 x 1.5	159.31 (18.0)	265.53 (30.0)
M75 x 1.5	NA*	354.03 (40.0)
2" NPT	NA*	398.28 (45.0)
2-1/2" NPT	NA*	541.04 (60.0)
M90 x 1.5	NA*	1062.09 (120.0)

Note: Torque for dome nuts was determined using a metal rod. It may vary for cable, depending on the crush resistance of the cable. To determine the actual torque empirically, we recommend testing the actual cable used. The values shown above are for reference only. Torque Specification is based on Norm: EN 50262

Pull-Test Rating for Cable Glands

The Pull-Test Rating of our Cable Glands complies with Industry Standards.
Pull-Test Rating: Up To 35 lbs.