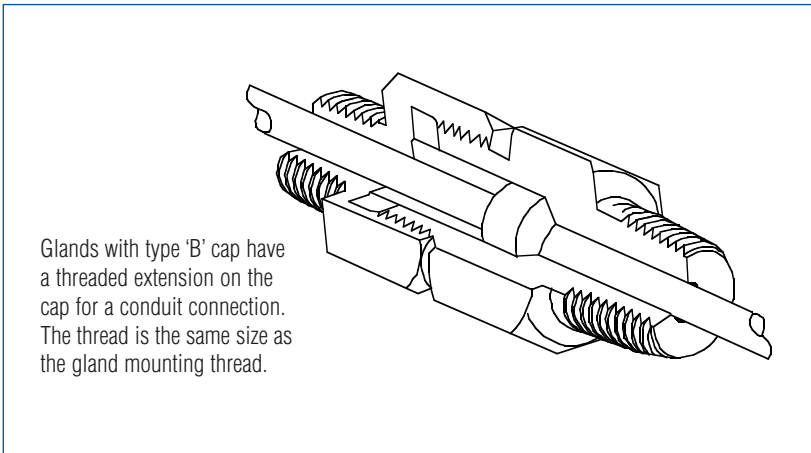
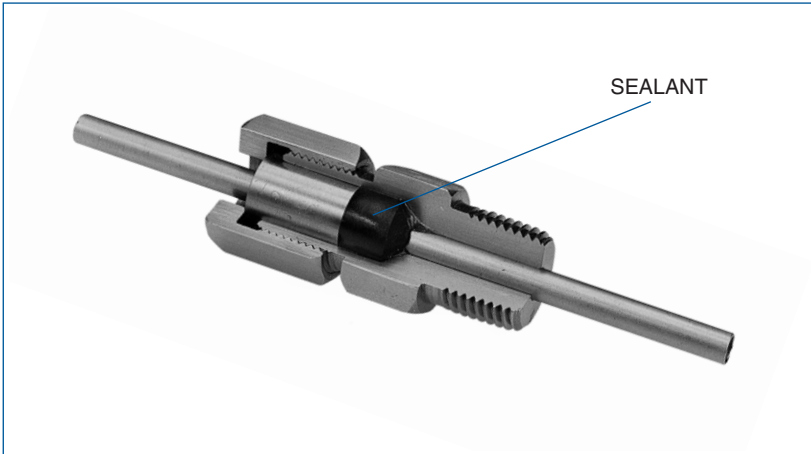


TUBE OR PROBE SEALING - PG GLANDS



- **SEALS A SINGLE ELEMENT - USUALLY A TUBE, PROBE OR SENSOR**
- **FOR GAS OR LIQUID APPLICATIONS**
- **PRESSURE: Vacuum to 690 bar**
- **TEMPERATURE: -240°C to +870°C**
- **FIELD ADJUSTABLE**
- **REPLACEABLE SEALANT FOR REPEATED USE OF FITTING**
- **STAINLESS STEEL BODY, CAP AND FOLLOWER**
- **SIMPLE ASSEMBLY - INSERT ELEMENT, TORQUE CAP**

PG glands are designed for sealing a single element, usually a tube or probe, where it crosses a pressure or environmental boundary. Glands are available to carry elements in both metric and inch sizes from micro-probes of 1.0mm (0.040") dia. to tubes and pipes of 1 1/4" o.d.

Applications for PG glands include: Pressure and vacuum sealing of thermocouples, RTD's, dial-type thermometers, thermistor probes, glass thermometers, thermowells (pockets) - including those made from fragile materials, capillary tubes and other sensor elements.

PG gland parts are manufactured from Stainless Steel AISI grades 316L (W.-Nr. 1.4404) and 303 (1.4305). Other materials, 316SS (NACE), Hastelloy C276, Monel 405 are available.

Conax pressure and vacuum sealing assemblies can be specified for use in a range of temperature, pressure and environmental situations by choosing a sealant that is suitable for the application. Replacement sealants are available to enable repeated use of fittings.

SEALANT SELECTION GUIDE

Sealant (Sealant Code)	Temperature range	Pressure range @ 20°C
Neoprene (N)	-40°C to +93°C	Vacuum to 345 bar
Viton (V)	-20°C to +232°C	Vacuum to 690 bar
Teflon (T)	-185°C to +232°C	Vacuum to 275 bar
Lava (L)	-185°C to +870°C	1bar (0.1MPa) to 690 bar
Grafoil (G)	-240°C to +495°C (to +1650°C in a reducing atmos.)	Vacuum to 690 bar

SPECIFICATIONS, ORDERING INFORMATION

Diameter of element to be sealed (See note 2) mm in.	Gland mounting thread (NPT) (See note 4)	Gland Description [Order Code] (See notes 1 & 4)	Pressure rating by sealant (bar) (See notes 3, 5 & 6)				
			Neoprene (N)	Viton (V)	Teflon (T)	Lava (L)	Grafoil (G)
1.0 0.040	1/16"	MIC-040-A-**-**	-	-	220	550	-
	1/8"	MPG-040-A-**-**	165	220	275	385	-
1.5 0.062	1/16"	MIC-062-A-**-**	-	-	220	550	-
	1/8"	MPG-062-A-**-**	165	220	275	275	345
0.093	1/8"	MPG-093-A-**-**	165	165	220	275	345
3.0	1/8"	MPG-118-A-**-**	165	165	165	275	345
	1/4"	PG2-118-A-**-**	345	690	220	690	690
0.125	1/8"	MPG-125-A-**-**	165	165	165	275	345
	1/4"	PG2-125-A-**-**	345	690	220	690	690
0.187	1/8"	MPG-187-A-**-**	80	100	100	275	275
	1/4"	PG2-187-A-**-**	220	310	165	690	345
6.0	1/4"	PG2-236-A-**-**	165	205	80	690	275
	1/2"	PG4-236-A-**-**	100	100	165	690	345
0.25	1/4"	PG2-250-A-**-**	165	205	80	690	275
	1/2"	PG4-250-A-**-**	100	100	165	690	345
	3/4" or 1"	PG5-250-A-**-**	100	100	165	690	345
8.0 0.312	1/2"	PG4-312-A-**-**	80	80	135	690	345
	3/4" or 1"	PG5-312-A-**-**	80	35	95	690	220
0.375	1/2"	PG4-375-A-**-**	80	35	95	690	220
	3/4" or 1"	PG5-375-A-**-**	80	35	95	690	220
0.5	3/4" or 1"	PG5-500-A-**-**	60	60	100	345	165
0.625	3/4" or 1"	PG5-625-A-**-**	55	55	55	275	165
0.75	3/4" or 1"	PG5-750-A-**-**	55	55	55	275	165
21.34 1/2" pipe	1"	PG6-840-A-**-**	§	§	27.5	-	-
	0.875	1"	PG6-875-A-**-**	§	§	27.5	-
1.0	1"	PG6-1000-A-**-**	§	§	27.5	-	-
	1 1/4"	PG7-1000-A-**-**	§	§	27.5	§	§
1.05	1 1/4"	PG7-1050-A-**-**	§	§	27.5	§	§
31.75 1.25	1 1/4"	PG7-1250-A-**-**	§	§	27.5	§	§

NOTES

Note 1:
The Gland Description [Order Code] shown in the table is completed by selecting the type of cap required - A or B is inserted at *. (MIC, MPG-040 and PG7 - type B not available). The code letter for the sealant selected is inserted at **.

Example: PG2-118-A-N describes a PG2 size gland (1/4" NPT mounting thread) suitable for a 3.0mm dia. element, with type A cap and Neoprene sealant.

Replacement Sealant Order Code
Example: RS-PG2-118-N

Note 2:
Tolerance of tube or probe diameter = ±0.127mm (±0.005"). Deviation from the nominal may affect pressure ratings.

Note 3:
All pressure and vacuum ratings are determined at 20°C with a stainless steel rod as the element.

Note 4:
PG5 glands are available with a 3/4" NPT or a 1" NPT mounting thread. The gland description PG5- etc. indicates that a 3/4" NPT mounting is required; the description PG5(1"NPT)- etc. indicates that a 1" NPT mounting thread is required.

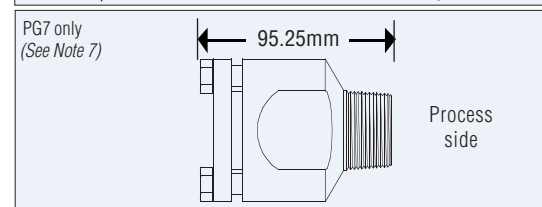
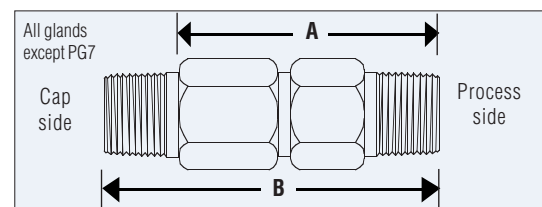
Note 5:
Where no value is shown in the tables the option is not available.

Note 6:
§ Please consult CBT for required pressure ratings.

Note 7:
PG7 gland assemblies have a flange-design cap with qty. 6 x hex. head cap screws. Type 'B' cap with threaded extension for conduit connection not available.

DIMENSIONS

Size of gland	Gland mounting thread (NPT)	Body Hex size (in.)	Cap Hex size (in.)	Length of gland with type A cap Dim. A (mm)	Length of gland with type B cap Dim. B (mm)
MIC	1/16"	1 1/32	1 1/32	23.81	-
MPG	1/8"	1/2	1/2	30.16	39.69
PG2	1/4"	3/4	3/4	50.80	60.33
PG4	1/2"	1	1	63.50	82.55
PG5	3/4" & 1"	1 1/4	1 1/4	73.03	92.08
PG6	1"	1 3/4	2	88.90	114.30
PG7	1 1/4"	Round body and cap 82.55mm dia. 63.5mm across flats (See Note 7)			



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