

- **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.

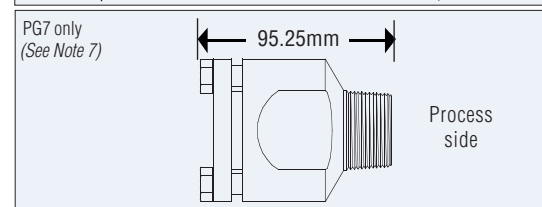
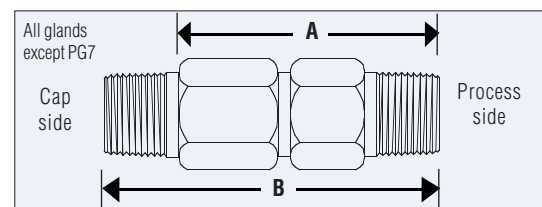
Note 5:
Where no value is shown in the tables the option is not available.

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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