

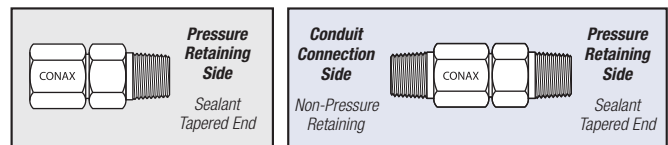
Transducer gland assemblies with fiberglass-insulated thermocouple wire are specially designed for applications where the sensor wire is exposed to process temperatures reaching up to 900° F (482° C). This assembly is particularly targeted for use with pressure vessels, autoclaves, vacuum and/or inert gas back-filled furnaces with **vessel wall temperatures up to 200° F (93.3° C) and pressures not exceeding 300 psi.**

The assembly consists of bonded fiberglass-insulated/silicone impregnated thermocouple grade wires on the body side, with stripped bare wires passing through the Conax-manufactured transducer gland.

**An alternative high-temperature fiberglass for Type K wire is also available with temperature capabilities up to 1400° F (760° C).**

Sleeved insulation material on the wires exiting the cap side may be fiberglass/silicone impregnated, PTFE or polyolefin.

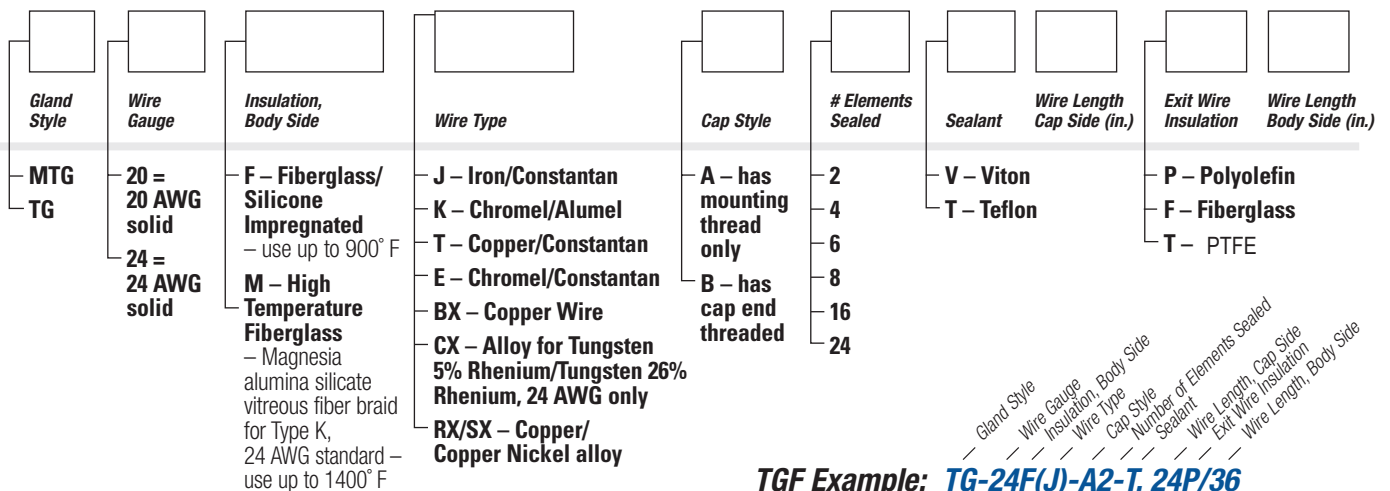
Gland bodies, caps and followers are constructed from 303SST. (For information on body materials, see page 9.) Cap Style A offers a mounting thread only. Cap Style B provides threading on both ends for attachment to conduit or terminal heads. These assemblies are offered with Viton or PTFE sealants. Alternative sealants are available. Please consult a Conax Technologies sales engineer for custom needs.



Type A has mounting thread only.

Type B has cap end threaded. B Cap NPT matches the standard mounting NPT.

### Catalog Numbering System



**TGF Example: TG-24F(J)-A2-T, 24P/36**

**TGM Example: TG-24M(K)-A2-T, 24P/36**

# SEALING FOR PROCESS TEMPERATURES UP TO 1400°F (760°C) ■ TGF/TGM SERIES

## Specifications – TGF/TGM (TGM available in Type K wire only for applicable models below.)

Catalog Number	Wire Gauge	Number of Wires	Length 'A'		Length 'B'		Hex Size				Pressure Rating	
			IN	MM	IN	MM	Body IN	Cap IN	Body MM	Cap MM	Viton/ PSIG	PTFE BAR
<b>MODEL MTG-F</b>												
<b>Standard 1/8 NPT</b>												
MTG-24F(X)-2	24	2	1.38	34.9	1.75	44.5	0.500	0.563	12.7	14.3	300	21
MTG-24F(X)-4	24	4	1.38	34.9	1.75	44.5	0.500	0.563	12.7	14.3	300	21
MTG-20F(X)-2	20	2	1.38	34.9	1.75	44.5	0.500	0.563	12.7	14.3	300	21
<b>MODEL TG-F</b>												
<b>Standard 1/4 NPT</b>												
TG-24F(X)-2	24	2	2.00	50.8	2.63	66.7	0.750	0.750	19.1	19.1	300	21
TG-24F(X)-4	24	4	2.00	50.8	2.63	66.7	0.750	0.750	19.1	19.1	300	21
TG-20F(X)-2	20	2	2.00	50.8	2.63	66.7	0.750	0.750	19.1	19.1	300	21
<b>Standard 1/2 NPT</b>												
TG-20F(X)-14-2	20	2	2.63	66.7	3.38	85.7	1.000	1.000	25.4	25.4	300	21
TG-20F(X)-14-4	20	4	2.63	66.7	3.38	85.7	1.000	1.000	25.4	25.4	300	21
TG-20F(X)-6	20	6	2.63	66.7	3.38	85.7	1.000	1.000	25.4	25.4	300	21
TG-20F(X)-8	20	8	2.63	66.7	3.38	85.7	1.000	1.000	25.4	25.4	300	21
<b>Standard 3/4 NPT</b>												
TG-24F(X)-16	20	16	2.88	73.0	3.63	92.1	1.125	1.250	28.6	31.8	300	21
TG-24F(X)-24	20	24	2.88	73.0	3.63	92.1	1.250	1.500	31.8	38.1	300	21

Note: (X) refers to the wire calibration/type.

\* Hex size for the body and cap are the same unless a cap size is provided in parentheses.

\*\* Weld neck models require lubrication prior to use.

All pressure and torque ratings were determined at 68° F (20° C) using stainless steel rod as the element. Pressure ratings may degrade at higher temperatures.

Pressure rating guide values are provided for glands with elements restrained by the compressed sealant. Higher pressure may be attained with additional element restrains.

For proper assembly of these sealing glands, see the Assembly Instructions provided on page 114.

Per ASTM E230-03, the suggested temperature range for BX, CX, and RX/SX extension grade wire is 32°F to 400°F (0°C to 200°C).

## High Temperature Jack Panel Assembly (JP) 1200°F (649°C) Maximum Rating

Conax Technologies' High Temperature Jack Panel Assembly (JP) is designed for mounting directly inside virtually any industrial furnace or autoclave.

It provides the ideal complement to our TGF high temperature feedthrough assemblies in that it provides a rugged platform to securely and efficiently connect internally mounted thermocouple plugs when changing out production loads.

The Jack Panel Assembly comes with 2-12 openings. Visit our website [www.conaxtechnologies.com](http://www.conaxtechnologies.com) to learn more about this product.

### Features

- Non out-gassing stainless steel and ceramic components
- Vertical or horizontal mounting options
- Laser marked plug locations with your logo
- Supplied unassembled for field assembly of TC wires
- Supplied with brackets and bracket hardware

### Application Ideas

- Composite curing autoclaves
- Heat treating furnaces
- Vacuum furnaces

