



STAINLESS STEEL

TEMPERATURE GAUGE  
INERT GAS FILLED SYSTEM

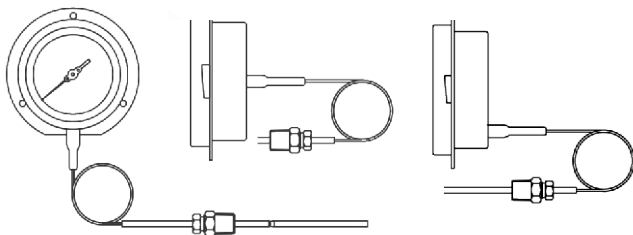
## MODEL: TGC

### FEATURES:

- Inert gas filled expansion
- Filled version
- Bi-metal compensation

### APPLICATION:

- Liquid & gaseous mediums
- Corrosive environments
- Oil & gas applications
- Chemical & Petrochemical



### STANDARD SPECIFICATIONS

|                    |                                                           |
|--------------------|-----------------------------------------------------------|
| Dial size          | 100/ 150/ 250 mm                                          |
| Range              | -30°C to +650°C                                           |
| Mounting pattern   | Direct Bottom Surface Mounting                            |
| Stem size          | 10 mm Standard<br>6/ 8/ 12 mm available                   |
| Stem length        | 300 Standard<br>150/ 400/ 500 mm available                |
| Capillary length   | 3/ 5/ 7/ 10/ 15 meters standard<br>20/25 meters available |
| Ingress protection | IP 65                                                     |
| Process connection | 1/2 " NPT / BSP (M) Adjustable                            |

### MATERIAL OF CONSTRUCTION

|                      |                                                      |
|----------------------|------------------------------------------------------|
| Sensing element      | Inert Gas Filled                                     |
| Stem                 | AISI 316 SS                                          |
| Process connection   | AISI 316SS                                           |
| Case & Ring material | AISI 304 SS (Bayonet type Bezel)                     |
| Dial                 | Aluminum, black graduation on white background       |
| Pointer              | Micro-zero adjustable, aluminum, black powder coated |
| Gaskets              | Neoprene                                             |
| Window               | Sheet / Safety glass                                 |

### STANDARD PARAMETERS

|                      |                                                                                 |
|----------------------|---------------------------------------------------------------------------------|
| Accuracy             | ±1.0%                                                                           |
| Ambient temperature  | -25°C to 65°C                                                                   |
| Temperature          | -50... +65°C (without dampening liquid)<br>-20... +60°C (with dampening liquid) |
| Over range limits    | 110% full scale                                                                 |
| Stem pressure rating | 25 bar (without thermowell)                                                     |
| Joints               | TIG argon arc welding                                                           |

### Glycerine filled

|                         |                                             |
|-------------------------|---------------------------------------------|
| Gaskets & Filling plugs | Neoprene                                    |
| Dampening liquids       | Glycerine 99.7% (-20 to 65°C) (up to 100°C) |

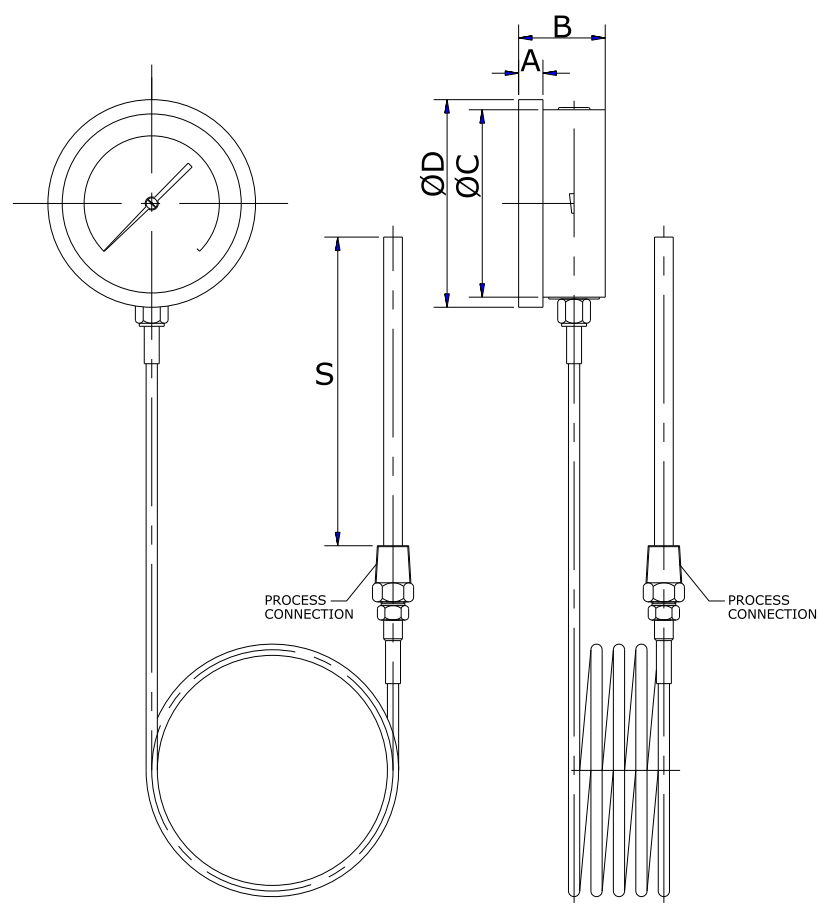
### Silicon filled

|                         |                           |
|-------------------------|---------------------------|
| Gaskets & Filling plugs | Neoprene                  |
| Dampening liquids       | Silicon oil (up to 200°C) |



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| NS    | A  | B  | ØC  | ØD  | S |
|-------|----|----|-----|-----|---|
| 100mm | 12 | 48 | 100 | 111 | * |
| 150mm | 15 | 48 | 149 | 160 | * |

\*As per customer requirement.

HOW TO ORDER :-

Model No - Dial Size - Mounting - Range - Stem Dimension - Capillary Length - Process Connection - Options