

BIMETAL THERMOMETER WITH ELBOW MOUNTING

TGI50-3

APPLICATIONS

- Liquid & gaseous mediums
- Corrosive environments
- Oil & Gas applications
- Chemical & Petrochemical
- Food & Beverages
- Nuclear power plants

FEATURES

- All stainless steel welded construction
- Follows EN 13190 / ASME B40.200
- Accuracy as per Class 1
- Dry / Fillable / Liquid filled



BIMETAL THERMOMETER WITH ELBOW , TGI50-3

DESCRIPTION

General

Design : EN 13190

Accuracy : $\pm 1.0\%$ of full scale

Ambient temperature : -20...+60°C

Over range limits : 110% full scale

Stem pressure rating : 25 bar (Without thermowell)

Weld joints : TIG argon arc welding

Material of construction

Sensing element : Coiled bimetal strip

Case & Ring material : AISI 304 SS

Stem material : AISI 316 SS

Process connection material : AISI 316 SS

Dial : Aluminum, black graduation on white background

Pointer : Zero adjustable, aluminum, black powder coated

Gaskets : Neoprene / NBR

Window : Sheet glass

Temperature effect

When temperature of the measuring system deviates from reference temperature (+20°C):
max $\pm 0.4\%$ / 10K of full scale value.

Standard version

Dial size : 80 mm / 100 mm / 150 mm

Range : -50 up to 600°C

Mounting pattern : **Center Back with Elbow**

Stem size : 6.0 mm / 8.0 mm / 9.5 mm / 12 mm

Ingress protection : IP 65

Stem length : 150 mm standard up to 1000 mm

Process connection type : Adjustable connection

Process connection : $\frac{1}{2}$ " NPT (M) / $\frac{1}{2}$ " BSP (M)

Filled versions

Glycerin

Window : Shatterproof safety glass

Dampening liquid : Glycerin 99.7% / 80% / 60%
[Max temperature range limit 100°C]

Silicon Oil

Window : Shatterproof safety glass

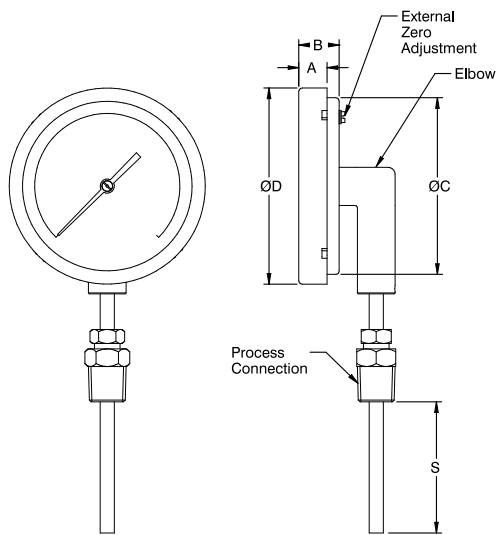
Gasket, Blow off disc & filling plug : NBR / Viton

Dampening liquid : Silicon oil DC 200
[Max temperature range limit 200°C]

BIMETAL TEMPERATURE GAUGE WITH ELBOW MOUNTING

TGI50-3

DIMENSIONAL DRAWING



NS	A	B	ØC	ØD
100	12	48	100	111
125	15	48	118.5	129
150	15	48	149	161

- NOTES
- Drawing not to scale. All dimensions are in mm.
 - For other mounting details, Panel cut-out dimensions, kindly contact factory.

ORDERING CODES

MODEL						TGI50-3
TGI50-3 Bimetal thermometer with Elbow Mounting						
DIAL SIZE						
D3	3" / 80 mm	D4	4" / 100 mm	D6	6" / 150 mm	
MOUNTING						
M13	Center back with Elbow Mounting					
CONNECTION						
P4	¼" NPT (M)	P20	3/8" NPT (M)	P8	½" NPT (M)	
P3	¼" BSP (M)	P5	3/8" BSP (M)	P7	½" BSP (M)	
CASE FILLING						
F1	Dry	F2	Dry but fillable	F3	Glycerin filled	
F4	Silicon oil filled					
INGRESS PROTECTION						
I1	IP 65	I6	IP 68			
STEM SIZE						
B6	6 mm	B8	8 mm	B10	10 mm	
B12	12 mm	B9	9.5 mm	B7	6.35 mm (¼")	
STEM LENGTH						
XXXX	Please mention stem length in 'mm'					
RANGE						
0-100°C	Please mention range required with the measurement unit [TGI offer in all types of National & International measurement units, e.g. °C, °F, etc. with single or dual scales]					
OPTIONAL EXTRAS						
E33	AISI 316 SS case & ring	E01	Shatterproof safety glass	E46	External zero adjustment (> 63 mm)	
E27	AISI 304 SS tag plate	E28	AISI 316 SS tag plate	E31	Custom designed dial	
E32	Dial tag marking	E16	5 - point calibration certificate			

Ordering Example : TGI50-3-D4.M13.P8.F1.I1.B6/100/0-100°C/E16/E27