GAS FILLED TEMPERATURE GAUGE TGI51-1

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





GAS FILLED TEMPERATURE GAUGE, TGI51-1

DESCRIPTION

General

Design: EN 13190

Accuracy: ±1.0% of full scale
Ambient temperature: -20...+60°C

Storage temperature: -50...+70°C without liquid dampening

-20...+60°C with liquid dampening **Over range limits**: 110% full scale

Stem pressure rating: 25 bar (Without thermowell)

Weld joints: TIG argon arc welding

Material of construction

Sensing element : Inert Gas Filled sensor bulb

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: Micro-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): max $\pm 0.4\%$ / 10K of full scale value.

Standard version

Dial size: 100 mm / 150 mm / 250 mm

Range: -50 up to 800°C

Mounting pattern: Direct Bottom connection **Stem size**: 6.0 mm / 8.0 mm / 9.5 mm / 12 mm

Ingress protection: IP 65

Stem length: 150 mm standard up to 3000 mm Process connection type: Adjustable connection Process connection: ½" NPT (M) / ½" 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]

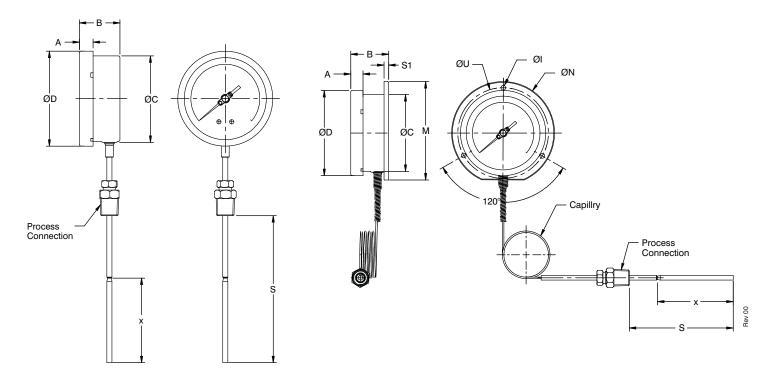




GAS FILLED TEMPERATURE GAUGE

TGI51-1

DIMENSIONAL DRAWING



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

NS	Α	В	ØС	ØD	Ø١	ØN	M	S1	ØU
100	12	48	100	111	6	134	128	6	118
150	15	48	149	161	6	186	172.4	6	168
250	18.5	52	250	263	7	290	286.5	1.5	276

TGI51-1 Gas filled temperature gauge IAL SIZE D4 4" / 100 mm D6 6" / 150 mm D10 10" / 250 mm	ORDER	ING CODES						
D4 4" / 100 mm D6 6" / 150 mm D10 10" / 250 mm OUNTING irect type (Rigid stem) M1 Direct bottom M5 Direct center back M12 Every angle center back entry M6 Direct lower back M16 Bottom with Anti-vibration spring emote type (Capillary extension) M2 Direct bottom with Back flange MF Direct lower back with front flange M8 Direct lower back with panel mounting clamp ONNECTION P4 ½" NPT (M) P6 3/8" NPT (M) P7 ½" BSP (M) ASE FILLING F1 Dry F2 Dry but fillable F3 Glycerin filled	MODEL							
D4 4" / 100 mm D6 6" / 150 mm D10 10" / 250 mm OUNTING irect type (Rigid stem) M1 Direct bottom M5 Direct center back M12 Every angle center back entry M6 Direct lower back M16 Bottom with Anti-vibration spring emote type (Capillary extension) M2 Direct bottom with Back flange MF Direct lower back with front flange M8 Direct lower back with panel mounting clamp ONNECTION P4 1/4" NPT (M) P6 3/8" NPT (M) P7 1/2" BSP (M) ASE FILLING F1 Dry F2 Dry but fillable F3 Glycerin filled	TGI51-1	Gas filled temperature gauge						
OUNTING irect type (Rigid stem) M1 Direct bottom M5 Direct center back M12 Every angle center back entry M6 Direct lower back M16 Bottom with Anti-vibration spring emote type (Capillary extension) M2 Direct bottom with Back flange MF Direct lower back with front flange M8 Direct lower back with panel mounting clamp ONNECTION P4 1/4" NPT (M) P6 3/8" NPT (M) P7 1/2" NPT (M) P3 1/4" BSP (M) P5 3/8" BSP (M) P7 1/2" BSP (M) ASE FILLING F1 Dry F2 Dry but fillable F3 Glycerin filled	DIAL SIZE							
irect type (Rigid stem) M1 Direct bottom M5 Direct center back M12 Every angle center back entry M6 Direct lower back M16 Bottom with Anti-vibration spring emote type (Capillary extension) M2 Direct bottom with Back flange MF Direct lower back with front flange M8 Direct lower back with panel mounting clamp ONNECTION P4 ½" NPT (M) P6 3/8" NPT (M) P8 ½" NPT (M) P3 ½" BSP (M) P5 3/8" BSP (M) P7 ½" BSP (M) ASE FILLING F1 Dry F2 Dry but fillable F3 Glycerin filled	D4	4" / 100 mm	D6	6" / 150 mm	D10	10" / 250 mm		
M1 Direct bottom M5 Direct center back M12 Every angle center back entry M6 Direct lower back M16 Bottom with Anti-vibration spring emote type (Capillary extension) M2 Direct bottom with Back flange MF Direct lower back with front flange M8 Direct lower back with panel mounting clamp ONNECTION P4 1/4" NPT (M) P6 3/8" NPT (M) P8 1/2" NPT (M) P3 1/4" BSP (M) P5 3/8" BSP (M) P7 1/2" BSP (M) ASE FILLING F1 Dry F2 Dry but fillable F3 Glycerin filled	MOUNTING							
M6 Direct lower back M16 Bottom with Anti-vibration spring emote type (Capillary extension) M2 Direct bottom with Back flange MF Direct lower back with front flange Direct lower back with panel mounting clamp ONNECTION P4 1/4" NPT (M) P6 3/8" NPT (M) P8 1/2" NPT (M) P3 1/4" BSP (M) P5 3/8" BSP (M) P7 1/2" BSP (M) ASE FILLING F1 Dry F2 Dry but fillable F3 Glycerin filled	Direct type ((Rigid stem)						
M2 Direct bottom with Back flange MF Direct lower back with front flange Direct lower back with panel mounting clamp ONNECTION P4 1/4" NPT (M) P6 3/8" NPT (M) P8 1/2" NPT (M) P3 1/4" BSP (M) P5 3/8" BSP (M) P7 1/2" BSP (M) ASE FILLING F1 Dry F2 Dry but fillable F3 Glycerin filled			_			Every angle center back entry		
M8 Direct lower back with panel mounting clamp ONNECTION P4 ¼" NPT (M) P6 3/8" NPT (M) P8 ½" NPT (M) P3 ¼" BSP (M) P7 ½" BSP (M) ASE FILLING F1 Dry F2 Dry but fillable F3 Glycerin filled F4 Silicon oil filled	Remote type	e (Capillary extension)						
P4 1/4" NPT (M) P6 3/8" NPT (M) P8 1/2" NPT (M) P3 1/4" BSP (M) P5 3/8" BSP (M) P7 1/2" BSP (M) ASE FILLING F1 Dry F2 Dry but fillable F3 Glycerin filled F4 Silicon oil filled		9						
P3 ½" BSP (M) P5 3/8" BSP (M) P7 ½" BSP (M) ASE FILLING F1 Dry F2 Dry but fillable F3 Glycerin filled F4 Silicon oil filled	CONNECTIO	ON						
F1 Dry F2 Dry but fillable F3 Glycerin filled F4 Silicon oil filled		` ,	_		_	` /		
F4 Silicon oil filled	CASE FILLII	NG						
IGRESS PROTECTION		,	F2	Dry but fillable	F3	Glycerin filled		
	INGRESS P	ROTECTION						
I1 IP 65 I6 IP 68	l1	IP 65	l 6	IP 68				

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GAS FILLED TEMPERATURE GAUGE TGI51-1

ORDER	RING CODES							
EXECUTIO	N					R1		
R1	Direct	R2	Remote			n i		
STEM SIZE	<u>:</u>					В6		
B6 B12	6 mm 12 mm	B8 B9	8 mm 9.5 mm	B10 B7	10 mm 6.35 mm (1/4")	ВО		
STEM LEN	gтн					100 mm		
XXXX	Please mention stem length in 'mm'							
RANGE						0-100°C		
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]							
CAPILLAR	Υ					VVV		
S01	AISI 304 SS	S02	AISI 316 SS			XXX		
CAPILLAR	Υ					VVV		
S01	AISI 304 SS	S02	AISI 316 SS	S16	PVC [Ambient up to 65°C]	XXX		
STEM LEN	GTH					xxxx		
XXXX	X Please mention stem length in 'mm'							
OPTIONAL	EXTRAS					F4.0 /F07		
E33 E27 E32	AISI 316 SS case & ring AISI 304 SS tag plate Dial tag marking	E01 E28 E16	Shatterproof safety glass AISI 316 SS tag plate 5 - point calibration certificat		ustom designed dial	E16/E27		

Ordering Example: TGI51-1-D4.M1.P8.F1.I1.R1.B6/100 mm/0-100°C/E16/E27

