

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, ZIPL51-1

DESCRIPTION

General

Design : EN 13190

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

Ambient temperature : $-20 \dots +60^{\circ}\text{C}$

Storage temperature : $-50 \dots +70^{\circ}\text{C}$ without liquid dampening
 $-20 \dots +60^{\circ}\text{C}$ 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 : $\frac{1}{2}$ " 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

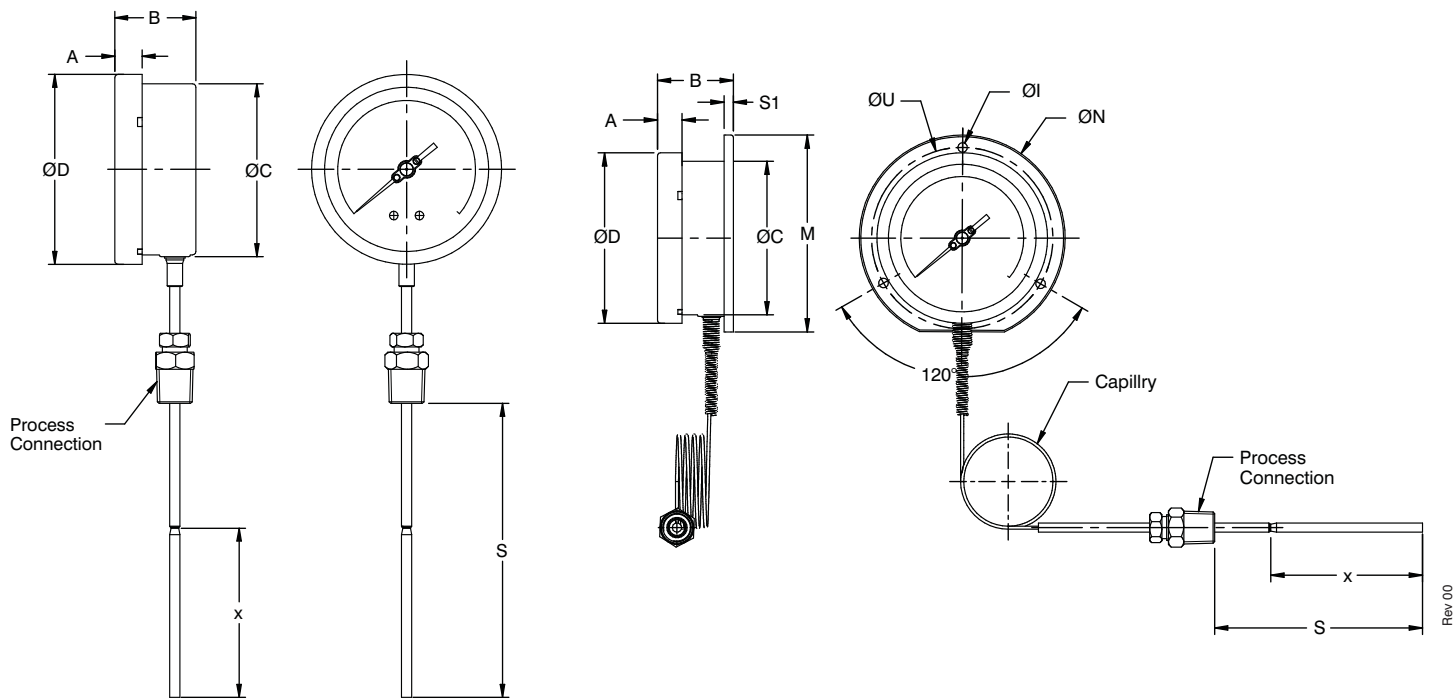
Gasket, Blow off disc & filling plug : NBR / Viton

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

GAS FILLED TEMPERATURE GAUGES
ZIPL51-1



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.

Table with 10 columns: NS, A, B, ØC, ØD, ØI, ØN, M, S1, ØU. It contains three rows of dimension data for different gauge sizes.

ORDERING CODES

Table with 4 main sections: MODEL, DIAL SIZE, MOUNTING, CONNECTION, CASE FILLING, and INGRESS PROTECTION. It details the configuration options for the ZIPL51-1 gauge, including dial size (D4, D6, D10), mounting type (Direct, Remote), connection type (P4, P3, P6, P5, P8, P7), case filling (F1, F2, F3), and ingress protection (I1, I6).



The technical details & specifications are provided as such at the time of printing. Technical changes and omissions may happen later.

GAS FILLED TEMPERATURE GAUGES

ZIPL51-1

ORDERING CODE					
EXECUTION					
R1	Direct	R2	Remote		
STEM SIZE					
B6	6 mm	B8	8 mm	B10	10 mm
B12	12 mm	B9	9.5 mm	B7	6.35 mm (1/4")
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]				
CAPILLARY					
S01	AISI 304 SS	S02	AISI 316 SS		
CAPILLARY					
S01	AISI 304 SS	S02	AISI 316 SS	S16	PVC [Ambient up to 65°C]
STEM LENGTH					
XXXX	Please mention stem length in 'mm'				
OPTIONAL EXTRAS					
E33	AISI 316 SS case & ring	E01	Shatterproof safety glass	E31	Custom designed dial
E27	AISI 304 SS tag plate	E28	AISI 316 SS tag plate		
E32	Dial tag marking	E16	5 - point calibration certificate		

Ordering Example : ZIPL51-1-D4.M1.P8.F1.I1.R1.B6/100 mm/0-100°C/E16/E27