

BI-METAL THERMOMETERS ALL STAINLESS STEEL CONSTRUCTION DN 100-125-150

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These instruments are designed for use in food, beverage, pharmaceutical, chemical, petrochemical processing industries. They are built to resist the most severe operating conditions created by the environment and the process medium. A TIG welded base / bulb strengthens the whole construction. A leak tight fit is ensured if the instrument is filled with a dampening fluid to prevent damage due to vibration.



Constructive and functional characteristics:

Designation: EN 13190.

Indication ranges: -80...+1000°F (-50...+600°C).

Measurement ranges: -60...+900°F (-40...+500°C); -60...<+840°F (-40...+450°C) continuous; +840...900°F (+450...500°C) intermittent only.

Accuracy class: 1 as per EN 13190, measurement range.

Overtemperature limit: 30% of full scale range for temperature ≤ 750°F (400°C); max 900°F (500°C)

Special Overtemperature (Option F02): 100% of full scale range for temperature ≤ 300°F (150°C); 50% of full scale range for temperature from +300...550°F (+150...300°C)

Ambient temperature: -13...+149°F (-25...+65°C).

Max working pressure: 200 psi-15 bar (without thermowell).

Protection degree: IP 55 as per IEC 529.

Process connection: AISI 316 st.st.

Bulb: Ø 0.24-0.25-0.31-0.38" (6-6,4-8-9,6 mm) AISI 316 st. st.

Immersion length:

From 5.91" to 16.69" (from 150 to 500 mm) for bulbs Ø 0.24-0.25" (6-6,4 mm)

From 3.94" to 35.43" (from 100 to 900 mm) for bulbs Ø 0.31-0.38" (8-9,6 mm) and ranges ≤ 600°F (300°C);

From 5.91" to 35.43" (from 150 to 900 mm) for bulbs Ø 0.31-0.38" (8-9,6 mm) and ranges > 600°F (300°C); (other lengths available upon request)

Measurement element: bi-metal spiral shaped.

Case: stainless steel.

Ring: stainless steel bayonet lock.

Window: tempered glass.

Dial: aluminium, white with black markings.

Pointer: not adjustable, aluminium, black.

Zero-Adjustment: external zero-adjustment screw.

OPTIONS

DESCRIPTION	DS 4" (100 mm)	DS 5" (125 mm)	DS 6" (150 mm)
ATEX II 2GD c	See the ATEX temperature gauges data-sheet for technical details.		
ATEX II 2GD ck			
ATEX II 3GD c			
Case and ring AISI 316 st. st.	*	*	*
Special overtemperature	*	*	*
Glycerine filling, max 320°F (+160°C)	*	*	*
Silicone filling, max 482°F (+250°C)	*	*	*
Fluorolube filling, max 392°F (+200°C)	*	*	*
Tropicalization.	*	*	*
Safety double stratified glass.	*	*	*

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MEI Manometría e Instrumentación, s.l.

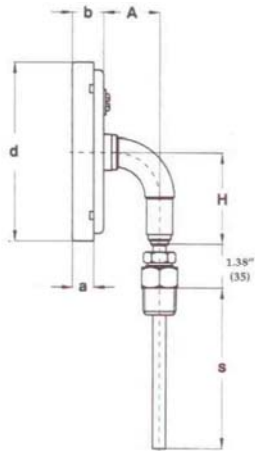
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BI-METAL THERMOMETERS

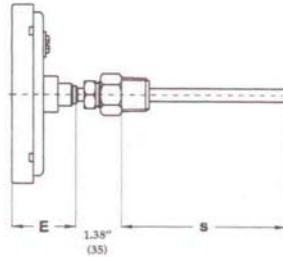
ALL STAINLESS STEEL CONSTRUCTION

DN 100-125-150

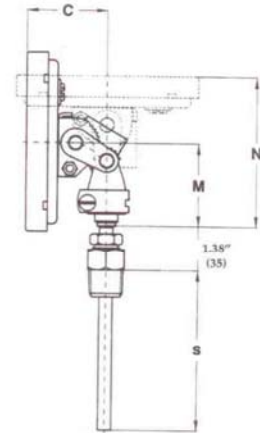
2



1 - LOWER CONNECTION



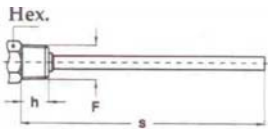
4 - BACK CONNECTION



9 - EVERY-ANGLE CONNECTION

DN	A	a	b	C	d	E	H	M	N
4" (100)	1.36" (34.5)	0.51" (13)	0.75" (19)	1.93" (49)	4.35" (110.6)	1.54" (39)	2.24" (57)	2.03" (51.5)	3.64" (92.5)
5" (125)	1.36" (34.5)	0.57" (14.5)	0.77" (19.5)	1.95" (49.5)	5.12" (130)	1.56" (39.5)	2.56" (65)	2.03" (51.5)	3.66" (93)
6" (125)	1.36" (34.5)	0.59" (15)	0.79" (20)	1.97" (50)	6.34" (161)	1.57" (40)	3.23" (82)	2.03" (51.5)	3.68" (93.5)

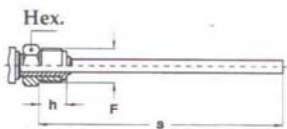
Dimensions inches (mm)



3 - Fixed male

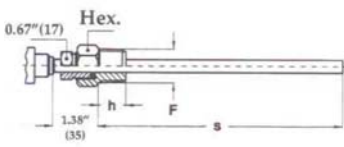
F	Hex.	h
1/2-14 NPT	0.87" (22) *	0.67" (17)
G 1/2 A	0.87" (22) *	0.55" (14)

* ø 24 for every-angle mounting



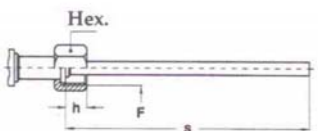
5 - Male swivel nut

F	Hex.	h
G 1/2 A	0.87" (22)	0.55" (14)
G 3/4 A	0.87" (22)	0.55" (14)



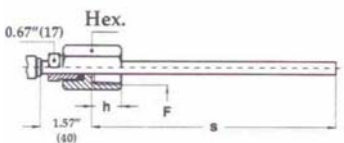
9 - Sliding male and swivel nut

F	Hex.	h
G 1/2 A	0.87" (22)	0.55" (14)
1/2-14 NPT	0.87" (22)	0.67" (17)
G 3/4 A	1.06" (27)	0.63" (16)
3/4-14 NPT	1.06" (27)	0.67" (17)



8 - Female swivel nut

F	Hex.	h
G 1/2 A	0.94" (24)	0.63" (16)
G 3/4 A	1.18" (30)	0.63" (16)



7 - Sliding female and swivel nut

F	Hex.	h
1/2-14 NPT	0.94" (24)	0.71" (18)
3/4-14 NPT	1.26" (32)	0.71" (18)

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