

Product data sheet

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BT040 - STAINLESS STEEL BIMETAL THERMOMETERS (CLASS 1)



Product features:

- Thermometer with heavy duty stainless steel 304 case and bayonet style bezel
- Choice of temperature ranges, dial diameters and stem lengths
- Back entry, bottom entry or adjustable angle connections
- Recalibration screw (back connection and adjustable connection only)
- Stainless steel pockets can be supplied as extra. Use of a thermowell (pocket) is always recommended
- Silicone filling available

Applications:

- Wide range of applications including oil and gas, chemical and petrochemical, ventilation, heating and air conditioning, water/wastewater and general industrial processes

Standard product specifications:

Dial diameters	63mm, 100mm 115mm & 150mm
Design	BS EN 13190 / ASME B40.200 Compliant
Accuracy class	Class 1 (EN13190)
Ranges	-50 to +650°C&F
Case	Stainless steel AISI 304
Bezel	Stainless steel AISI 304 - bayonet
Connection	Stainless steel 316, size as requested
Stem	Stainless steel 316L
Stem length	min. 63mm, max. 1000mm
Stem diameter	6.3mm, 8mm, 10mm or 12mm
Sensor mechanism	Bimetal coil
Window	Glass (laminated safety glass optional)
Pointer	Black aluminium
Dial	Black numbering on white background
Filling	Dry or silicone filled (up to 300°C)
Protection	IP 67 or IP 68
Calibration	Certificate traceable to recognised national standard or statement of conformity, if required

Note:

Loosen the screws on either side of the adjustable bracket before gently angling thermometer as required.
Tighten screws again before use.
See notes on page 4 of this document.

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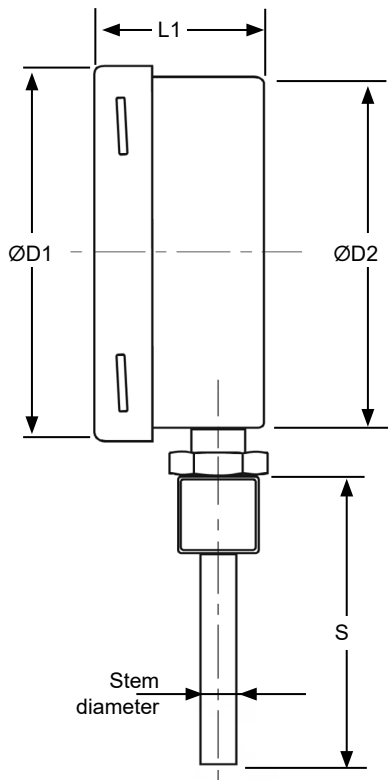
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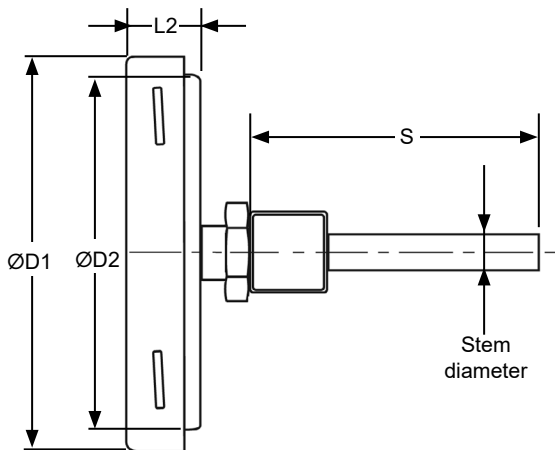
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Dimensions:

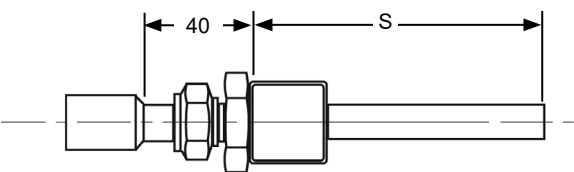
Bottom entry dial thermometer (fixed connection)



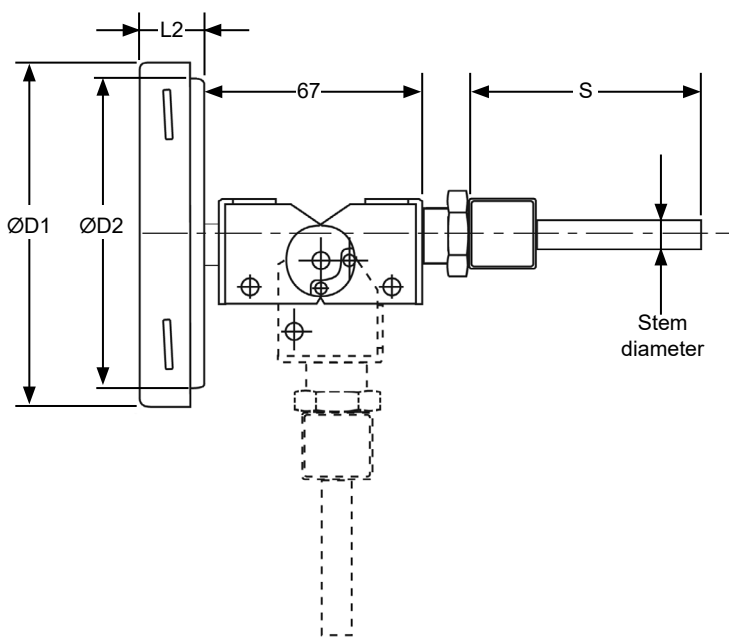
Back entry dial thermometer (fixed connection)



Sliding union connection



Adjustable dial thermometer (fixed connection)



S = stem length

Dial size	ØD1	ØD2	L1	L2
63	68.6	61.6	42.5	21.5
100	109.0	98.5	49.0	23.5
115	126.5	114.5	49.0	23.5
150	166.0	152.0	49.0	25.0

Minimum sensing length

Range °C	6.3mm	8mm	10mm	12mm
50	130	85	60	50
60	110	70	50	50
80	85	55	50	50
100	70	50	50	50
120	60	50	50	50
150	50	50	50	50
160	95	65	50	50
180	90	60	50	50
200	75	55	50	50
250	65	50	50	50
300	55	50	50	50
400+	50	50	50	50

Minimum sensing length refers to the thermometer stem length. If the thermometer is being used with a thermowell, the minimum sensing length refers to the thermowell U Length.

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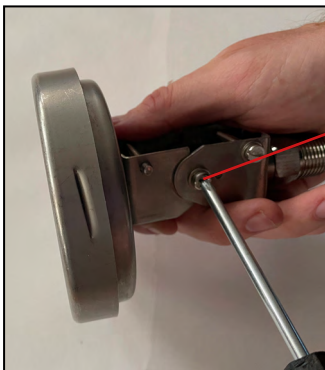
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Please read before attempting to change angle of adjustable angle bimetal thermometers.

Setting the connection angle



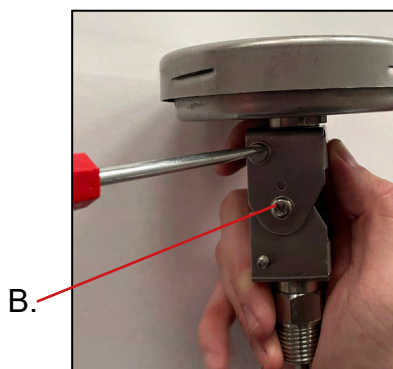
To adjust the thermometer face display angle, firstly, loosen off screws A. on either side of the adjustable bracket.



Set the thermometer face to the required angle. Retighten the screws.

Face alignment

Before rotating the thermometer face ensure the thermometer is set in the back connection alignment. Never rotate the thermometer face when the bracket is set in an angled alignment.



Loosen off the screws B. on either side of the adjustable bracket.



Holding both the thermometer face and the adjustable bracket, rotate the thermometer face to the desired position. No more than minimum force should be required. Retighten the screw(s).