SC METROMAT SRL

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Manometre cu capsula, BDT9-18

Badotherm capsule pressure gauge model BDT9-18 is available in standard ranges from 16mbar up to 600 mbar. The gauges are suitable for corrosive environments and gaseous media that will attack copper alloys. This pressure gauge is typically used for applications in the chemical, petro-chemical, oil & gas, power and utilities, machine building and general process industries



Design Information

Design Norm	Ingress Protection
EN 837-3	IP54 per IEC 60529

Standard Model Material Specifications

Process connection	Capsule	Case	Bezel
AISI 316(L)	AISI 316	AISI 304, bayonet	AISI 304, bayonet

Movement	Window	Pointer	Dial
stainless steel	glass	aluminium, black	aluminium, white with black markings

Technical Specifications

	63 mm	100 mm	160 mm
Connection	1/4" BSP/NPT	1/2" BSP/NPT	1/2" BSP/NPT
Minimum range	16 mbar	16 mbar	16 mbar
Maximum range	600 mbar	600 mbar	600 mbar
Accuracy	1.6% FSV	1.6% FSV	1.6% FSV
Pointer	adjustable slotted	adjustable slotted	adjustable slotted
Mounting variations	A / B / C / D / E	A / B / C / D / E	A / B / C / D / E
Movement	zero adjustable	zero adjustable	zero adjustable
Free zero	•	•	•
Internal limit stop	-	-	-
Connection construction	screwed	screwed	screwed
Blow out	NBR	NBR	NBR
Compensation plug, material	NBR	NBR	NBR
Window gasket	NBR	NBR	NBR

Special Executions

BDT9-12	brass system (capsule and movement) with stainless steel connection
BDT9-18-S	casing and bezel in AISI 316(L)

Options

Window	laminated safety glass or plastic
Process connection	other
Restrictor screw	AISI 316(L)
Cleaning	oxygen service
Calibration certificates	5 points (rising and falling)
Accessories	please check for matching accessories such as siphons (BDT42), snubbers (BDT45), swivel gauges (BDT47), overpressure protectors (BDT49), diaphragm seals and instrument needle valves and manifolds

Pressure Details

Working Pressure

steady	full scale value
fluctuating	0.9 x full scale value

Temperature Details

Case Filling Fluid

		ambient	process
-	without	-40°C to 90°C	100°C

Window

	ambient
glass	<400°C
safety glass	<200°C
polycarbonate	<120°C

Gaskets

	ambient
window NBR	<100°C
fill plug NBR	<100°C
fill plug HNBR	<150°C

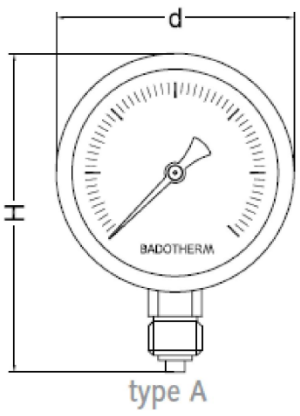
Temperature Effect

The variation of indication caused by the effect of temperature shall not exceed:
± 0.08 x (ambient temperature – reference temperature)% of the span

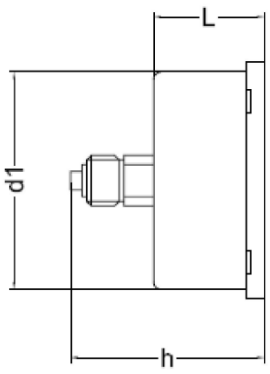
Mounting Variations

- type A bottom connection, direct mounting
- type B back connection, panel mounting, clamp fixing
- type C bottom connection, surface mounting
- type D back connection, direct mounting
- type E back connection, panel mounting

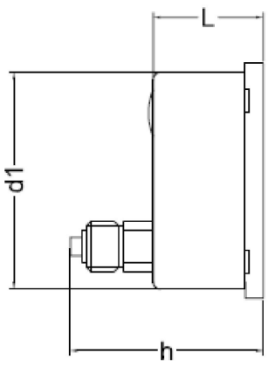
Drawings



type A



type D ø 63 mm



type D ø 100/160 mm

Dimensions

ns	d	d1	L	H	h	weight
63	68	63	42	88	63	0.18 kg
100	110	100	49	142	82	0.53 kg
160	160	149	50	200	84	1.02 kg

All dimensions in mm

NOTA: Aceasta fisa a fost realizata sub rezerva modificarilor ulterioare de ordin tehnic sau a erorilor de editare.

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