

Badotherm model BDT18 series gauges are available as 50/63/80/100/160 mm dia. These gauges are designed to withstand the severest of operating conditions created by the ambient environment and the process medium.

The BDT18 has many optional features. The welded connection on 100 and 160 mm dia guarantees that when the case is filled no leakage will occur. All Badotherm stainless steel tubes are made from seamless drawn tube.

stainless steel process pressure gauge

mounting variations

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

technical specification model BDT18

diameter	connection	window	ranges
50 to 160 mm	1/2" BSP/NPT	glass	from -1/1600 bar
casing	tube	movement	dial
AISI304 bayonet	AISI316	stainless steel	aluminium
bezel	socket	pointer	accuracy
AISI304 bayonet	AISI316	fixed	1.0% FSD

Note: 50/63/80 mm standard connection is 1/4" BSP/NPT

50/63/80 mm accuracy 1.6% FSD (50 mm max. 70 bar)

50 mm not available type B 63/80 mm up to 1000 bar

options and special executions at extra cost

casing	AISI316
bezel	AISI316

window safety glass; plastic

dials customized - i.e., non standard ranges or logos

certificates calibration -; conformity -; material installation and maintenance manuals

pointer adjustable slotted 63/80/100/160 mm only METRIC; BSPT; acc JIS in various sizes connection

restrictor AISI316 connection position top or side

3-15 psi; 0.2-1 bar; 0-100% lin; 0-10 sq.rt. receiver gauge

drag-pointer system for dia 63/100/160 mm

red pointer on dial

special version with MONEL internals type BDT18-M special version with BRASS internals type BDT10 filling glycerine: silicone: fluorolube with contact device BDT30 & BDT31 & BDT36-18



BDT18

BDT18 - technical data sheet

pressure details

working pressure

Steady	full scale value
Fluctuating	0,9 x full scale value
Short time	see over-pressure table

pressure element

	<100 bar	≥100 bar
BDT18	AISI316	AISI316

over-pressure

max. scale in bar		bar	over-pressure at 20 °C		
-1	to	100	1,25 x full scale value		
101	to	600	1,15 x full scale value		
601	to	1600	1,10 x full scale value		

Note: only withstand for a short period of time

temperature details

temperature limitations

	ambient	process
without filling	-40 °C to 60 °C	200 °C
glycerine filling	-25 °C to 60 °C	60 °C
silicone filling	-40 °C to 60 °C	90 ℃

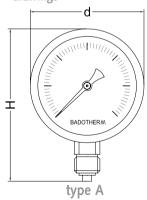
The variation of indication caused by the effects of temperature shall not exceed:

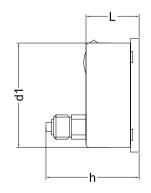
±0,04 x (ambient temperature-reference temperature)% of the span

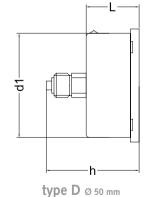
design information

ingress protection IP 65 per EN 60 529 / IEC 529 design EN 837-1

drawings







type D (Ø 63 mm, without blow-out back)

dimensions

ns	d	d1	L	Н	h	weight
50	56	51	30	75	52	0,10 kg
63	68	63	30	88	58	0,14 kg
80	89	80	32	112	58	0,30 kg
100	110	100	49	142	83	0,53 kg
160	160	149	50	200	84	1,02 kg

Note: dimensions are in mm