



BDH Series

High Static Differential Pressure Gauge

Features

- Accuracy Class 1,6
- Pressure range 0..25 mbar up to 25 bar
- Static pressure 100 bar (160mbar ..25 bar)
- Static pressure 25 bar (25..100 mbar)
- Independent working diaphragm
- All stainless steel construction
- Various Exotic material wetted parts as option
- Liquid fillable for extreme vibration application
- Optional higher Static pressure up to 4 times



Application

BDHseries is designed for measuring low differential pressures from 25 mbar up to 25 bar with high static pressure or operating values up to 100 bar / 200 bar. With wetted part in SS316 or option monel & Hastelloy C, it can be use in many severe or corrosive area such as oil & gas, refinery, Petrochemical, offshore & onshore, Waste water treatment and many more. BDH series can also be use for indication flow rate, level, mount after filter to detect clog / dirty filters, etc.

Technical Specification

- Nominal Size
100 (4") and 150 mm (6")
- Accuracy Class
Class 1,6
- Ingress Protection
IP 55 -Dry execution
IP 65 -Liquid fillable / Filled
- Design Mounting
Code D - Direct mount
Code S - Surface mount with clamp
Code P - Panel flush with 3 fixed holes
Code 2 - 2" Pipe mounting
- Connection Size
1/4"NPT F, 1/2"NPT and G1/2"
- Scale Range
Pressure range 0..25 mbar to 25 bar
- Static Pressure
Static 25 bar for range 0.. 25 to 100 mbar
Static 100 bar for range 0..160 mbar to 25 bar
- Tube Element Shape
Independent diaphragm for differential range

- Filling
Dry or Silicone filled standard
- Operating Temperature
Ambient temperature -20°.. +60°C
Medium temperature 120° C Max.
- Temperature Error
Additional error when pressure element temperature deviates from reference temperature +20°C (+68°F) be $\pm 0.6\%$ / 10°C (50°F) rising or falling
- Dial Graduation
Black graduation on white for single range
Black and red graduation on white for dual ranges
- Optional or Accessories**
 - Electric contact (Dry execution only)
 - Transducer
 - Maximum/memorized pointer
 - Oxygen clean service for O2 media
 - Manifold accessories
 - Special design dial
 - Special higher static pressure
 - SS316 Case and bezel ring
 - Monel wetted parts
 - Hastelloy C276 wetted parts
 - Stainless steel name tag

Design Material

- Casing and Bezel Ring
Stainless steel 304, * SS316
- Pressure Element
SS316 / SS 1.4571
- Differential Measuring Cell
Stainless steel 316
- Movement and Torsion Shaft
Stainless steel 304
- Connection
Stainless steel 316
- Window
Instrument glass standard,
Option Laminated safety glass
- Differential Seal Gasket
NBR (Nitrile rubber) standard
- Pointer
Black painted aluminium, adjustable
- Dial Plate
Aluminium alloy

Ordering Code



BDH dial ^① <Pressure range> ^② Mounting ^③ - Connection ^④ - Filling ^⑤ *Option ^⑥

①	Dial Size
500	100 mm
750	150 mm

③	Mounting
D	Bottom / Direct connection
S	Surface mount with Clamp
P	Panel mount with 3 fixed holes
2	2"pipe mounting (Vertical / Horizontal)

④	Connection size
F4	1/4" NPT Female
G2	G 1/2"
N2	1/2" NPT

②	Single Range	Static Pressure (Bar)	
	Range (Bar)	Standard	*Optional
	0.. 25 mbar	25	100
	0.. 40 mbar	25	100
	0.. 60 mbar	25	100
	0.. 100 mbar	25	100
	0.. 160 mbar	100	200
	0.. 250 mbar	100	200
	0.. 400 mbar	100	200
	0.. 600 mbar	100	200
	0.. 1Bar	100	200
	0.. 1,6Bar	100	200
	0.. 2,5Bar	100	200
	0.. 4Bar	100	200
	0.. 6Bar	100	200
	0.. 10Bar	100	200
	0.. 16Bar	100	200
	0.. 25Bar	100	200

⑤	Filling
D	Dry
S	Silicone filled standard
F	Food compatible liquid filled

⑥	Option
EC	Electric contact (Dry execution only)
MC	Magnetic contact
IC	Inductive contact
PT	Pressure transducer
MP	Maximum/memorized pointer
SG	Laminated safety glass
O2	Oxygen clean service for O2 media
AM	Manifold (Accessories)
SD	Special design dial
SP	Special higher static pressure range
SS	SS 316 case and bezel ring
MN	Monel wetted parts
HC	Hastelloy C276 wetted parts
NT	Stainless steel name plate
CS	Other connection size

BRO THOTERM
GERMANY TECHNOLOGY

* Unit ranges available in kg/cm2, kPa, Psi
Dial available in Single or Dual ranges

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