



BDS Series Stainless Steel Diaphragm Capsule Gauge

Features

- Schaffer mechanical activated diaphragm
- Accuracy Class 1.6
- Liquid free measuring system
- All stainless steel construction design
- Welded body to diaphragm seal
- DIN case, bayonet lock design
- Over pressure up to 30% of Full Scale
- Standard dial dual unit ranges
- Ranges-600..0, 0..10 Mbar up to 25 Bar



Application

BDS Series is a premium low pressure diaphragm gauge, designed for use in low pressure measurement on corrosive and gaseous environment. Applicable for all corrosive liquid or gaseous with high viscosity measuring media and non-crystallized application. With various diaphragm materials selection, BDS series compatible with wide range applications.

Technical Specification

- Nominal Size
100 and 160 mm
- Accuracy Class
Class 1.6
- Ingress Protection
IP 54 (Dry type)
- Connection Size
G 1/2 or NPT, other size on request
- Filling
Dry execution, not fillable
- Tube Element Shape
Laser welded diaphragm element
- Standard Unit Range
Dual ranges : mBar and mmH2O
- Scale Range
0..16 to 0..250 mbar (Diaphragm Ø160mm)
0..400 mbar to 0..25 bar (Diaphragm Ø100mm)
And equivalent to Vacuum and compound range
- Operating Temperature
Ambient temperature -20°.. +60°C
Medium temperature 100°C Max.
- Temperature Error
Additional error when pressure element temperature deviates from reference temperature +20°C (+68°F) be ±0.4% / 10°C (50°F) rising or falling
- Over Pressure Limit
130% of Full Scale
- Dial Graduation
Black graduation on white for single range
Black and red graduation on white for dual ranges



Design Material

- Casing and Bezel Ring
Stainless steel 304
- Diaphragm
Stainless steel 316L
- Connection
Stainless steel 316
- Window
Plain instrument glass
- Diaphragm Sealing
VITON sealing ring
- Pointer
Black painted aluminum
- Dial Plate
Aluminum alloy



Ordering Code



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

①	Dial Size
501	100 mm
751	160 mm

③	Mounting
D	Bottom / Direct connection

④	Connection size
G2	G 1/2"
N2	1/2"NPT
OT	Other connection size
FL	Flanged and type, to DIN, ANSI, etc

⑤	Filling
D	Dry (Not fillable)

⑥	Option
CD	Custom dial layout
SU	Special unit range
O2	Oxygen service cleaning
SG	Laminated safety glass
DM	Other diaphragm material
DM	PTFE wetted part coating
DM	PTFE wetted part lining

② Dial unit ranges standard or single			
MBar	mmH2O	Bar	Psi
-6..+10	-60..+100	-1.0	-30"Hg.. 0
-10..+15	-100..+150	-1.06	-30"Hg.. 8
-15..+25	-150..+250	-1.15	-30"Hg.. 20
-20..+40	-200..+400	-1.3	-30"Hg.. 40
-40..+60	-400..+600	-1.5	-30"Hg.. 70
-60..+100	-600..+1000	-1.9	-30"Hg.. 130
-100..+150	-1000..+1500	-1.15	-30"Hg.. 200
-150..+250	-1500..+2500	-1.24	-30"Hg.. 350
-200..+400	-2000..+4000	0.1	0.15
-600.0	-6000.0	0.16	0.20
-400.0	-4000.0	0.25	0.35
-250.0	-2500.0	0.4	0.60
-160.0	-1600.0	0.6	0.85
-100.0	-1000.0	0.7	0.100
-60.0	-600.0	0.10	0.150
-40.0	-400.0	0.16	0.230
-25.0	-250.0	0.25	0.350
-16.0	-160.0		
-10.0	-100.0		
0.10	0.100		
0.16	0.160		
0.25	0.250		
0.40	0.400		
0.60	0.600		
0.100	0.1000		
0.160	0.1600		
0.250	0.2500		
0.400	0.4000		
0.600	0.6000		