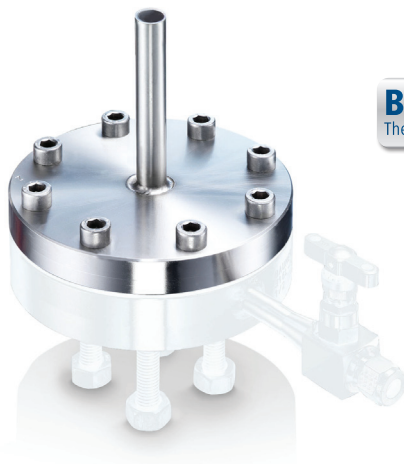




BOURDON
The Original by Baumer

Main Features

- Pressure range from 10 mbar to 100 bar
- Temperature -40 °C to +400 °C
- Stainless steel 1.4404 NACE
- Pressure, level or flow measurement
- Optimized for assembly with transmitters.

Applications

- Oil & Gas / Chemical
- Water / Waste water
- Energy
- Process technic

Technical Data

Measurement ranges	Gauge or differential pressure: 10 mbar min. Absolute pressure: 50 mbar min.
Temperature	-40 °C ... +400 °C
Filling liquids	Special high temperature or vacuum
Capillary	1.5 to 15 m
Connection	Specifically designed for process flanges of the D9x1 and D9x2 series of diaphragm seals
Maximum pressure	In compliance with the pressure/temperature rating of flange class 600, EN 1759-1 for stainless steel 1.4404

Material

Flange	Hot-rolled 1.4404 stainless steel EN10088-3 Compliant with NACE MR 0103 or MR 0175
Diaphragm	Stainless steel (1.4435) or Hastelloy C276 (2.4819) Active diameter 95 mm
Sealing joint	Graphite (included in delivery)
Screws	8 screws, M10 x 35, Stainless steel A4-80 (included in delivery)
Capillary	Length 1.5 - 3 - 4.5 - 6 - 9 - 12 and 15 meters Stainless steel capillary tube and protection White plastic outer sheath UL94V0
Filling liquid	LRS4: -20...60 °C (for oxygen) LRS8: 0...300 °C (for vacuum and absolute pressure) LRS9: -40...400 °C (high temperature oil) Other liquids on request

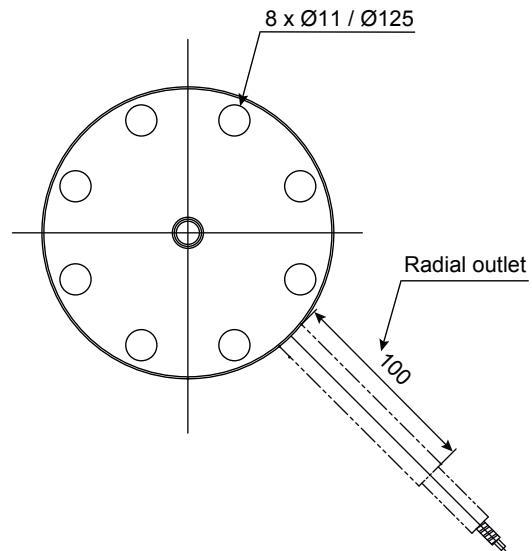
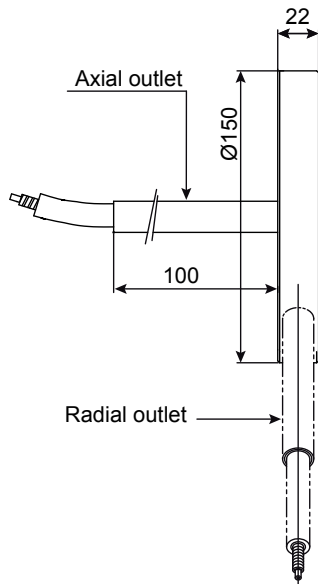
CE conformity

PED 97/23/CE	Article 3.3
ATEX 94/9/CE	Ex II 2 GD c (the associated transmitter must comply with the ATEX zone where it is used).

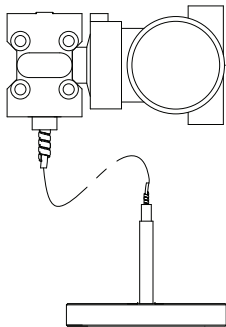
Options

	• 0393 mounting on high pressure side (HP) ¹⁾ • 0385 mounting on low pressure side (LP) ¹⁾ ¹⁾ Only for differential transmitters with : - only 1 seal mounted - 2 different seals mounted on LP and HP side
Capillary	• Capillary with low-temperature controlled electric heat tracing • Decrease in effects of outside temperature : at -40 °C capillary tube temperature over +30 °C at +40 °C capillary tube temperature below +60 °C • Approx. Ø 25 mm heat insulation • Sealed outer sheath
Oxygen application	Option 0765 (filling oil LRS4 imperative)

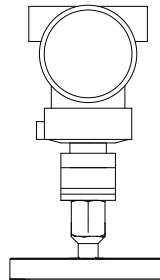
Dimensions (mm)



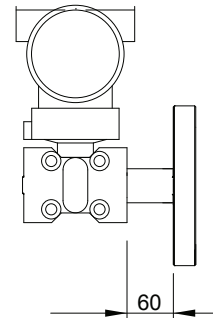
Types of mounting



Mounting with capillary
Fig. 1



Direct mounting with thread
Fig. 2



Direct welded mounting
Fig. 3

Ordering details D910

D910	-			.			.		
Model									
Diaphragm seal for process flanges									
D910	-								
Flange material									
Hot-rolled NACE compliant 1.4404 stainless steel EN10088-3									
									L
Forged NACE compliant 1.4404 st. steel									
									M
Capillary type									
Direct mounting (see Fig. 2 and 3 page 2)									
									1
St. steel tube and protection									
									A
St. steel tube and protection and white plastic ATEX sheath									
									D
St. steel tube and reinforced protection									
									F
St. steel tube and protection, heat-insulated									
									M
St. steel tube and protection, traced/heat-insulated									
									P
Outlet position									
Axial outlet									
									0
Side outlet ⁽¹⁾									
									1
Capillary length									
Without (direct mounting)									
									0
1.5 m									
									E
3 m									
									3
4.5 m									
									F
6 m									
									6
9 m									
									9
12 m									
									D
15 m									
									G
Instrument connection ⁽²⁾									
G1/2 Female (Except Fig. 3)									
									L
1/2NPT Female (Except Fig. 3)									
									N
For ABB 265 DR (D)									
									H
For ABB 265 GR - 265 VS (G)									
									J
For Honeywell STD 1xx and 9xx (D)									
									A
For Honeywell STG 944 and 974 (G)									
									D
For Honeywell STG 140, 170 and 180 (G)									
									E
For Honeywell STA 140 and 940 (A)									
									G
For SIEMENS SITRANS differential (D)									
									7
For SIEMENS SITRANS Gauge/Absolute (G/A)									
									8
For YOKOGAWA EJX110 (low volumes) capsules M, H, V (D)									
									F
For YOKOGAWA EJX430 (low volumes) (G)									
									V
For YOKOGAWA EJX110 (standard flanges) capsules M, H, V (D)									
									P
For YOKOGAWA EJX 310/430 (standard flanges) (A) (G)									
									Q
For YOKOGAWA EJX 440 (standard flanges) (G)									
									W
Filling liquids									
LRS4 (for Oxygen) ⁽³⁾									
									4
LRS8 (vacuum oil)									
									8
LRS9 (high temperature oil)									
									9
Diaphragm material									
St. steel 316L (1.4435)									
									2
Hastelloy C276 (2.4819)									
									6
St. steel 316L (1.4435) (P < 25 mbar)									
									C
Hastelloy C276 (2.4819) (P < 25 mbar)									
									D
Diaphragm coating									
No coating									
									0
Gold 15 µm									
									7

⁽¹⁾ Not for direct mounting

⁽²⁾ Type of transmitter : D=Differential / G=Gauge / A=Absolute

⁽³⁾ LRS4 must be used for option "oxygen cleanliness"