

Main Features

- Pressure range from 10 mbar to 100 bar
- Flange class 150 to 600
- DN15 to DN80
- Temperature -40 °C to +400 °C
- Stainless steel 1.4404 NACE
- Pressure, level or flow measurement
- Mounted on differential, absolute or gauge pressure transmitters.

Applications

- Oil & Gas / Chemical
- Energy

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
Process flange	Class 150 to 600 as per EN1759-1 NPS 1/2" to NPS 3" / DN 15 to DN80 Raised face (B/RF) or ring joint face (J/RTJ) Integrated steam tracing circuit (U): 1/4 NPT inlet/outlet, Ø 8 mm drilling Bolts ASTM A193 B7M A194 2HM Drain/vent valve stainless steel needle valve SW1/4" OD10 or OD3/8"
Maximum pressure	In compliance with the pressure/temperature rating of flange class 600, EN 1759-1 for stainless steel 1.4404

Material

Upper part	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
Capillary	Length 1.5 - 3 - 4.5 - 6 - 9 - 12 and 15 meters Stainless steel capillary tube and protection White plastic outer sheath UL94V0
Process flange	Hot-rolled 1.4404 stainless steel EN10088-3 Compliant with NACE MR 0103 or MR 0175
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

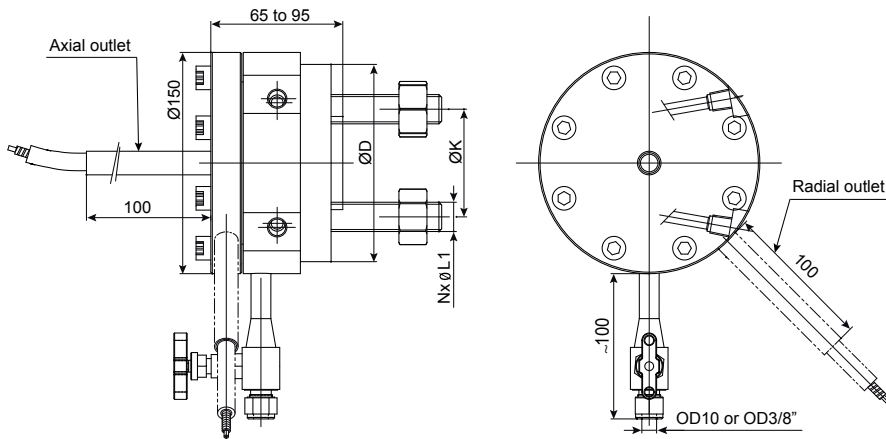
CE conformity

PED 2014/68/EU	Article 4.3
ATEX 2014/34/EU	Ex II 2 GD c (the associated transmitter must comply with the ATEX zone where it is used).

Options

	<ul style="list-style-type: none"> • 0393 mounting on high pressure side (HP) ¹⁾ • 0385 mounting on low pressure side (LP) ¹⁾ <p>¹⁾ Only for differential transmitters with:</p> <ul style="list-style-type: none"> - only 1 seal mounted - 2 different seals mounted on LP and HP side
Capillary	<ul style="list-style-type: none"> • 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)

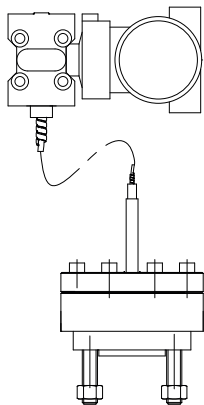


Flange dimensions (mm)

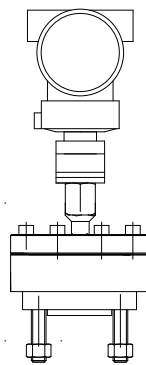
DN	Class	Ø D	Ø K	ØL1 ISO	ØL1 ASME	N	Weight kg	N° GRTJ ⁽¹⁾
15 1/2"	150	89	60.3	M14	1/2 UNC	4	7.8	NA
	300	95	66.7	M14	1/2 UNC	4	8.2	R11
	600	95	66.7	M14	1/2 UNC	4	8.2	R11
20 3/4"	150	99	69.8	M14	1/2 UNC	4	9	NA
	300	117	82.6	M16	5/8 UNC	4	9.4	R13
	600	117	82.6	M16	5/8 UNC	4	9.4	R13
25 1"	150	108	79.4	M14	1/2 UNC	4	9.5	R15
	300	124	88.9	M16	5/8 UNC	4	10.5	R16
	600	124	88.9	M16	5/8 UNC	4	10.5	R16
40 1 1/2"	150	127	98.4	M14	1/2 UNC	4	11	R19
	300	156	114.3	M20	3/4 UNC	4	14	R20
	600	156	114.3	M20	3/4 UNC	4	14	R20
50 2"	150	152	120.6	M16	5/8 UNC	4	13	R22
	300	165	127	M16	5/8 UNC	8	10.2	R23
	600	165	127	M16	5/8 UNC	8	10.2	R23
80 3"	150	190	152.4	M16	5/8 UNC	4	8	R29
	300	210	168.4	M20	3/4 UNC	8	8.8	R31

⁽¹⁾ Number of the RTJ groove in case of RTJ flange on process side. Gasket not supplied.

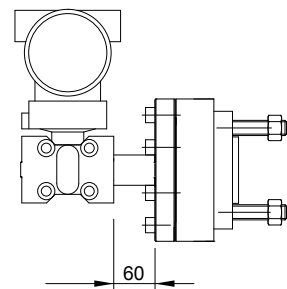
Types of mounting



Mounting with capillary
Fig.1



Direct mounting with thread
Fig.2



Direct welded mounting
Fig.3

Ordering details D912

D912 -	
Model Flanged chemical seals D912	
Top housing material Hot-rolled NACE compliant 1.4404 stainless steel EN10088-3 L Forged NACE compliant 1.4404 st. steel (5) 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 capillary / direct mounting (see Fig. 2 and 3 page 2) 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 820/830/720/730 (D) A For Honeywell STG 740/770 (G) D For Honeywell STG 84x/87x/88x (G) E For Honeywell STA 840/740 (A) G For SIEMENS SITRANS (D) 7 For SIEMENS SITRANS (G) 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 fluorocarbhone oil (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	
	Vent valve 0 None 1 1 SW1/4" OD10 valve 9 1 SW1/4" OD3/8" valve
	Drain valve 0 None 1 1 SW1/4" OD10 valve 9 1 SW1/4" OD3/8" valve
	Heat tracing circuit 0 None 1 With
	Bolts M ISO (metric) (4) A ASME (UNC)
	Process flange face finish 0 Standard finish
	Process flange face type G Raised face (RF) class 150 and 300 R Raised face (RF) class 600 Q Ring joint face (RTJ)
	DN / NPS 2 NPS 1/2" (DN15) 3 NPS 3/4" (DN20) 4 NPS 1" (DN25) 6 NPS 1 1/2" (DN40) 7 NPS 2" (DN50) 9 NPS 3" (DN80)
	PN / Class 1 Class 150 2 Class 300 3 Class 600
	Process flange material L Hot-rolled NACE compliant 1.4404 stainless steel EN10088-3 M Forged NACE compliant 1.4404 st. steel (5)
	Process flange standard 2 ANSI B16-5 6 EN 1759-1 flange
	Diaphragm coating 0 No coating 7 Gold 15 µm

(1) Not for direct mounting
 (2) Type of transmitter: D=Differential / G=Gauge / A=Absolute
 (3) LRS4 must be used for option "oxygen cleanliness"

(4) Except flanges ANSI B16-5
 (5) Mandatory for DN80 (3")