D912
Flanged chemical seals

Main features

- **Pressure range from 10 mbar to 100 bar**
- **Flange class 150 to 600**
- **DN15 to DN50**
- **Temperature -40 °C to +400 °C**
- **Stainless steel 1.4404 NACE**

Applications

Pressure, level or flow measurement.
Mounted on differential, absolute or gauge pressure transmitters.

■ **Process technic**	□ Health care
□ Hydraulic	□ Biotechnology
□ Pneumatic	□ Food
□ Refrigeration	□ Beverage
□ Water treatment	□ Pharmaceutical
□ Car industry	■ **Petro-chemical**
□ Test benches	■ **Chemical**
□ Safety	□ HVAC
□ Aerospace	■ **Energy**
□ Railways	□ Medical gas
□ Shipbuilding	□ Agriculture vehicules
□ Heavy vehicule	□ Pumps and compressors

Main characteristics (20° C)

Measurement ranges	Gauge or differential pressure: min. 10 mbar Absolute pressure: min. 50 mbar
Flanges	EN 1759-1 Class 150 to 600 NPS 1/2" to 2" Stainless steel 1.4404
Temperature	-40 °C ... +400 °C
Filling liquids	Suitable for high temperature or vacuum applications
Capillary	1.5 to 15 m

Ordering details - D912

	D912	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Top housing material																				
Hot-rolled NACE compliant 1.4404 stainless steel EN10088-3 (Table A4)	L																			
Forged NACE compliant 1.4404 stainless steel	M																			
Capillary type																				
Stainless steel capillary tube with stainless steel protection		A																		
Stainless steel capillary tube with stainless steel protection and white plastic ATEX sheath		D																		
Stainless steel capillary tube with reinforced stainless steel protection		F																		
Stainless steel capillary tube with stainless steel heat-insulated protection		M																		
Stainless steel capillary tube with stainless steel traced/heat-insulated protection		P																		
Outlet position																				
Axial outlet			0																	
Side outlet			1																	
Capillary length																				
Length 1.5 m				E																
Length 3 m				3																
Length 4.5 m				F																
Length 6 m				6																
Length 9 m				9																
Length 12 m				D																
Length 15 m				G																
Connection on measuring instrument side																				
Connection for transmitter ABB 265 DR					H															
Connection for transmitter ABB 265 GR - 265 VS					J															
Connection for transmitter BAUMER EDD575					K															
Connection for transmitter BAUMER Flexbar 3501					M															
Connection for transmitter Honeywell STD 1xx and 9xx					A															
Connection for transmitter Honeywell STG 944/974					D															
Connection for transmitter Honeywell STG 140/170/180					E															
Connection for transmitter Honeywell STA 140/940					G															
Connection for transmitter SIEMENS SITRANS Differential					7															
Connection for transmitter SIEMENS SITRANS Gauge/Absolute					8															
Connection for transmitter YOKOGAWA EJX110 (low volumes) capsules M, H, V					F															
Connection for transmitter YOKOGAWA EJX 430 (low volumes)					V															
Connection for transmitter YOKOGAWA EJX 110 (standard flanges) capsules M, H, V					P															
Connection for transmitter YOKOGAWA EJX 310/430 (standard flanges)					Q															
Connection for transmitter YOKOGAWA EJX 440 (standard flanges)					W															
Filling liquids																				
LRS9 high temperature oil						9														
LRS8 vacuum oil						8														
LRS4 fluorocarbone oil [1]						4														
Diaphragm material																				
Stainless steel 316L (1.4435) diaphragm							2													
Hastelloy C276 (2.4819) diaphragm							6													
Stainless steel 316 L (P<25 mbar) diaphragm							C													
Hastelloy C276 (P<25 mbar) diaphragm							D													
Diaphragm coating																				
No coating diaphragm								0												
Diaphragm with 15 µm thick GOLD coating								7												
Flange Standard																				
ANSI B16-5									2											
EN 1759-1 flange									6											
Flange Material																				
Hot-rolled NACE compliant 1.4404 stainless steel EN10088-3 (Table A4)										L										
Forged NACE compliant 1.4404 stainless steel										M										
PN / Class																				
Class 150											1									
Class 300											2									
Class 600											3									
DN / NPS																				
NPS 1/2" (DN15)												2								
NPS 3/4" (DN20)												3								
NPS 1" (DN25)												4								
NPS 1"1/2 (DN40)												6								
NPS 2" (DN50)												7								
Flange Face Type																				
Face raised by 1.6 (RF) (standard machining) class 150-300													G							
6.4 raised face (RF)(standard machining), Class 600													R							
Ring joint face (RTJ), Class 150-300-600 [2]													Q							
Flange Face Finish																				
Standard finish														0						
Bolts																				
ISO (metric) [3]															M					
ASME (UNC)															A					
Heat Tracing Circuit																				
None																0				
With																1				
Drain Valve																				
None																	0			
1 SW1/4" OD10 valve																	1			
1 SW1/4" OD3/8" valve																	9			
Vent																				
None																		0		
1 SW1/4" OD10 valve																		1		
1 SW1/4" OD3/8" valve																		9		

(1) Compulsory for oxygen cleanliness
(2) Except NPS 1/2" and 3/4" class 150
[3] Except flanges ANSI B16-5

Model / type D912

Technical specification

Connecting flange	• Class 150 to 600 as per EN1759-1 NPS ½" to NPS 2" / DN15 to DN50 • Raised face (B/RF type) or ring joint face (J/RTJ type) • Integrated U-shaped steam tracing circuit: ¼NPT inlet / outlet, Ø8 mm drilling • Stainless steel needle drain valve 316L NACE SW¼" OD10 or OD3/8" • Bolts ASTM A193 B7M / A194 2HM
Measuring ranges	• Gauge and differential pressure: minimum 10 mbar • Absolute pressure: minimum 50 mbar
Max. pressure	In compliance with the Pressure/ Temperature/Class 600 ratio of EN 1759-1 for 1.4404 stainless steel

Environment

Process temperature	-40 °C to +400 °C

Material

Top housing	Hot-rolled 1.4404 stainless steel according to EN10088-3 Compliant with NACE 0103 or 0175
Diaphragm	Active diameter 95 mm Stainless steel 1.4435 or Hastelloy C276 (2.4819)
Sealing joint	Graphite
Capillary	• Length 1.5 - 3 - 4.5 - 6 - 9 - 12 and 15 metres • Stainless steel capillary tube and protection • White plastic outer sheath UL94V0
Flange	Hot-rolled 1.4404 stainless steel according to EN10088-3 Compliant with NACE MR 0103 or MR 0175
Filling liquid	• LRS8: 0 °C +300 °C vacuum and absolute pressure oil • LRS9: -40 °C +400 °C high temperature oil • LRS4 : -20 °C +60 °C oxygen use

Options

Diaphragm coating	Gold, 15 µm thickness
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. Ø25 mm heat insulation • Sealed outer sheath
Oxygen cleanliness	Code 0765 (LRS4 filling oil compulsory)

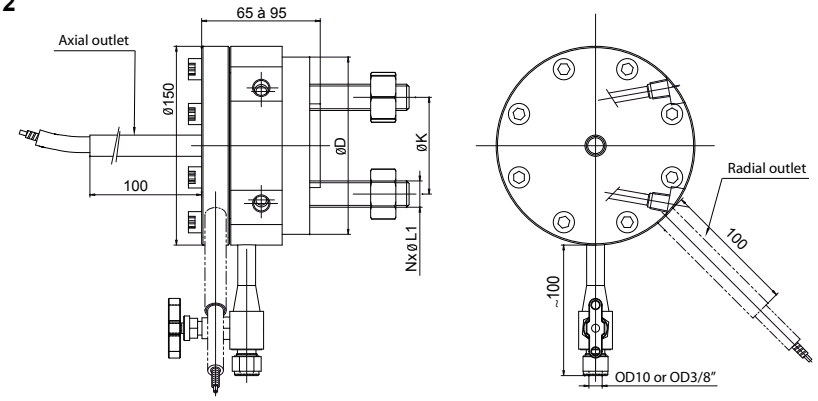
Approvals

CE compliant	Compliant with Pressure Equipment Directive 97/23/CE and ATEX Directive 94/9/CE for II 2 GD c use (the associated transmitter must comply with the ATEX zone where it is used)

Model / type D912

Dimensions (mm), Connections

D912



Flange dimensions

DN	Class	ØD	ØK	ØL1 ISO	ØL1 ASME	N	Weight kg	N° GRTJ
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