



Main Features

- Pressure range from 10 mbar to 420 bar
- Flange class 1500/2500
- NPS 1/2" to 2"
- 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	Suitable for high temperature
Capillary	1.5 to 15 m
Process flange	Class 1500/2500 as per EN1759-1 or ANSI B16-5 NPS 1/2" to NPS 2" / DN15 to DN50 Raised face (B/RF) or ring joint face (J/RTJ) Integrated steam tracing circuit: 1/4 NPT inlet/outlet, Ø 8 mm drilling Bolts ISO (metric) or ASME (UNC) Drain/vent valve Class 1500: stainless steel needle valve SW1/4" OD10 Class 2500: double block needle valve SW1/2" OD12
Maximum pressure	Depending on class, temperature and material (see tables page 2 and page 3)

CE conformity

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

Material

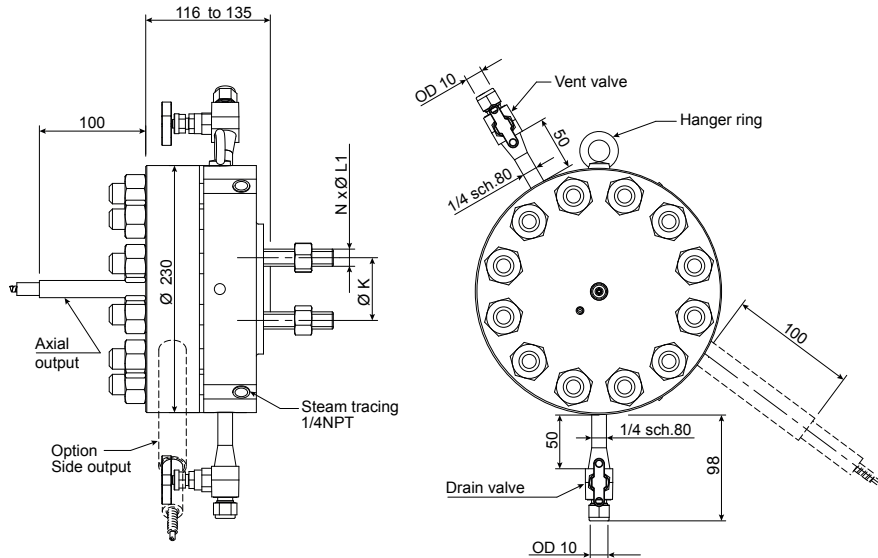
Upper part	Forged Stainless steel 1.4404 EN 10222-5 Compliant with NACE MR 0103 or MR 0175
Diaphragm	Stainless steel (1.4435) or Hastelloy C276 (2.4819) Active diameter 95 mm
Internal Sealing joint	Ring Joint R32 316L <i>The ring joint is also supplied in case of delivery of the chemical seal alone without the process flange.</i>
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	Forged stainless steel 1.4404 EN 10222-5 Compliant with NACE MR 0103 or MR 0175
Bolting	Chemical seal side ASTM A193 B8M cl.2/A194 8M Process side ASTM A193 B7M/A194 2HM
Filling liquid	LRS8: 0...300 °C (for vacuum and absolute pressure) LRS9: -40...400 °C (high temperature oil) Other liquids on request

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 • Reduce influence of environmental temperature • Improve response time for long capillary • 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
Flange material	Please contact Baumer for other material

Dimensions (mm)

D918 class 1500



Flange dimensions (mm)

DN	Class	Ø K	Ø L1 ISO	Ø L1 ASME	N	Weight kg	N° GRTJ ⁽¹⁾
15 1/2"	1500	82.6	M20	3/4" UNC	4	34	R 12
20 3/4"	1500	88.9	M20	3/4" UNC	4	35	R 14
25 1"	1500	101.6	M24	7/8" UNC	4	36	R 16
40 1 1/2"	1500	123.8	M27	1" UNC	4	40	R 20
50 2"	1500	165.1	M24	7/8" UNC	8	44	R 24

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

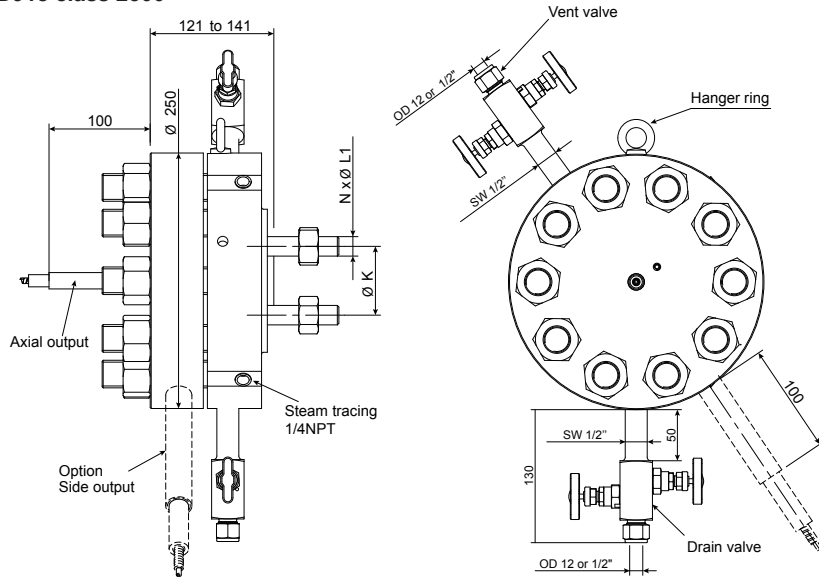
Max pressure (bar) / Temperature / Material / Class 1500

Material	Class	Temperature								
		20°C	50°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C
1.4404 / EN 10222-5	1500#	228	217	199	182	164	152	142	136	130
1.4541 / EN 10222-5	1500#	240	229	211	200	188	176	163	150	150
1.4539 / EN 10272	1500#	250	250	246	228	210	192	174	162	150
1.4462 / EN 10222-5	1500#	250	250	250	236.4	222.2	211.7	-	-	-
1.4410 / EN 10222-5	1500#	250	250	250	250	239.9	227.9	-	-	-
Monel 400 N04440 according to ASME SB-564	1500#	176.1	165	153.2	145	139.8	139.8	139.8	139.8	137.8
Hastelloy N10276 according to ASME SB-564	1500#	250	250	250	243.7	228.3	213.9	201.6	192.3	185.1
ASME SA-350 gr. LF2	1500#	250	250	231.9	226	219.2	208.7	193.6	184.8	172.5

The maximum working pressure can be limited by the characteristics of the piping customer side (standard and class of the flange, material, gasket...)

Dimensions (mm)

D918 class 2500



Flange dimensions (mm)

DN	Class	Ø K	Ø L1 ISO	Ø L1 ASME	N	Weight kg	N° GRTJ ⁽¹⁾
15 1/2"	2500	88.9	M20	3/4" UNC	4	45	R13
20 3/4"	2500	95.2	M20	3/4" UNC	4	46	R16
25 1"	2500	107.9	M24	7/8" UNC	4	50	R18
40 1 1/2"	2500	146.0	M30	1" 1/8 UNC	4	56	R23
50 2"	2500	171.4	M27	1" UNC	8	60	R26

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

Max pressure (bar) / Temperature / Material / Class 2500

Material	Class	Temperature								
		20°C	50°C	100°C	150°C	200°C	250°C	300°C	350°C	400°C
1.4404 / EN 10222-5	2500#	380	362	332	304	274	254	236	226	216
1.4541 / EN 10222-5	2500#	400	382	352	334	314	294	272	260	250
1.4539 / EN 10272	2500#	400	400	400	380	350	320	290	270	250
1.4462 / EN 10222-5	2500#	400	400	400	378.3	355.6	338.7	-	-	-
1.4410 / EN 10222-5	2500#	400	400	400	400	383.8	364.7	-	-	-
Monel 400 N04440 according to ASME SB-564	2500#	294.8	275.1	255.4	233.1	233.1	233.1	233.1	233.1	229.7
Hastelloy N10276 according to ASME SB-564	2500#	400	400	400	400	376.4	352.7	332.4	317.1	305.1
ASME SA-350 gr. LF2	2500#	400	400	386.6	376.9	365.1	347.7	322.7	308	287.5

The maximum working pressure can be limited by the characteristics of the piping customer side (standard and class of the flange, material, gasket...)

Ordering details D918

[illegible]

⁽¹⁾ Type of transmitter : D= Differential / G=Gauge / A=Absolute

(2) To codify chemical seal delivered without the process flange, select codes 0. Ex: D918-MD03F967.0050000000

(3) Except flanges ANSI B16-5

(4) Only class 1500