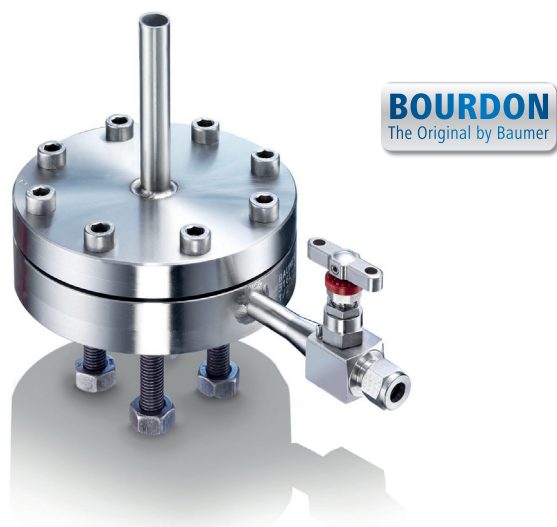




## Main Features

- 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.<br>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<br>NPS 1/2" to NPS 3" / DN 15 to DN80<br>Raised face (B/RF) or ring joint face (J/RTJ)<br>Integrated steam tracing circuit (U): 1/4 NPT inlet/outlet, Ø 8 mm drilling<br>Bolts ASTM A193 B7M A194 2HM<br><b>Drain/vent valve</b><br>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<br>Compliant with NACE MR 0103 or MR 0175                                                                          |
| Diaphragm      | Stainless steel (1.4435) or Hastelloy C276 (2.4819)<br>Active diameter 95 mm                                                                                   |
| Sealing joint  | Graphite                                                                                                                                                       |
| Capillary      | Length 1.5 - 3 - 4.5 - 6 - 9 - 12 and 15 meters<br>Stainless steel capillary tube and protection<br>White plastic outer sheath UL94V0                          |
| Process flange | Hot-rolled 1.4404 stainless steel EN10088-3<br>Compliant with NACE MR 0103 or MR 0175                                                                          |
| Filling liquid | LRS4: -20...60 °C (for oxygen)<br>LRS8: 0...300 °C (for vacuum and absolute pressure)<br>LRS9: -40...400 °C (high temperature oil)<br>Other liquids on request |

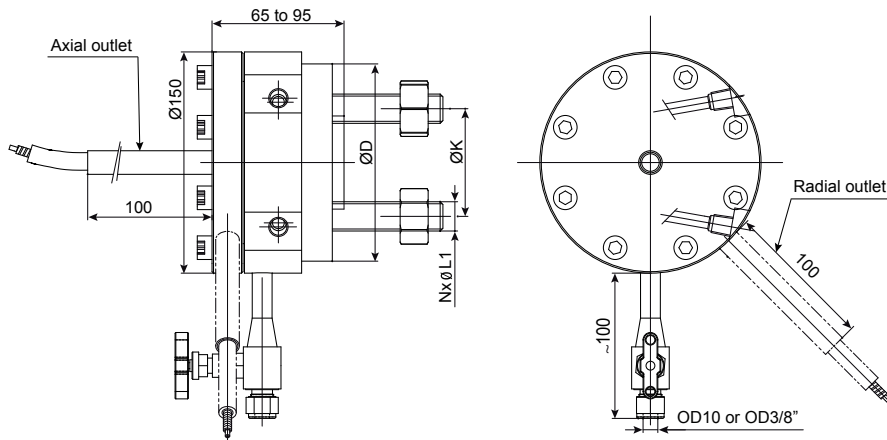
## CE conformity

|                 |                                                                                            |
|-----------------|--------------------------------------------------------------------------------------------|
| 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"> <li>• 0393 mounting on high pressure side (HP) <sup>1)</sup></li> <li>• 0385 mounting on low pressure side (LP) <sup>1)</sup></li> </ul> <p><sup>1)</sup> Only for differential transmitters with:</p> <ul style="list-style-type: none"> <li>- only 1 seal mounted</li> <li>- 2 different seals mounted on LP and HP side</li> </ul>                                                          |
| Capillary          | <ul style="list-style-type: none"> <li>• Capillary with low-temperature controlled electric heat tracing</li> <li>• Decrease in effects of outside temperature:               <ul style="list-style-type: none"> <li>at -40 °C capillary tube temperature over +30 °C</li> <li>at +40 °C capillary tube temperature below +60 °C</li> </ul> </li> <li>• Approx. Ø 25 mm heat insulation</li> <li>• Sealed outer sheath</li> </ul> |
| Oxygen application | Option 0765<br>(filling oil LRS4 imperative)                                                                                                                                                                                                                                                                                                                                                                                      |

## Dimensions (mm)

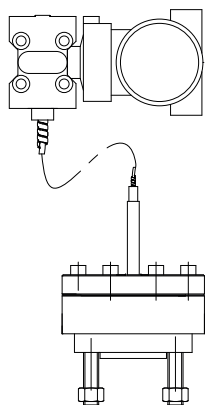


## Flange dimensions (mm)

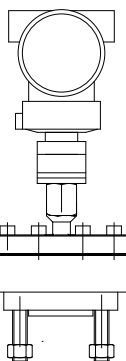
| DN           | Class | Ø D | Ø K   | ØL1 ISO | ØL1 ASME | N | Weight kg | N° GRTJ <sup>(1)</sup> |
|--------------|-------|-----|-------|---------|----------|---|-----------|------------------------|
| 15<br>1/2"   | 150   | 89  | 60.3  | M14     | 1/2 UNC  | 4 | 7.8       | NA                     |
|              | 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<br>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<br>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<br>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<br>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<br>3"     | 150   | 190 | 152.4 | M16     | 5/8 UNC  | 4 | 8         | R29                    |
|              | 300   | 210 | 168.4 | M20     | 3/4 UNC  | 8 | 8.8       | R31                    |

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

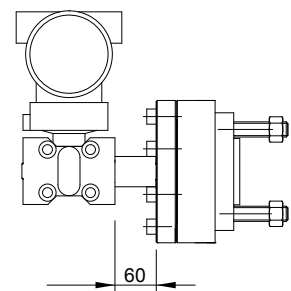
## Types of mounting



Mounting with capillary  
Fig. 1



Direct mounting with thread  
Fig. 2



Direct welded mounting  
Fig. 3

## Ordering details D912

[illegible]

<sup>(1)</sup> 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")