

Pipe Separator Series 1530 Connection A DIN 11887

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|-------------------------------------|--|
| Application | Mounting to Bourdon tube pressure gauges or to pressure transmitters for indirect pressure measurement, specially designed to be connected to fittings used in the food industry. This connection system is also used in other industries. |
| Execution | The pipe separator is inseparably fixed with the pressure measuring instrument to a hydraulic measuring unit, either directly, via a cooling element or via a capillary tube of stainless steel. |
| Type of construction | Pipe separator with internal moulded diaphragm, manufactured by the patented HAENNI procedure. All parts in stainless steel, welded. |
| Connection | "A" with thread socket DIN 11887. For pipes or other fittings mounted to the separator, a cone socket should be used, which is to be fixed to the round thread of the pipe separator by a union nut F DIN 11851 and a gasket G DIN 11851. |
| Temperature of medium | Up to 80°C (1/2 h up to 140°C), other temperature limits (up to 300°C) on request. |
| Hydraulic transmission fluid | Glycerine (standard), others on request. |



Selection chart

| Type | Material ¹⁾ of Separator body | | Material ¹⁾ of Separation element (tube diaphragm) | | Material ¹⁾ of Connecting muff (not in contact with the medium) | | DN ⁽¹⁾ | Ordering code | |
|---|--|------|---|------|--|------|-------------------|---------------|-----------|
| Pipe separator | stainless steel 1.4571 | | stainless steel 1.4435 | | stainless steel 1.4301 | | 15 | 1531 | |
| | | | stainless steel 1.4571 | | stainless steel 1.4435 | | 25 | 1532 | |
| | | | stainless steel 1.4571 | | stainless steel 1.4435 | | 32 | 1537 | |
| | | | stainless steel 1.4571 | | stainless steel 1.4435 | | 40 | 1534 | |
| | | | stainless steel 1.4404 / 1.4435 | | stainless steel 1.4435 | | 50 | 1533 | |
| | | | stainless steel 1.4571 | | stainless steel 1.4435 | | 65 | 1536 | |
| | | | stainless steel 1.4571 | | stainless steel 1.4435 | | 80 | 1535 | |
| | | | stainless steel 1.4571 | | stainless steel 1.4435 | | 100 | 1539 | |
| Capillary tube 1.4571 | Length [m] | 0.5 | 1 | 1.5 | 2 | 2.5 | 3 | 3.5 | |
| | Ordering code | 1205 | 1210 | 1215 | 1220 | 1225 | 1230 | 1235 | |
| Additional metallic protection hose for capillary tube | | | | | | | | | 1299 |
| Temperature of medium (e.g. 100°C) | | | | | | | | | 9007/0100 |
| Ordering example: DRO 100/411.133/075 / 1533 / 1215 / 1299 / 9007/0100 | | | | | | | | | |
| | | | | | | | | | |

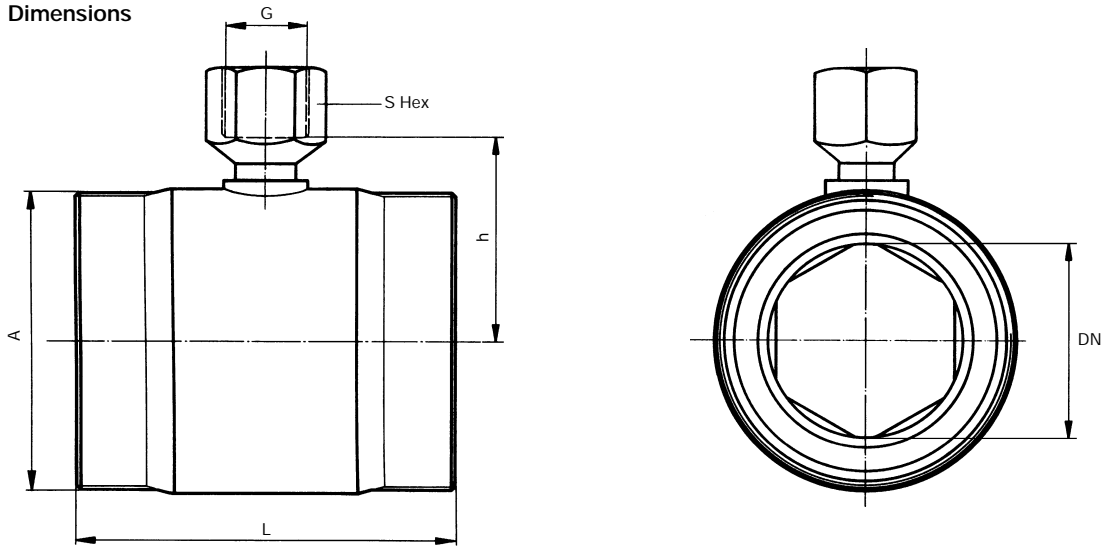
¹⁾ Other materials and diameters on request

Construction and Function

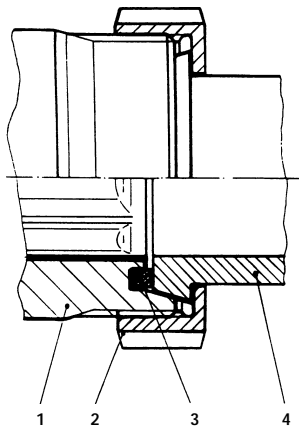
The separator body is produced from one piece. This construction guarantees absolute safety, even at higher pressures in the pipe system. Additionally acting forces and bending moments are mastered as far as permitted by the fittings used on site (union nut and pipe with cone socket and gasket). The tubular diaphragm, longitudinal in flow direction, is welded at both ends to the separator body and has a square-, hexagonal- or octangular profile (depending on DN). The pipe separator transmits the pressure of fluids flowing in pipes. Dead-zone-free transitions to the connection fittings and the optimal-flow design prevent the formation of deposits and make inline-sterilization possible without dismantling the separator from the pipe system. The separator shape does not cause considerable cross-section reduction.

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Dimensions



Connection example



- 1 Separator body
- 2 Union nut F DIN 11851 ¹⁾
- 3 Gasket G DIN 11851 ¹⁾
- 4 Pipe with cone socket fitting ¹⁾

Dimension chart

| DN | A | L [mm] | h [mm] | G | S [mm] | Weight kg | Inner shape |
|-----|--------------|--------|--------|-------|--------|-----------|-------------|
| 15 | Rd 34 x 1/8 | 130 | 28 | G 1/4 | 17 | 0.8 | 4-sided |
| 25 | Rd 52 x 1/6 | 130 | 39 | G 1/2 | 27 | 1.7 | 6-sided |
| 32 | Rd 58 x 1/6 | 130 | 41 | G 1/2 | 27 | 2.0 | 6-sided |
| 40 | Rd 65 x 1/6 | 120 | 51 | G 1/2 | 27 | 2.2 | 6-sided |
| 50 | Rd 78 x 1/6 | 100 | 51 | G 1/2 | 27 | 2.3 | 6-sided |
| 65 | Rd 95 x 1/6 | 100 | 60 | G 1/2 | 27 | 3.0 | 8-sided |
| 80 | Rd 110 x 1/4 | 100 | 68 | G 1/2 | 27 | 3.4 | 8-sided |
| 100 | Rd 130 x 1/4 | 100 | 78 | G 1/2 | 27 | 4.0 | 8-sided |

Pressure ranges (directive values)

| Mounting to pressure gauge or pressure transmitter | | NS 63 | NS 80 | NS 100 | NS 160 | ED 518 |
|--|-----|---------------|----------|----------|----------|---------------|
| Pressure ranges [bar] with nominal size DN | 15 | 1.6...40 | 1.6...40 | 2.5...40 | - | ³⁾ |
| | 25 | ²⁾ | 1.6...40 | 2.5...40 | - | |
| | 32 | ²⁾ | 1.6...40 | 2.5...40 | - | |
| | 40 | ²⁾ | 1.6...40 | 2.5...40 | 4...40 | |
| | 50 | - | 1.6...40 | 1.6...40 | 1.6...40 | |
| | 65 | - | - | 1.6...40 | 1.6...40 | |
| | 80 | - | - | 1.6...40 | 1.6...40 | |
| | 100 | - | - | 1.6...40 | 1.6...40 | |

¹⁾ Not included in delivery.

²⁾ Only possible with transition piece with G 1/4 inside / G 1/2 outside.

³⁾ On request: Electronic pressure transmitters can be used for pressure ≥ 250 mbar without impairing the accuracy. Please fill in page D1.201 so that we can properly assess your needs.