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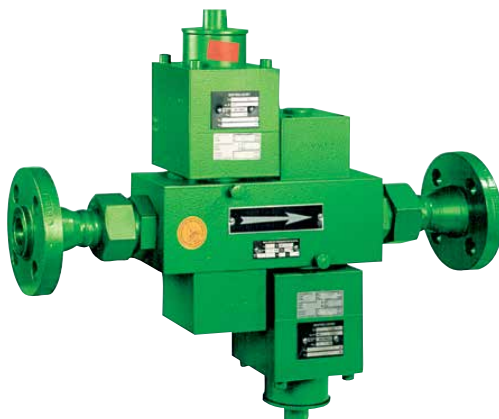
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ПРЕДОХРАНИТЕЛЬНЫЕ КЛАПАНЫ

Технические характеристики на

НОН 703, НОН 704



Safety Shut-Off Valve HON 703 / HON 704

Applications, characteristics, technical data

Applications

- Main safety device in gas pressure regulating systems in municipal consumers, industrial stations and for individual consumers
- Also suitable for low-load rails in larger gas pressure control systems
- can be used for natural gas and all non-aggressive gases

Characteristics

- HON 703: two independent safety shut-off devices in one valve body (tandem SSV)
- HON 704: Single SS
- Compact and simple construction
- Easy to maintain thanks to exchangeable functional groups (plug-in assembly)
- Optional equipment with control devices K 1a, K 2a, K 16, K 17, K 18
- Pressure equalisation via ball valve or push button valve HON 913

| TECHNICAL DATA | |
|--|--|
| Max. operating pressure p _{max} : | up to 100 bar (depending on connection type) |
| Valve seat diameter | 25 mm |
| Type of connection | Inlet/outlet: Screwed pipe connection without brazing according to DIN 2353, PN 100 for outside pipe diameter 10, 12, 16, 18, 22, 25, 28, 38 and 42 mm Flange according to DIN PN 25 and PN 40, ANSI 300 and 600 with transition pieces having nominal widths DN 25, 40 and 50 |
| Material | Valve body Aluminium alloy or steel Control device Aluminium alloy housing Internal parts Stainless steel, brass, Diaphragms, seals steel NBR (rubber-like plastic) |
| Temperature range class 2 | – 20 °C to +60 °C |
| Response time | 0.1 – 0.3 sec |
| Supplemental fixture | – Electrical release with application of current – Electrical position indicator – Manual release – Screw-in port for combination with HON 200 (E 42) and HON 201 (E 18) |
| Function and strength | DIN EN 14382 (DIN 3381) |
| DIN DVGW registration no. | HON 703: NG-4303AN0197, HON 704: NG-4303AN0196 |

Safety Shut-Off Valve HON 703 / HON 704

Applications, characteristics, technical data

| ADJUSTMENT RANGE OF CONTROL DEVICES | | | | | | | | |
|-------------------------------------|-----------------|------------|--------------|--------------------------|--|--------------------------|--|------------------|
| Control device | Setpoint spring | | | Overpressure | | Underpressure | | Accuracy group** |
| | No. | Colour | Wire ø in mm | Special adjustment range | Min. re-engage differential between response pressure and normal operating pressure* | Special adjustment range | Min. re-engage differential between response pressure and normal operating pressure* | |
| | | | | W _{dso} (bar) | Δp _{wo} (bar) | W _{dsu} (bar) | Δp _{wu} (bar) | |
| K1a | 1 | yellow | 2.5 | 0.050 – 0.100 | 0.030 | | | 10/5 |
| | 2 | light red | 3.2 | 0.100 – 0.250 | 0.050 | | | 10/5 |
| | 3 | dark red | 3.6 | 0.200 – 0.500 | 0.100 | | | 5/2.5 |
| | 4 | white | 4.75 | 0.400 – 1.500 | 0.250 | | | 5/2.5 |
| | 5 | light blue | 1.1 | | | 0.010 – 0.015 | 0.012 | 15 |
| | 6 | white | 1.2 | | | 0.014 – 0.040 | 0.030 | 15/5 |
| | 7 | black | 1.4 | | | 0.035 – 0.120 | 0.060 | 5 |
| K2a | 1 | light red | 3.2 | 0.400 – 0.800 | 0.100 | | | 10/5 |
| | 2 | dark red | 3.6 | 0.800 – 1.600 | 0.200 | | | 10/5 |
| | 3 | white | 4.75 | 1.500 – 4.500 | 0.300 | | | 5/2.5 |
| | 4 | light blue | 1.1 | | | 0.060 – 0.150 | 0.050 | 15/5 |
| | 5 | black | 1.4 | | | 0.120 – 0.400 | 0.080 | 5 |
| K16 | 0 | blue | 3.2 | 0.800 – 1.500 | 0.100 | | | 2.5 |
| | 1 | black | 4.5 | 1.000 – 5.000 | 0.200 | | | 2.5/1 |
| | 2 | grey | 5.0 | 2.000 – 10.00 | 0.400 | | | 1 |
| | 3 | brown | 6.3 | 5.000 – 20.00 | 0.800 | | | 1 |
| | 4 | red | 7.0 | 10.00 – 40.00 | 1.200 | | | 1 |
| K17 | 2 | grey | 5.0 | | | 2.000 – 10.00 | 0.400 | 5 |
| | 3 | brown | 6.3 | | | 5.000 – 20.00 | 0.800 | 5 |
| | 4 | red | 7.0 | | | 10.00 – 40.00 | 1.200 | 5 |
| K18 | 1 | | 9.0 | 20.00 – 90.00 | 1.500 | | | 1 |

*) Please note: When using control units for both overpressure and underpressure release, the difference between the two setpoints p_{so} and p_{su} must be at least 10 % greater than the sum of the re-engagement differences Δp_{wo} and Δp_{wu}.

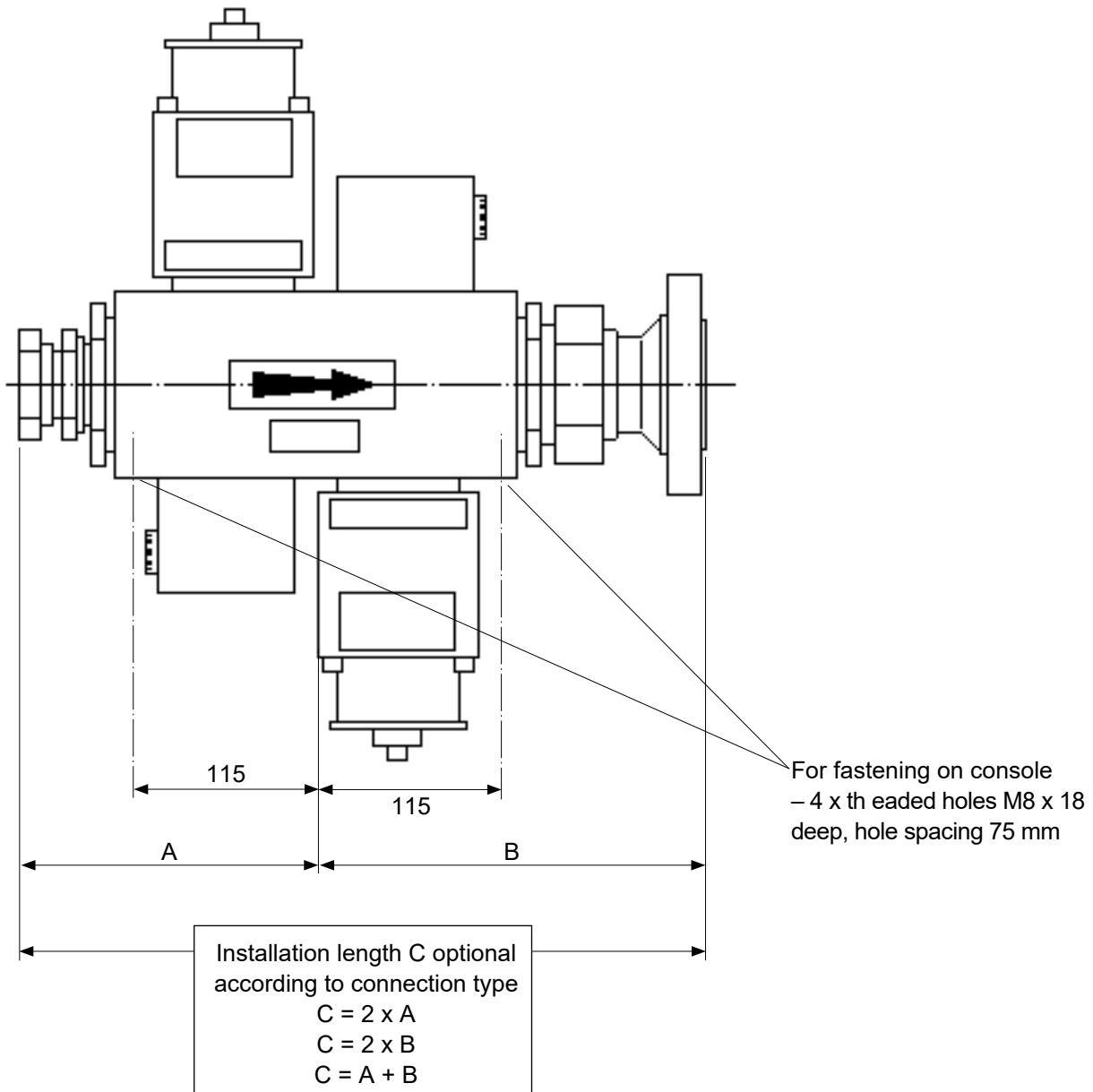
$$p_{dso} - p_{dsu} \geq 1.1 (\Delta p_{wo} + \Delta p_{wu})$$

**) The higher accuracy group (AG) applies for the first half, the lower accuracy group applies for the second half of the setting range.

Safety Shut-Off Valve HON 703 / HON 704

Dimensions

HON 703 dimensions



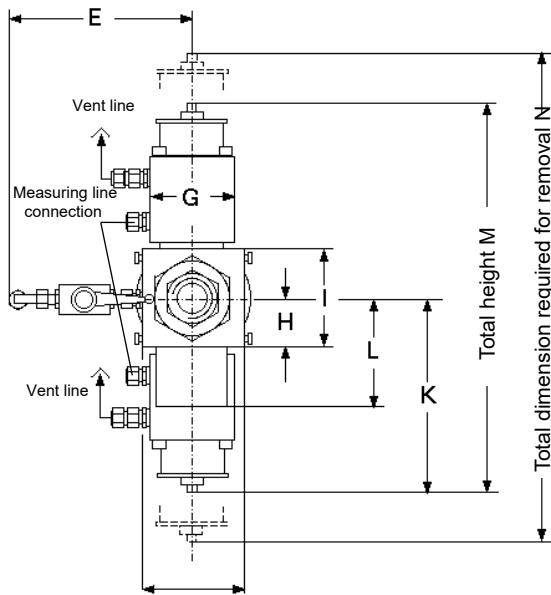
| CONNECTIONS | | | | | | |
|--------------------|----------------|----------|---------------------|---------|-------|-------|
| Pipe connection A* | | | Flange connection B | | | |
| Description | Pipe dimension | A in mm. | Pressure stage | B in mm | | |
| | | | | DN 25 | DN 40 | DN 50 |
| E 10 | 10 x 1.5 | 168 | PN 25 and PN 40 | 236 | 236 | 236 |
| E 12 | 12 x 1.5 | 164 | | | | |
| E 16 | 16 x 1.5 | 174 | | | | |
| E 18 | 18 x 1.5 | 168 | ANSI 300 RF / RJ | 261 | 260 | 266 |
| E 22 | 22 x 2 | 170 | | | | |
| E 25 | 25 x 3 | 184 | | | | |
| E 28 | 28 x 2 | 171 | ANSI 600 RF / RJ | 261 | 266 | 266 |
| E 38 | 38 x 5 | 178 | | | | |
| E 42 | 42 x 3 | 163 | | | | |

* pipe screw connection without brazing with compression joint according to DIN 2353

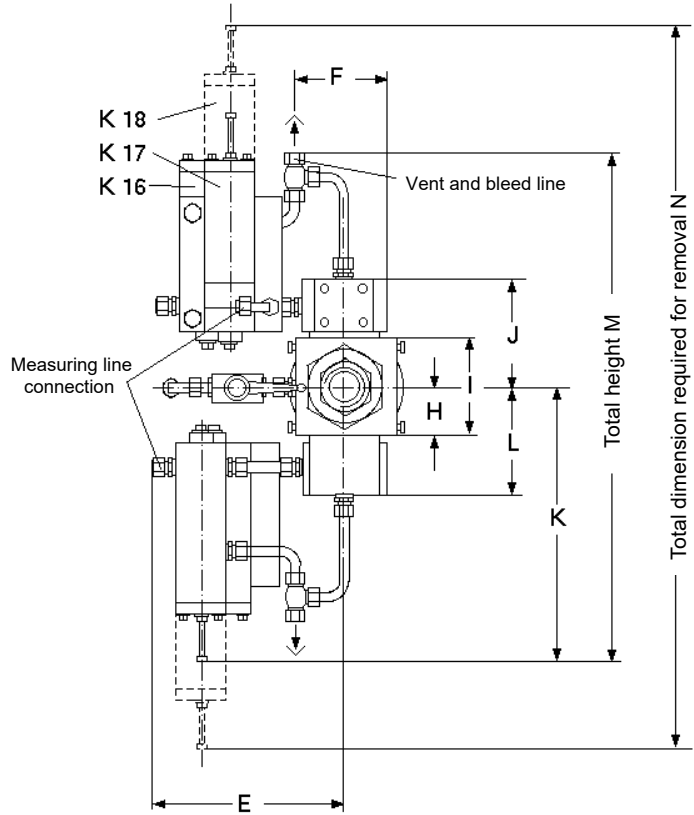
Safety Shut-Off Valve HON 703 / HON 704

Dimensions

Version with control device K1a / K2a



Version with control device K16/K17/K18



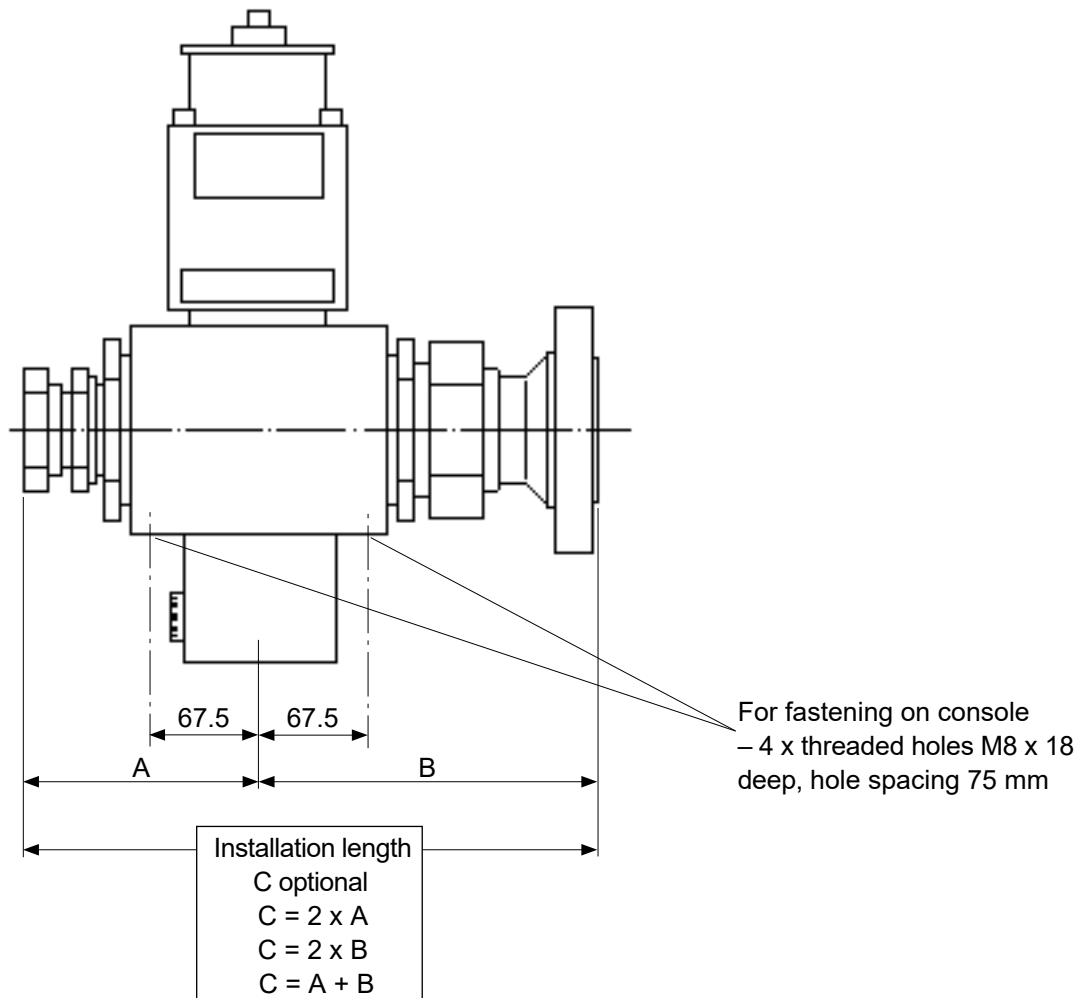
| DIMENSIONS | | | | | | | | | | |
|---------------------------------------|-------------------------|----|-----|----|--------------------------------------|-----|-----|-----|-----|-----|
| SSV version with control device | Device dimensions in mm | | | | | | | | | |
| | E | F | G | H | I | J | K | L | M | N |
| K1a/K2a | 215 | 90 | 100 | 40 | 90 | – | 215 | 105 | 430 | 460 |
| K16/K17 | 215 | 90 | – | 40 | 90 | 110 | 265 | 105 | 490 | 520 |
| K18 | 260 | 90 | – | 40 | 90 | 110 | 430 | 105 | 860 | 890 |
| CONNECTING LINES | | | | | | | | | | |
| Measuring, vent and discharge lines | | | | | Screw connection * for pipe 12 x 1.5 | | | | | |

* pipe screw connection without brazing with compression joint according to DIN 2353

Safety Shut-Off Valve HON 703 / HON 704

Dimensions

HON 704 dimensions

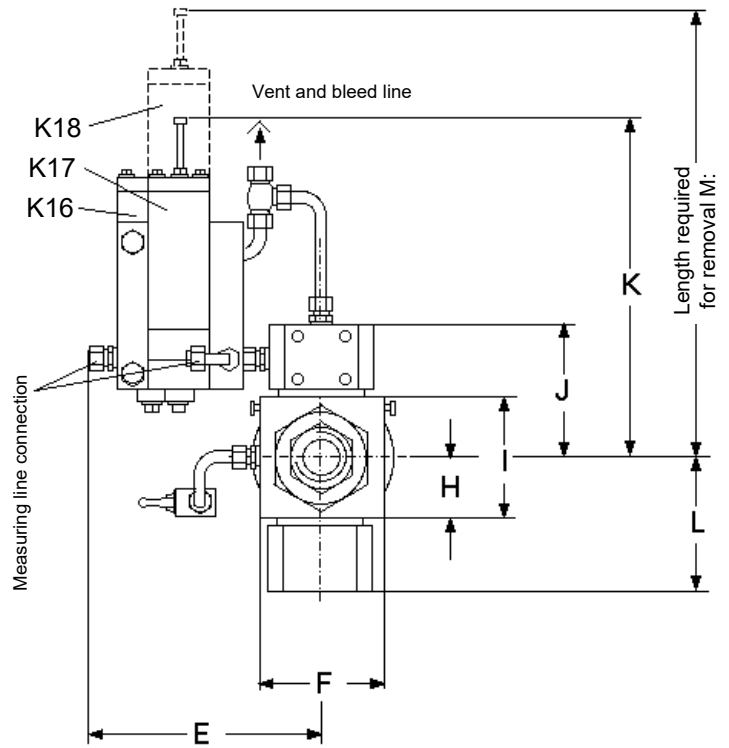
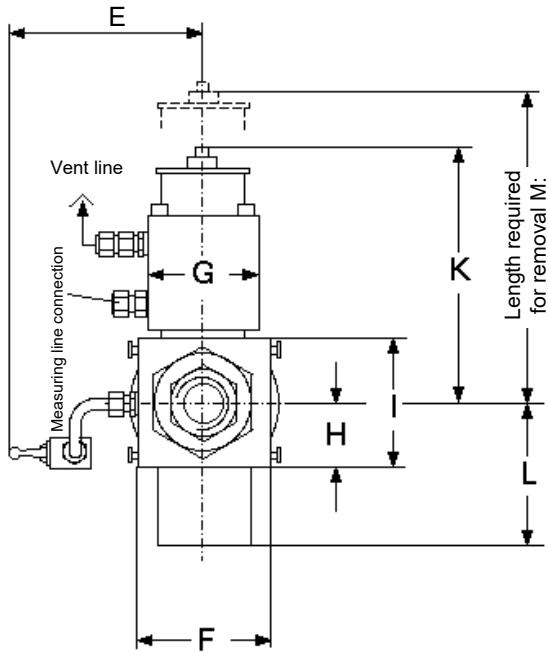


| CONNECTIONS | | | | | | |
|--------------------|----------------|----------|---------------------|---------|-------|-------|
| Pipe connection A* | | | Flange connection B | | | |
| Description | Pipe dimension | A in mm. | Pressure stage | B in mm | | |
| | | | | DN 25 | DN 40 | DN 50 |
| E 10 | 10 x 1.5 | 120 | PN 25 and PN 40 | 188 | 188 | 188 |
| E 12 | 12 x 1.5 | 116 | | | | |
| E 16 | 16 x 1.5 | 126 | | | | |
| E 18 | 18 x 1.5 | 120 | | | | |
| E 22 | 22 x 2 | 122 | ANSI 300 RF / RJ | 213 | 212 | 218 |
| E 25 | 25 x 3 | 136 | | | | |
| E 28 | 28 x 2 | 123 | | | | |
| E 38 | 38 x 5 | 130 | ANSI 600 RF / RJ | 213 | 218 | 218 |
| E 42 | 42 x 3 | 115 | | | | |

* ipe screw connection without brazing with compression joint according to DIN 2353

Ausführung mit Kontrollgerät K1a / K2a

Version with control device K16/K17/K18

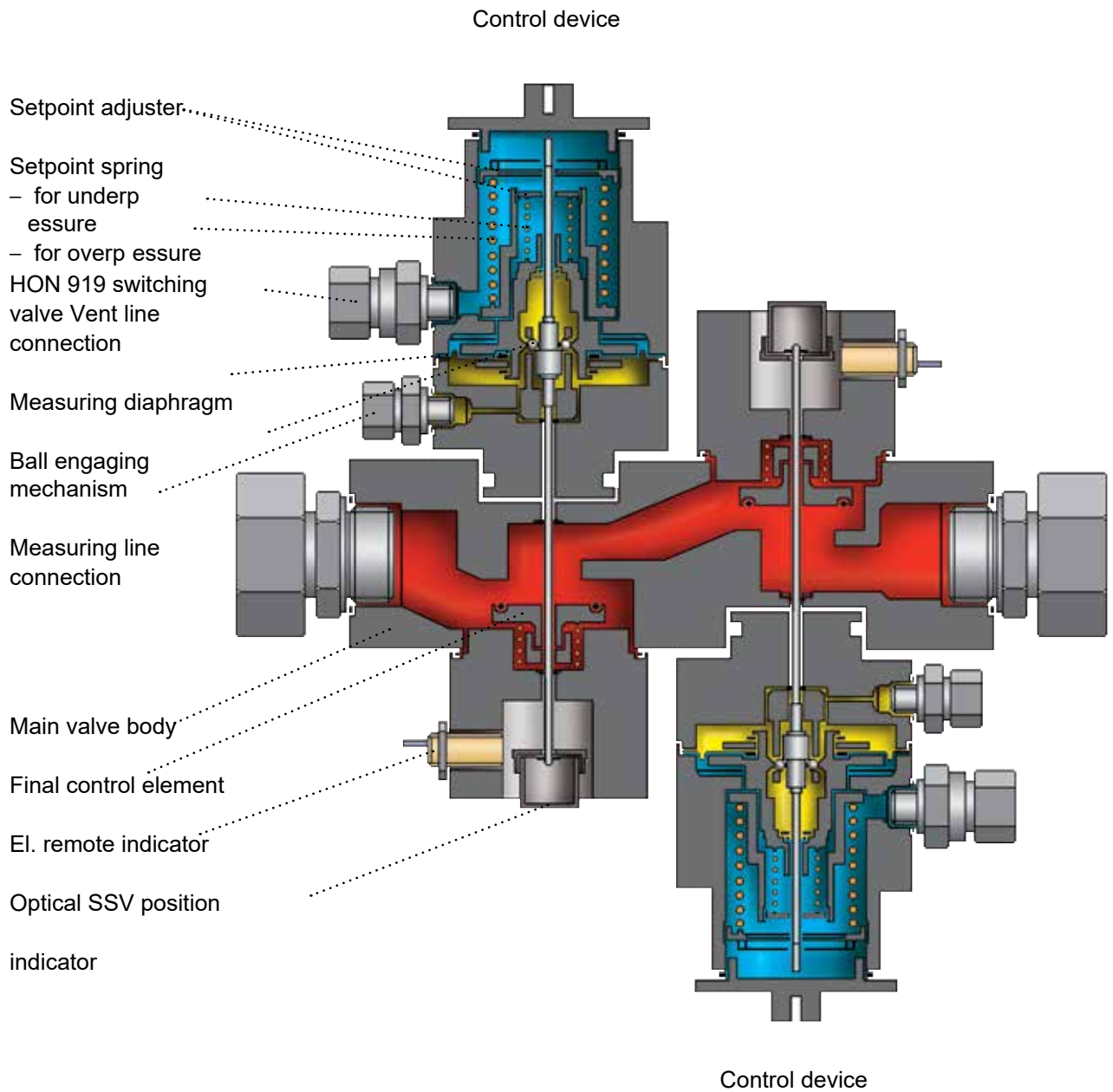


| DIMENSIONS | | | | | | | | | | |
|---------------------------------------|-------------------------|----|-----|----|----|-----|-----|-----|-----|-----|
| SSV version with control device | Device dimensions in mm | | | | | | | | | |
| | E | F | G | H | I | J | K | L | M | N |
| K1a / K2a | 215 | 90 | 100 | 40 | 90 | – | 215 | 105 | 230 | 460 |
| K16 / K17 | 215 | 90 | – | 40 | 90 | 110 | 245 | 105 | 265 | 520 |
| K18 | 260 | 90 | – | 40 | 90 | 110 | 430 | 105 | 445 | 890 |

| CONNECTING LINES | |
|-------------------------------------|--------------------------------------|
| Measuring, vent and discharge lines | Screw connection * for pipe 12 x 1.5 |

* ipe screw connection without brazing with compression joint according to DIN 2353

Safety Shut-Off Valve HON 703 / HON 704
Construction and mode of operation



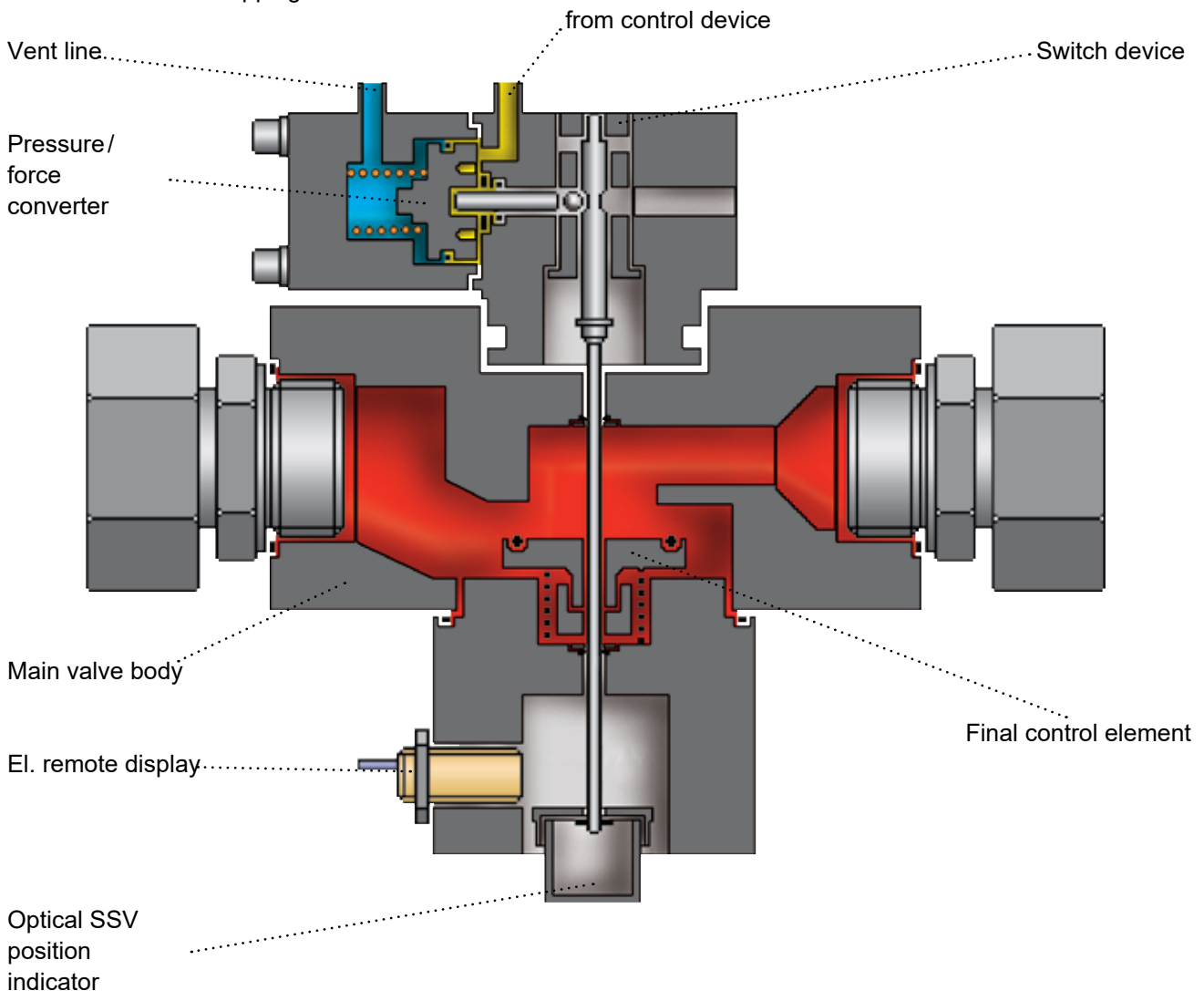
Safety Shut-Off Valve HON 703 / HON 704

Construction and mode of operation

Mode of operation with control device HON 670/671 (K16, K17, K 18)

The pressure of the system to be safeguarded is routed to the top side of the sensitive double diaphragm system via a measuring line, and compared with the setpoint value specified through the setpoint adjustment screw (force of the setpoint spring). In normal operating status the amplifier valve is closed. If with the HON 670, the upper response pressure is reached, or if with the HON 671 the lower response pressure is reached, the amplifier valve opens. Gas flows out of the system to be monitored to the force/pressure converter. The piston in the force/pressure converter is moved and triggers the switch device of the SSV via the piston rod; the safety shut-off valve closes. If the cause for the triggering of the SSV is eliminated and if the pressure to be monitored has been undercut (for upper triggering, HON 670), or exceeded (for lower triggering, HON 671), the specified setpoint, the amplifier valve closes. The pressure upstream of the piston of the actuator dissipates via the restrictor integrated in the control device, and the safety shut-off valve can be reopened. The HON 670 control device also satisfies the requirement that the safety shut-off valve should trigger if the measuring diaphragm breaks: The outlet pressure to be monitored is applied on the top side of the double membrane system. A defect in this upper diaphragm of the double membrane system causes the outlet pressure to be further routed directly to the pressure/force converter and thus cause the triggering of the SSV.

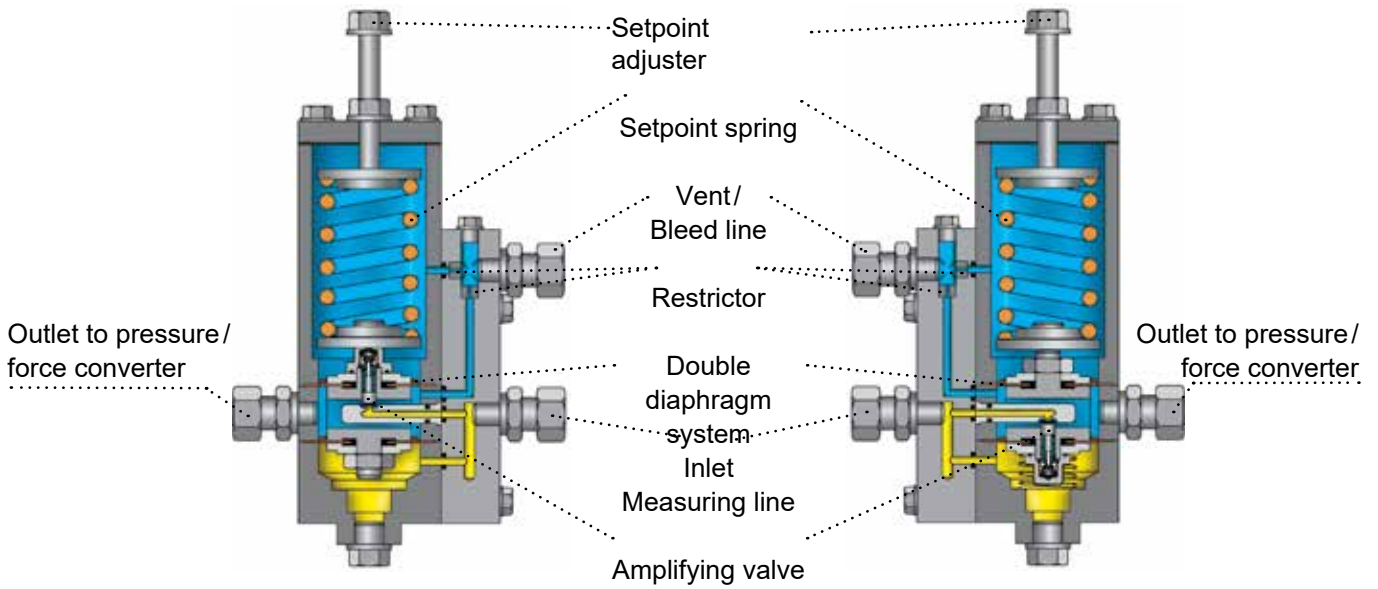
SAV HON 704 with tripping device



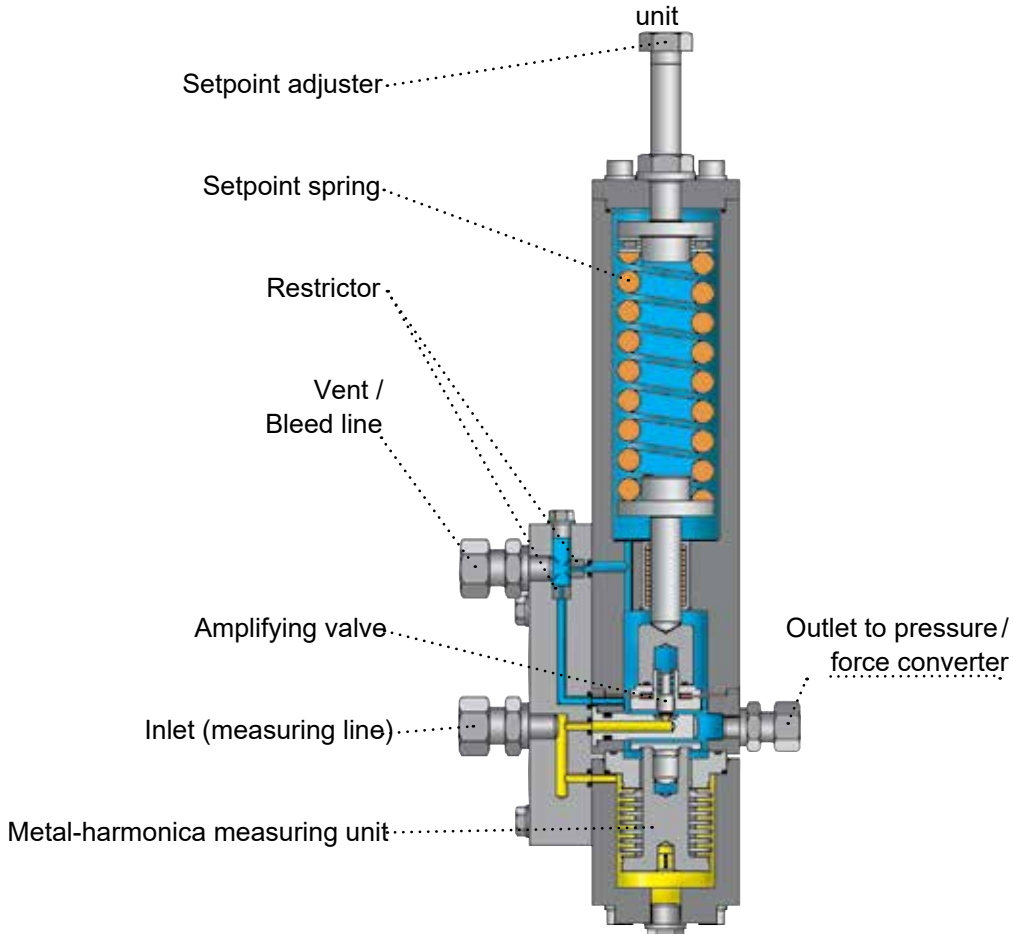
Safety Shut-Off Valve HON 703 / HON 704
Construction and mode of operation

Control device HON 670 K16
for upper setting range

Control device HON 670 K17
for lower setting range



Control device HON 670 K18
for upper setting range with metal bellows measuring unit



Safety Shut-Off Valve HON 703 / HON 704

Device designation

Example

HON 703 - E18 / DN 25 - K 16 - HA - E1 - F - So

| DEVICE TYPE | | Type |
|---|---------------------|---|
| Tandem SSV | HON 703 | Type |
| Single SSV | HON 704 | |
| INLET AND OUTLET CONNECTIONS | | |
| Pipe connection | E 10 | Inlet connection |
| | E 12 | |
| | E 16 | |
| | E 18 | |
| | E 22 | |
| | E 25 | |
| | E 28 | |
| | E 38 | |
| Flange connection | E 42 | Outlet connection |
| | DN 25 | |
| | DN 40 | |
| | DN 50 | |
| SSV SETTING RANGE | | |
| Upper setting range | Lower setting range | |
| W_{ho} [bar] | W_{hu} [bar] | |
| 0.05 – 1.5 | 0.01 – 0.12 | K 1a |
| 0.40 – 4.5 | 0.60 – 0.40 | K 2a |
| 0.80 – 40 | | K 16 |
| | | K 17 |
| 0.80 – 40 | 2.00 – 40.0 | K 16 / K 17 |
| 20.0 – 90 | 2.00 – 40.0 | K 18 |
| SUPPLEMENTAL FIXTURE | | |
| Electrical triggering with application of current | E1 | Supplemental fixture |
| Manual release button | HA | |
| Electrical position indicator | F | Remote indication |
| Special design (must be explained in more detail) | So | |
| | | Special design (must be explained in more detail) |

Note:

With the HON 703 tandem safety shut-off valve, it must be observed that both SSV control devices are basically equipped with the same control devices and supplemental fixtures. Special versions differ.

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