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РЕГУЛЯТОРЫ ДАВЛЕНИЯ

Технические характеристики на HON 652



Regulator HON 652

Application, feature, technical data

Application


- For inlet pressure control
- 2-stage regulator with auxiliary pressure and control stage in a modular system
- Equipped with inlet pressure and auxiliary pressure manometers, as well as an upstream fine filter HON 905
- Can be used for gases according to DVGW worksheet G 260 and neutral, non-aggressive gases, other gases on request

characteristic

- Easy to use and monitor
- Adjustment of the auxiliary pressure above the outlet pressure
- Wide inlet pressure and differential pressure range
- Changing the input pressure range by simply changing the spring
- Largely identical components for the auxiliary pressure and control stages
- Remote electrical setpoint adjustment possible

The device-specific operating instructions, maintenance instructions, spare parts drawings and lists can be found in the "Operating and maintenance instructions / spare parts list 652.20" brochure.

Technical data

| | | | | |
|--|--|--------------|----------------|-------------------------------|
| max. permissible pressure Ps | 100 bar | | | |
| max. inlet pressure pumax | 100 bar | | | |
| Management area Wd | 0.3 bar to 90 bar | | | |
| specific leadership area Wds | Spring no. | Wire Ø in mm | Color coding | Wds in cash |
| automatic auxiliary pressure stage | | 5 | green | 0.5 to 10 automatic via pd |
| specific leadership area Wds | Spring no. | Wire Ø in mm | Color coding | Wds in cash |
| Control stage with membrane measuring mechanism | 0 | 4.5 | black | 0.3 to 1** |
| | 1 | 3.6 | blue | 0.5 to 2 |
| | 2 | 4.5 | black | 1 to 5 |
| | 3 | 5 | Gray | 2 to 10 |
| | 4 | 6.3 | brown | 5 to 20 |
| | 5 | 7 | red | 10 to 40 |
| Control stage with metal bellows measuring mechanism | 6 | □ 8/7* 9 | green white | 10 to 50 20 to 90 |
| | 7 | | | |
| Line connection | Pipe fitting with cutting ring DIN EN ISO 8434-1 (DIN 2353) | | | |
| Weight | approx. 5 kg | | | |
| material | Functionally important parts made of stainless steel, other parts made of corrosion-resistant aluminum alloy. | | | |
| Fine filter | HON 905 (see technical product information HON 905) | | | |
| Temperature range class 2 | - 20°C to +60°C | | | |
| Function and strength | according to DIN EN 334 | | | |
| CE mark according to PeD with honeywell devices (GDR) The controller is part of these devices. |  | | | |
| ATEX | The mechanical components of the device do not have any potential ignition sources of their own and therefore do not fall within the scope of ATEX 95 (94/9/EC). Electrical components used on the device meet | | | |

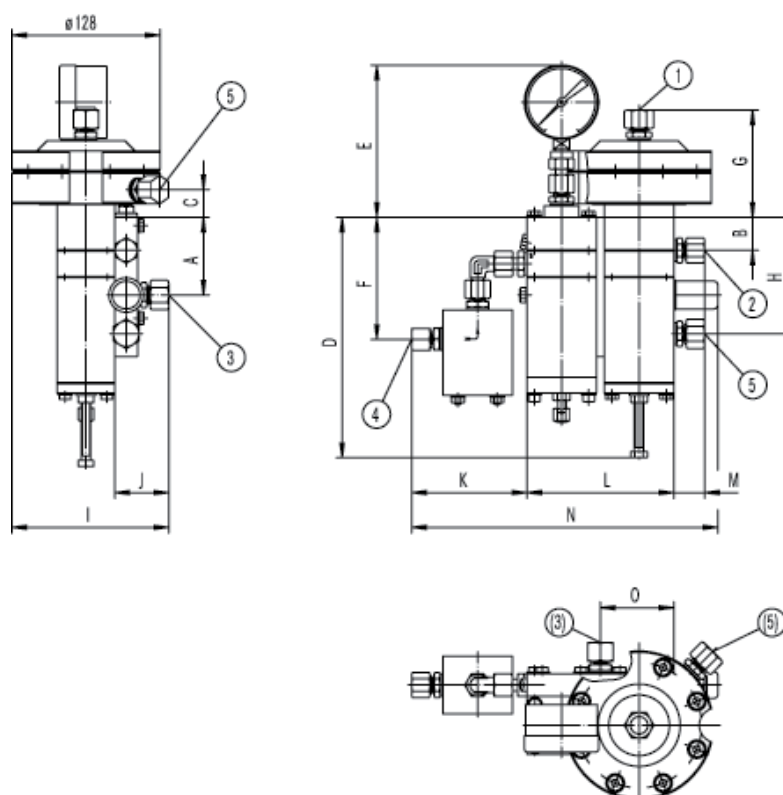
dimension

| DIMENSIONS in MM | | | | | | | | | | | | | | | | |
|---------------------------|----|----|-----|-----|-----|-----|----|-----|-----|----|-----|-----|----|-----|----|----|
| | A | b | C | D | E | F | G | H | I | J | K | L | M | N | O | P |
| Wu = 0.3 to 1 bar | 67 | 29 | 24 | 207 | 132 | 107 | 95 | 101 | 136 | 47 | 100 | 127 | 27 | 265 | 64 | - |
| Wu = 0.5 to 40 bar | 67 | 27 | 180 | 190 | 132 | 107 | 53 | 101 | 97 | 47 | 100 | 127 | 27 | 265 | 64 | 26 |
| Wu = 20 to 90 bar | 67 | 29 | 207 | 315 | 132 | 107 | 80 | 101 | 105 | 47 | 100 | 127 | 27 | 265 | 64 | - |

Connection

| LINE CONNECTION | | |
|-------------------------|--|------------------|
| ① measuring line | (to quiet zone of the PU line) | E 12, M 14 x 1.5 |
| ② control pressure line | (on actuator) | E 10, M 14 x 1.5 |
| ③ outflow line | (on actuator or PD line) | E 12, M 14 x 1.5 |
| ④ inlet pressure line | (on PU line) | E 10, M 14 x 1.5 |
| ⑤ respiratory line | (into the free atmosphere / optionally with breathing valve HON 915) | E 12, M 14 x 1.5 |

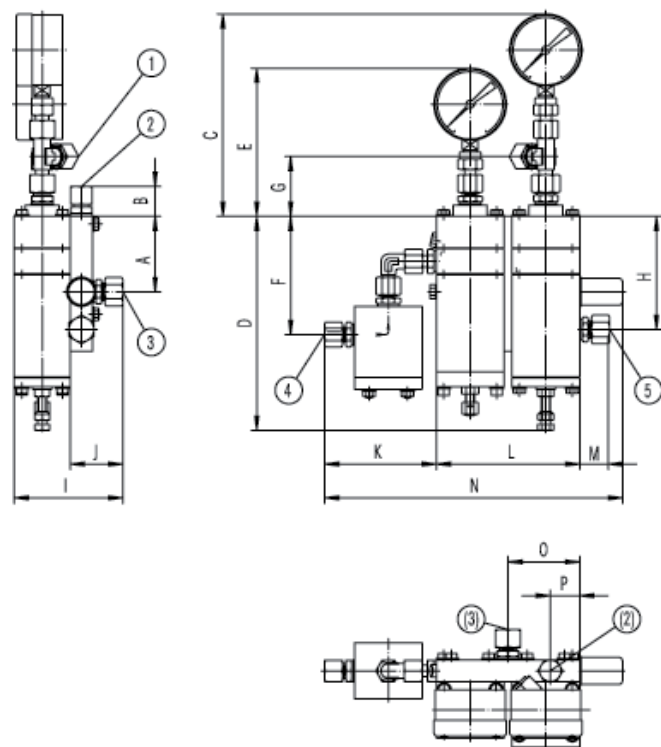
Dimensions for the guide area Wu= 0.3 to 1 bar



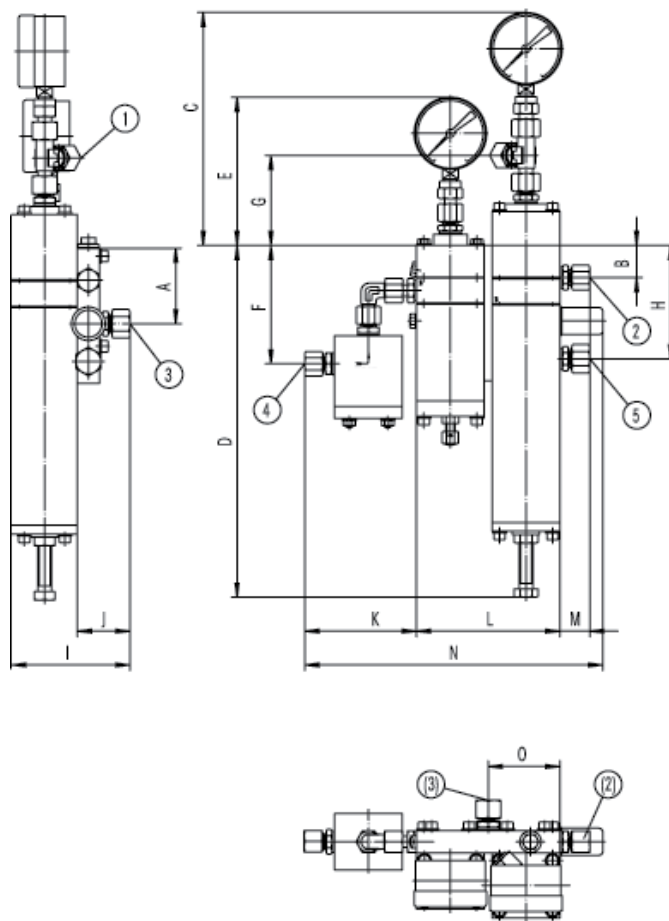
Regulator HON 652

Dimensions and connection

Dimensions for the guide area Wu= 0.5 to 40 bar



Dimensions for the guide area Wu= 20 to 90 bar



Structure and working method

The HON 652 controller, together with the actuator, has the task of keeping the inlet pressure constant within specified limits, regardless of disturbances.

The regulator consists of the control stage, the auxiliary pressure stage and the base plate as a connecting element. The controlled variable - input pressure - is recorded via sensitive membranes in the control stage. The pneumatic amplifier, which works according to the nozzle-baffle plate principle, is actuated by the comparator, which is designed as a double membrane system. The static gain can be influenced and the controller can be adapted to the conditions of the controlled system using the adjustable auxiliary pressure and the outflow valve. A fine filter is installed upstream to protect the controller from contamination.

The inlet pressure to be regulated is routed via the measuring line to the top of the double membrane system in the control stage and compared with the reference variable specified by the force of the setpoint spring.

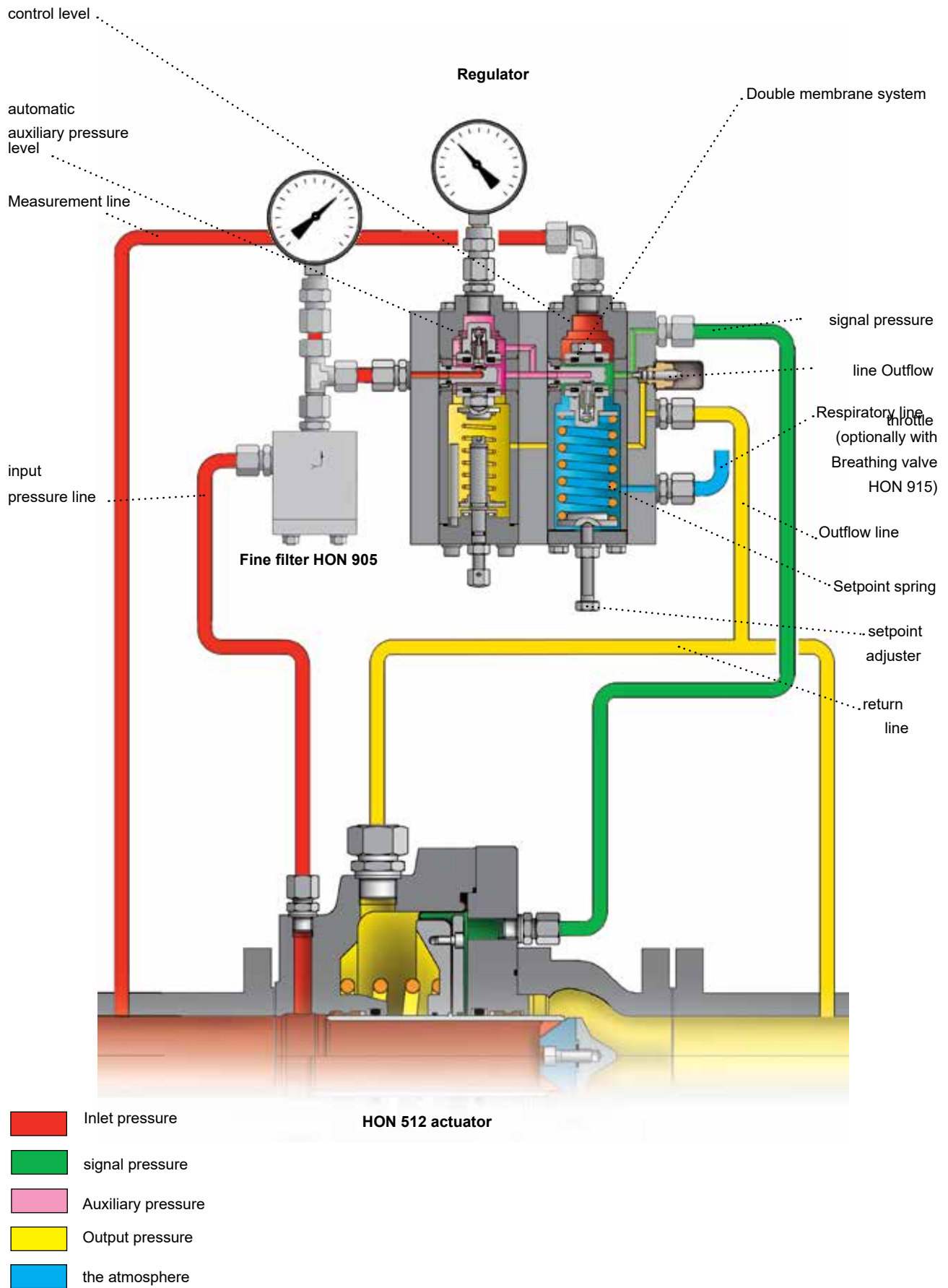
Each control deviation is followed by a corresponding change in the distance between the nozzle and the baffle plate and thus a proportional change in the signal pressure. The valve opening of the actuator is changed via the actuator in order to adjust the inlet pressure to the setpoint.

An auxiliary pressure is required to supply the control stage. This is generated by the automatic auxiliary pressure stage, which has the same structure and operation as the control stage.

In the operating state, the auxiliary energy taken from the inlet flows into the outlet pressure chamber via the outflow valve. If input pressures are below the set target value, the booster valve in the double-diaphragm system of the control stage is closed.

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Structure and working method



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