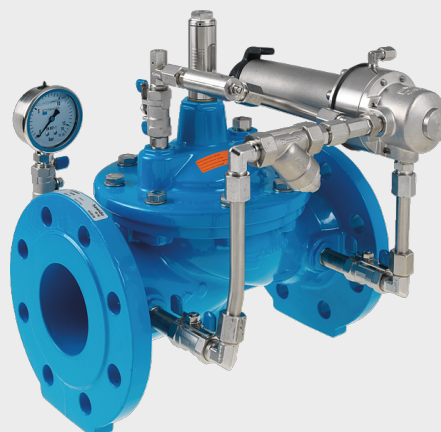
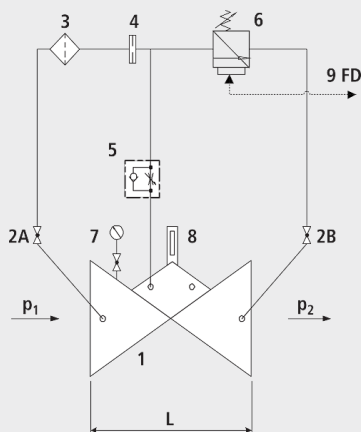


## Pressure retention valve DAV for monitoring third-party pressure

1405



### Components

- 1: Main valve
- 2: Ball valve (A, B)
- 3: Filter
- 4: Orifice
- 5: Throttle check valve
- 6: Control valve
- 7: Pressure gauge with ball valve
- 8: Optical position indicator (optional: Electrical position indicator, opening limiter)
- 9: Control valve with relief is controlled with external pressure

### Physical characteristics

- The main valve is a hydraulically operating diaphragm valve. The work energy is the inherent medium.
- Most valve types operate purely hydraulically without any foreign energy.

### Application

- To use in drinking water systems (other media after consultation)
- As an open/shut valve with hydraulic control (e.g. sprinkler systems)
- Maintaining a network pressure

### Mode of operation

- The pressure-sustaining valve opens quickly via the control line of the external pressure and closes slowly when the external pressure lowers. So that the control valve can be relieved again after pressurisation (and the main valve closes again), it must be possible to relieve the control line of the external pressure. The pressure of the control line (external pressure) should be within the range of 2 to 16 bar.

### Product information

- To calculate the dimensions of the valve please refer to the following information:
- Maximum and minimum inlet pressure (static and dynamic pressure ratios)
- Desired maximum loss of pressure
- Level of the external pressure
- Maximum and minimum flow rates
- Available line diameters and lengths
- Construction of the valve (straight or angle design)
- For the calculation basis, information on the loss of pressure and the characteristic values of the valve, please refer to the end of Chapter E.

### Design

- Design according to DIN EN 1074
- Construction length acc. to DIN EN 558
- Flange mass according to DIN 1092-2, to PN 25 DN 300
- Pressure levels: PN 10 or PN 16 to DN 300, PN 25 to DN 200, higher pressures on request.
- Nominal widths DN 50, DN 80, DN 100 and DN 150 available in angular design
- Nominal widths 1 1/2" and 2" with threaded connection (female thread)
- Medium temperature up to 40°C

## Installation and assembly

- Shut-off valves should be fitted on both sides of the valve and a dirt trap should be installed on the inlet side of the valve. Depending on the installation situation, a mounting/dismounting adapter should be provided.

## Vantages

- Maintenance-free, non-rusting valve seat
- Pressed-in seat
- EWS-coating according to RAL GSK

|            | DN     | PN<br>(bar) | L<br>(mm) | weight<br>(kg) |
|------------|--------|-------------|-----------|----------------|
| 1405007000 | 1 1/2" | 16          | 210       | 11.000         |
| 1405008000 | 2"     | 16          | 210       | 11.000         |
| 1405040000 | 40     | 16          | 200       | 15.750         |
| 1405050000 | 50     | 16          | 230       | 16.250         |
| 1405065000 | 65     | 16          | 290       | 21.300         |
| 1405080000 | 80     | 16          | 310       | 27.400         |
| 1405100000 | 100    | 16          | 350       | 35.400         |
| 1405125000 | 125    | 16          | 400       | 51.500         |
| 1405150000 | 150    | 16          | 480       | 76.000         |
| 1405200000 | 200    | 10          | 600       | 114.600        |
| 1405200016 | 200    | 16          | 600       | 114.600        |
| 1405250000 | 250    | 10/16       | 730       | 247.000        |
| 1405300000 | 300    | 10/16       | 850       | 359.000        |