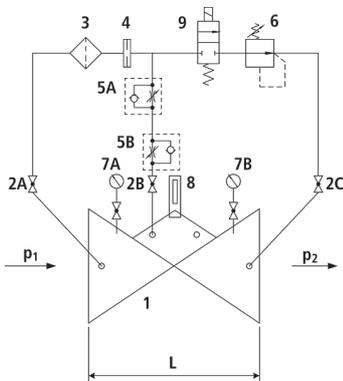


## Pressure reducing valve for electrical control - closed without current

1503



### Components

- 1: Main valve
- 2: Ball valve (A, B, C)
- 3: Filter
- 4: Orifice
- 5: Throttle check valve (A, B)
- 6: Control valve
- 7: Manometer with ball valve (A, B)
- 8: Optical position indicator (optional: Electrical position indicator, opening limiter)
- 9: Electric solenoid valve

### 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)
- Reduction in pressure for a network feed with a reservoir as the water level control
- Controlled emergency feed into a second network (network connections)
- In combination with an orifice plate for filling the reservoir

### Mode of operation

- The pressure reducing valve for an electrical actuation reduces a variable inlet pressure to a constant outlet pressure when the solenoid valve is energised. The valve is shut when the power is off. Fluctuating inlet pressure and flow rate have no effect on the outlet pressure controlled by the control valve. The outlet pressure is adjustable in the range from 1.5 to 12 bar (standard design). The opening and closing speeds can be set independently.

### 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)
- Required outlet pressure.
- Maximum and minimum flow rates
- Possible requirement for extinguishing water
- Available line diameters and lengths
- Voltage information for the solenoid valve
- 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 ½" 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 and an aeration and ventilation system should be provided.

### Vantages

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

Article No.	DN	PN (bar)	L (mm)	weight (kg)	Availability
1503007000	1 1/2"	16	210	11.000	on demand
1503008000	2"	16	210	11.000	on demand
1503040000	40	16	200	15.750	on demand
1503050000	50	16	230	16.250	on demand
1503065000	65	16	290	21.300	on demand
1503065025	65	25	290	21.450	on demand
1503080000	80	16	310	27.400	on demand
1503080025	80	25	310	27.400	on demand
1503100000	100	16	350	35.400	on demand
1503125000	125	16	400	51.500	on demand
1503150000	150	16	480	76.000	on demand
1503200000	200	10	600	114.600	on demand
1503200016	200	16	600	114.600	on demand
1503250000	250	10/16	730	247.000	on demand
1503300000	300	10/16	850	356.000	on demand