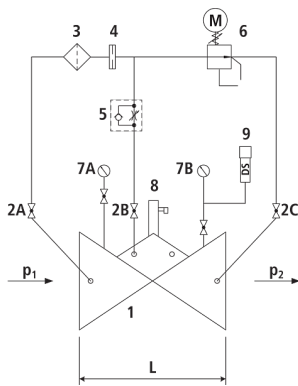
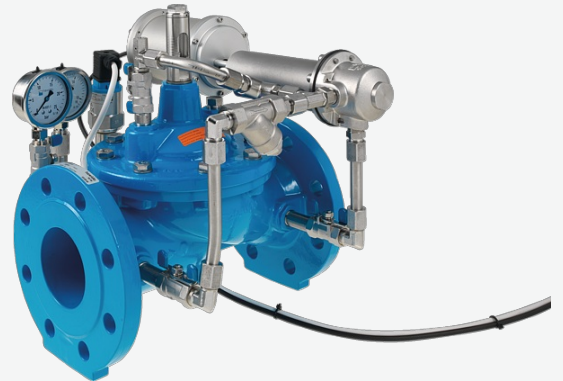


Pressure reducing valve with motor-controlled pilot valve

1515



Components

- 1: Main valve
- 2: Ball valve (A, B, C)
- 3: Filter
- 4: Orifice
- 5: Throttle check valve
- 6: Control valve with motor drive
- 7: Manometer with ball valve (A, B)
- 8: Electric position indicator (No. 1998) must be ordered separately.
- 9: Pressure sensor (4 - 20 mA)

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

- In combination with a PLC controller, different time-dependent target pressure values, for example, can be set. This application can be used for lowering the pressure during the night or for setting up a higher extinguishing pressure.

Mode of operation

- The pressure reducing valve with motor-driven pilot valve reduces a variable inlet pressure (p_1) to a constant lower outlet pressure (p_2). Fluctuating flow rate and inlet pressure have no effect on the outlet pressure controlled by the control valve. The outlet pressure (p_2) is adjustable in the range from 1.5 to 12 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)
- Pressure levels and time zones
- Desired outlet pressure
- Maximum and minimum flow rates
- Possible requirement for extinguishing water
- 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
- Druckstufen: PN 10 oder PN 16 bis DN 300; PN 25 bis DN 200
- 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
- Counter-seat with optimised geometry
- EWS coating according to RAL GSK (coating thickness: min. 250 µm)
- Optical position indicator in stainless steel, including vent screw built onto the valves as standard (except Open/Close and float valves).
- Control line: Fittings and piping in stainless steel.
- Control line: Connection with the clamping ring can be dismantled radially. No protruding pipe end after the clamping ring.
- The necessary shut-off elements are available in the control line as standard. The ball valves are made from stainless steel and have a short handle. No long actuating lever.
- The necessary pressure gauge is built in as standard, and can always be shut off with a ball valve (replacement of the pressure gauge possible without having to shut down the system).
- Dirt trap in the control line installed horizontally for flawless functioning and cleaning. The dirt does not fall back when cleaning the filter screen.
- Pilot valve manually adjustable without requiring a tool.
- DVGW and SVGW approvals

Article No.	DN	PN (bar)	L (mm)	weight (kg)	Availability
1515040000	40	10/16	200	17.000	on demand
1515050000	50	10/16	230	17.500	on demand
1515065000	65	10/16	290	22.600	on demand
1515080000	80	10/16	310	28.600	on demand
1515100000	100	10/16	350	36.600	on demand
1515125000	125	10/16	400	52.600	on demand
1515151000	150	10/16	480	76.000	on demand
1515200010	200	10	600	115.700	on demand
1515200016	200	16	600	115.700	on demand
1515250000	250	10/16	730	249.000	on demand
1515300010	300	10/16	850	360.000	on demand