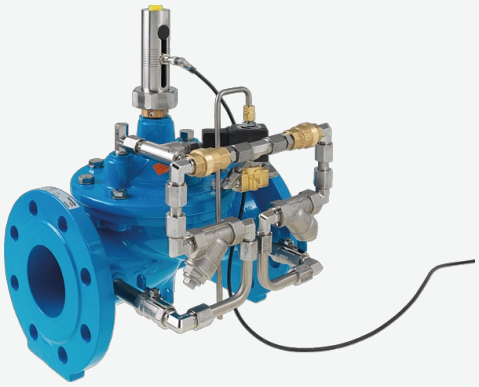
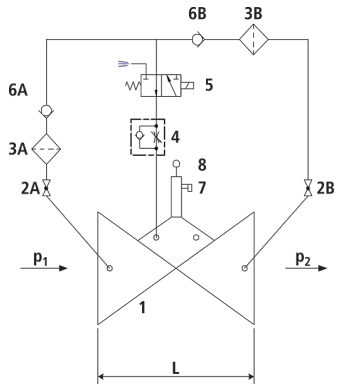
Pump protection valve

1706





Components

- 1: Main valve
- 2: Ball valve (A, B)
- 3: Filter (A, B)
- 4: Throttle check valve
- 5: Electric solenoid valve
- 6: Check valve (A, B)
- 7: Electric position indicator
- 8: Accessories (optional)

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)
- Actuation of the valve with the pump control system
- Protection of the pump against overloading caused by a no–load operation

Mode of operation

- The pump protection valve opens with a time delay after the pump is started up. Consequently the network pressure increases to the full pump pressure before the valve opens. With a controlled stopping of the pump, the valve closes before the pump stops. The opening and closing speeds can be set on the throttle non–return valve. In the event of a power failure, the installed hydraulic return–flow function prevents a backflow to the pump (the valve closes).

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)
- Existing counterpressure
- Required flow rate, pump capacity
- Maximum permissible loss of pressure
- Voltage information for the solenoid valve
- Available line diameters and lengths
- Construction of the valve (straight or angle design)
- The controller is to be provided by the customer.
- 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

- The pump protection valve is installed in the feed pipe of the pipe. A shut–off valve is to be installed on the outlet side.

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
1706007000	1 1/2"	16	210	10.000	on demand
1706008000	2"	16	210	10.000	on demand
1706040000	40	16	200	18.000	on demand
1706050000	50	16	230	16.000	on demand
1706050025	50	25	230	16.500	on demand
1706065000	65	16	290	20.400	on demand
1706080000	80	16	310	28.000	on demand
1706100000	100	16	350	35.900	on demand
1706125000	125	16	400	48.000	on demand
1706150000	150	16	480	76.000	on demand
1706200000	200	10	600	115.000	on demand
1706200016	200	16	600	118.000	on demand
1706250000	250	10/16	730	254.000	on demand
1706300000	300	10/16	850	356.000	on demand