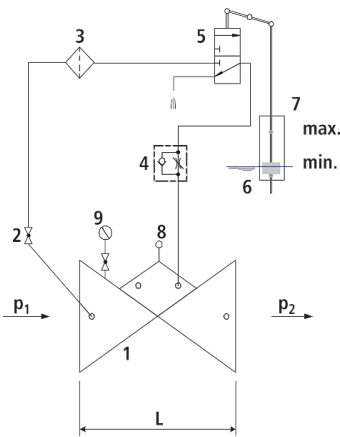
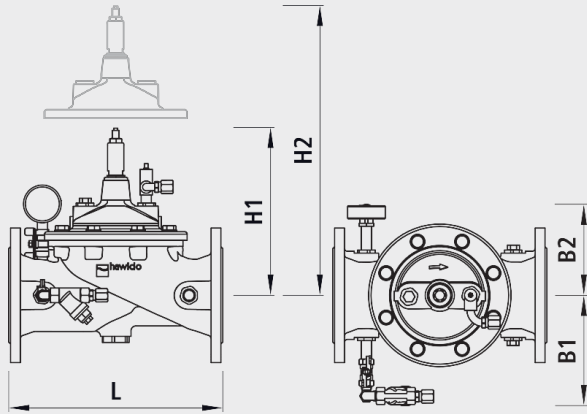


## On/Off valve with float control

# 1600



### Components

- 1: Main valve
- 2: Ball valve
- 3: Filter
- 4: Throttle check valve
- 5: Control valve
- 6: Float
- 7: Float protection pipe (optional)
- 8: Opening limiter
- 9: Pressure gauge with ball 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)
- Level control in a reservoir or pressure-breaking shaft
- Level control in an equalising basin

### Mode of operation

- The open/close valve with float protection mechanically/hydraulically regulates the water inflow in a reservoir by means of a float solenoid valve and float bulbs. The closing speed can be adjusted by means of a throttle non-return valve to prevent surges in pressure.
- At inlet pressures less than 1.5 bar and more than 4 bar consultation is to be kept.

### 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 of the reservoir
- Required flow rate
- Available line diameters and lengths
- Construction of the valve (straight or angle design)
- Minimum and maximum water level (as standard between 100 and 900 mm can be adjusted using stops, greater water level differences on request)
- 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. If there is a free run into the water tank downstream from the valve, the slider on the outlet side can be omitted. Depending on the pressure ratios, an orifice plate should be installed on the outlet side of the valve and an opening limiter on the valve. The installation of a float protection pipe is recommended to guide the float.

## Vantages

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

## Caution

- Dimension H1 with electric position indicator and opening limiter is 110 mm higher up to DN 100 and 130 mm higher at DN 125 to DN 300.

	DN	PN (bar)	L (mm)	B1 (mm)	B2 (mm)	H1 (mm)	H2 (mm)	KVS l/min.	weight (kg)	NPK No. 411	BIM / CAD
1600007000	1 1/2"	16	210	170	160	220	400	315	12.400		
1600008000	2"	16	210	170	160	220	400	460	9.000		
1600040000	40	16	200	170	160	220	400	315	15.750	834215	
1600050000	50	16	230	170	160	220	400	506	15.300	834216	
1600065000	65	16	290	180	160	240	400	725	21.300	834217	
1600080000	80	16	310	180	180	260	400	1200	26.000	834218	
1600100000	100	16	350	190	200	290	400	2150	34.600	834219	
1600125000	125	16	400	200	210	390	500	2955	50.600	834221	
1600150000	150	16	480	210	220	420	500	4960	76.000	834222	
1600200000	200	10	600	240	250	470	550	7640	114.600	834223	
1600200016	200	16	600	240	250	470	550	7640	114.600		
1600250000	250	10/16	730	290	270	600	750	11600	247.000	834224	
1600300000	300	10/16	850	290	280	600	750	24600	360.000	834225	

The connecting pipe from the base valve to the control valve must be provided by the customer.