

Braukmann FV300

Filling valve

Application

Filling valve of this type can be used in water supplies and for industrial and commercial applications for the filling of reservoirs, tanks and cisterns. It is controlled by the main storage medium via a float valve and impulse link pipework. Filling valve of this type is prevented from filling constantly by the use of a pilot valve, which can be adjusted to provide varying fill level differentials for opening and closing the valve.

Approvals

- DVGW
- · WRAS (up to 23 °C)

Special Features

- · High flow capacity
- Powder-coated inside and outside Powder used is physiologically and toxicologically safe
- · Integral control circuit and ball valves
- Integral fine filter
- · No external energy required for operation
- · Compact construction
- · Light weight



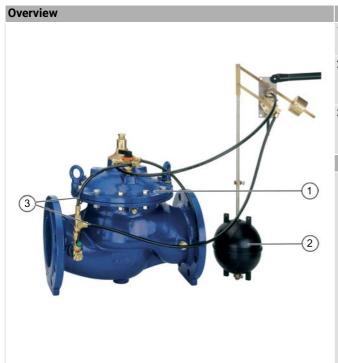




Technical Data

Media			
Medium:	Drinking water		
Connections/Sizes			
Connection size:	DN50 - DN200		
Pressure values			
Max. operating pressure:	16 bar		
Nominal pressure:	PN 16		
Minimum pressure:	0.7 bar + pressure resulting from differential in physical height of the impulse link pipe		
Operating temperatures			
Max. operating temperature medium:	80 °C		
Specifications			
Switching level differential:	with Pilot float valve 70 - 550 5 - 40 cm with Pilot float valve 70 - 610 5 - 40 cm		

Construction



	Components	Materials		
1	Housing with flanges acc. to ISO 7005-2 / EN 1092-2	Ductile iron (ISO 1083), powder-coated		
2	2 Pilot float valves 70 - 550 and 70 - 610	High-quality synthetic material spherical Brass float valve housing		
3	Control circuit with integral rinsable filter insert and ball valves on inlet and outlet	High-quality synthetic material		
	Not depicted components:			
	Cover plate	Ductile iron (ISO 1083), powder-coated		
	Diaphragm plate	Ductile iron (ISO 1083), powder-coated		
	Diaphragm	EPDM		
	Spring	Stainless steel		
	Regulating cone	Stainless steel		
	Valve seat	Stainless steel		
	Compression fittings	Brass		
	Pilot valve housing	Brass		
	Filter insert	Stainless steel		
	Seals	EPDM		

Method of Operation

At zero pressure conditions the diaphragm valve is closed. If flow is opened to the filling valve of this type, water enters the inlet area and the increasing pressure opens the valve so that water in the outlet area can flow into the container. If the water level in the container reaches the preset level, then the float valve closes. The inlet pressure in the diaphragm chamber increases and closes the diaphragm valve. If the water level in the container falls, the float valve opens, the pressure in the diaphragm chamber falls and the inlet pressure opens the diaphragm valve for as long as the set water level in the container is not reached.

Transportation and Storage

Keep parts in their original packaging and unpack them shortly before use.

The following parameters apply during transportation and storage:

Parameter	Value
Environment:	clean, dry and dust free
Min. ambient temperature:	5 °C
Max. ambient temperature:	55 °C
Min. ambient relative humidity:	25 % *
Max. ambient relative humidity:	85 % *

^{*}non condensing

Installation Guidelines

Setup requirements

- Install shut-off valves
- Install downstream of the strainer
 - Protects against damage from coarse particles
 - Note flow direction (indicated by arrow)
- The installation location should be protected against frost and be easily accessible
 - Pressure gauge can be read off easily
 - Simplified maintenance and cleaning
- Provide a straight section of pipework of at least five times the nominal valve size after the filling valve (in accordance with EN 806-2)
- · Safety valve SV300 optional
- Requires regular maintenance in accordance with EN 806-5

Installation Example

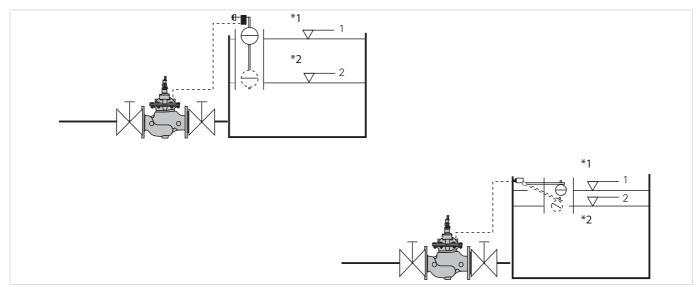


Fig. 1 Standard installation example for the filling valve

^{*2} open

Connection sizes:	2"	2 ¹ / ₂ "	3"	4"	6"
Distance in mm (W*):	100	110	120	130	160

^{*} Required installation distances between the centerline of the pipework and the surrounding in dependency of the connection size.

Technical Characteristics

kvs-Values

Connection sizes:	50	65	80	100	150	200
k _{vs} -value (m ³ /h):	43	43	103	167	407	676
Flow rate (Q_{max}) in m ³ /h - V=5.5 m/s:	40	40	100	160	350	620

Pressure drop characteristics

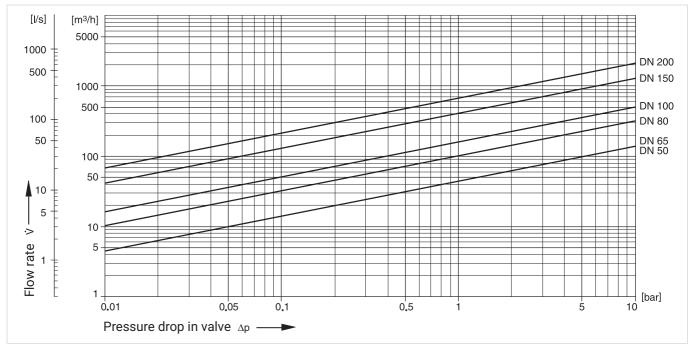
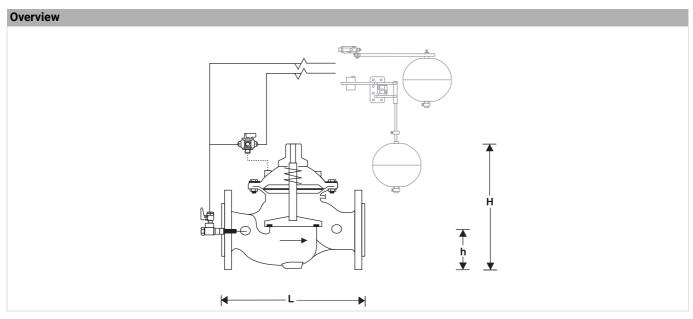


Fig. 2 Pressure drop within the valve in dependency of the flow rate and the used connection size

^{*1} closed

Dimensions



Parameter	Values						
Connection sizes:	DN	50	65	80	100	150	200
Weight with pilot valve:	kg	14.0	15.0	24.0	39.0	82.0	159.0
Weight without pilot valve:	kg	12.0	13.0	22.0	37.0	80.0	157.0
Dimensions:	L	230	292	310	350	480	600
	Н	270	280	330	350	480	570
	h	83	93	100	110	143	173

Note: All dimensions in mm unless stated otherwise.

Ordering Information

The following tables contain all the information you need to make an order of an item of your choice. When ordering, please always state the type, the ordering or the part number.

Options

The valve is available in the following sizes: DN50, DN65, DN80, DN100, DN150, DN200.

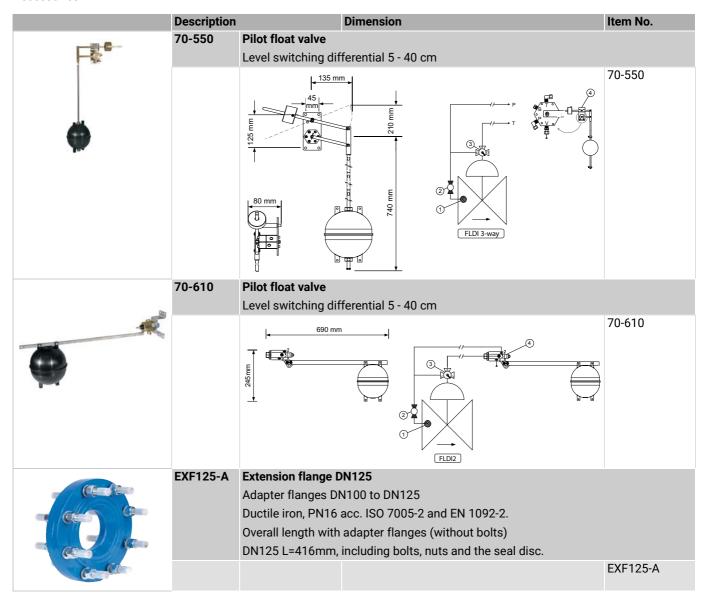
		FV300A
Connection type:	Flange PN16, ISO 7005-2, EN 1092-2	•

Note: ... = space holder for connection size

Note: Item number example for DN50 and type A valve: FV300-50A

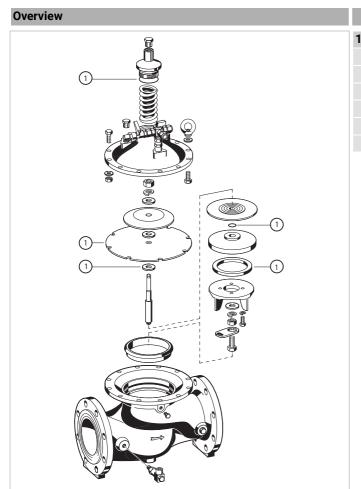
Note: Please order pilot float valves separately

Accessories



Spare Parts

Filling valve FV300, from 2002 onwards



	Description	Dimension	Item No.
1	Set of seals		
		DN50	0903751
		DN65	0903751
		DN80	0903752
		DN100	0903753
		DN150	0903754
		DN200	0903755



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