BFF VALVE WITH FLOAT CONTROL

FEATURES

Controlled by the e-FLOAT pilot valve, the BFF valve is used to cut-off the feeding of a tank when the upper level of the tank is reached. This simple solution does not require electrical power. Its co-axial design makes it possible to build a robust, compact valve. It is used to cut-off large flow-rates. The BFF has to be protected by a filter installed upstream. Cast iron body, brass internal parts and NBR sealing. Horizontal or vertical ascending mounting.



AVAILABLE MODELS

Cast iron body (stainless steel as an option)
DN50 to DN300
PN16 RF flange connection according to EN 1092-1

LIMITS OF USE

Fluid WP:	16 bar
Fluid WT°:	-10°C / +80°C
Minimum upstream pressure:	0.3 bar
Fluid:	prohibited use on gases from group 1

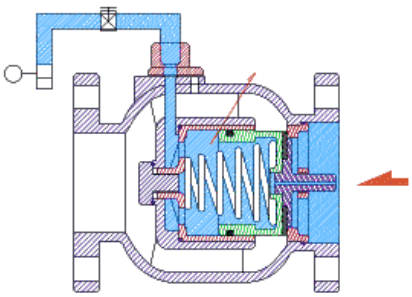
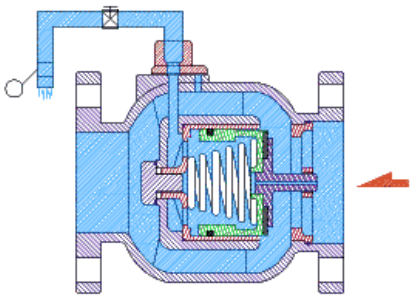


e-Float pilot valve

DIRECTIVES AND MANUFACTURING STANDARDS

OBJET	Standard	OBJET	Standard
Pressure Equipment Directive 97/23/EC	Article 4 § 3	Final test	API 598
Flange dimension	EN 1092-2	Material certificate	EN 10204

OPERATION

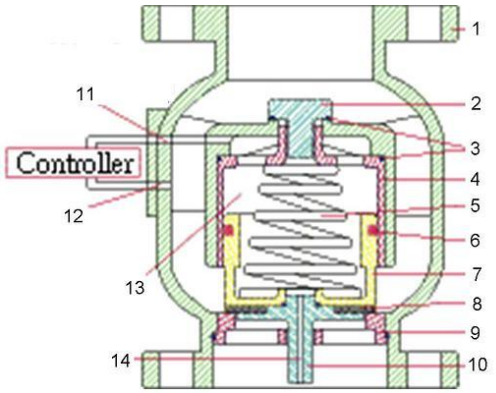
Closed valve	Open valve
The float has reached its upper position. The pilot valve closes. The fluid is blocked in the pressure chamber, and the main valve is closed.	The float has not reached its upper position yet. The pilot valve lets the fluid circulate. The fluid is free in the pressure chamber, and the pressure inside the main duct leaves the valve open.
	

Gegevens ter indicatie, wijzigingen voorbehouden.

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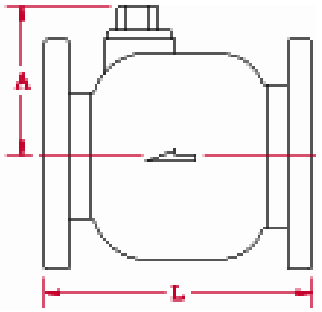
CONSTRUCTION

Reference mark	Item	Cast iron	Stainless steel
1	Body	SG cast iron	1.4408 SS
2	Plug	Brass	316 SS
3	O-rings	NBR	NBR / FPM
4	Cylinder	Bronze	316 SS
5	Spring	SS	SS
6	Segment	NBR	NBR / FPM
7	Piston	Bronze	316 SS
8	Gasket	NBR	NBR / FPM
9	Seat	Bronze	316 SS
10	Stem	Bronze	316 SS



DIMENSIONS (mm) AND WEIGHT (kg)

DN	L (mm)	A (mm)	Weight (kg)
50	190	95	12
65	210	100	14
80	225	115	19
100	255	127	26
125	285	150	37
150	315	165	50
200	420	205	94
250	470	240	150
300	530	275	200

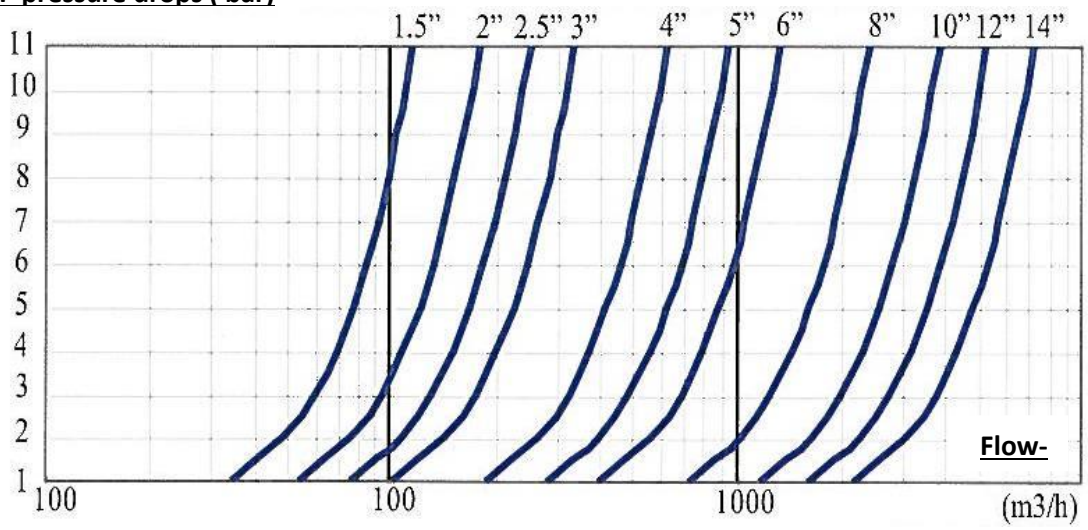


FLOW-RATE COEFFICIENT

DN	50	65	80	100	125	150	200	250	300
Inches	2''	2'' ½	3''	4''	5''	6''	8''	10''	12''
Kv (m^3/h)	65	91	121	225	337	476	865	1387	1903

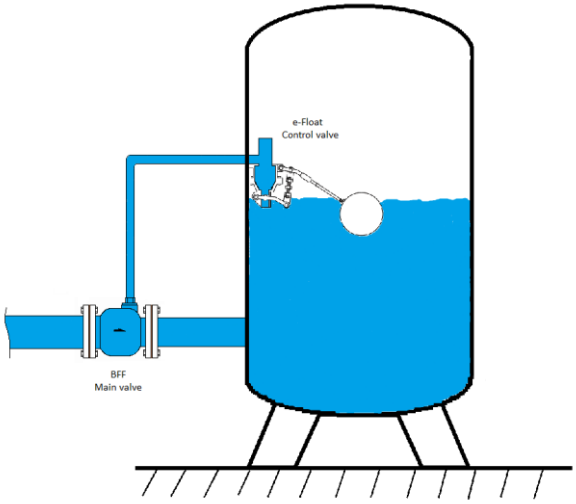
FLOW-RATE COEFFICIENT AND PRESSURE DROP (BAR)

ΔP pressure drops (bar)



INSTALLATION

Install the valve, preferably, outside the tank.
Horizontal or vertical with ascending flow installation.
Provide a protective filter upstream from the BFF valve.
Comply with the mounting indicated by the arrow.



ASSEMBLY AND MAINTAINANCE INSTRUCTIONS

1. Installation

Before any installation, cut-off the piping upstream and downstream, depressurize the ductwork installation, and bring the installation at ambient temperature. Install a filter upstream. Install, also, a shut-off valve upstream and downstream. Carefully clean the piping from any particle or shaving by water rinsing or air blowing. Install the BFF valve following the arrow direction indicated on the body, with the pressure taps upwards. Install the e-FLOAT pilot valve on the upper level of the tank. Connect the e-FLOAT pilot valve to the BFF valve using a rigid hose. Bleed the air from this pipe. Open the upstream and downstream valves.

2. Servicing

Before any intervention, cut-off the upstream and downstream piping using a gate valves. Depressurize the ductwork installation and bring the installation at ambient temperature. Disassemble the plug of the upstream filter or replace the strainer. For a full visit of the device, take apart parts (1) and (9). Remove the stem (10) and piston (7). Check the state of gaskets (6) and (8). Replace them if necessary. Also check the state of spring (5). Replace it if broken. Clean all internal parts. Reassemble the parts in the reverse order. Put the device back in service by slowly opening the upstream valve, and then the downstream valve.