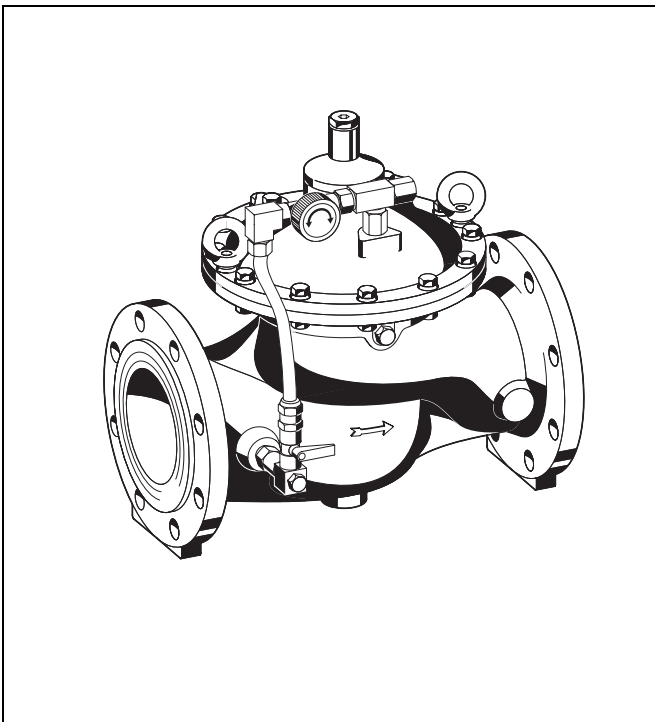


BV300

Basic valves

Product specification sheet



Construction

The basic valve comprises:

- Housing with PN16 flanges per ISO7005-2, EN1092-2

Materials

- Ductile iron housing, cover plate and diaphragm plate (ISO 1083), powder coated
- Red bronze/stainless steel regulating cone
- Stainless steel pressure spring and control rod
- Fibre-reinforced NBR diaphragm
- NBR and EPDM seals
- Stainless steel valve seat

Application

The basic valves are used as shutoff valves. They may be controlled by the common medium or by an external medium using the integral control valve. A manual, electro-magnetic solenoid or float valve can be used as the control valve.

Their compact construction makes them ideally suited for applications where space is limited, for example in ducts. They can be used for commercial or industrial applications within the scope of their specification.

Special Features

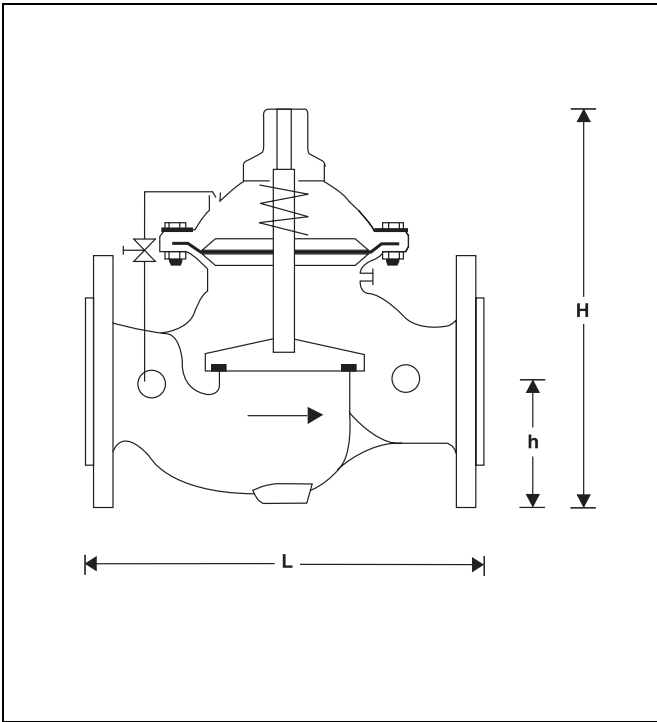
- High flow capacity
- Light weight
- Compact construction
- Powder coated inside and outside - Powder used is physiologically and toxicologically safe

Range of Application

Medium Water
 Operating pressure Max. 16 bar

Technical Data

Operating temperature Max. 80 °C
 Nominal pressure PN 16
 PN 25 on request
 Minimum pressure 0.7 bar
 Connection size DN 50 - 450



Method of Operation

For the valve to operate, a pilot valve (such as an electro-magnetic solenoid valve or float operated valve) must be fitted. Under zero pressure conditions the basic valve is closed. If the supply to the valve is opened, water flows into the inlet section and the rising pressure opens the valve so that water can flow into the outlet section. If the pilot valve is closed the pressure from the inlet side passes via the fine regulation valve and increases the pressure in the chamber above the diaphragm. The diaphragm surface subjected in this way to the inlet pressure is somewhat greater than valve plate surface which is also subjected to the inlet pressure, so the basic valve closes. As soon as the pilot valve opens, the pressure in the chamber above the diaphragm is reduced and the inlet pressure on the valve plate surface causes the basic valve to begin to open.

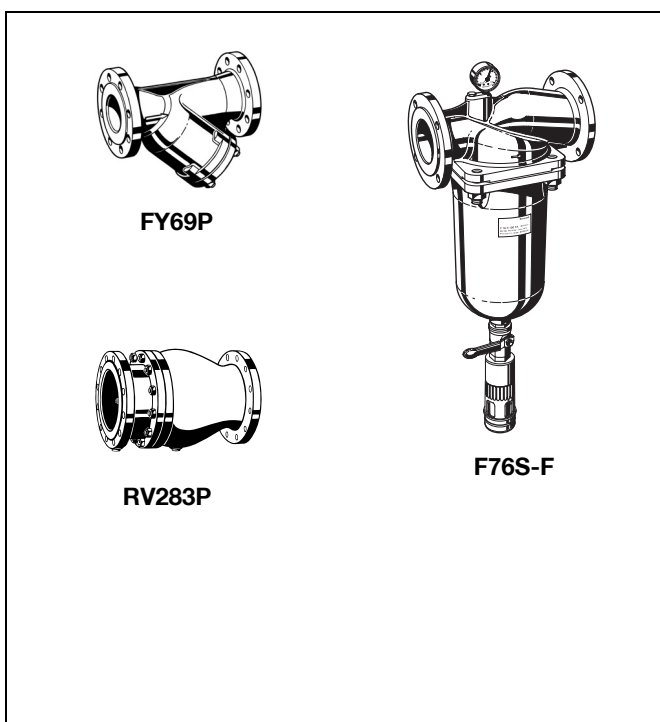
Options

BV300- ... A =Housing with flange, PN 16, ISO 7005, EN 1092-2

BV300- ... Z =PN 25, on request

Connection size

Connection size	DN	50	65	80	100	150	200	250	300	350	400	450
Weight	approx. kg	12	13	22	37	80	157	245	405	510	822	945
Dimensions	(mm)											
	L	230	292	310	350	480	600	730	850	980	1100	1200
	H	235	294	400	433	558	650	823	944	990	1250	1250
	h	83	93	100	110	143	173	205	230	260	290	310
Flow rate (Q _{max}) in m ³ /h - V=5.5 m/s		40	40	90	160	350	480	970	1400	1900	2500	3150
k _{vs} -value	m ³ /h	43	43	103	167	407	676	1160	1600	1600	3300	3300



Accessories

FY69P Strainer

With double mesh, grey cast iron housing, powder coated inside and outside.

A = Mesh size approximately 0.5 mm

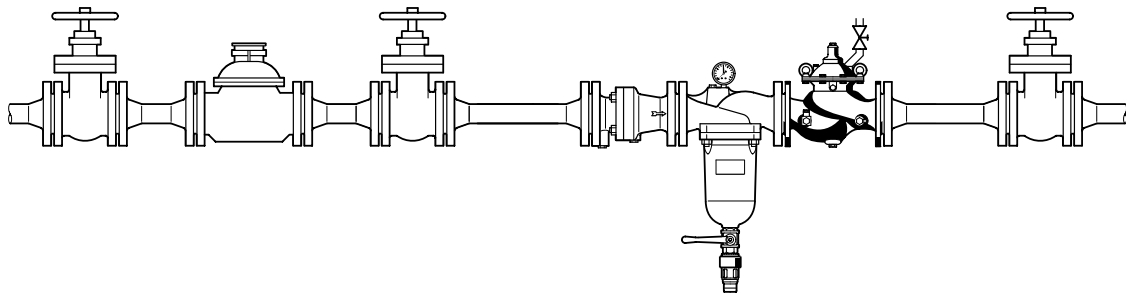
F76S-F Reverse-rinsing filter

Red bronze housing and filter bowl. Available in sizes DN 65 to DN 100, with filter mesh sizes 100 µm or 200 µm

RV283P Check valve

Grey cast iron housing, powder coated inside and outside. DIN/DVGW tested in compulsory test sizes DN 65, DN 80 and DN 100

Installation Example



Installation Guidelines

- Install shutoff valves on both sides of the pressure sustaining valves
- Install strainer upstream of basic valve
 - o Protects against damage from coarse dirt
 - o Note flow direction (indicated by arrow)
- Ensure good access
 - o Simplified maintenance and cleaning

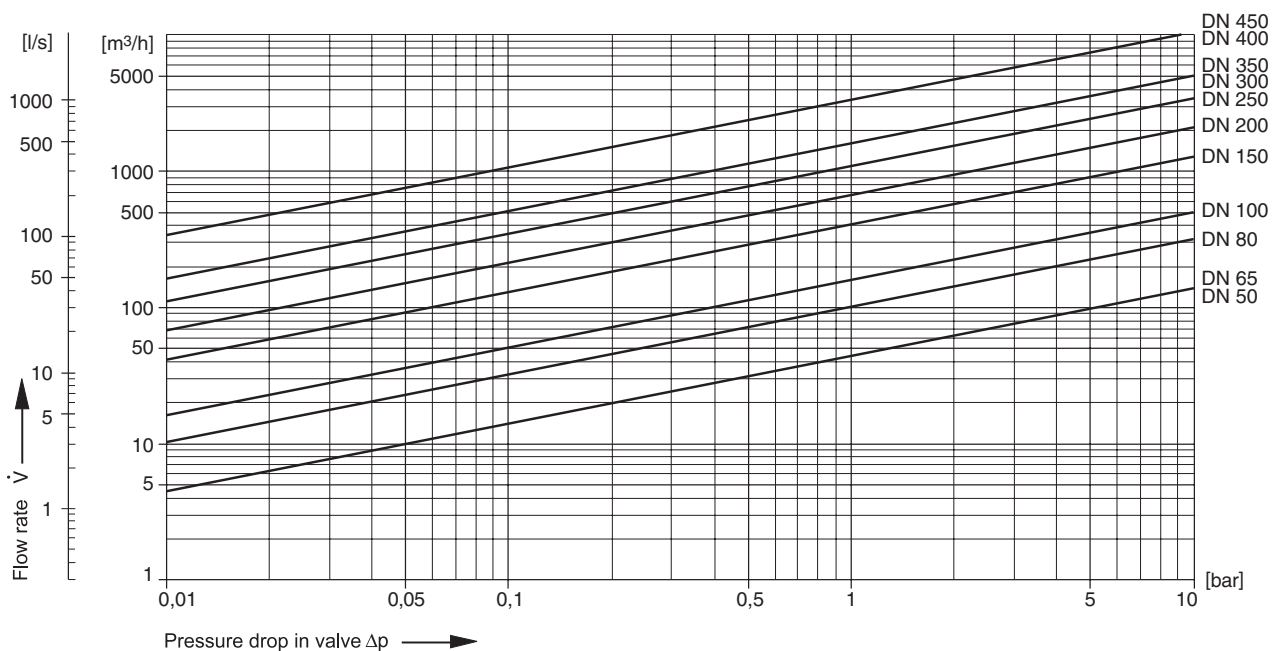
Typical Applications

Basic valves of this type are for installation within the scope of their specification in commercial and industrial systems as well as in central water supply networks

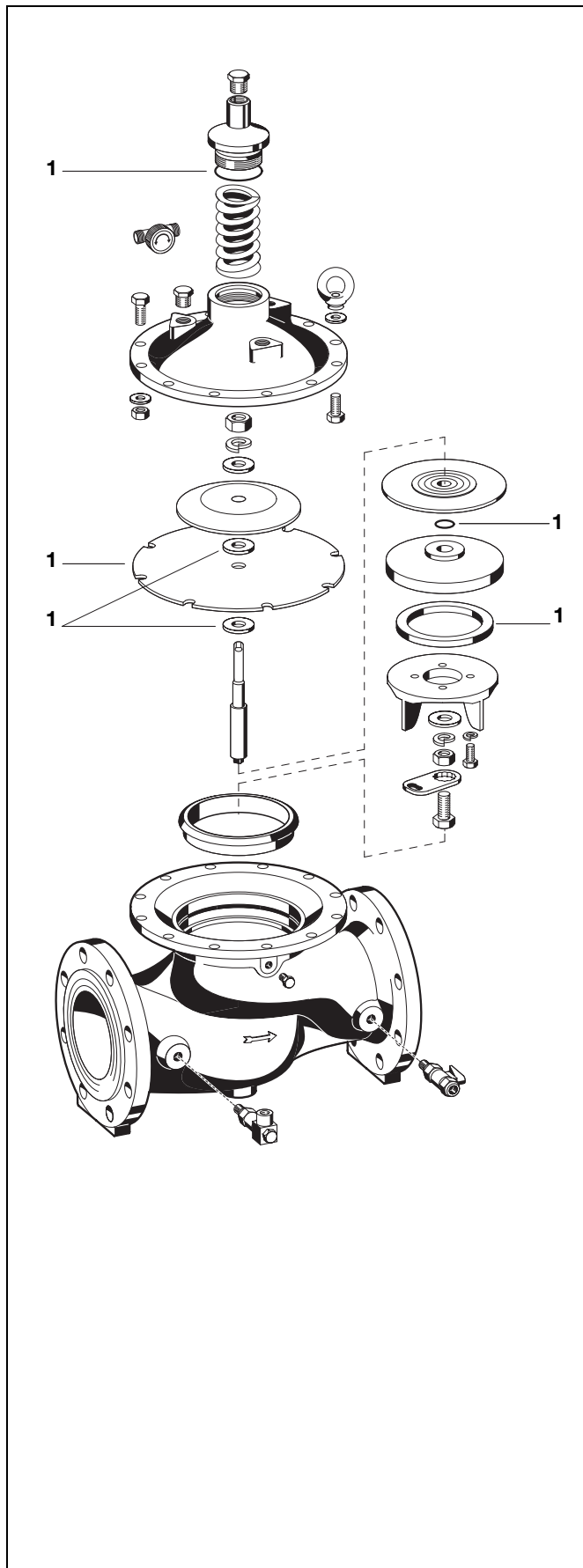
The following are some typical applications:

- Potable water supply
- Swimming pools
- Firefighting systems - sprinkler installations
- Ship construction (fire tenders)
- Watering systems in market gardens and in agriculture
- Water supply networks in large building developments (eg. high rise blocks)
- Hydrant systems at airports and dockyards
- Mining applications
- Gravel pits, concrete mixing plants etc.

Flow Diagram



EN0H-1382GE23 R0212 • Subject to change



Spare Parts

Basic valves BV300, from 2002 onwards

No.	Description	Dimension	Part No.
1	Set of seals	DN 50	0903750
		DN 65	0903751
		DN 80	0903752
		DN 100	0903753
		DN 150	0903754
		DN 200	0903755
		DN 250	0903756
		DN 300	0903757
		DN 350	0903758
		DN 400	0903759
		DN 450	0903760

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