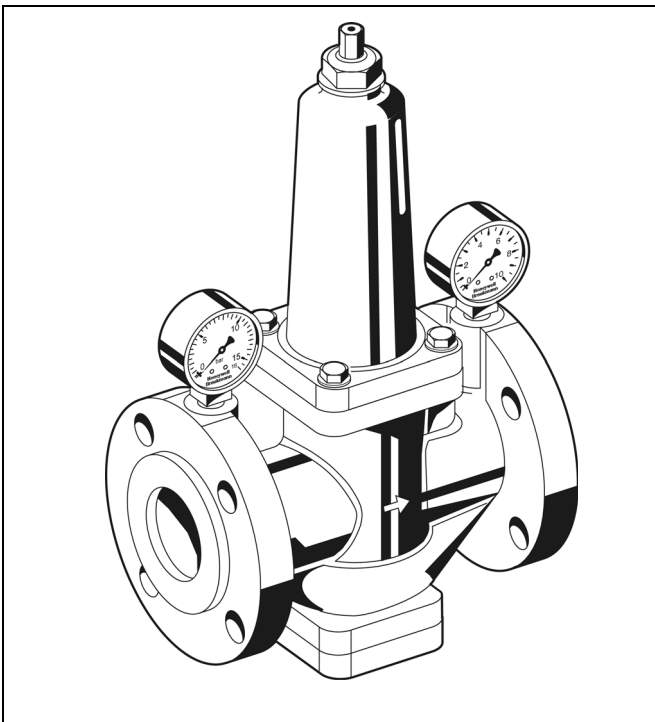


D15P

Pressure reducing valve with balanced seat Standard pattern

Product specification sheet



Construction

The pressure reducing valve comprises:

- Housing with PN16 flanges per ISO7005-2, EN1092-2
- Spring bonnet with adjustment screw
- Adjustment spring
- Valve system complete with diaphragm
- Pressure gauge

Materials

- Grey cast iron housing
- Cast iron spring bonnet
- Bronze valve seat
- Bronze piston guide
- Cone made of brass
- Spring steel adjustment spring
- EPDM diaphragm
- EPDM seal collar
- EPDM seals
- Stainless steel screws and nuts

Application

Pressure reducing valves of this type protect installations against excessive pressure from the supply. They can be used for household, industrial or commercial applications within the range of their specification.

By installing a pressure reducing valve, pressurisation damage is avoided and water consumption is reduced.

The set pressure is also maintained constant, even when there is wide inlet pressure fluctuation.

Reduction of the operating pressure and maintaining it at a constant level minimizes flow noise in the installation.

Special Features

- Non-rising stem for setting outlet pressure and position indicator on spring bonnet
- The adjustment spring is not in contact with the potable water
- With inlet and outlet pressure gauge
- Inlet pressure balancing - fluctuating inlet pressure does not influence outlet pressure
- Powder coated inside and outside - Powder used is physiologically and toxicologically safe
- Reliable and proven

Range of Application

Medium Water, compressed air*, oil free compressed air* and nitrogen* in consideration of valid standards (e.g. DIN EN 12502)

Inlet pressure max. 16 bar

Outlet pressure 1.5 - 8 bar

Technical Data

Operating temperature max. 70°C

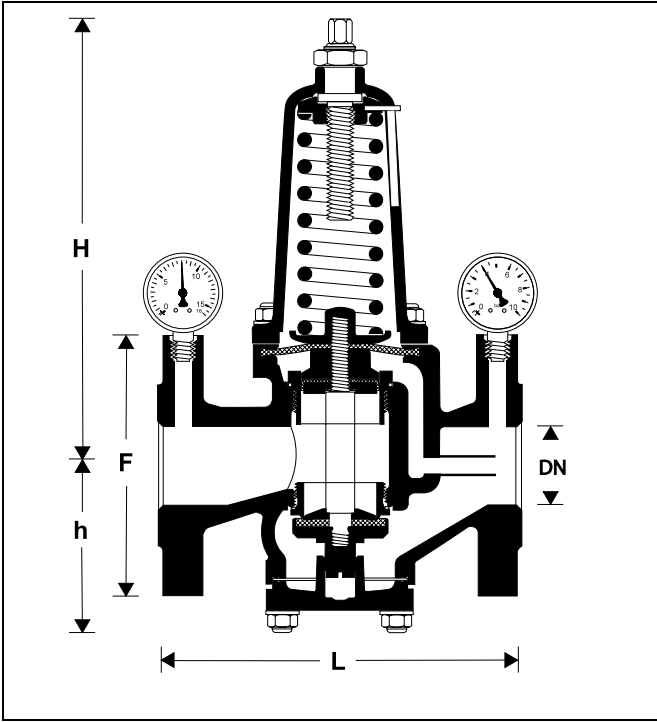
Nominal pressure PN16

Minimum pressure drop 1,0 bar

Diaphragm pressure max. 9,0 bar loading

Nominal size DN50

* As part of an installation being approved according to PED requirements, this product must also be certified.



Method of Operation

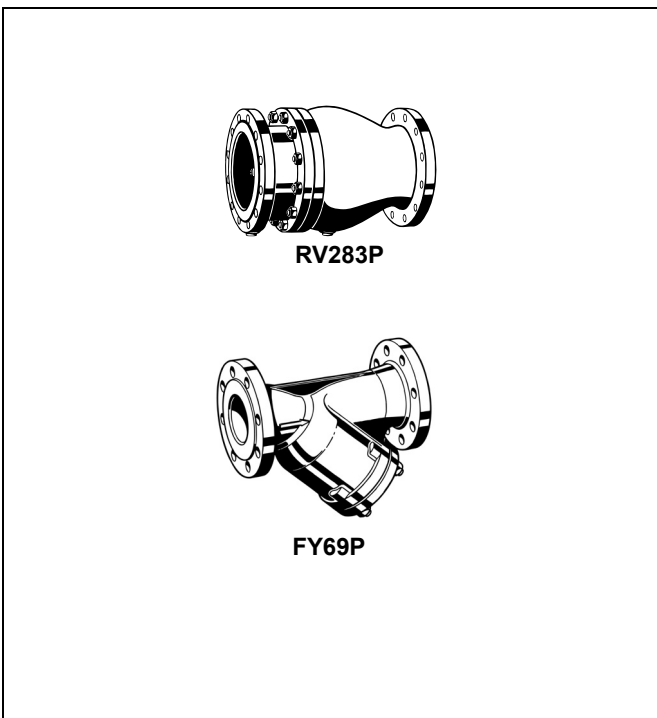
Spring loaded pressure reducing valves operate by means of a force equalising system. The force of a diaphragm operates against the force of an adjustment spring. If the outlet pressure and therefore diaphragm force fall because medium is drawn, the then greater force of the spring causes the valve to open. The outlet pressure then increases until the forces between the diaphragm and the spring are equal again.

The inlet pressure has no influence in either opening or closing of the valve. Because of this, inlet pressure fluctuation does not influence the outlet pressure, thus providing inlet pressure balancing.

Options

D15P-50A = With PN 16 flanged connections to ISO 7005-2, EN 1092-2 cast iron housing

Connection size	DN	50
Weight	approx. kg	16.2
Dimensions	mm	
	L	230
	H	282
	h	106
F	165	
K _{vs} -value		28



Accessories

RV283P Check valve

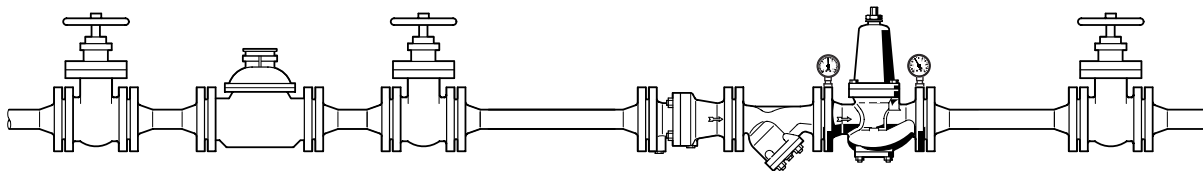
Grey cast iron housing, powder coated inside and outside. DIN/DVGW tested in compulsory test sizes DN 65, DN 80 and DN 100

FY69P Strainer

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

A = Mesh size approximately 0.5 mm

Installation Example



Connection size	DN	50
W*	mm	100

* Minimum distance from wall to centre line of pipework

Installation Guidelines

- Install in horizontal pipework with spring bonnet directed upwards
- Install shutoff valves
- The installation location should be protected against frost and be easily accessible
 - o Pressure gauge can be read off easily
 - o Simplified maintenance and cleaning
- Install downstream of the filter or strainer
 - o This position ensures optimum protection for the pressure reducing valve against dirt
- Provide a straight section of pipework of at least five times the nominal valve size after the pressure reducing valve (in accordance with EN806-2)

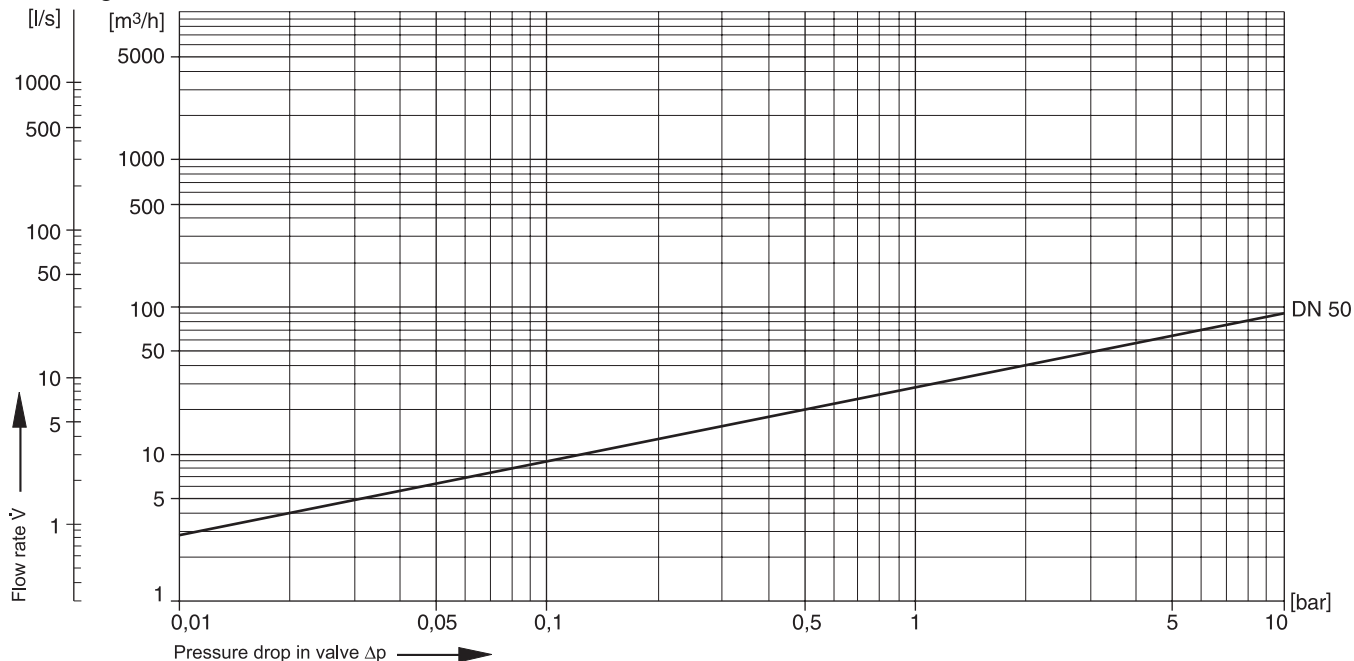
Typical Applications

Pressure reducing valves of this type are suitable for multi dwelling buildings, industrial and commercial applications within the range of their specifications.

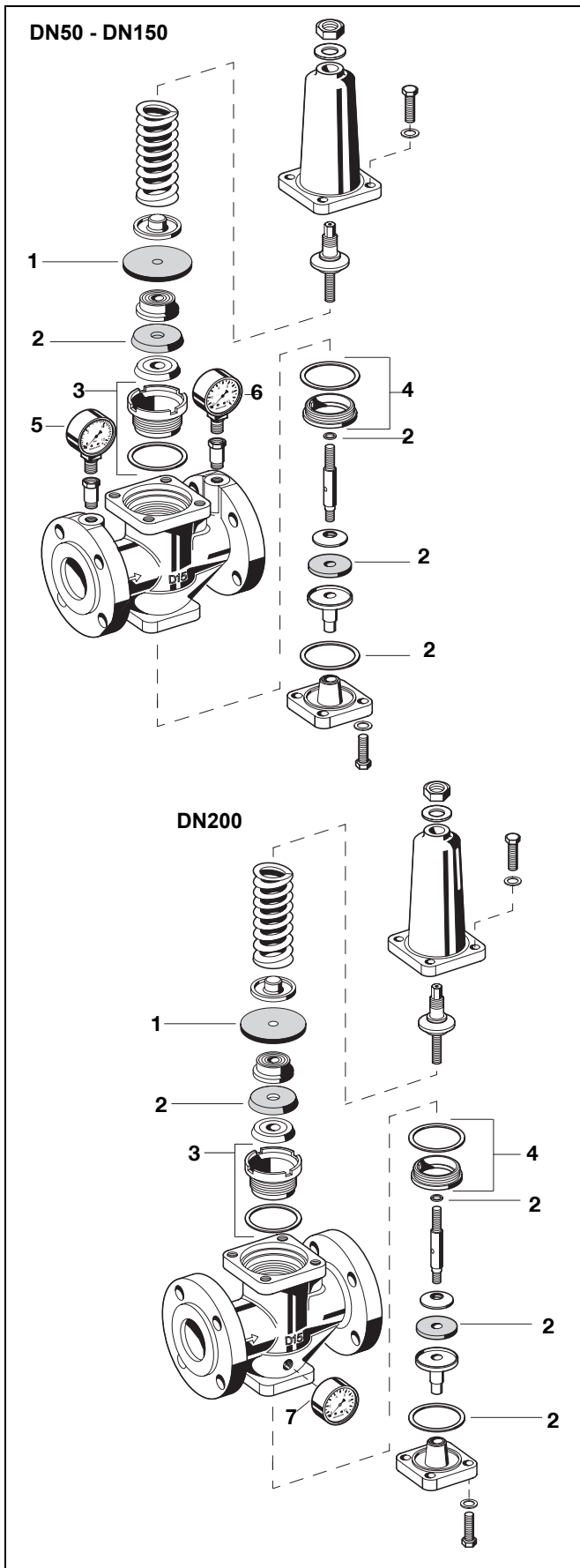
Pressure reducing valves should be installed:

- If the static pressure exceeds the maximum permissible value for the system
- If several pressure zones are required when a pressurisation system is used (pressure reducers on each storey of a building)
- If pressure fluctuations in the downstream system must be avoided
- To achieve constant inlet and outlet pressures on pumped pressure boosting systems
- To reduce the water consumption

Flow Diagram



EN0H-1007GE23 R0316 • Subject to change



Spare Parts

Pressure Reducing Valve D15P, from 2016 onwards

No.	Description	Dimension	Part No.
1	Diaphragm	DN 50	5707300
2	Set of seals	DN 50	0901353
3	Guide bush with seal	DN 50	0900255
4	Seat bush with seal	DN 50	0900247
5	Pressure gauge		M39M-A16
	Ranges 0 - 16 bar		
6	Pressure gauge		M39M-A10
	Ranges 0 - 10 bar		
7	Pressure gauge		M07M-A10
	Ranges 0 - 10 bar		

Pressure Reducing Valve D15P, up to 2015

No.	Description	Dimension	Part No.		
1	Diaphragm	DN 50	5707300		
		DN 65	5707400		
		DN 80	5707500		
		DN 100	5707600		
		DN 125	5707700		
		DN 150	5707800		
		DN 200	5707900		
		2	Set of seals	DN 50	0901353
				DN 65	0901354
				DN 80	0901355
DN 100	0901356				
DN 125	0901357				
DN 150	0901358				
DN 200	0901359				
3	Guide bush with seal	DN 50	0900255		
		DN 65	0900256		
		DN 80	0900257		
		DN 100	0900258		
		DN 125	0900259		
		DN 150	0900260		
		DN 200	0900261		
		4	Seat bush with seal	DN 50	0900247
				DN 65	0900248
				DN 80	0900249
DN 100	0900250				
DN 125	0900251				
DN 150	0900252				
DN 200	0900253				
5	Pressure gauge		M39M-A16		
	Ranges 0 - 16 bar				
6	Pressure gauge		M39M-A10		
	Ranges 0 - 10 bar				
7	Pressure gauge		M07M-A10		
	Ranges 0 - 10 bar				

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