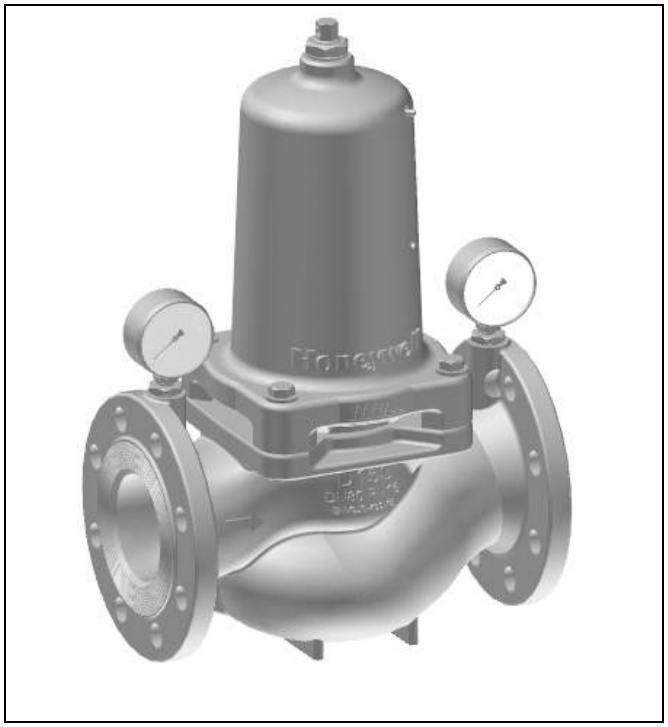
Honeywell

D15S

Diaphragm-actuated pressure reducing valve with cartridge insert

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
- Cartridge insert
- Pressure gauge

Materials

- Housing made of ductile cast iron (EN-GJS-400-15 EN1563), coated with PA (Rilsan)
- Spring bonnet made of ductile cast iron (EN-GJS-400-15 EN1563), coated with PA (Rilsan)
- Cartridge insert made completely of low-lead (<2.2% acc. to DIN 50930 part 6) brass with stainless steel valve spindle
- Spring steel adjustment spring
- Diaphragm and seals made of EPDM
- Groove ring and sealing disc made of high-quality PU
- 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

- Patented cartridge solution for easy assembly and maintenance
- One cartridge insert fits all nominal widths, making warehousing efficient
- Meets all requirements of DIN EN 1567
- None of the materials used exceed the permissible limits for lead content specified by DIN 50930 Part 6
- Functionality and performance have been confirmed by an accelerated life test with over 400,000 cycles (requirement acc. to DIN EN 1567: 200,000 cycles)

Range of Application

Medium	Drinking water
Inlet pressure	max. 16 bar
Outlet pressure	1.5 - 6.5 bar

Technical Data

Operating temperature	max. 65°C
Nominal pressure	PN16
Minimum pressure drop	1.0 bar
Nominal size	DN65, DN80, DN100

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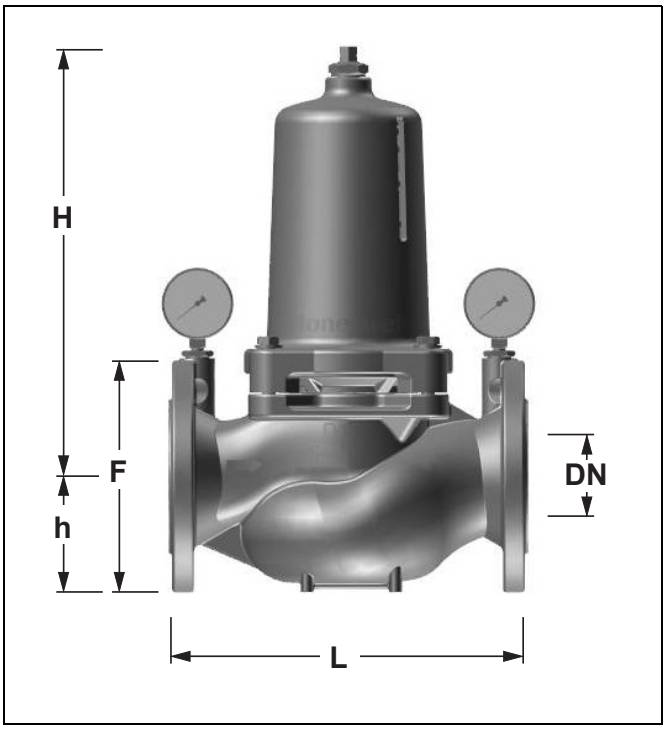


Method of Operation

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 water 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

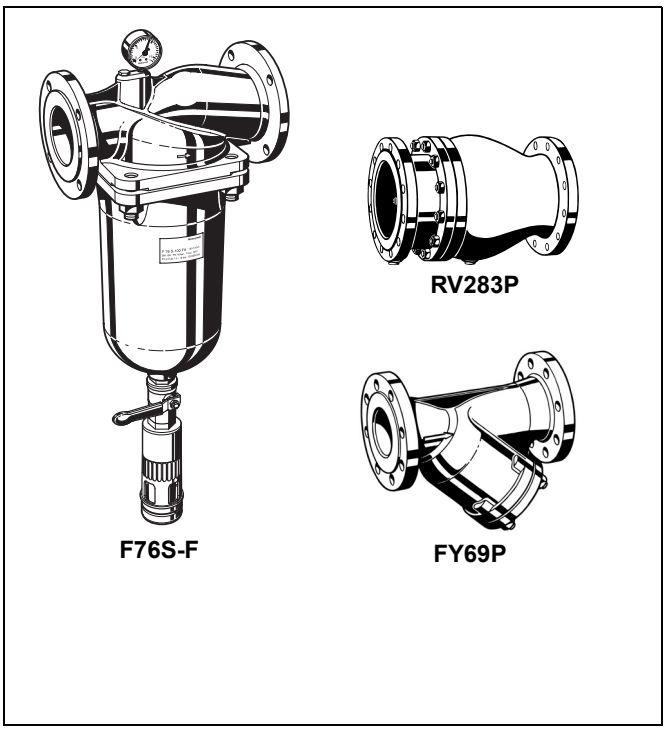
D15S-... A = With flanges PN 16, ISO 7005-2, EN 1092-2

Housing made of ductile cast iron (EN-GJS-400-15 EN1563), coated with PA (Rilsan)

Special Versions available on request

Connection size

Connection size	DN	65	80	100
	inch	2 1/2"	3"	4"
Weight	approx. kg	30.5	32	34.5
Dimensions	mm			
	L	290	310	350
	H	370	370	370
	h	93	100	110
	F	185	200	220
k_{VS}-value		47	70	110



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

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

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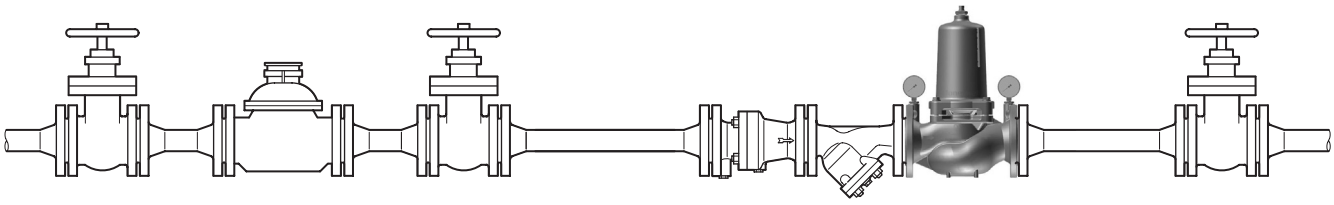
Installation Example



Connection size	DN	65	80	100
	inch	2 1/2"	3"	4"
W*	mm	120	130	145

*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 DIN EN806 part 2)

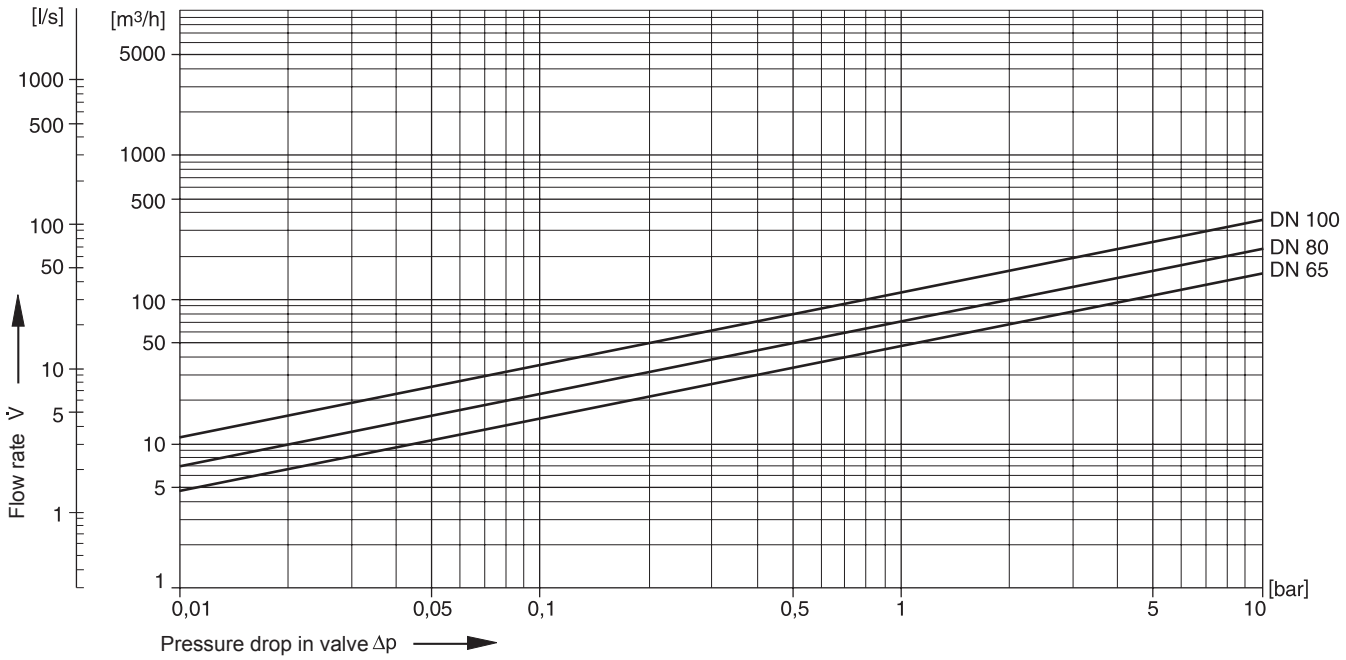
Typical Applications

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



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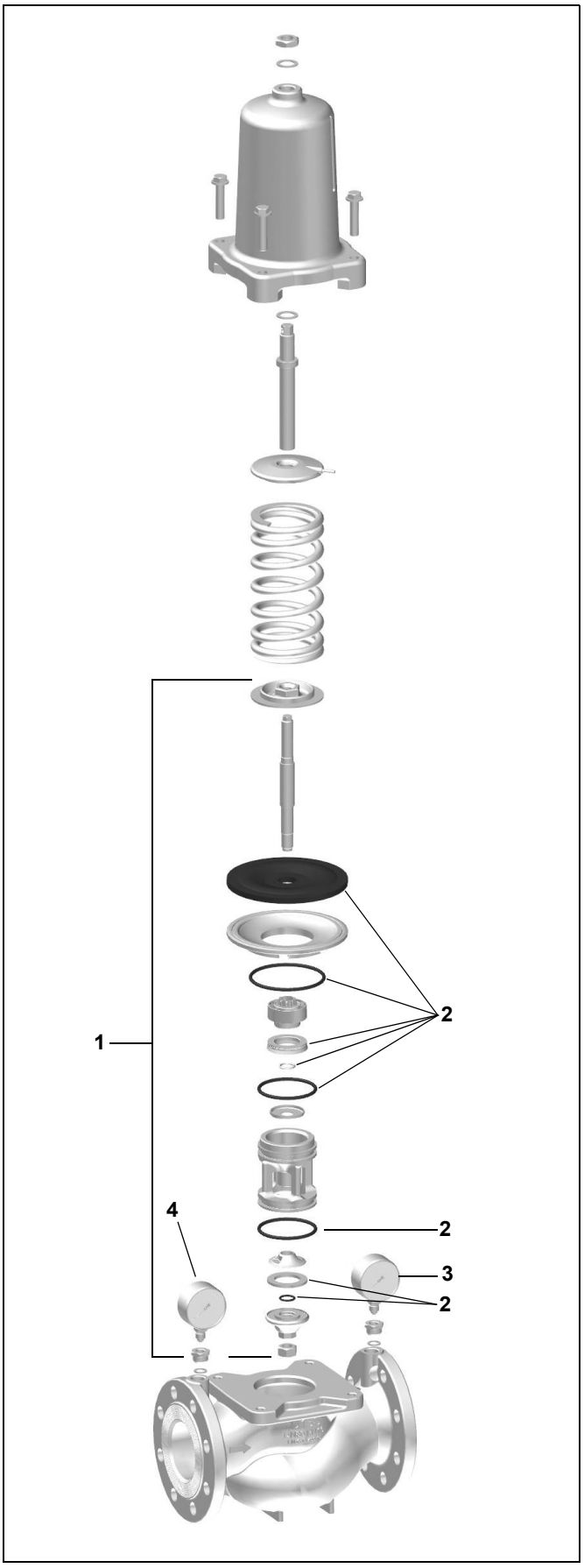

Spare Parts

Pressure Reducing Valve D15S, from 2012 onwards

No.	Description	Dimension	Part No.
1	Valve insert complete	DN65-100	0904120
2	Set of seals complete	DN65-100	0904121
3	Pressure gauge Ranges 0 - 10 bar		M39M-A10
4	Pressure gauge Ranges 0 - 16 bar		M39M-A16

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