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Honeywell



Baumer Group









Fine Controls (UK) LTD, Bassendale Road, Croft Business Park, Bromborough, Wirral, CH62 3QL UK Tel: 0151 343 9966 Email: sales@finecontrols.com

Honeywell

D15NP

Pressure reducing valve with balanced seat Low pressure pattern



Application

Pressure reducing valves of this type protect installations against excessive pressure from the supply. They can be used for 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 (except for DN200)
- The adjustment spring is not in contact with the potable water
- With inlet and outlet pressure gauge (DN80-DN150) or with outlet pressure gauge (DN50, DN65, DN200)
- Inlet pressure balancing fluctuating inlet pressure does not influence outlet pressure
- Powder coated inside and outside Powder used is physiologically and toxicologically safe

Range of Application

Medium	Water, compressed air* and nitrogen* ir consideration of valid standards (e.g. DI EN 12502)			
Inlet pressure	max. 16 bar			
Outlet pressure	0.2 - 2 bar			
Technical Data				
Operating tempera- ture	max. 70°C			

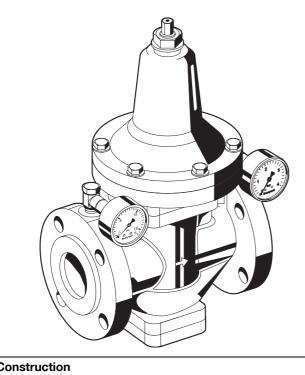
oporating tompora	111000			
ture				
Nominal pressure	PN16			
Minimum pressure	0.5 bar			
drop				
Diaphragm pressure	max. 3.0 bar			
loading				
Nominal size	DN50 - DN200			

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

Construction

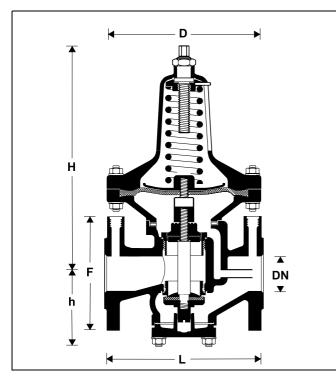
- Housing with PN16 flanges per ISO7005-2, EN1092-2 •
- Spring bonnet with adjustment screw
- Adjustment spring
- Valve system complete with diaphragm •
- . Pressure gauge

- Grey cast iron housing .
- Cast iron spring bonnet
- Bronze valve seat
- Bronze piston guide
- Cone up to DN150: brass, DN200: steal .
- Spring steel adjustment spring
- EPDM diaphragm
- NBR seal collar
- NBR seals
- Stainless steel screws and nuts



The pressure reducing valve comprises:

Materials



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.

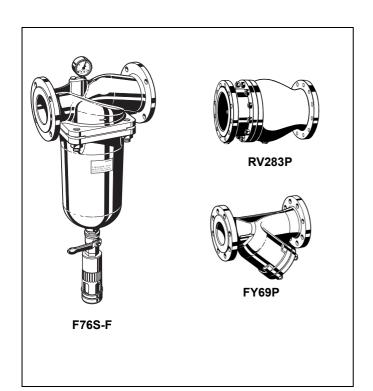
Options

D15NP-... A = With PN 16 flanged connections to DIN 2533

and BS 4504, cast iron housing

Special Versions available on request Connection size

Connection size	DN	50	65	80	100	125	150	200
Weight	kg	21	37	54	87.5	135	196	580
Dimensions	mm							
	L	230	290	310	350	400	480	600
	approx. H	300	370	415	515	575	670	1430
	h	106	126	154	183	210	248	305
	D	192	260	295	410	440	510	780
	F	165	185	200	220	250	285	340
k _{vs} -value	m ³ /h	28	47	70	110	180	250	380



Accessories

RV283P Check valve

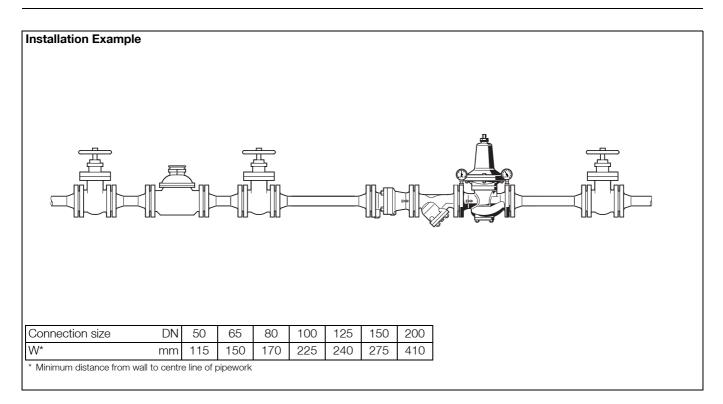
Grey cast iron housing, powder coated inside and outside. DIN/DVGW tested in compulsory test sizes DN 65, DN 80 and DN 100

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



Installation Guidelines

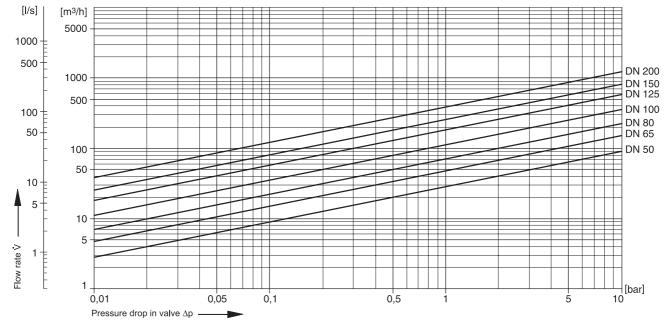
- Install in horizontal pipework with spring bonnet directed upwards
- Install shutoff valves
- The installation location should be protected against frost and be easily accessible
 - o Pressure gauge can be read off easily
 - o Simplified maintenance and cleaning
- Install downstream of the filter or 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 1988, Part 5)

Typical Applications

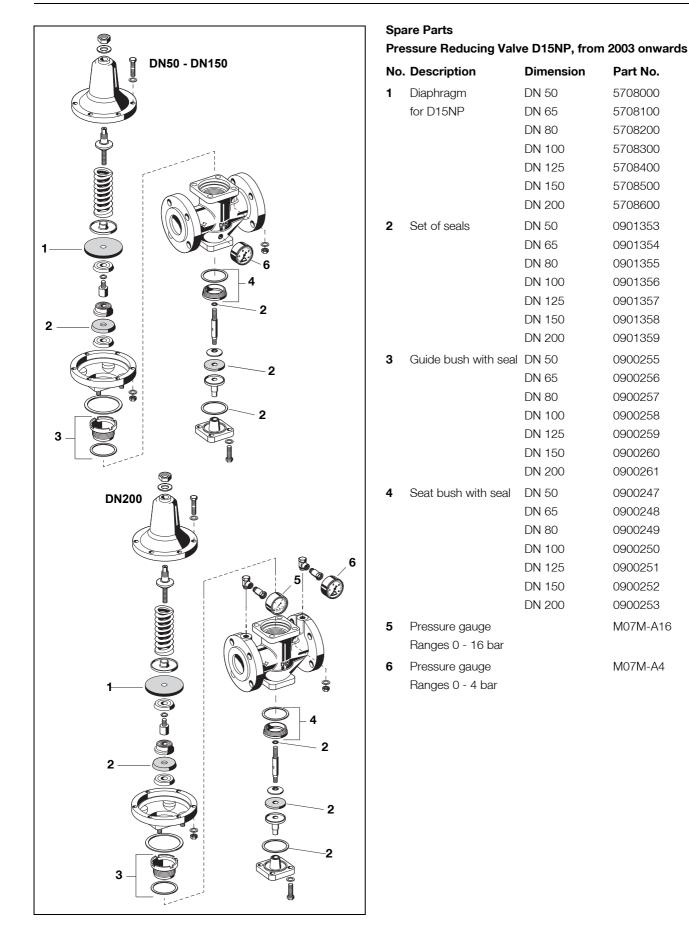
Pressure reducing valves of this type are suitable for multi dwelling buildings, industrial and commercial applications within the range of their specifications.

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



Automation and Control Solutions

Honeywell GmbH Hardhofweg D-74821 Mosbach Phone: (49) 6261 810 Fax: (49) 6261 81309 http://europe.hbc.honeywell.com www.honeywell.com Manufactured for and on behalf of the Environment and Combustion Controls Division of Honeywell Technologies Sàrl, Ecublens, Route du Bois 37, Switzerland by its Authorised Representative Honeywell GmbH ENOH-1008GE25 R0307 Subject to change © 2007 Honeywell GmbH

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