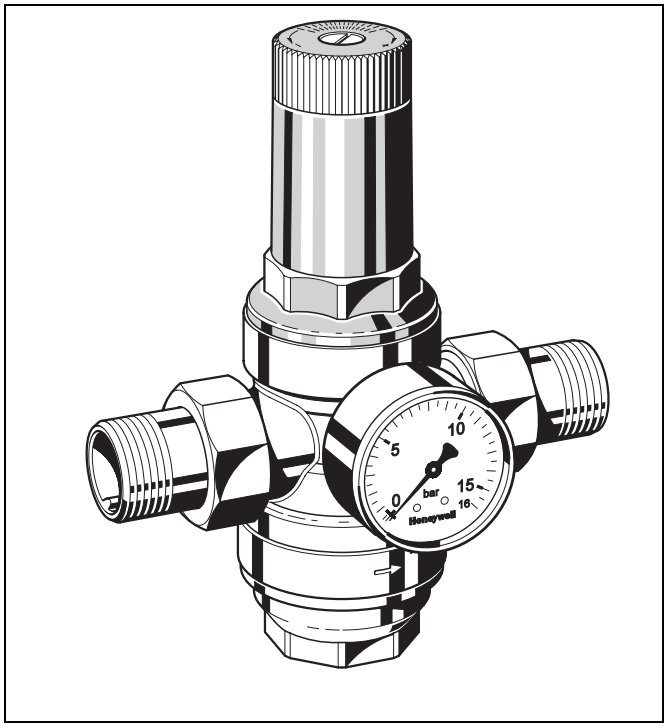
Honeywell

D06FH

Pressure reducing valve with balanced seat
High pressure pattern

Product specification sheet



Construction

The pressure reducing valve comprises:

- Housing with pressure gauge connections on both sides
- Threaded male connections (options A & B)
- Valve insert complete with diaphragm and valve seat
- Fine filter with 0.16 mm mesh
- Spring bonnet with adjustment knob
- Filter bowl
- Adjustment spring
- Pressure gauge not included (see accessories)

Materials

- Dezincification resistant brass housing
- Brass threaded connections
- High-quality synthetic material valve insert
- Stainless steel fine filter mesh
- High-quality synthetic material spring bonnet with adjustment knob and setting scale
- Brass filter bowl
- Spring steel adjustment spring
- Fibre-reinforced NBR diaphragm
- NBR and EPDM seals

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

- WRAS approved according to BSEN1567
- The outlet pressure is set by turning the adjustment knob
- The adjustment spring is not in contact with the potable water
- The valve insert is of high quality synthetic material and can be fully exchanged
- Integral fine filter
- Also available without fittings
- Easily retrofittable to convert valve to a reverse-rinsing filter combination
- Can be retrofitted with an inlet non-return valve
- Inlet pressure balancing - fluctuating inlet pressure does not influence outlet pressure
- Light weight
- Reliable and proven
- Meets KTW recommendations for potable water

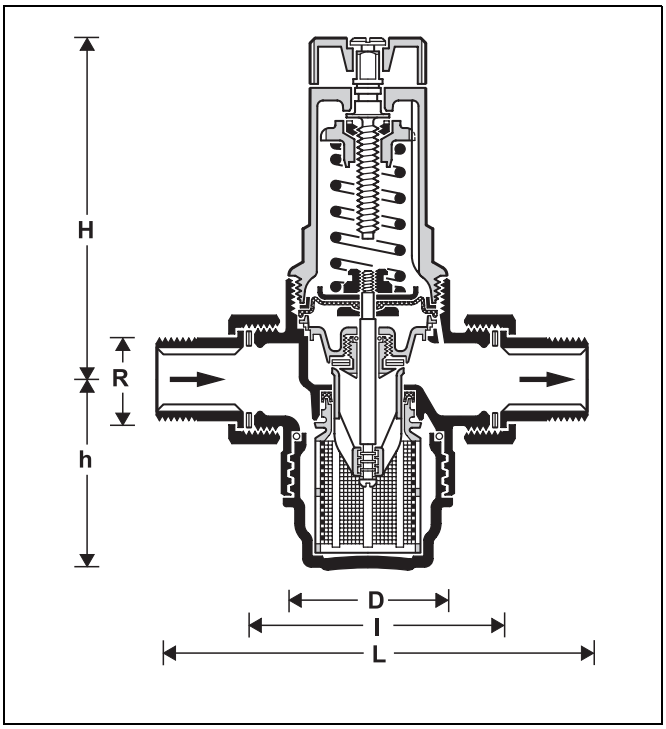
Range of Application

Medium	Water
Inlet pressure	max. 25 bar
Outlet pressure	1.5 - 12 bar (preset to 5 bar)

Technical Data

Operating temperature	max. 60°C (permanent) max. 70°C (max. operating pressure 10 bar)
Minimum pressure drop	1 bar
Connection size	$^1/_2$" - 2"

EN0H-1003GE23 R0213 • Subject to change



Method of Operation

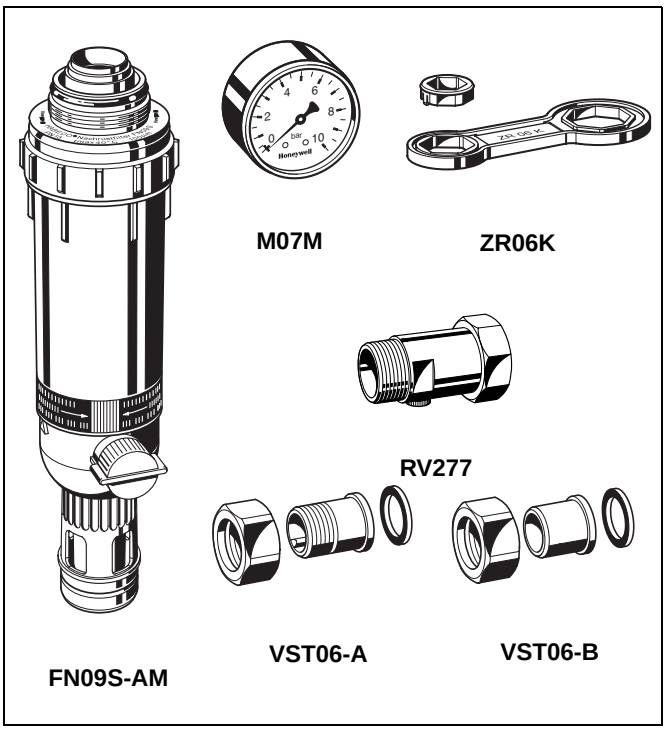
Spring loaded pressure reducing valves operate by means of a force equalising system. The force of a diaphragm operates against the force of an adjustment spring. If the outlet pressure and therefore diaphragm force fall because water is drawn, the then greater force of the spring causes the valve to 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

D06FH-...B = External threaded connection set on in- and outlet
Brass filter bowl up to 70 °C
Special Versions available on request
Connection size

Connection size	R	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Nominal size diameter	DN	15	20	25	32	40	50
Weight	ca. kg	0.8	1.0	2.2	2.4	3.4	5.1
Dimensions	mm						
	L	140	160	180	200	225	255
	I	80	90	100	105	130	140
	H	96	96	140	140	172	172
	h	56	56	77	77	113	113
	D	54	54	72	72	82	82
k_{VS}-value		2.4	3.1	7.6	9.1	12.6	12.0



Accessories

FN09S-AM HABEDO ® Retrofit filter

Reverse-rinsing filter with red bronze filter cup for retro-conversion of a pressure reducing valves to a filter combination unit

M07M Pressure gauge

Housing diameter 63 mm, rear connection thread G1/4". Ranges: 0 - 4, 0 - 10, 0 - 16 or 0 - 25 bar. Please indicate upper value of pressure range when ordering

ZR06K Double ring wrench

For removal of spring bonnet and filter bowl

RV277 Inlet check valve

Available in sizes R1/2" - 2"

VST06-A Connection set

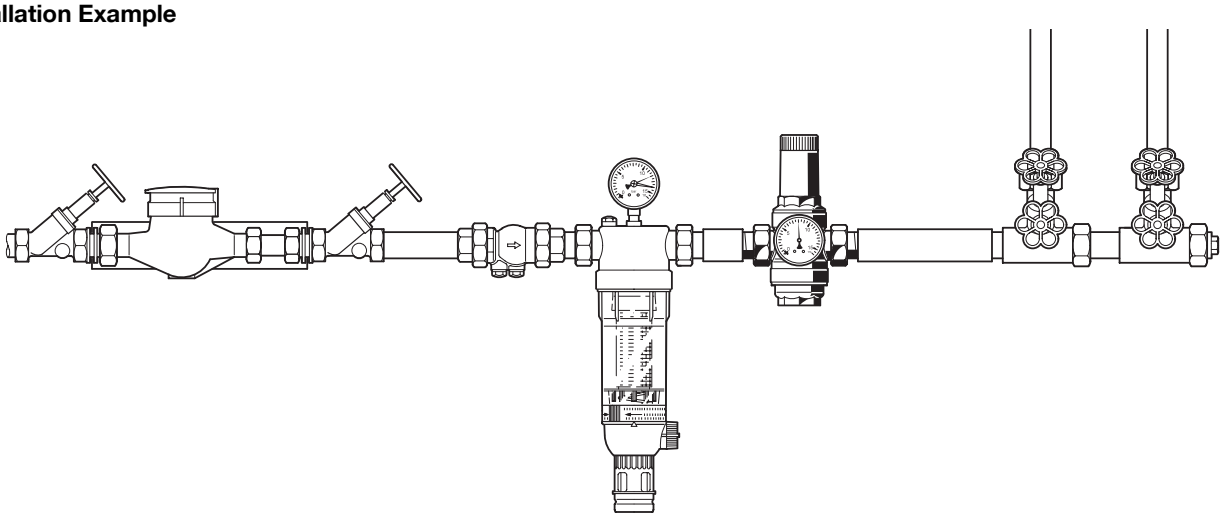
Threaded connections

VST06-B Connection set

Solder connections

EN0H-1003GE23 R0213 • Subject to change

Installation Example



Connection size	R	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
	DN	15	20	25	32	40	50
W*	mm	55	55	60	60	70	70

* Minimum distance from wall to centre line of pipework

Installation Guidelines

- Install in horizontal pipework with filter bowl downwards.
- 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)

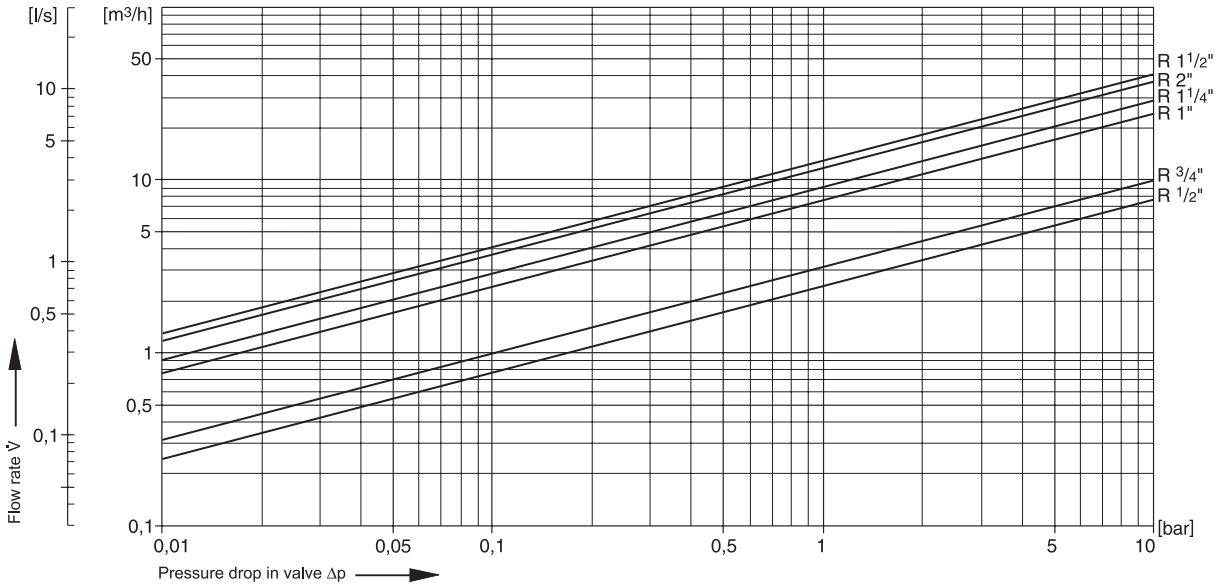
Typical Applications

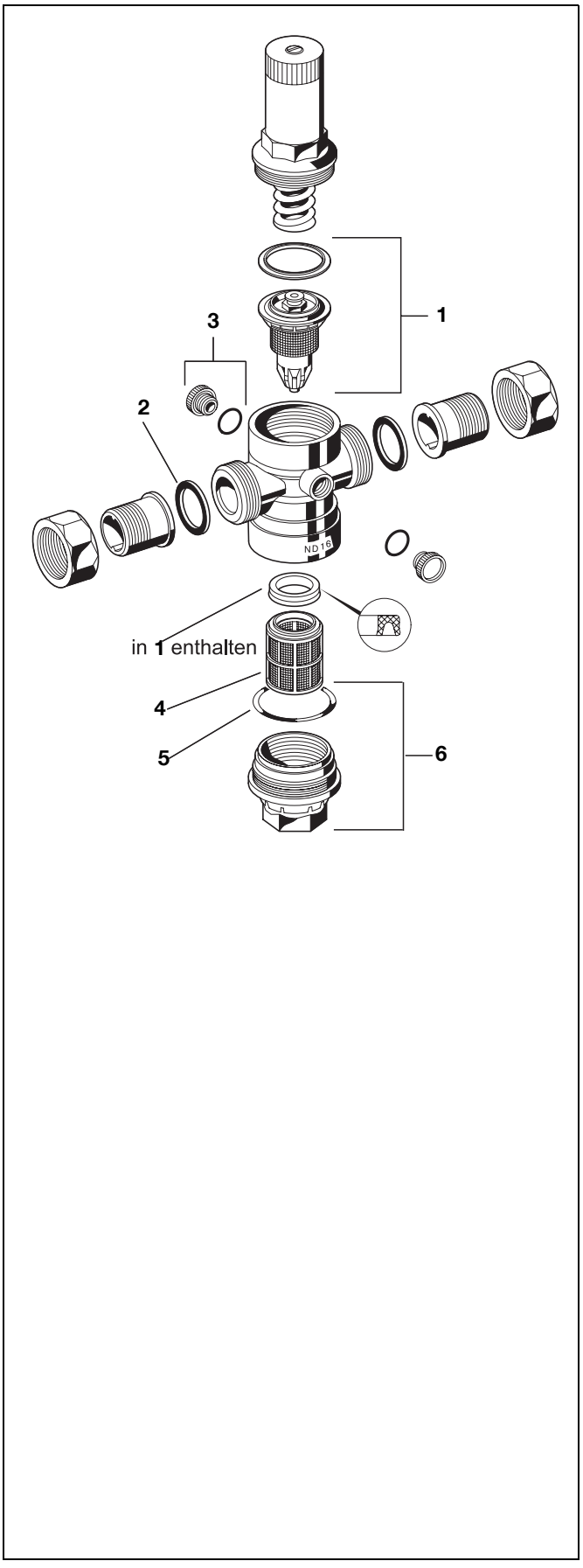
Pressure reducing valves of this type are suitable for household, industrial and commercial applications within the range of their specifications.

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

Flow Diagram





Spare Parts

Pressure Reducing Valve D06FH, from 1997 onwards

No.	Description	Dimension	Part No.
1	Valve insert complete (without filter)	$^1/_2$" + $^3/_4$"	D06FA-1/2
		1" + $1^1/_4$"	D06FA-1A
		$1^1/_2$" + 2"	D06FA-11/2
2	Union seal washer (10 pcs.)	$^1/_2$"	0901443
		$^3/_4$"	0901444
		1"	0901445
		$1^1/_4$"	0901446
		$1^1/_2$"	0901447
		2"	0901448
3	Blanking plug with O-ring R1/4" (5 pcs.)		S06K-1/4
4	Replacement filter insert	$^1/_2$" + $^3/_4$"	ES06F-1/2A
		1" + $1^1/_4$"	ES06F-1A
		$1^1/_2$" + 2"	ES06F-11/2A
5	O-ring (10 pcs.)	$^1/_2$" + $^3/_4$"	0901246
		1" + $1^1/_4$"	0901247
		$1^1/_2$" + 2"	0901248
6	Brass filter bowl with O-ring	$^1/_2$" + $^3/_4$"	SM06T-1/2
		1" + $1^1/_4$"	SM06T-1A
		$1^1/_2$" + 2"	SM06T-11/2

Automation and Control Solutions
Honeywell GmbH
Hardhofweg
74821 MOSBACH
GERMANY
Phone: (49) 6261 810
Fax: (49) 6261 81309
http://ecc.emea.honeywell.com

Manufactured for and on behalf of the Environmental and Combustion Controls Division of Honeywell Technologies Sàrl, Z.A. La Pièce 16, 1180 Rolle, Switzerland by its Authorised Representative Honeywell GmbH

EN0H-1003GE23 R0213

Honeywell