

Braukmann D06F

Pressure Reducing Valve With Balanced Seat and Set Point Scale

Application

According EN 806-2 pressure reducing valves of this type protect household water installations against excessive pressure from the supply. They can also be used for industrial or commercial applications within the range of their specification.

By installing a pressure reducing valve, pressurization 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.

Approvals

- DVGW
- WRAS (up to 23 °C)

Special Features

- Inlet pressure balancing – no influence on outlet pressure by fluctuating inlet pressure
- Up to size 1¹/₄" approved by LGA for low noise, Group 1 without limitations
- The valve insert is of high-quality synthetic material and can be fully exchanged
- The outlet pressure is set by turning the adjustment knob
- The set pressure is directly indicated on the set point scale
- The adjustment spring is not in contact with the drinking water
- Integral fine filter
- Also available without fittings
- Conforms to BSEN 1567
- All materials are UBA conform
- ACS certified
- 5-year warranty

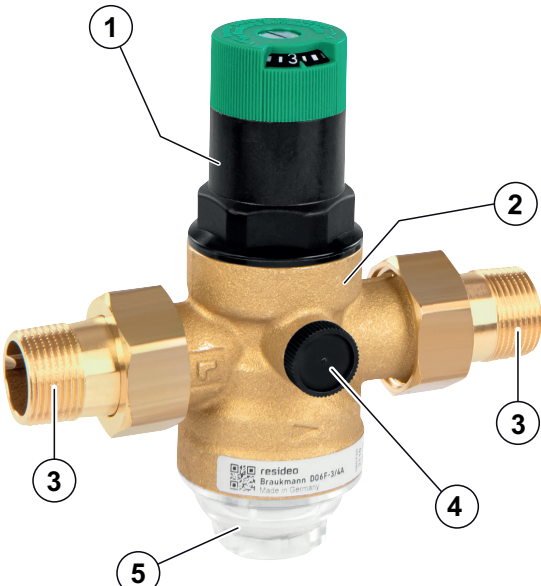


Technical Data

Media	
Medium:	Drinking water
Connections/Sizes	
Connection size:	1/2" - 2"
Nominal sizes:	DN 15 - DN 50
Pressure values	
Max. inlet pressure with clear filter bowl:	16 bar
Max. inlet pressure with brass filter bowl:	25 bar
Outlet pressure:	1.5 - 6 bar
Preset outlet pressure:	3 bar
Min. pressure drop:	1 bar
Operating temperatures	
Max. operating temperature medium (10 bar/brass filter bowl):	70 °C
Max. operating temperature medium accord. to EN 1567:	30 °C

Note: Use the SM06T brass filter bowl, if the valve can be exposed to UV radiation or solvent vapors.

Construction

Overview		Components	Materials
	1	Spring bonnet with adjustment knob and setting scale	High-quality synthetic material
	2	Housing with pressure gauge connections on both sides	Dezincification-resistant brass
	3	Threaded male connections (options A & B)	Brass
	4	Pressure gauge connection	-
	5	Filter bowl	Clear synthetic or brass
Not depicted components:			
Adjustment spring			Spring steel
Valve insert complete with diaphragm and valve seat			High-quality synthetic material, EPDM diaphragm
Fine filter with 0.16 mm mesh			Stainless steel
Pressure gauge (see accessories)			High-quality synthetic material
Seals			EPDM

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.

Transportation and Storage

Keep parts in their original packaging and unpack them shortly before use.

The following parameters apply during transportation and storage:

Parameter	Value
Environment:	clean, dry and dust free
Min. ambient temperature:	5 °C
Max. ambient temperature:	55 °C
Min. ambient relative humidity:	25 % *
Max. ambient relative humidity:	85 % *

*non condensing

Installation Guidelines

Setup requirements

- Horizontal and vertical installation position possible
- Install shut-off valves before and after D06F for maintenance
- Inlet pressure to outlet pressure setting should not exceed value more than 3:1
- The device downstream should be protected by means of a safety valve (installed downstream of the pressure reducing valve). In these cases the delivery pressure of the pressure reducing valve shall be set to at least 20 % below the response pressure of the pressure relief-valve according to EN 806-2
- The installation location should be protected against frost and be easily accessible
 - Pressure gauge can be read off easily
 - With clear filter bowl, degree of contamination can be easily seen
 - Simplified maintenance and cleaning
- Install downstream of the filter or strainer
 - 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 EN 806-2)
- Requires regular maintenance in accordance with EN 806-5

Installation Example

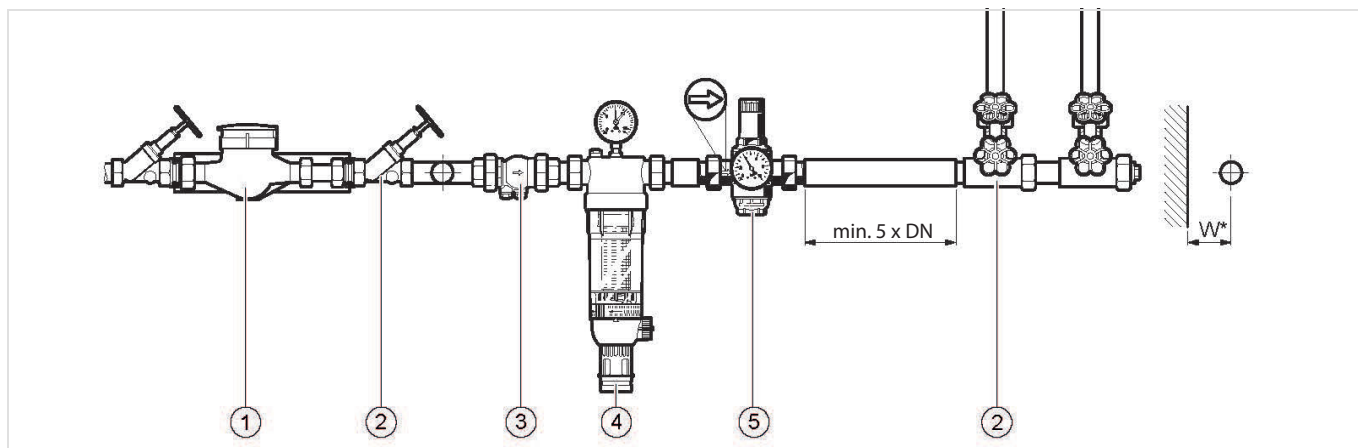


Fig. 1 Standard installation example for the pressure reducing valve

- 1 Water meter
- 2 Shut-off valve
- 3 Check valve
- 4 Filtering unit
- 5 Pressure reducing valve

Connection size:	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Distance in mm (W*):	55	60	60	60	70	70

* Required installation distances between the centerline of the pipework and the surrounding in dependency of the connection size.

Technical Characteristics

kvs-Values

Nominal size diameter:	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50
Connection size:	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
k _{vs} -value (m ³ /h):	2.4	3.1	5.8	5.9	12.6	12.0
IfBt designation:	P-IX 1582/I	P-IX 1582/I	P-IX 1582/I	P-IX 1582/I	- *	- *
DVGW registration number:	DW-6330 AT 2314					

* Compulsory testing in sizes R 1/2" to R 1 1/4"

Pressure drop characteristics

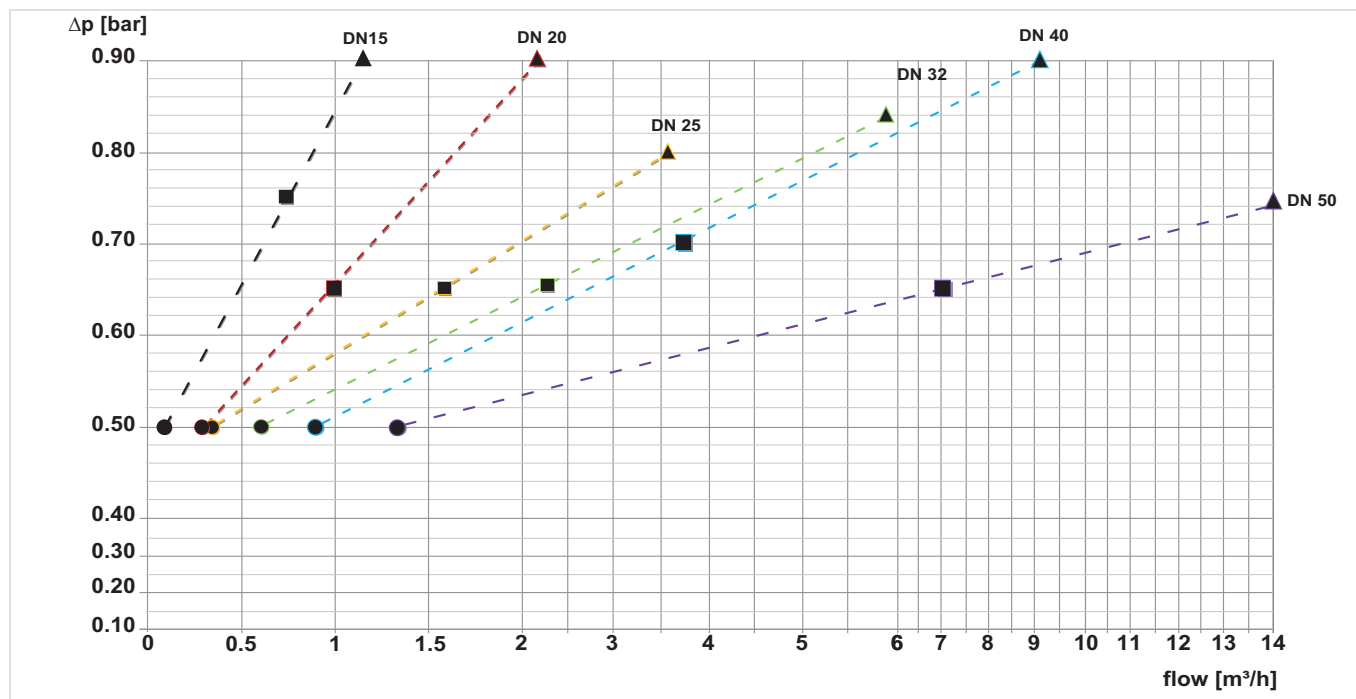


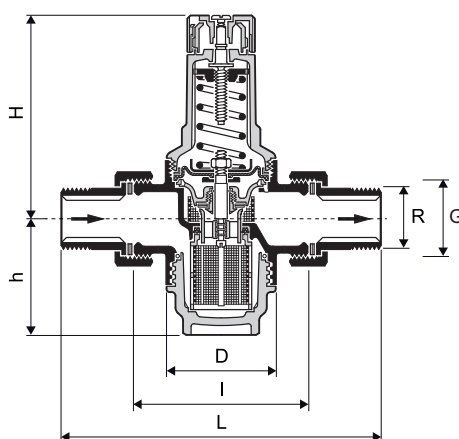
Fig. 2 Pressure drop within the valve in dependency of the flow rate and the used connection size

Pressure setting: P1: 8 bar, P2: 3 bar

Nominal size diameter	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50
● $\triangleq$ 10% of standard flow	0.13 m ³ /h	0.32 m ³ /h	0.36 m ³ /h	0.58 m ³ /h	0.91 m ³ /h	1.4 m ³ /h
■ $\triangleq$ 1m/s flow rate	0.75 m ³ /h	1.00 m ³ /h	1.6 m ³ /h	2.3 m ³ /h	3.75 m ³ /h	7 m ³ /h
▲ $\triangleq$ 2m/s flow rate = QN	1.27 m ³ /h	2.27 m ³ /h	3.6 m ³ /h	5.8 m ³ /h	9.1 m ³ /h	14 m ³ /h
Flow rate 4m/s flow velocity	2.54 m ³ /h	4.54 m ³ /h	7.2 m ³ /h	11.6 m ³ /h	18.2 m ³ /h	28 m ³ /h

Dimensions

Overview



Parameter		Values					
Nominal size diameter:	DN	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50
Connection size:	R	R ^{1/2"}	R ^{3/4"}	R1"	R1 ^{1/4"}	R1 ^{1/2"}	R2"
	G	G ^{3/4"}	G1"	G1 ^{1/4"}	G1 ^{1/2"}	G2"	G2 ^{1/2"}
Weight:	kg	0.8	1.0	1.4	2.0	3.3	4.5
Dimensions:	L	140	160	180	200	225	255
	I	80	90	100	105	130	140
	H	89	89	111	111	173	173
	h	58	58	64	64	126	126
	D	54	54	61	61	82	82

Note: All dimensions in mm unless stated otherwise.

Ordering Information

The following tables contain all the information you need to make an order of an item of your choice.

Options

Connection size	Nominal size diameter	Filter bowl	Max. inlet pressure	Max. medium temperature	Item No.
Connection set for in- and outlet, with clear filter bowl					
1/2"	DN 15	Clear	16 bar	30 °C	D06F-1/2A
3/4"	DN 20	Clear	16 bar	30 °C	D06F-3/4A
1"	DN 25	Clear	16 bar	30 °C	D06F-1A
1 1/4"	DN 32	Clear	16 bar	30 °C	D06F-1 1/4A
1 1/2"	DN 40	Clear	16 bar	30 °C	D06F-1 1/2A
2"	DN 50	Clear	16 bar	30 °C	D06F-2A
Connection set for in- and outlet, with brass filter bowl					
1/2"	DN 15	Brass	25 bar	70 °C	D06F-1/2B
3/4"	DN 20	Brass	25 bar	70 °C	D06F-3/4B
1"	DN 25	Brass	25 bar	70 °C	D06F-1B
1 1/4"	DN 32	Brass	25 bar	70 °C	D06F-1 1/4B
1 1/2"	DN 40	Brass	25 bar	70 °C	D06F-1 1/2B
2"	DN 50	Brass	25 bar	70 °C	D06F-2B
External thread housing connection, with clear filter bowl					
1/2"	DN 15	Clear	16 bar	30 °C	D06F-1/2E
3/4"	DN 20	Clear	16 bar	30 °C	D06F-3/4E
1"	DN 25	Clear	16 bar	30 °C	D06F-1E
1 1/4"	DN 32	Clear	16 bar	30 °C	D06F-1 1/4E
1 1/2"	DN 40	Clear	16 bar	30 °C	D06F-1 1/2E
2"	DN 50	Clear	16 bar	30 °C	D06F-2E

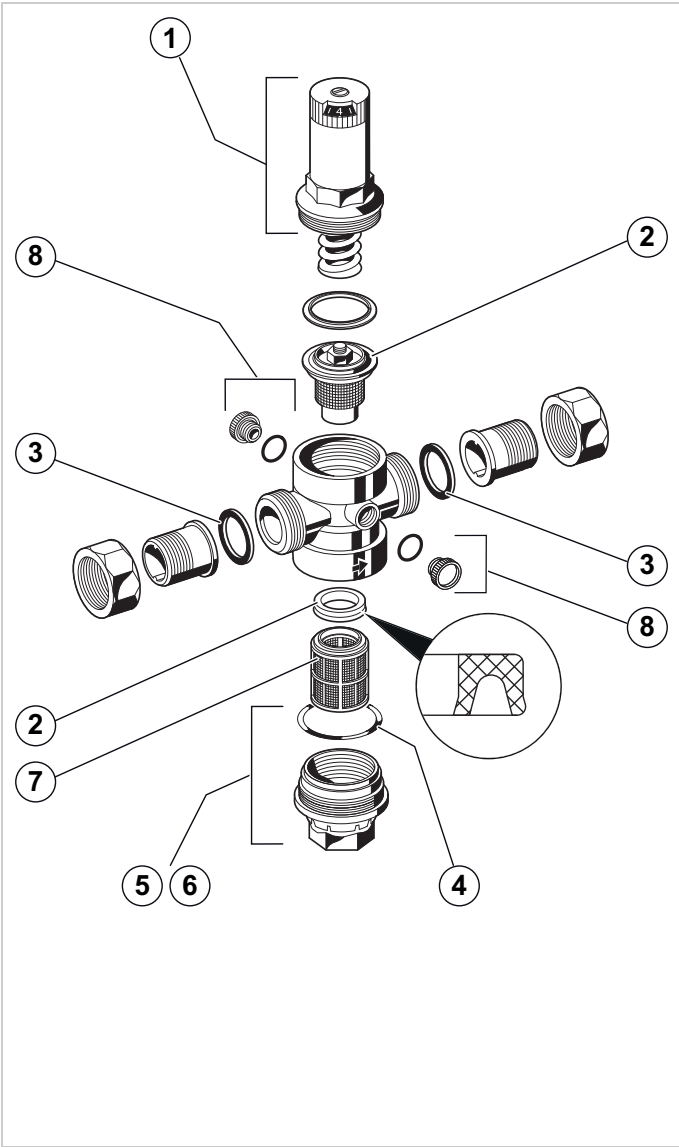
Accessories

	Description	Dimension	Item No.
	M07M	Pressure gauge	
		Housing diameter 63 mm, rear connection thread G 1/4"	
		Range: 0 - 4 bar	M07M-A4
		Range: 0 - 10 bar	M07M-A10
		Range: 0 - 16 bar	M07M-A16
	ZR06K	Double ring wrench	
		For removal of spring bonnet and filter bowl	
	VST06A	Connection set	
		Threaded connections	
		1/2"	VST06-1/2A
		3/4"	VST06-3/4A
		1"	VST06-1A
		1 1/4"	VST06-11/4A
		1 1/2"	VST06-11/2A
	VST06B	Connection set	
		Solder connections	
		1/2"	VST06-1/2B
		3/4"	VST06-3/4B
		1"	VST06-1B
		1 1/4"	VST06-11/4B
		1 1/2"	VST06-11/2B
		2"	VST06-2B

Spare Parts

Pressure Reducing Valve D06F, from 1997 onwards

Overview



	Description	Dimension	Item No.
1	Spring bonnet without spring with setting scale		
		1/2" - 3/4"	0901515
		1" + 1 1/4"	0901516
		1 1/2" + 2"	0901518
2	Valve insert complete (without filter)		
		1/2" + 3/4"	D06FA-1/2
		1" + 1 1/4"	D06FA-1B
		1 1/2" + 2"	D06FA-11/2
3	Union seal washer (10 pcs.)		
		1/2"	0901443
		3/4"	0901444
		1"	0901445
		1 1/4"	0901446
		1 1/2"	0901447
		2"	0901448
4	O-ring set (10 pcs.)		
		1/2" + 3/4"	0901246
		1" + 1 1/4"	0901499
		1 1/2" + 2"	0901248
5	Clear filter bowl with O-ring		
		1/2" + 3/4"	SK06T-1/2
		1" + 1 1/4"	SK06T-1B
		1 1/2" + 2"	SK06T-11/2
6	Brass filter bowl with O-ring		
		1/2" + 3/4"	SM06T-1/2
		1" + 1 1/4"	SM06T-1B
		1 1/2" + 2"	SM06T-11/2
7	Replacement filter insert		
		1/2" + 3/4"	ES06F-1/2A
		1" + 1 1/4"	ES06F-1B
		1 1/2" + 2"	ES06F-11/2A
8	Blanking plug with O-ring R1/4" (5 pcs.)		
		1/2" - 2"	S06K-1/4

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