Braukmann D17P

Pressure reducing valve with balanced seat

Standard Pattern

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, 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

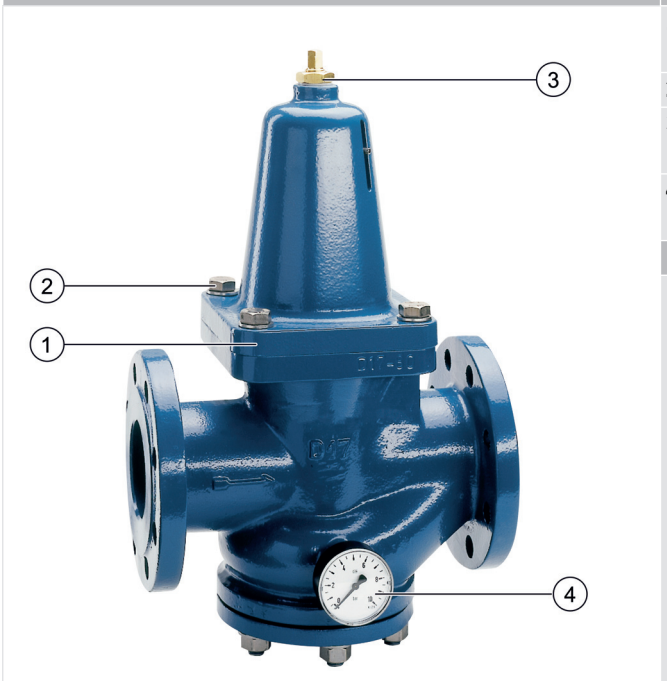
- Inlet pressure balancing – no influence on outlet pressure by fluctuating inlet pressure
- Non-rising stem for setting outlet pressure and position indicator on spring bonnet (except for DN200)
- The valve insert is of high-quality synthetic material and can be fully exchanged
- The adjustment spring is not in contact with the drinking water
- Easily retrofittable to convert valve to a reverse-rinsing filter combination
- With outlet pressure gauge
- All materials are UBA conform
- ACS certified

TECHNICAL DATA

Media	
Medium:	Drinking water
Connections/Sizes	
Connection sizes:	2" - 8"
Nominal sizes:	DN50 - DN200
Pressure values	
Max. inlet pressure:	25 bar
Outlet pressure:	1.5 - 8 bar - DN50 - DN150
	1.5 - 6 bar - DN200
Nominal pressure:	PN 25
Min. pressure drop:	1.0 bar
Max. diaphragm pressure loading:	9 bar
Operating temperatures	
Max. operating temperature medium:	65 °C

CONSTRUCTION

Overview



	Components	Materials
1	Housing with PN25 flanges to ISO 7005-2, EN 1092-2	Spherolitic cast iron
2	Screws and nuts	Stainless steel
3	Spring bonnet with adjustment screw	Cast iron
4	Pressure gauge	High-quality synthetic material
	Not depicted components:	
	Adjustment spring	Spring steel
	Cone up to DN150	Brass
	Cone DN200	Steel
	Seal collar	EPDM
	Sealing washers	EPDM
	Piston guide	Brass
	Valve system complete with diaphragm	EPDM diaphragm
	Valve seat	Brass

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

- Install in horizontal pipework with spring bonnet directed upwards
- Install shut-off valves
- The installation location should be protected against frost and be easily accessible
  - Pressure gauge can be read off easily
  - 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

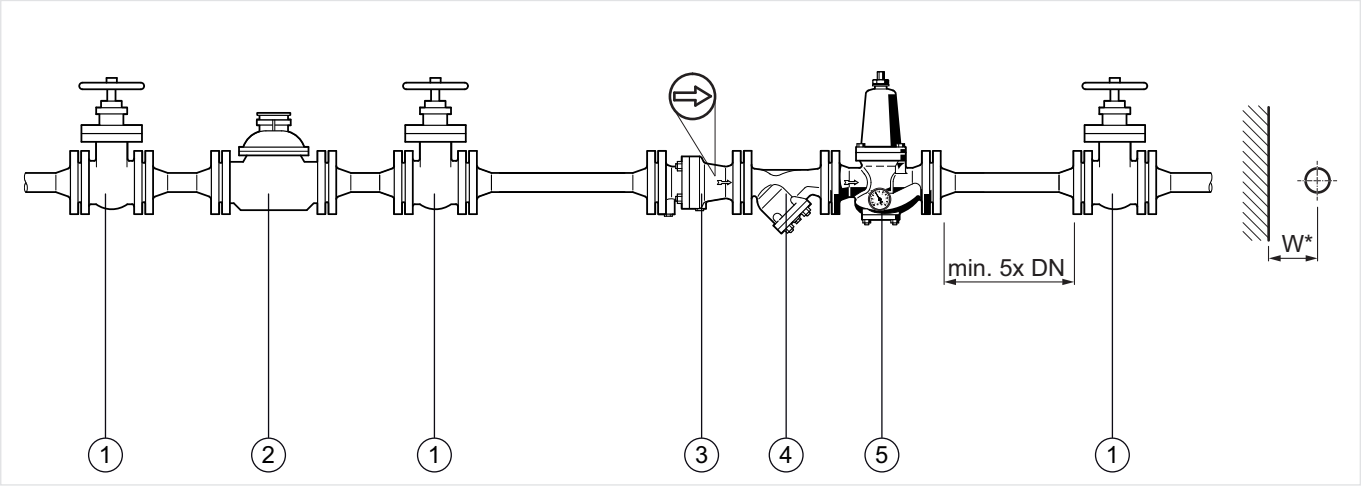


Fig. 1 Standard installation example for the pressure reducing valve

1 Shut-off valve
2 Water meter
3 Non return valve
4 Strainer
5 Pressure reducing valve

Connection sizes:	50	65	80	100	125	150	200
Distance in mm (W*):	100	120	130	145	165	180	220

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

TECHNICAL CHARACTERISTICS

kvs-Values

Connection sizes:	50	65	80	100	150	200
k_{VS}-value (m^3/h):	28	47	70	110	250	380

Pressure drop characteristics

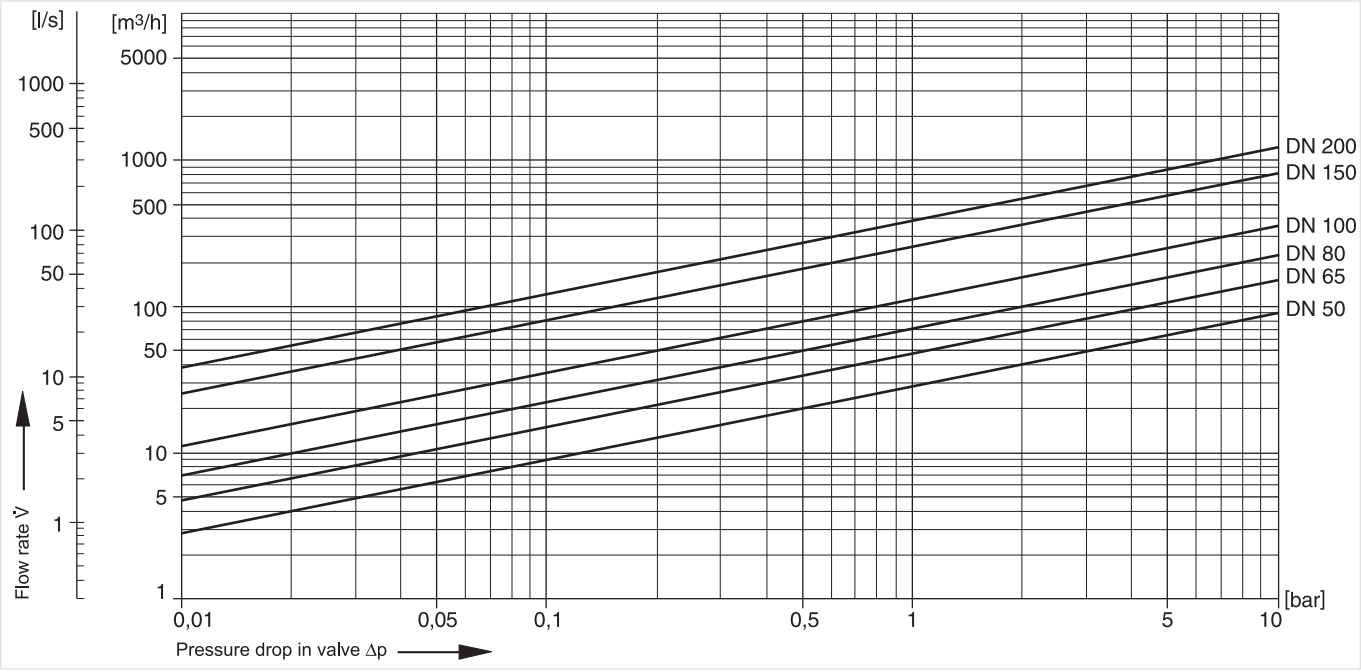
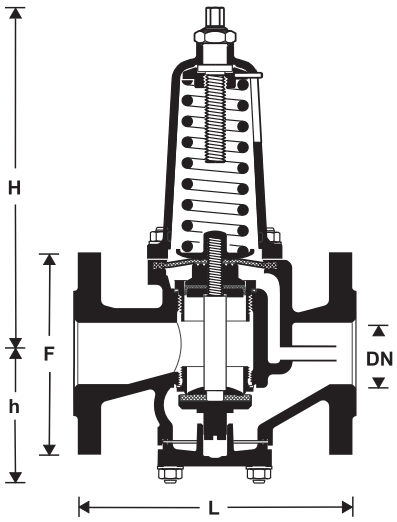


Fig. 2 Pressure drop within the valve in dependency of the flow rate and the used connection size

DIMENSIONS

Overview



Parameter		Values					
Connection sizes:	DN	50	65	80	100	150	200
Weight:	kg	16.2	28.2	41.5	67	150	408
Dimensions:	L	230	290	310	350	480	600
	H	282	315	356	418	573	1340
	h	106	126	154	183	248	305
	F	165	185	200	235	300	360

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. When ordering, please always state the type, the ordering or the part number.

Options

The valve is available in the following sizes: 50, 65, 80, 100, 150 and 200.

• standard

- not available

		D17P-...B
Connection type:	With PN 25 flanged connections to DIN 2534 and BS 4504	•
Housing:	Spherolitic cast iron	•

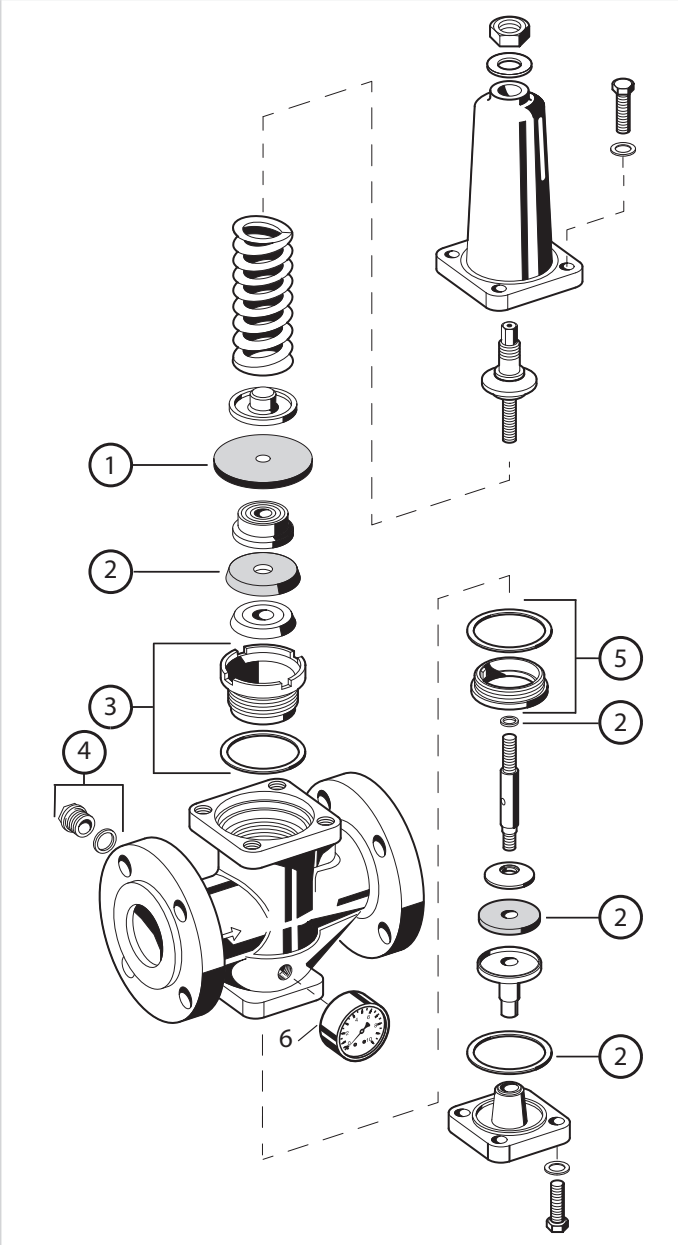
Note: ... = space holder for connection size

Note: Ordering number example for 2" and type B valve: D17P-50B

Spare Parts

Pressure Reducing Valve D17P, from 2003 onwards

Overview



	Description	Dimension	Part No.
1	**Diaphragm**		
		DN50	5707300
		DN65	5707400
		DN80	5707500
		DN100	5707600
		DN125	5707700
		DN150	5707800
		DN200	5707900
2	**Set of seals**		
		DN50	0901353
		DN65	0901354
		DN80	0901355
		DN100	0901356
		DN125	0901357
		DN150	0901358
		DN200	0901359
3	**Guide bush with seal**		
		DN50	0900255
		DN65	0900256
		DN80	0900257
		DN100	0900258
		DN125	0900259
		DN150	0900260
		DN200	0900261
4	**Hexagon-plug with copper sealing-ring R1/4" (5 pcs.)**		
		DN15 - DN40	S06M-1/4
5	**Seat bush with seal**		
		DN50	0900247
		DN65	0900248
		DN80	0900249
		DN100	0900250
		DN125	0900251
		DN150	0900252
		DN200	0900253
6	**Pressure gauge**		
		0 - 10 bar	M07M-A10

Manufactured for
and on behalf of
Pittway Sàrl, Z.A., La Pièce 4,
1180 Rolle, Switzerland

For more information
homecomfort.resideo.com/europe
Ademco 1 GmbH, Hardhofweg 40,
74821 MOSBACH, GERMANY
Phone: +49 6261 810
Fax: +49 6261 81309

© 2020 Resideo Technologies, Inc. All rights reserved.

Subject to change. EN0H1009GE23 R0420