



Braukmann D150

Pressure reducing valve with balanced seat

Standard version with setting scale

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

- Inlet pressure balancing – no influence on outlet pressure by fluctuating inlet pressure
- 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
- Easily retrofittable to convert valve to a reverse-rinsing filter combination
- Can be retrofitted with an inlet check valve
- All materials are UBA conform
- ACS certified

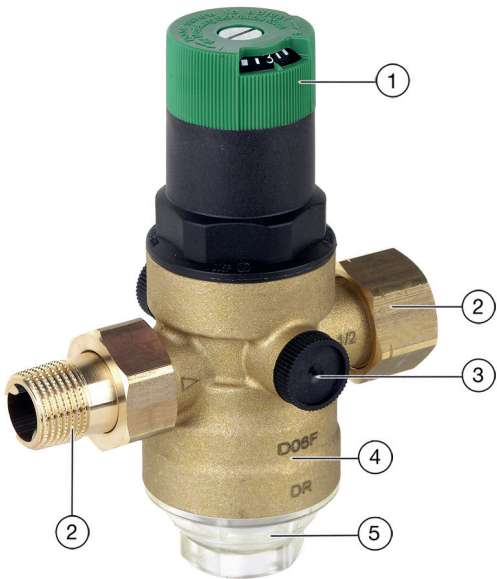


TECHNICAL DATA

Media	
Medium:	Drinking water
Connections/Sizes	
Connection sizes:	1/2"
Pressure values	
Max. inlet pressure:	16 bar
Outlet pressure:	20 % under safety valve opening pressure
Min. pressure drop:	1 bar
Operating temperatures	
Max. operating temperature medium accord. to EN 1567:	30 °C

Note: Use only in connection with the safety group SG150-1/2

CONSTRUCTION

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

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 filter bowl downwards
- Install shut-off valves
- 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
- 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

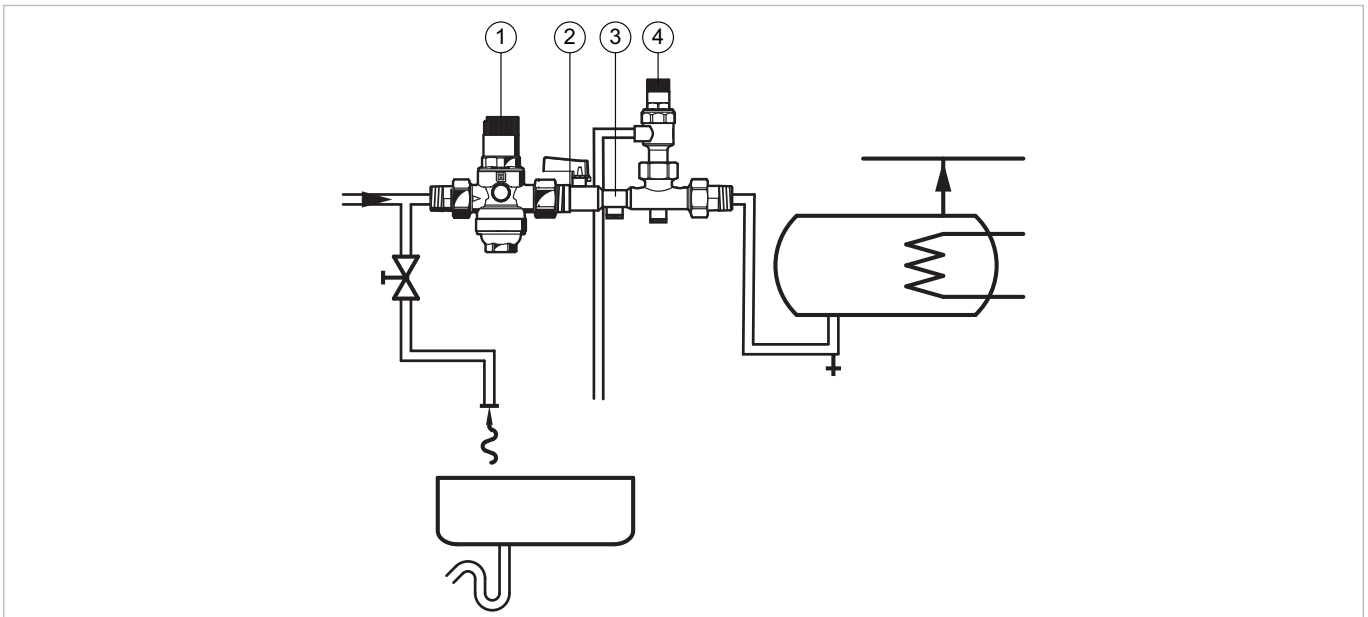


Fig. 1 Standard installation example for the pressure reducing valve

- 1 Pressure reducing valve
- 2 Shut-off valve
- 3 Check valve
- 4 Safety valve

TECHNICAL CHARACTERISTICS

kvs-Values

Connection sizes:	
R	1/2"
Nominal size:	DN15
k _{VS} -value (m ³ /h):	2.4

Pressure drop characteristics

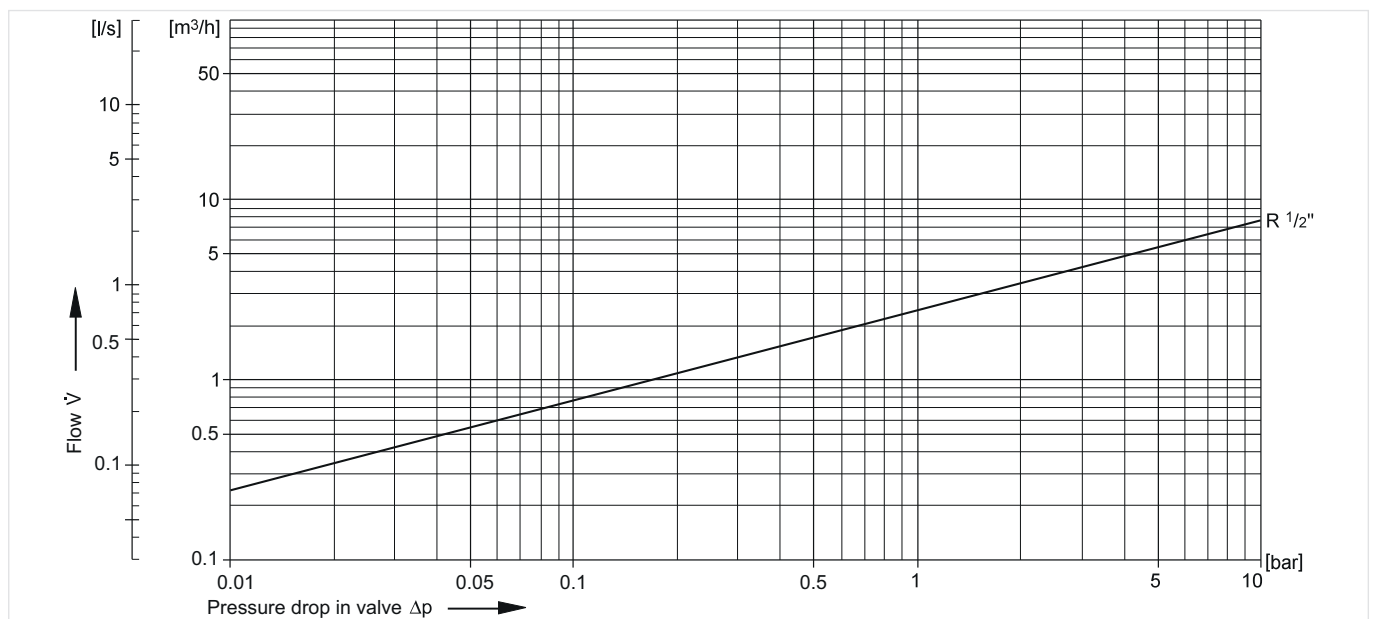
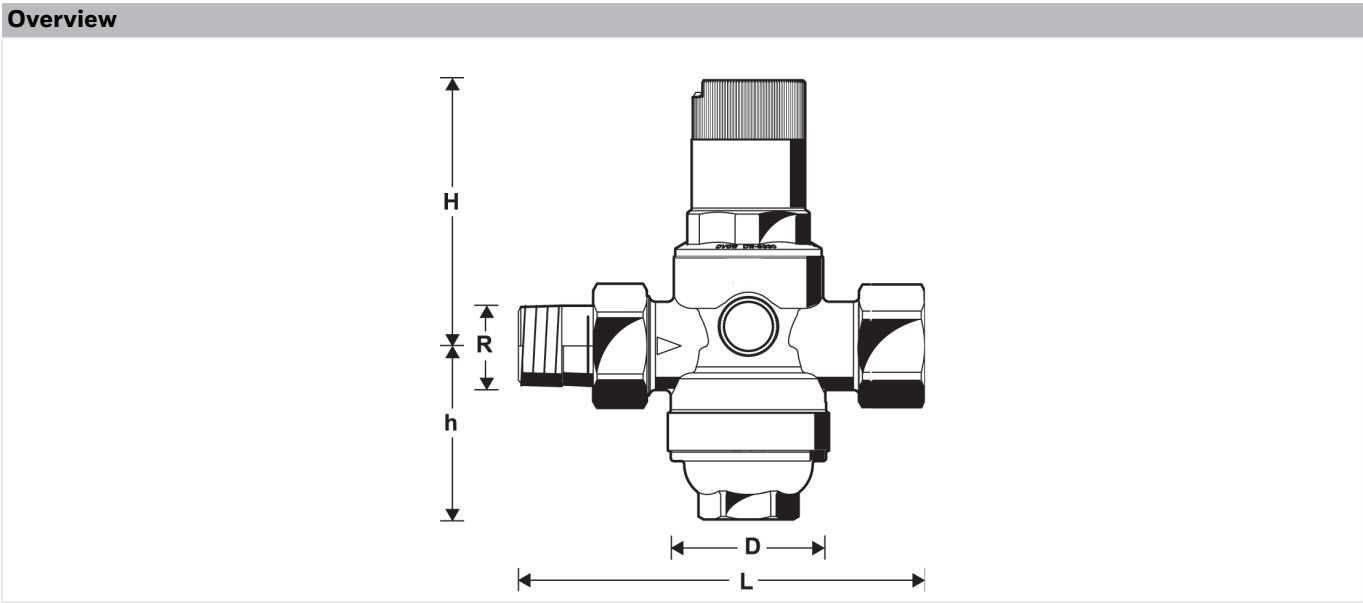


Fig. 2 Pressure drop within the valve in dependency of the flow rate and the used connection size

DIMENSIONS



Parameter		Values
Connection sizes:	R	1/2"
Nominal size diameter:	DN	15
Weight:	kg	0.8
Dimensions:	L	122
	H	89
	h	58
	D	54

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: 1/2".

- standard
- not available

		D150-1/2A
Connection type:	Standard version	•

Note: Ordering number example for 1/2" and type A valve: D150-1/2A

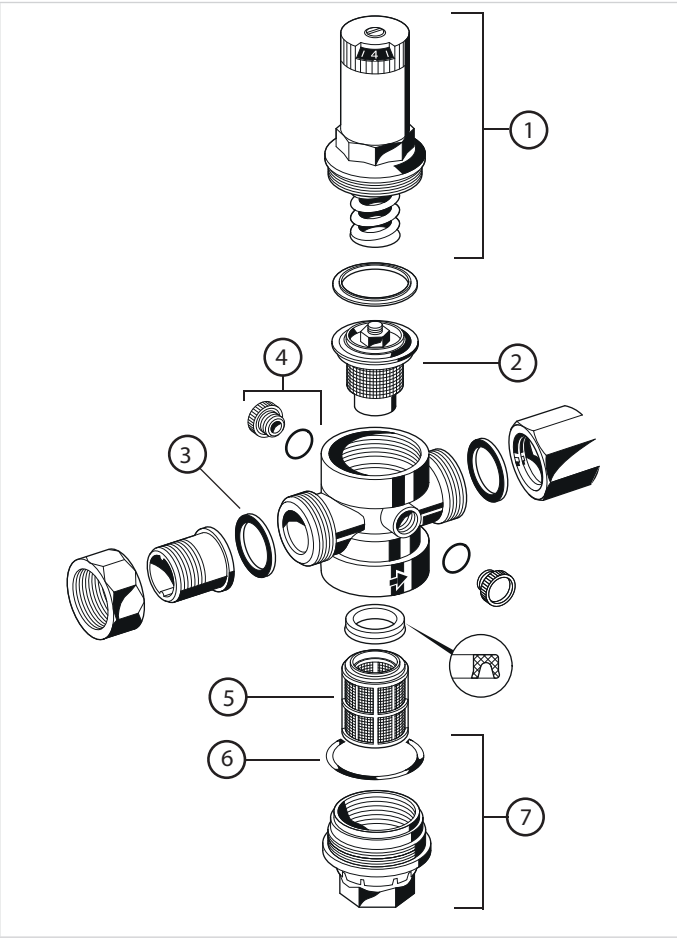
Accessories

	Description	Dimension	Part 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
	Range: 0 - 25 bar		M07M-A25
	ZR06K Double ring wrench		
	For removal of spring bonnet and filter bowl		
	VST06B Connection set		
	Solder connections		
		1/2"	VST06-1/2B
		3/4"	VST06-3/4B
		1"	VST06-1B
		1 1/4"	VST06-1 1/4B
		1 1/2"	VST06-1 1/2B
		2"	VST06-2B

Spare Parts

Pressure Reducing Valve D150, from 2007 onwards

Overview



Description	Dimension	Part No.
1 Spring bonnet complete		
	1/2"	0901515
2 Valve insert complete (without filter)		
	1/2"	D06FA-1/2
3 Union seal washer (10 pcs.)		
	1/2"	0901443
4 Blanking plug with O-ring R1/4" (5 pcs.)		
	1/4"	S06K-1/4
5 Replacement filter insert		
	1/2"	ES06F-1/2A
6 O-ring set (10 pcs.)		
	1/2"	0901246
7 Clear filter bowl with O-ring		
	1/2"	SK06T-1/2



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