D15P

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.

APPROVALS

- WRAS

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 adjustment spring is not in contact with the drinking water
- With inlet and outlet pressure gauge
- Powder-coated inside and outside - Powder used is physiologically and toxicologically safe
- All materials are ACS approved

TECHNICAL DATA

Media	
Medium:	Drinking water
Optional medium:	Compressed air*, oil free compressed air* and nitrogen* in consideration of valid standards (e.g. DIN EN 12502)
Connections/Sizes	
Connection size:	2"
Nominal size:	DN50
Pressure values	
Max. inlet pressure:	16 bar
Outlet pressure:	1.5 - 8 bar
Nominal pressure:	PN 16
Min. pressure drop:	1.0 bar
Max. diaphragm pressure loading:	9 bar
Operating temperatures	
Max. operating temperature medium:	65 °C

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

CONSTRUCTION

Overview		Components	Materials
	**1**	Housing with PN16 flanges per ISO 7005-2, EN 1092-2	Grey cast iron
	2	Spring bonnet with adjustment screw	Cast iron
		Not depicted components:	
		Piston guide	Bronze
		Valve seat	Bronze
		Adjustment spring	Spring steel
		Cone	Brass
		Pressure gauge	-
		Seal collar	EPDM
		Seals	EPDM
		Valve system complete with diaphragm	EPDM diaphragm
		Screws and nuts	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 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

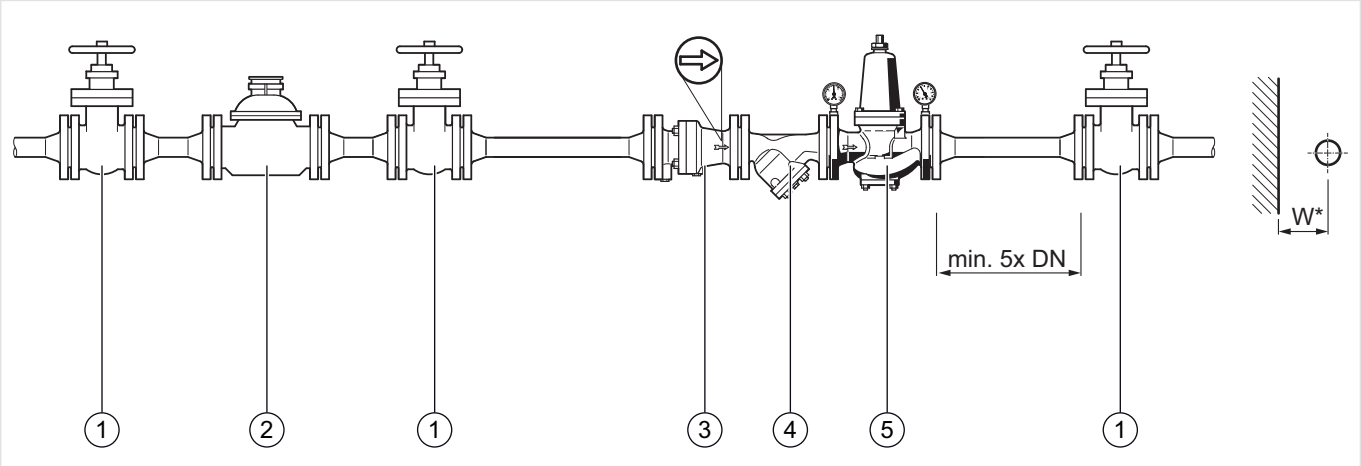


Fig. 1 Standard installation example for the pressure reducing valve

1 Shut-off gate valve
2 Water meter
3 Non return valve RV238D
4 Strainer FY69/71P
5 Pressure reducing valve

Connection sizes:	**50**
Distance in mm (W*):	100

* 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**
k_{VS}-value (m^3/h):	28

Pressure drop characteristics

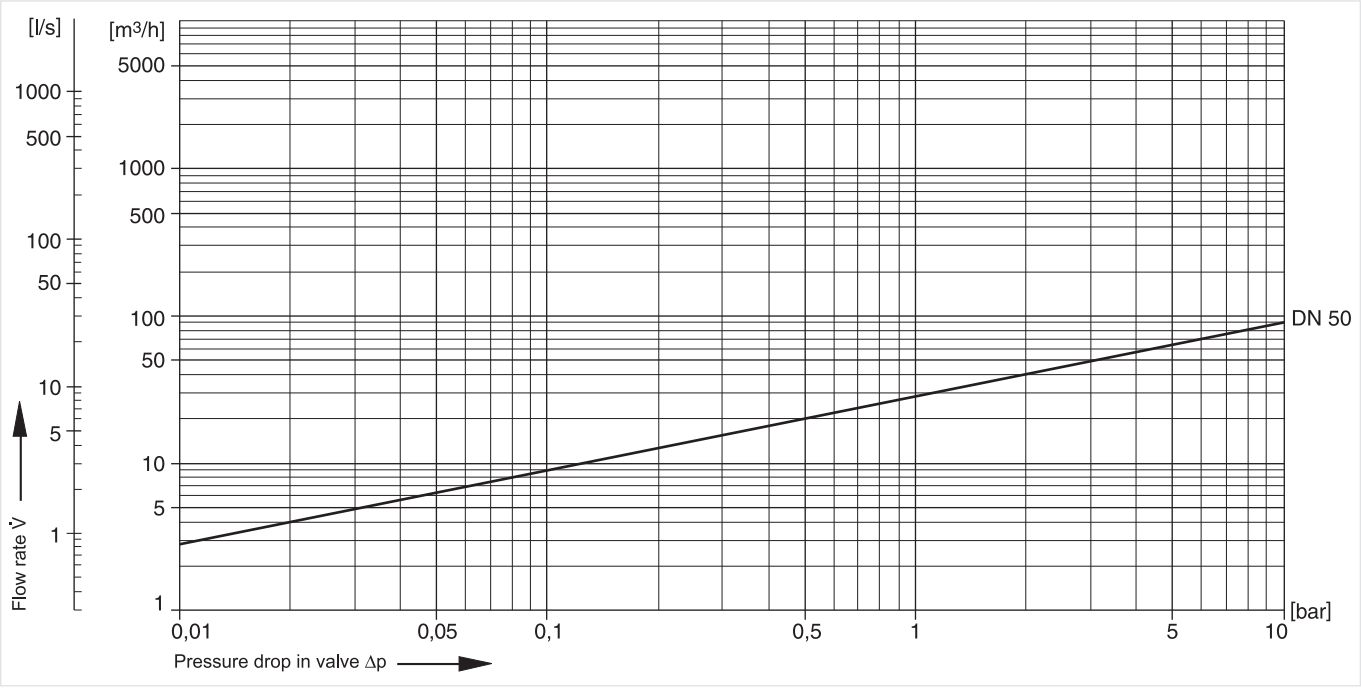
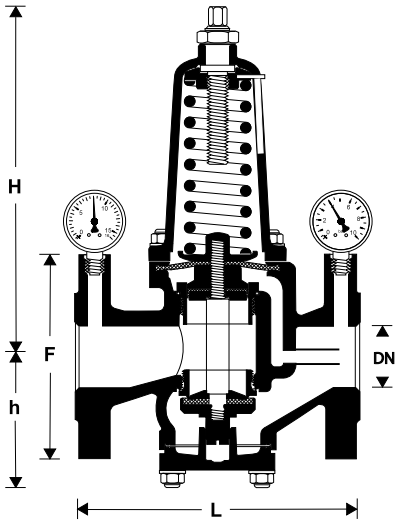


Fig. 2 Pressure drop within the valve in dependency of the flow rate and the used connection size

DIMENSIONS

Overview



Parameter		Values
Connection sizes:	DN	50
Weight:	kg	16.2
Dimensions:	L	230
	H	282
	h	106
	F	165

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: DN50

• standard

- not available

		D15P-50A
Connection type:	with PN 16 flanged connections to ISO 7005-2, EN 1092-2 cast iron housing	•

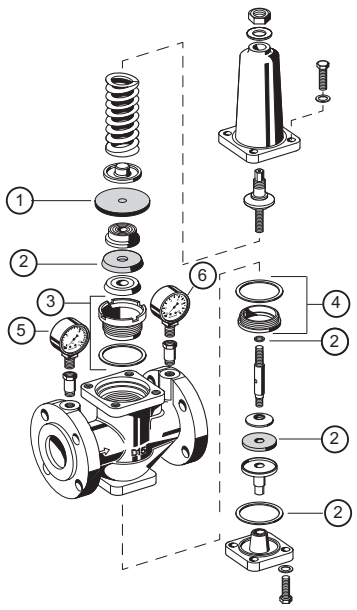
Note: Ordering number example for 2" and type A valve: D15P-50A

Spare Parts

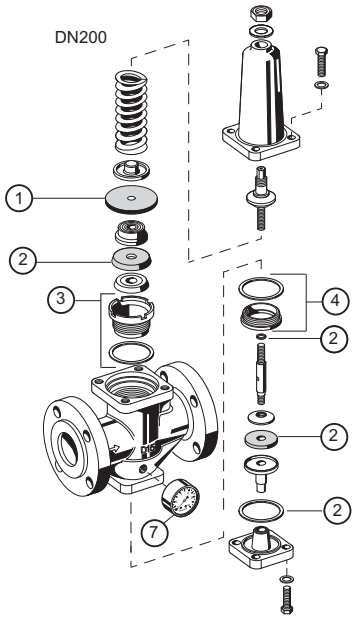
Pressure Reducing Valve D15P, from 2016 onwards

Overview

DN50 - DN150



DN200



	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	**Seat bush with seal**		
		DN50	0900247
		DN65	0900248
		DN80	0900249
		DN100	0900250
		DN125	0900251
		DN150	0900252
		DN200	0900253
5	**Pressure gauge**		
		0 - 16 bar	M39M-A16
6	**Pressure gauge**		
		0 - 10 bar	M39M-A10
7	**Pressure gauge**		
		0 - 10 bar	M07M-A10

For more information

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