



## D03

### Pressure Reducing Valve

#### APPLICATION

According to 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.

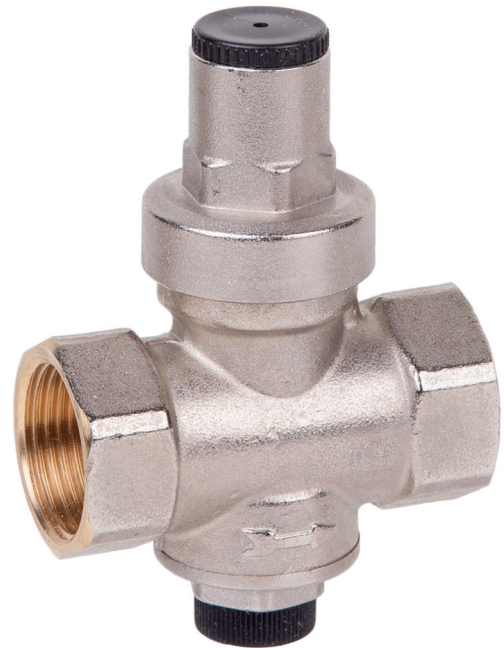
Reduction of the operating pressure and maintaining it at a constant level minimizes flow noise in the installation.

#### APPROVALS

- ACS approved

#### SPECIAL FEATURES

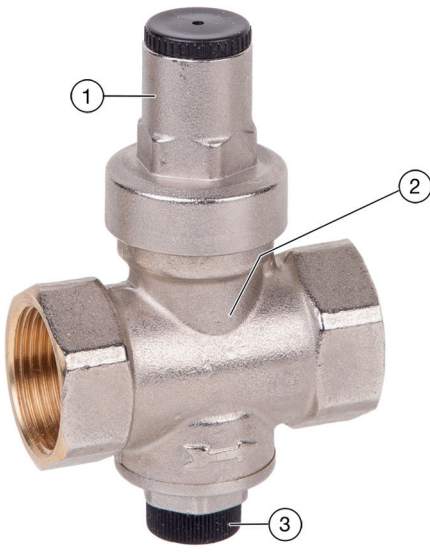
- Inlet pressure balancing – no influence on outlet pressure by fluctuating inlet pressure
- Outlet pressure adjustable with adjusting screw
- The adjustment spring is not in contact with the drinking water
- Compact construction



#### TECHNICAL DATA

<b>Media</b>	
Medium:	Drinking water
<b>Connections/Sizes</b>	
Connection sizes:	1/2", 3/4"
Nominal sizes:	DN15, DN20
<b>Pressure values</b>	
Max. inlet pressure:	10 bar
Outlet pressure:	1.5 - 6 bar adjustable
Min. pressure drop:	1 bar
<b>Operating temperatures</b>	
Max. operating temperature medium accord. to EN 1567:	40 °C

## CONSTRUCTION

Overview	Components	Materials	
	<b>1</b>	Spring bonnet	Brass, nickel plated
	<b>2</b>	Housing	Brass, nickel plated
	<b>3</b>	Adjusting screw	Brass
	<b>Not depicted components:</b>		
		Adjustment spring	Spring steel, zinc plated
		Stem	Brass
		Test plug	Synthetic material
		Seals	NBR

## 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
- The installation location should be protected against frost and be easily accessible
  - Pressure gauge can be read off easily (see accessories)
  - Simplified maintenance and cleaning
- To guarantee perfect functioning, a filter must be inserted ahead of the pressure reducing valve
- 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)

## Installation Example

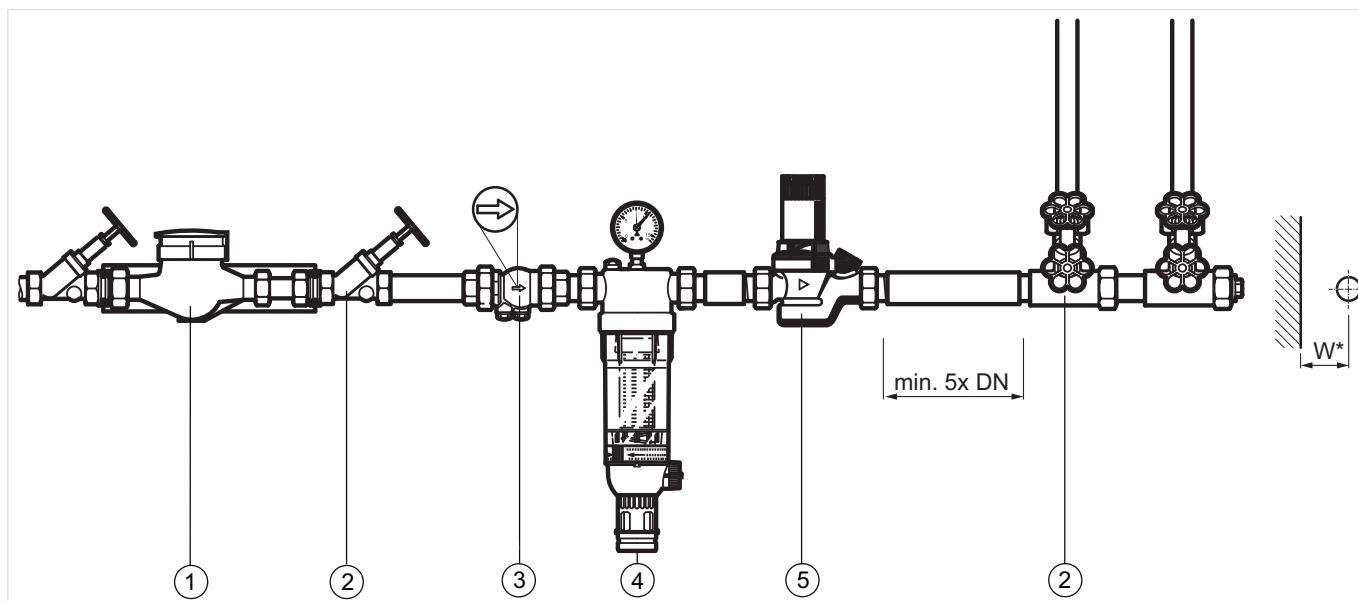


Fig. 1 Standard installation example for the pressure reducing valve

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

<b>Connection sizes:</b>	<b>1/2"</b>	<b>3/4"</b>
Distance in mm (W*):	55	55

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

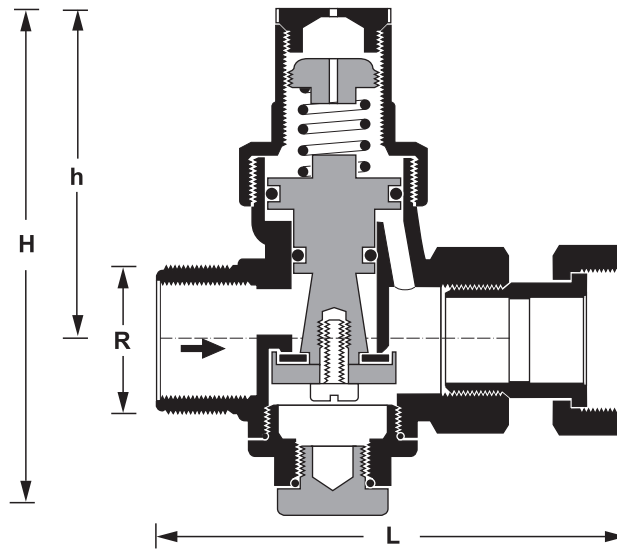
## TECHNICAL CHARACTERISTICS

### kvs-Values

Connection sizes:	C		ZA
	1/2"	3/4"	3/4"
k <sub>VS</sub> -value (m <sup>3</sup> /h):	1.73	1.73	1.73

## DIMENSIONS

### Overview



Parameter		Values		
		C		ZA
Connection sizes:	R	1/2"	3/4"	3/4"
Nominal size diameter:	DN	15	20	20
Weight:	kg	0.34	0.37	0.45
Dimensions:	L	59	63	77
	H	92	92	92
	h	59	59	59

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" and 3/4".

- standard
- not available

		D03...C	D03...ZA
Connection type:	internal threads on both sides	•	-
	inlet with external thread, outlet with threaded male connection	-	•

Note: ... = space holder for connection size

Note: Ordering number example for 3/4" and type C valve: D03-3/4C

### For more information

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