

# Pressure Reducing Valve 312 compact

Compact pressure reducing valve



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## Field of application

In accordance with its specifications the pressure reducing valve type 312 compact that complies with the European Standard EN 1567 protects industrial and commercial installations against excess supply pressure. It is predominantly used to reduce pressure upstream of apparatuses like drink vending machines, dosing apparatuses, washing machines, high-pressure cleaners and laboratory

equipment. The pressure reducing valve type 312 protects water-supplying installations; it compensates and optimises upstream pressure variations and therefore effectively prevents any damages that can be caused by pressure increase. Furthermore, it economically and ecologically reduces the water consumption.

## Design

The pressure reducing valve type 312 compact is equipped with a spring-relieved single-seated valve and a coaxially positioned strainer (mesh width: 0.25 mm). The operational parts of the system are placed in a cartridge; this

complete unit can be exchanged without disassembling the valve and without using special tools; the outlet pressure setting remains unchanged. The special cartridge design allows any mounting position.

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## Materials

The materials used for the SYR pressure reducing valve type 312 compact comply with the high requirements of European Standards. All parts getting in contact with water are approved by the German Public Health Office (KTW). The corrosion resistance in particular is guaranteed for all used materials. The body

is made of a low-lead dezincification resistant gunmetal alloy. All rubber parts are made of ageing resistant elastomer. The diaphragm is reinforced and the high resistance of the screw cap is due to glass fibre reinforced synthetic material.

## Installation

The connection size depends on the required flow rate capacity. When choosing a pressure reducing valve, it has to be taken into consideration that a pressure drop of 1.1 bar occurs at maximum flow rate. This is the difference between the static and dynamic pressure on the outlet of the pressure reducing valve. When a defined flow rate is required for a

determined draw-off point, the setting of the pressure reducer has to be calculated beforehand. A pressure reducing valve works without auxiliary energy with very little adjustment forces. Therefore it reacts sensitively to impurities. A filter installed upstream effectively protects the pressure reducing valve type 312 compact.

Thoroughly rinse the pipe prior to installation. Install the SYR pressure reducing valve type 312 compact in the pipe under consideration

of the flow direction (see arrow on the body) without applying stresses.

## Technical data

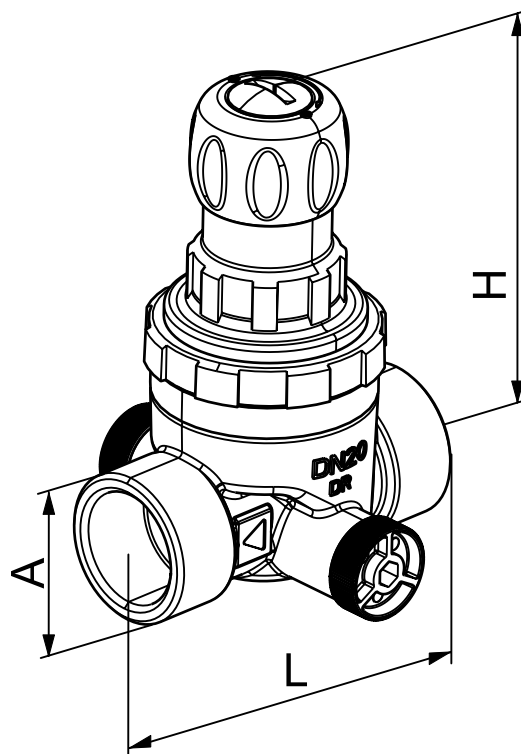
Inlet pressure:	max. 16 bar
Outlet pressure:	1,5 - 6 bar (factory-set to 4 bar)
Operating temperature:	max. 70°C
Mounting position:	any
Fluid:	Water, compressed air, neutral gases, neutral non-aggressive or non-adhesive fluids
Serial number:	0312

## Maintenance

The pressure has to be set at static pressure. For doing so, loosen the safety screw in the adjustment handle and the requested pressure is set with a flick of the wrist. To reduce the outlet pressure, turn the adjustment handle in the direction of the minus symbol (-), to increase it, turn the adjustment handle in the direction of the plus symbol (+). It is recom-

mended to carry out maintenance works on a regular basis to ensure a durable function. The perfected design of the cartridge system allows to disassemble the operational part of the pressure reducer without having to disassemble the whole valve and without using special tools.

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Nominal size		DN 15	DN 20	Comp. fitting	Comp. fitting
	A	Rp ½	Rp ¾	15 mm	22 mm
Dimensions in mm	L (mm)	72	76	62	65
	H (mm)	92	92	92	92
Flow rate capacity in m <sup>3</sup> /h (at 2m/s)	Residential buildings according to DIN EN 1567	1.3	2.3	1.3	2.3
Flow rate capacity in m <sup>3</sup> /h (at 3m/s)	industrial / commercial installations	1.8	3.3	1.8	3.3

### Accessory

Manometer: type 11

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Components / Order numbers

①  
**Pressure reducer cartridge**

DN 15            402004  
DN 20            402004

②  
**Manometer plug**

③  
**Body**

