

Backflow Preventer type CA 6800

Non-controllable Backflow Preventer with different pressure zones - type CA



4

Field of application

The SYR backflow preventer type CA is a compact safety valve in compliance with the European standard EN 1717 (Protection against pollution of potable water installations and general requirements of devices to prevent pollution by backflow), group C (three zones system). It is in conformity with the installation type CA described in EN 1717 and therefore it can be used as a protective device

up to the fluid category 3 (included). Its task is to prevent back-siphonage or backflow of non-drinking water into the public potable water system. The backflow preventer type CA is mainly used to fill heating installations without inhibitors and allows to permanently connect the filling device of the heating installation to the drinking water system.

Design

The backflow preventer type CA includes all components determined in the European standard EN 1717 and is divided into 3 zones: an upstream pressure zone, a non-measurable intermediate pressure zone (venting to the atmosphere) and a downstream pressure zone. The backflow preventer CA provides disconnection by venting the

intermediate pressure zone to the atmosphere, when the pressure difference between intermediate and upstream pressure zone is below 10% of the upstream pressure. The volume that can be discharged through the intermediate pressure zone is at least equivalent to the determined volume of the inlet flow rate.

6800 Backflow preventer CA

Materials

The body is made of a high-quality low-lead brass alloy. The internal parts are made of high-quality corrosion resistant synthetic materials or stainless steel. All materials are tested and approved by

DVGW. All synthetic parts getting in contact with drinking water are approved by the German Public Health Office (KTW). The discharge outlet on the valve is made of high-quality synthetic material.

Installation

Permanent access to the valve has to be provided and it shall not be mounted in rooms where flooding, frost or high temperatures are possible. The installation should only be carried out in a well-ventilated environment. The connected discharge device must be able to collect the discharged

volume. The backflow preventer type CA has to be installed in horizontal position with the discharge valve (tundish connection) facing downwards. For a perfect function, it is recommended to locate a drinking water filter upstream.

Thoroughly rinse the pipe prior to the installation. Install the backflow preventer type CA in horizontal

position in the pipe under consideration of the flow direction without applying stresses.

Technical data

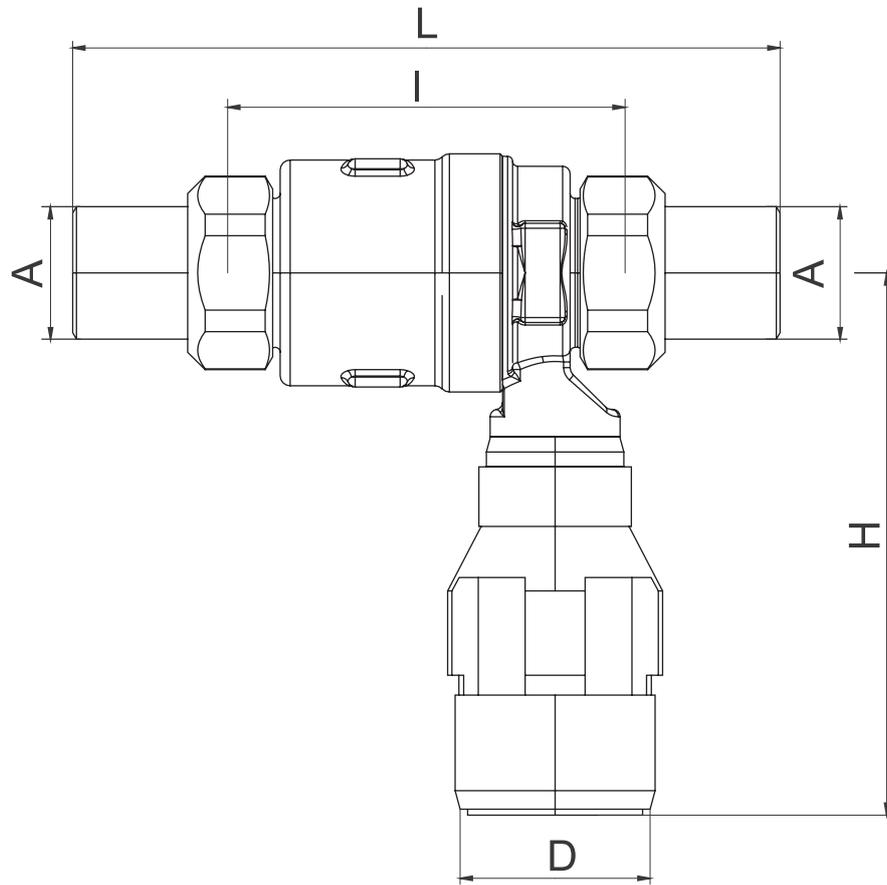
Operating pressure:	max. 10 bar
Operating temperature:	max. 65°C
Mounting position:	horizontal, tundish facing downwards
Media:	Drinking water
Flow rate:	DN 15: 2.0 m ³ /h bei 1.7 bar Δp DN 20: 3.2 m ³ /h bei 1.7 bar Δp
Serial-Nr.:	6800...

Maintenance

According to EN 1717, the backflow preventer type CA has to be serviced on a regular basis. Therefore maintenance agreements between user and installer are useful. The proper function has to be verified after the first service year and then

periodically in accordance with the operating conditions, but every two years at the latest. This backflow preventer type CA is designed with a cartridge system which makes the maintenance easy and unproblematic.





Nominal size		DN 15	DN 20
	A	G 1/2	G 3/4
Dimensions	L (mm)	135,5	141,5
	l (mm)	79,5	79,5
	H (mm)	109	109
	D (mm)	40	40

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Components / Order numbers

①

Threated union and seal

DN 15: 0812.15.903

DN 20: 0812.20.903

②

CA-Cartridge with check valve

6800.00.903

③

Tundish

6800.00.901

no pict.

Service key

6600.00.971

