

Backflow Preventer BA STBA 100

Controllable Backflow Preventer



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Field of application

The backflow preventer type BA STBA 100 from SYR is a compact safety device in conformity with EN 1717, group B, with controllable disconnection (three zones system). It complies with the installation type BA as defined in EN 1717 and can be used as a protective device up to and including fluid cate-

gory 4. It is designed to prevent back-siphonage, backpressure or backflow of non-potable water into the public drinking water system. The BA Backflow Preventer covers a wide range of applications (i.e. printing houses, chemicals and food producing companies, laboratories and medical technology).

Design

The BA backflow preventer, which includes all components set by EN 1717 is designed as three zones system with a controllable upstream, intermediate and downstream pressure zone. It also includes a strainer. Each pressure zone can be equipped with test valves (accessories 6625.15.902) to verify the safety devices by pressure measurement. The backflow preventer is equipped with two consecutive

check valves with an intermediate pressure zone in between, which can be vented to the atmosphere. When no water is drawn off, the check valves on either side and the drain valve are closed. In case of backsiphonage, the inlet pressure drops. The drain valve opens at the latest, when the differential pressure between the upstream and intermediate zone decreases to 0.14 bar.

Materials

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

synthetic parts getting in contact with drinking water are approved by the German Public Health Office (KTW). The valve's tundish is made of high-quality synthetic material.

Installation

Permanent access to the valve has to be provided. Do not mount in rooms subject to flooding, frost or high temperatures. Install only in a well-ventilated environment. The connected discharge device must be able to collect the discharged volume. Install the BA backflow preventer in horizontal or

vertical position with the tundish connection facing downwards. Free access to the test devices shall be provided to facilitate the inspection of the backflow preventer. It is recommended to mount a drinking water filter upstream to ensure perfect function.

Thoroughly flush the pipe prior to installation. Install the backflow preventer type BA in horizontal

or vertical position under consideration of the direction of flow and without applying stresses.

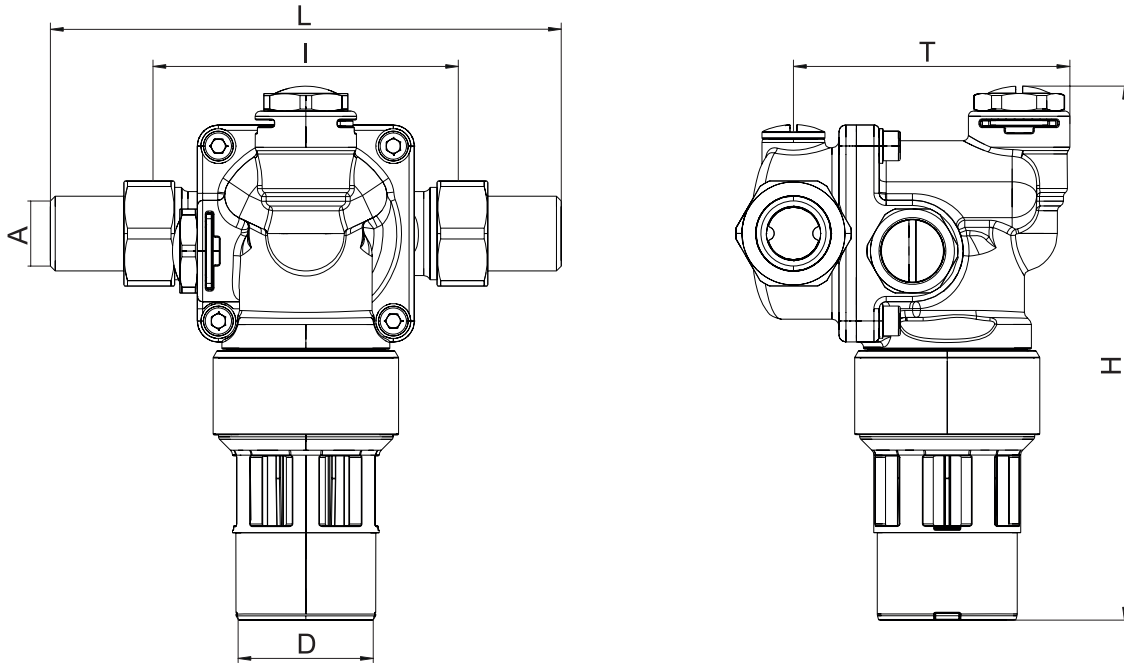
Technical data

Operating pressure:	max. 10 bar
Operating temperature:	max. 65°C
Mounting position:	any, when tundish facing downwards
Fluid:	potable water
Flow rate capacity:	DN 15: 1.8 m ³ /h at 1.5 bar Δp
Serial number:	6625.15.000

Maintenance

According to EN 806, part 5, the BA backflow preventer has to be serviced on a regular basis. Therefore, maintenance agreements between user and installer are very useful. The correct function has to be verified after the first service year and then periodically in accordance with the operating conditions, but at the latest after one year. The

test devices in each pressure zone allow to check the correct operation of the valve by means of corresponding measuring devices. The backflow preventer is designed with a cartridge system, which makes maintenance works simple and unproblematic.



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Nominal size		DN 15	DN 15
	A	R 1/2"	R 3/4"
Dimensions	L (mm)	146	164
	I (mm)	90	90
	H (mm)	152,5	152,5
	T (mm)	79	79
	D (mm)	40	40

Accessories

Test kit: electronic pressure measurement device for inspection and maintenance.
6600.00.000

Components / Order numbers

①

Body

②

Backflow preventer cartridge

6625.15.900

③

Four hexagon socket screws

④

Three test valves for maintenance

6625.15.902

