

Braukmann BA295D-3/4WH BA295D-3/4WHS

Retrofit Backflow Preventer
for tap fittings and armatures

APPLICATION

Backflow preventers of this type are suitable for the protection of drinking water systems against back pressure, backflow and back syphonage.

They are used to protect the water tapping of household taps, outside garden taps or filling taps.

Fluids up to and including liquid category 4 to EN 1717 are protected.

APPROVALS

- DVGW
- VA (ETA)

SPECIAL FEATURES

- High speed maintenance: replacement kit, all BA functional parts in one housing, replacement/maintenance without timeconsuming test procedure
- High speed installation: easy and quick installation/retrofit
- Optimized outlet position, thereby bending of the connected flexible tube is prevented
- Integrated inlet strainer
- Optimal protection of the drinking water supply system
- Inlet check valve and discharge valve are combined in one cartridge
- Rotatable housing - connection always in the right position
- Minimal maintenance required, because the valve cartridge is completely replaceable
- Low maintenance effort, because the strainer and the valve cartridge are completely replaceable without draining the system
- Optimized design prevents water stagnation in normal operation
- Compact construction
- Low pressure loss and high flow rate
- All materials are KTW approved
- Approved by TÜV LGA for low noise, Group 2
- Each tapping can be protected separately
- Pivoted top connection

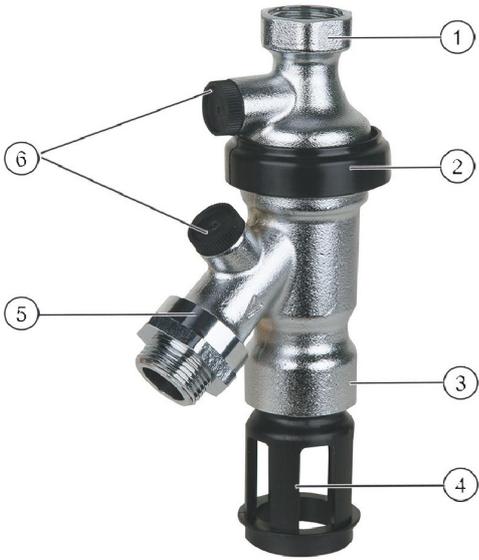


TECHNICAL DATA

Media	
Medium:	Drinking water
Connections/Sizes	
Connection size:	3/4"
Discharge pipe connection:	DN40
Pressure values	
Inlet pressure:	1.5 bar - 10 bar
Operating temperatures	
Max. operating temperature medium:	65 °C
Specifications	
Installation position:	Vertical with discharge valve downwards

CONSTRUCTION

BA295D-3/4WH

Overview	Components	Materials
	1 Upper housing part with test socket incl. plug	Chrome-plated dezincification-resistant brass
	2 Retaining clip	Plastic
	3 Rotatable lower housing part with test socket incl. plug	Chrome-plated dezincification-resistant brass
	4 Drain adapter	High-quality synthetic material
	5 Threaded adapter 3/4"-1"	Chrome-plated dezincification-resistant brass
	6 Test plug	High-quality synthetic material
Not depicted components:		
	Valve cartridge with integral check valve and discharge valve	High-quality synthetic material
	Outlet check valve	High-quality synthetic material
	Strainer (mesh size 0.5 mm)	Stainless steel
	Sealing elements	Elastomer materials suitable for drinking water

BA295D-3/4WHS

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METHOD OF OPERATION

BA type backflow preventers are divided into three pressure zones. The pressure in zone ① is higher than in zone ②, which in turn is higher than in zone ③. A discharge valve is connected to zone ② which opens at the latest when the differential pressure between zones ① and ② drops to 0.14 bar. The water from zone ② discharges to atmosphere, both check valves close and therefore separate zone ② from zone ① and ③. In this way the danger of back pressure or back siphonage into the supply network is prevented. The pipework connection is interrupted and the drinking water network is protected.

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

- Direct installation under distributor or water tap with discharge connection downwards
- Backflow preventers of this type have an integral strainer which protects the device from the ingress of dirt. With highly polluted water a fine filter should be installed upstream to ensure the correct function of the device
- The installation location should be protected against frost. For use on outside taps, the backflow preventer has to be dismantled if there may be danger of frost
- In order to avoid flooding, it is recommended to arrange a permanent, professionally dimensioned wastewater connection
- These armatures need to be maintained regularly

Installation Example

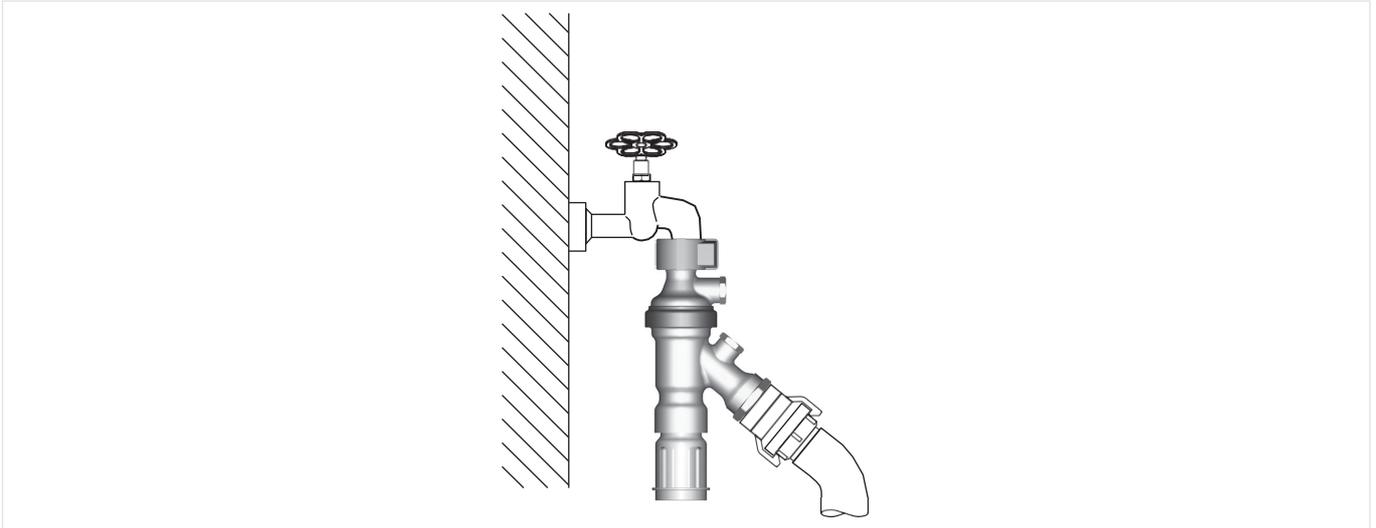


Fig. 1 BA295D-3/4WHS on tap

TECHNICAL CHARACTERISTICS

Pressure drop characteristics

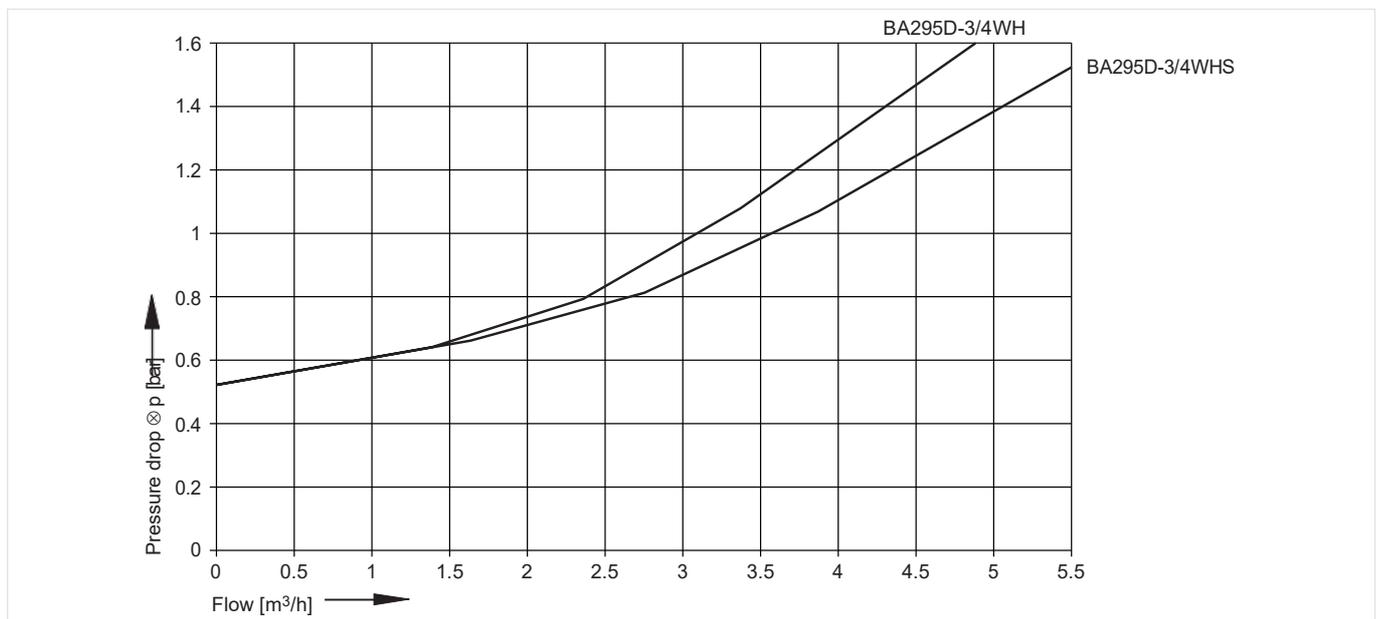
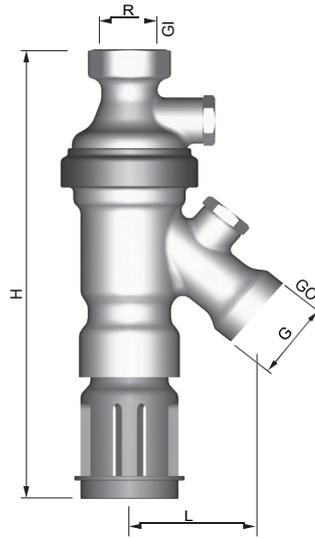


Fig. 2 Pressure drop within the valve in dependency of the flow rate and the used connection size

DIMENSIONS

Overview



Parameter		Values	
		BA295D-3/4WH	BA295D-3/4WHS
Inlet connection size GI:	R	1"	1"
Outlet connection size GO:	G	3/4"	1"
Weight:	kg	0.9	0.8
Dimensions:	L	52	52
	H	195	142 without discharge connection
DVGW registration number:		NW-6373CQ0347	NW-6365CQ0349

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 backflow preventer is available in the following inlet connection sizes: 3/4"

- standard
- not available

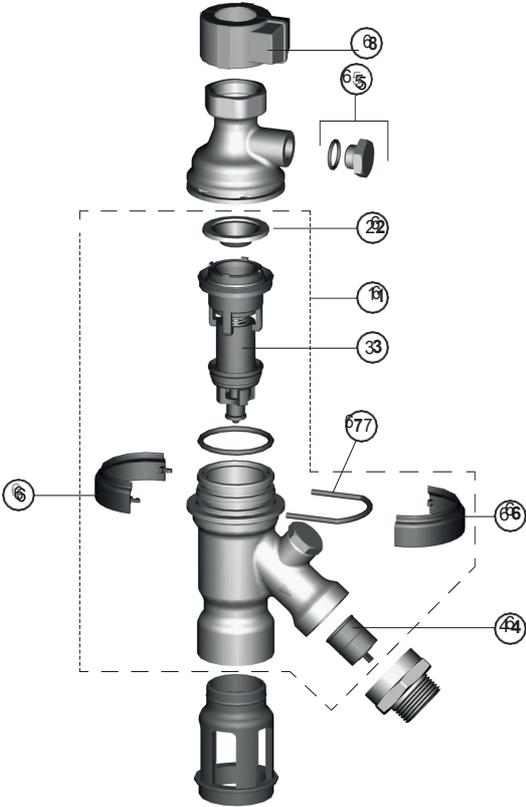
		BA295D-3/4WH	BA295D-3/4WHS
Connection type:	Standard version with G 3/4" (ISO 228-1) threaded connection on inlet and G 1" (ISO 228-1) threaded connection on outlet, 1" IG to 3/4" AG threaded adapter included, chrome-plated housing, with discharge pipe connection	•	-
	Standard version with G1" (ISO 228-1) threaded connection on inlet and G1" (ISO 228-1) threaded connection on outlet	-	•

Accessories

	Description	Dimension	Part No.
	TKA295 Test kit Analogue pressure measuring device with differential pressure display. With case and accessories, ideal for inspection and maintenance of backflow preventer type BA.		
			TKA295
	WS295 Maintenance Set Maintenance-set for BA295STN and BA295D type backflow preventers for use with Test kit TK295 resp. TKA295		
			WS295STN

Spare Parts

Backflow preventer BA295D-3/4WH, BA295D-3/4WHS, from 2014 onwards

Overview	Description	Dimension	Part No.
	1 Replacement unit Brass rough Chrome-plated		AE295D AE295D-C
	2 Strainer		S295D
	3 Cartridge insert complete		0903733
	4 Check valve insert		2110200
	5 Set of blanking plugs (5 pcs.) Plastic for BA295D-3/4WH Brass for BA295D-3/4WHS		S06K-1/4 PS295STN
	6 Seal brackets (10 pcs.)		PS295D
	7 Retaining clip (10 pcs.)		HK295D
	8 Seal brackets for tap		PS295D-Z