

Braukmann BA295STN-1 1/2LF

Backflow Preventer
for standpipes

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 temporary water tapping of standpipes on events or construction sites.

The backflow preventer protects drinking water for fluids up to and including liquid category 4 according to EN 1717.

Approvals

- DVGW in progress

Special Features

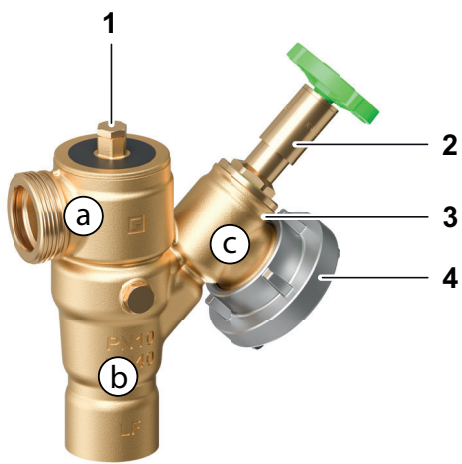
- LEAD-FREE: Pb content of all materials in contact with medium less than 0.1 %
- Product design according to EN 12729
- Optimal protection of the drinking water supply system
- Integrated inlet strainer
- Inlet check valve and discharge valve are combined in one cartridge
- Minimal maintenance required, because the valve cartridge is completely replaceable
- Optimized design prevents water stagnation in normal operation
- Compact construction
- Easy access to all internal components
- Low pressure loss and high flow rate
- Meets UBA regulations for drinking water
- Each tapping can be protected separately
- 5-year warranty



Technical Data

Medium	
Medium:	Drinking water
Connections/Sizes	
Connection size:	1 1/2", 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

Overview		Components	Materials
	1	Two test sockets (Third is integrated in the optionally available blind plug)	Lead-free brass
	2	Integral shut-off and check valve on outlet	Lead-free brass
	3	Housing	Lead-free brass
	4	C-coupling on outlet	Stainless steel
	Not depicted components:		
		Integral strainer, mesh size approx. 0.4 mm	Stainless steel
		Valve cartridge with integral check valve and discharge valve	High-quality synthetic material, stainless steel
		Sealing elements	Elastomer materials suitable for drinking water

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 syphonage 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 % *

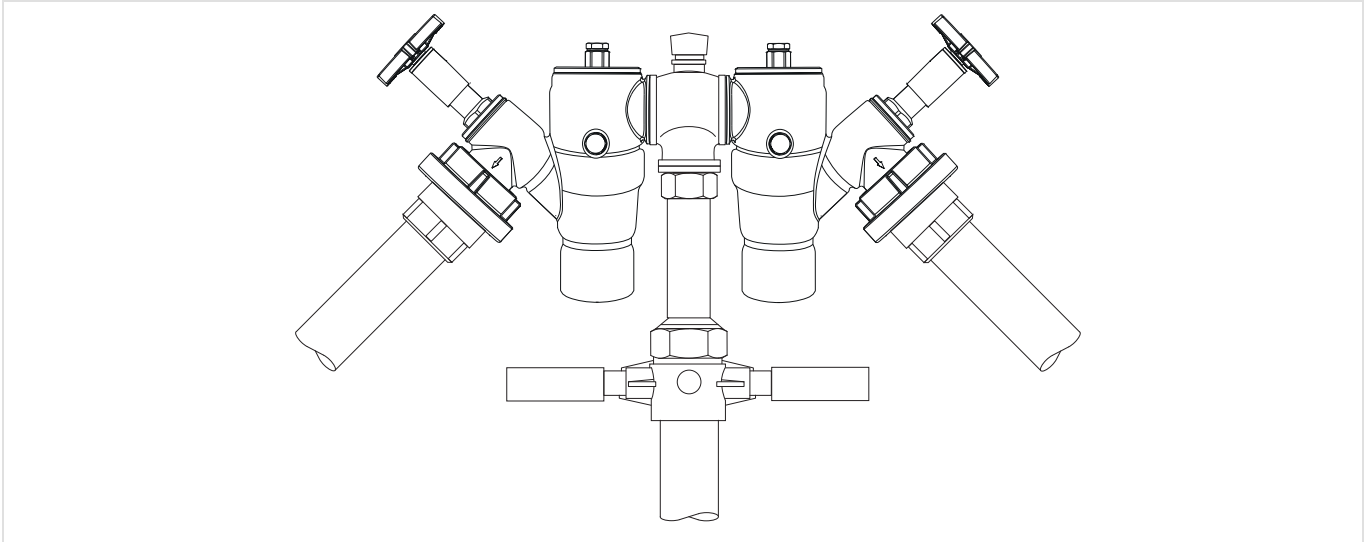
*non condensing

Installation Guidelines

Setup requirements

- Direct installation on distributor head 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



Technical Characteristics

Pressure drop characteristics

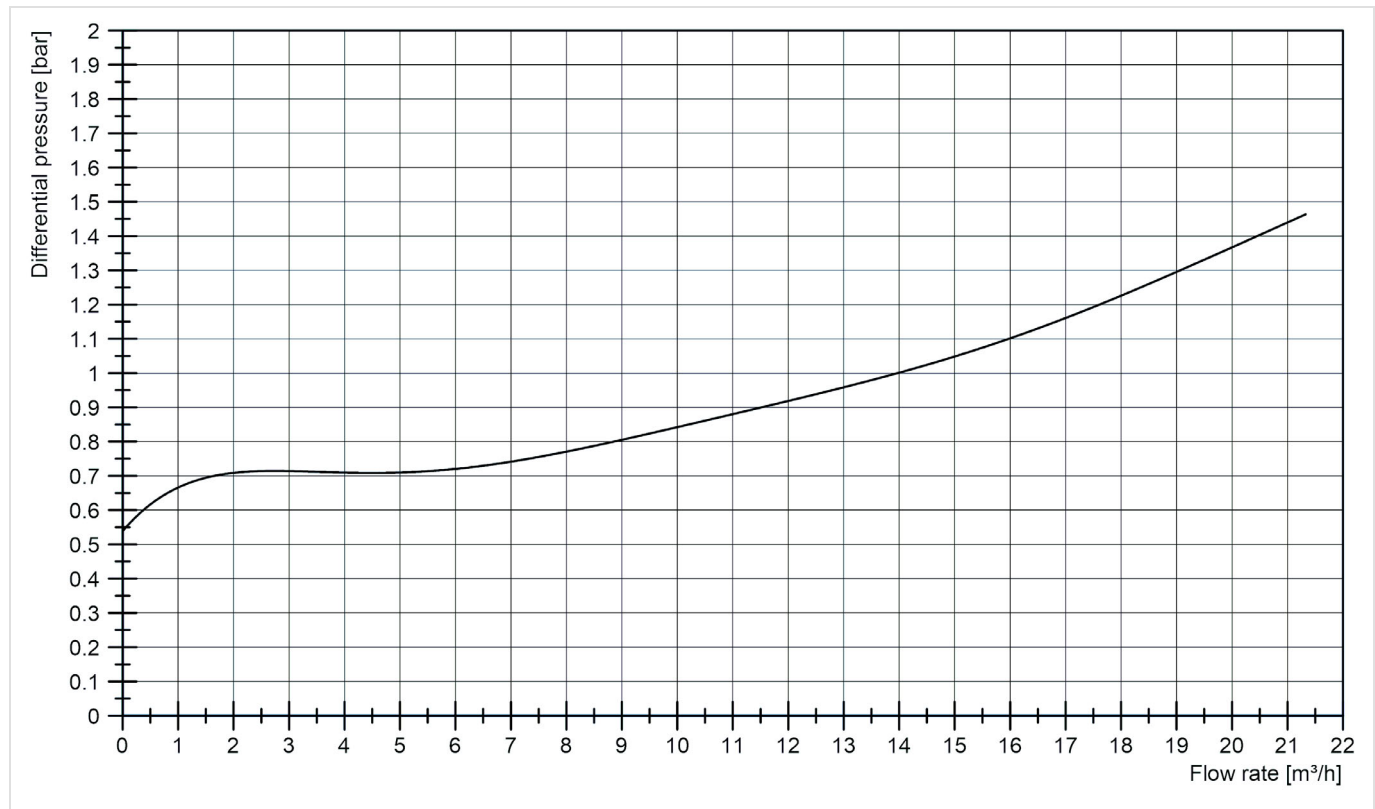
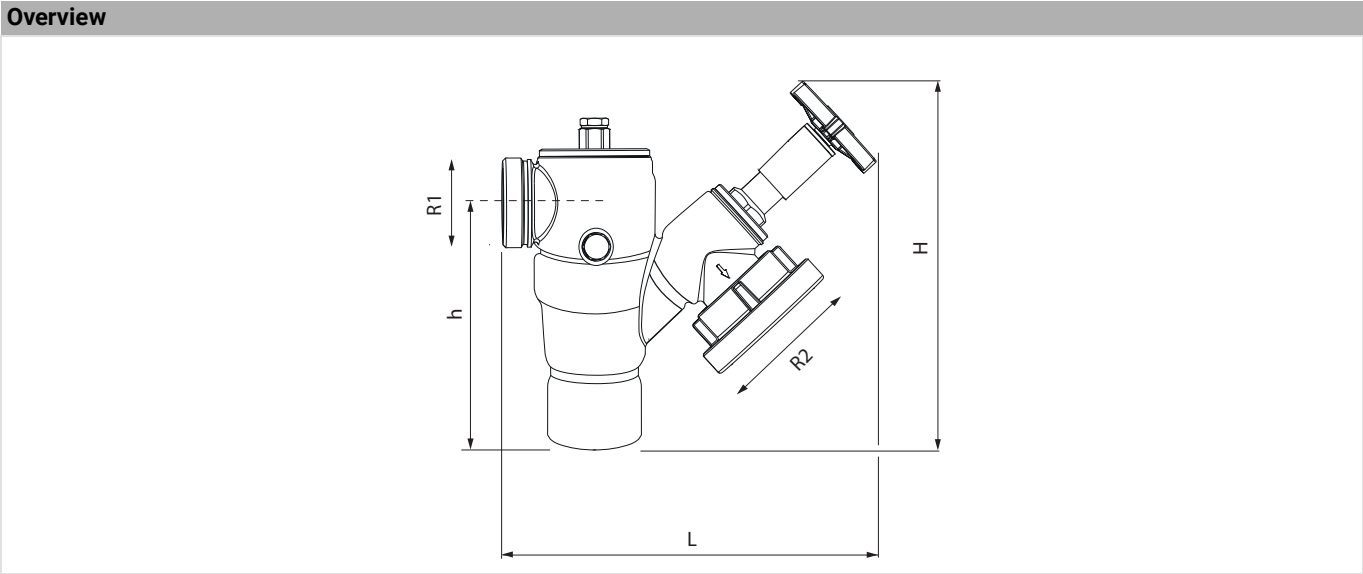


Fig. 1 Pressure drop within the valve in dependency of the flow rate and the used connection size

Dimensions



Parameter		Values
Connection size Inlet:	R1	G2"
Connection size Outlet:	R2	C-Storz Coupling
Nominal size:	DN	1 1/2" / DN40
Weight:	kg	4.4
Dimensions:	L	252
	H	261
	h	171
DVGW registration number:		DW-6365CN0098 on request

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.

Options

The backflow preventer is available in the following sizes: 1 1/2".

- standard
- not available

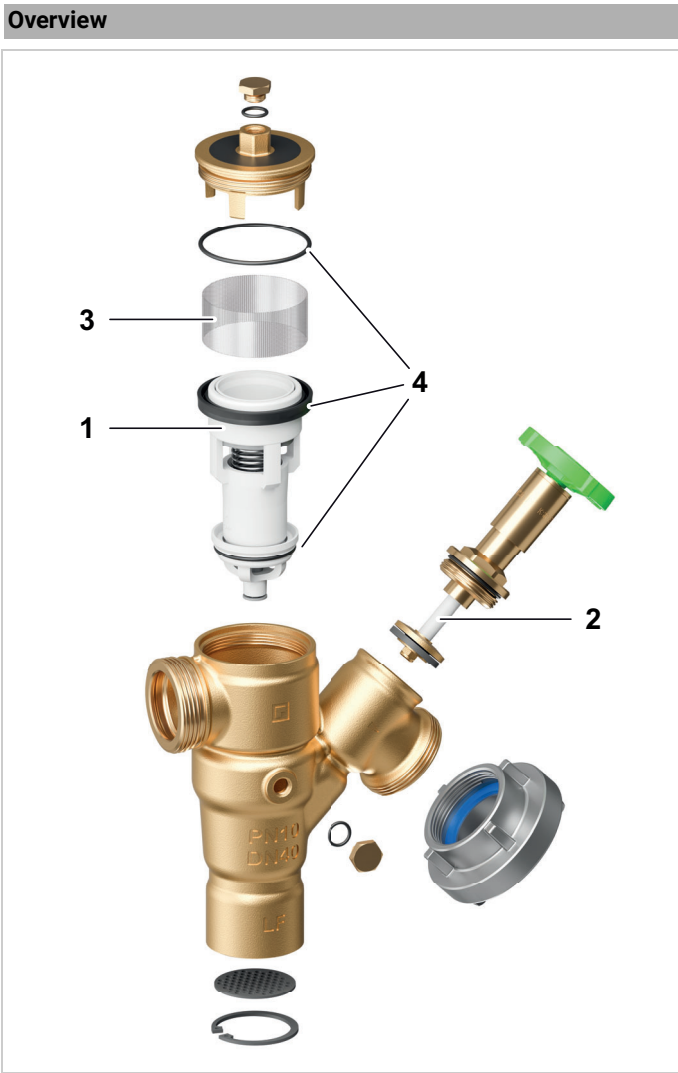
		BA295STN-11/2LF
Connection type:	Standard version with C-coupling on outlet	•

Accessories

	Description	Item 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
	BS295STN Blind plug C-coupling With integrated test socket for checking standpipe-BA	
		BS295STN-11/2A

Spare Parts

Backflow preventer BA295STN-A, from 2010 onwards



	Description	Dimension	Item No.
1	Cartridge insert complete*		
		1 1/2" / DN40	0903745
2	Shut-off facility complete		
		1 1/2" / DN40	AE295STN-11/2A
3	Sieve		
		1 1/2" / DN40	S295S-11/2
4	Sealing set		
		1 1/2" / DN40	DS295STN-11/2

* Wearing parts are excluded from warranty!

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