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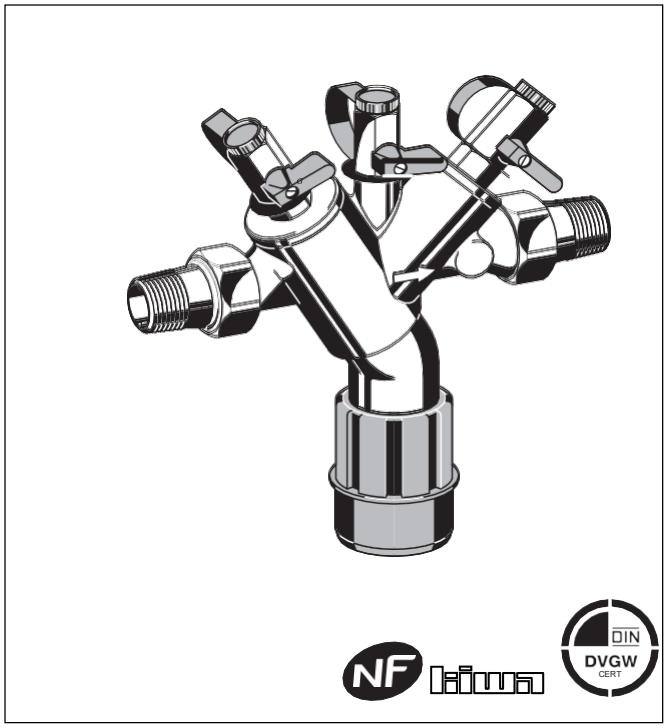
Braukmann BA295

Backflow Preventer
Compact Construction with Threaded Connectors

Product Specification Sheet



Application

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

They can be used for residential buildings, industrial and commercial purposes within the scope of their specification. Fluids up to and including liquid category 4 to EN 1717 are protected.

Special Features

- DIN/DVGW-certified for connection sizes $^1/_2$" - 2"
- KIWA-approved for connection sizes $^1/_2$" - 2"
- NF-approved for connection size $^1/_2$" - $1^1/_4$"
- Approved according to EN12729
- Optimal protection of the drinking water supply system
- Integral 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
- Compact construction
- Easy access to all internal components
- Low pressure loss and high flow rate
- Triple security - two check valves and a discharge valve separate the backflow preventer into three pressure zones
- Noise tested to class 2
- Meets KTW recommendations for potable water

Construction

The backflow preventer consists of:

- Housing
- Integral strainer, mesh size approx. 200 µm
- Valve cartridge with integral check valve and discharge valve
- Outlet check valve
- Three ball valves for the connection of a differential pressure gauge
- Connection fittings
- Discharge connection

Materials

- Red bronze housing
- High-quality synthetic material valve cartridge
- High-quality synthetic material or red bronze check valves
- Brass ball valves
- Sealing elements made of elastomer materials suitable for drinking water
- Discharge connection
  DN15-25 High quality synthetic material
  DN32-50 Red bronze

Range of Application

Medium	Water
Maximum inlet pressure	10.0 bar
Minimum inlet pressure	1.5 bar

Technical Data

Installation position	Horizontal with discharge valve downwards
Max. operating temperature	65 °C
Discharge pipe connection	DN50 for connection sizes $^1/_2$" - $1^1/_4$" DN70 for connection sizes 2"
Connection size	1/2" - 2"

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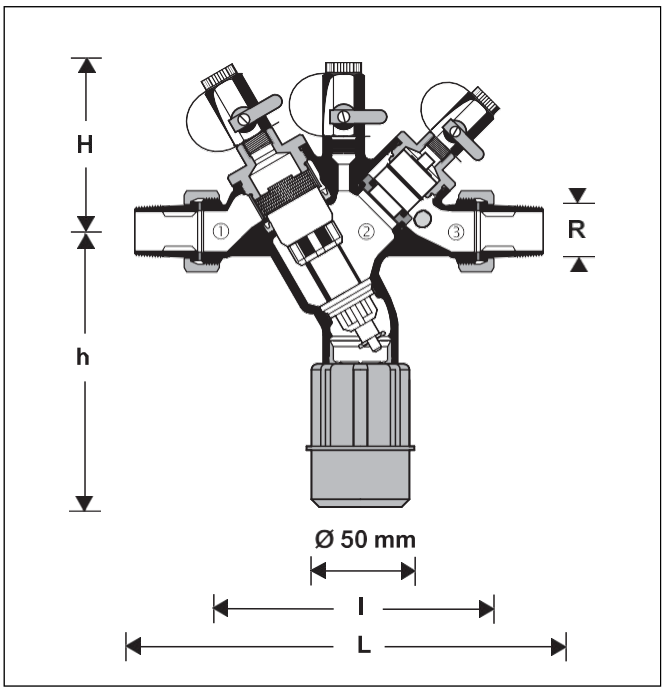


Method of Operation

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 syphonage into the supply network is prevented. The pipework connection is interrupted and the drinking water network is protected.

Options

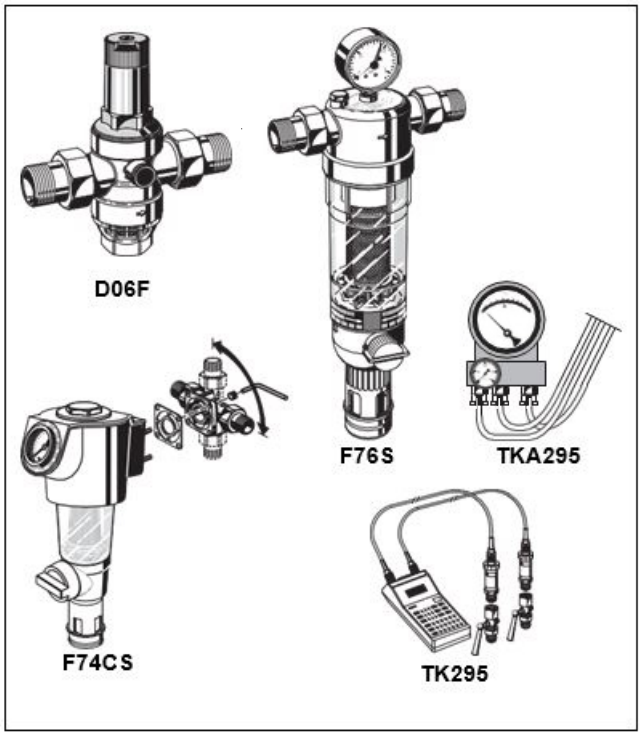
BA295-... A = Standard version with threaded connections $^1/_2$", $^3/_4$", 1$^1/_2$" and 2"

BA295-... B = Standard version with threaded connections 1" and 1$^1/_4$"

BA295-... ZF = Standard version with threaded connections $^1/_2$", $^3/_4$", 1", 1$^1/_4$"

Connection size

Connection size	R	$^1/_2$"	$^3/_4$"	1"	1$^1/_4$"	1$^1/_2$"	2"
Weight	approx. kg	1.5	1.55	2.40	2.60	4.70	4.80
Dimensions	mm						
	L	195	208	225	320	322	348
	l	139	144	150	228	226	232
	H	85	85	85	140	140	140
	h	138	138	137	172	172	172



Accessories

D06F Pressure reducing valve

Noise protected pressure reducing valve with setting scale. Maximum inlet pressure 16 bar, with brass filter bowl 25 bar, outlet pressure range 1.5 - 6.0 bar
A = With clear filter bowl up to 40 °C / 16 bar
B = With brass filter bowl up to 70 °C / 25 bar

Test kit

Electronic pressure measuring device with digital indicator, battery-operated.
With case and accessories, ideal for inspection and maintenance of backflow preventer type BA.

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.

F76S Fine filter, reverse rinsable

AA = With clear filter bowl
AAM = With red bronze filter bowl

F74CS Fine filter

Reverse rinsable fine filter with rotatable connection piece

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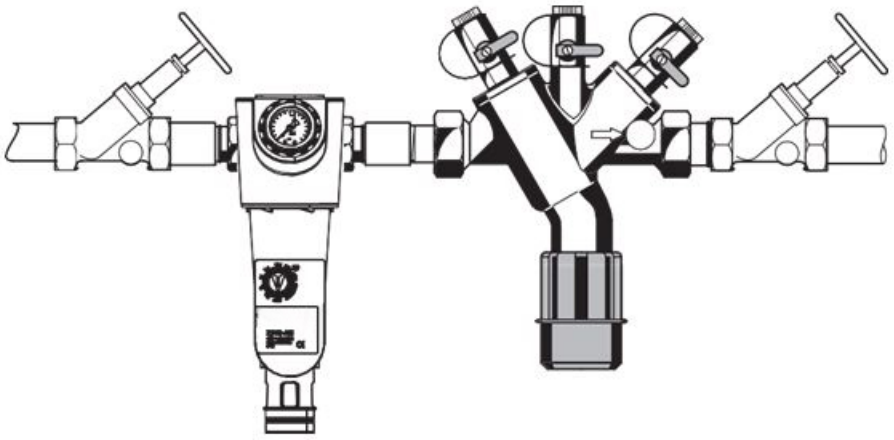
Installation Example



Installation Guidelines

- Install shutoff valves before and after backflow preventer
- Install in horizontal pipework with the discharge valve downwards
- Ensure good access
  - Simplifies maintenance and inspection
- If a fine filter is not installed in the drinking water system, the installation of a filter with a mesh width of 100 µm is recommended in front of the backflow preventer.
- In the case of fluctuating pre-pressure or an input pressure over 10 bar, we recommend the insertion of a pressure regulator in front of the backflow preventer.
- Do not install in places where flooding can occur
- The installation environment should be protected against frost and ventilated well
- Install discharge pipework which has adequate capacity

Typical Applications

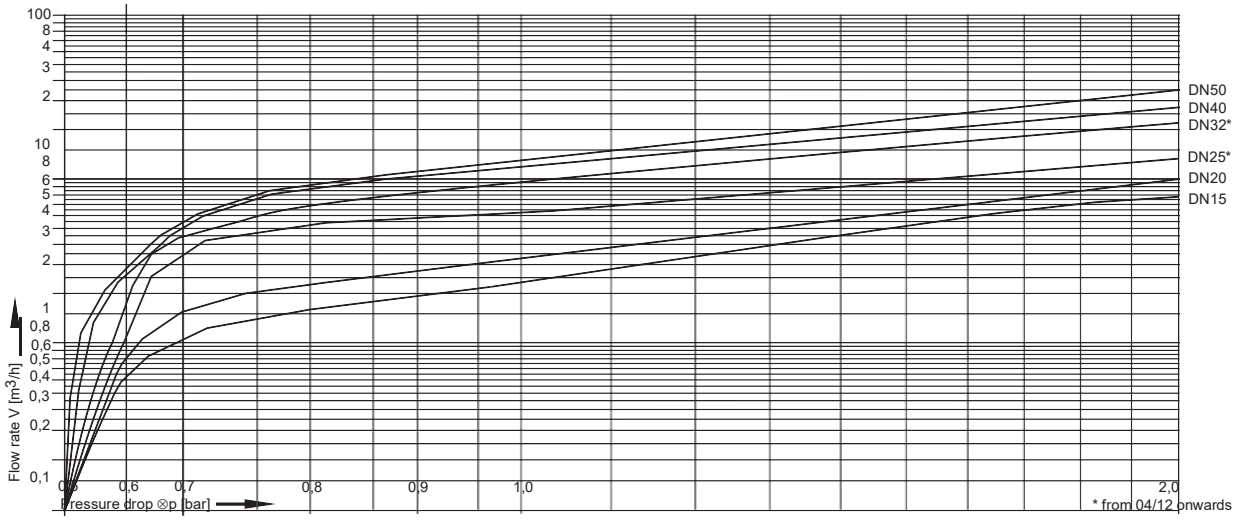
Backflow preventers are ideally suited for industrial and commercial applications.

However they can also be used for supplies to residential buildings within the scope of their specification.

The following are some typical applications:

- Chemical mixing plant
- Chemical cleaning appliances
- Softening and deacidification plant without DVGW approval. Regeneration with and without acid and alkaline solutions. Disinfection with Formalin
- Film development plant without DVGW certification
- Galvanic bath
- Boilers and automatic pressure fermentation equipment
- Heating filling systems, water with inhibitors
- High pressure cleaners with chemical supplementation
- Laboratory workbenches
- Milking machines
- Float valves

Flow Diagram



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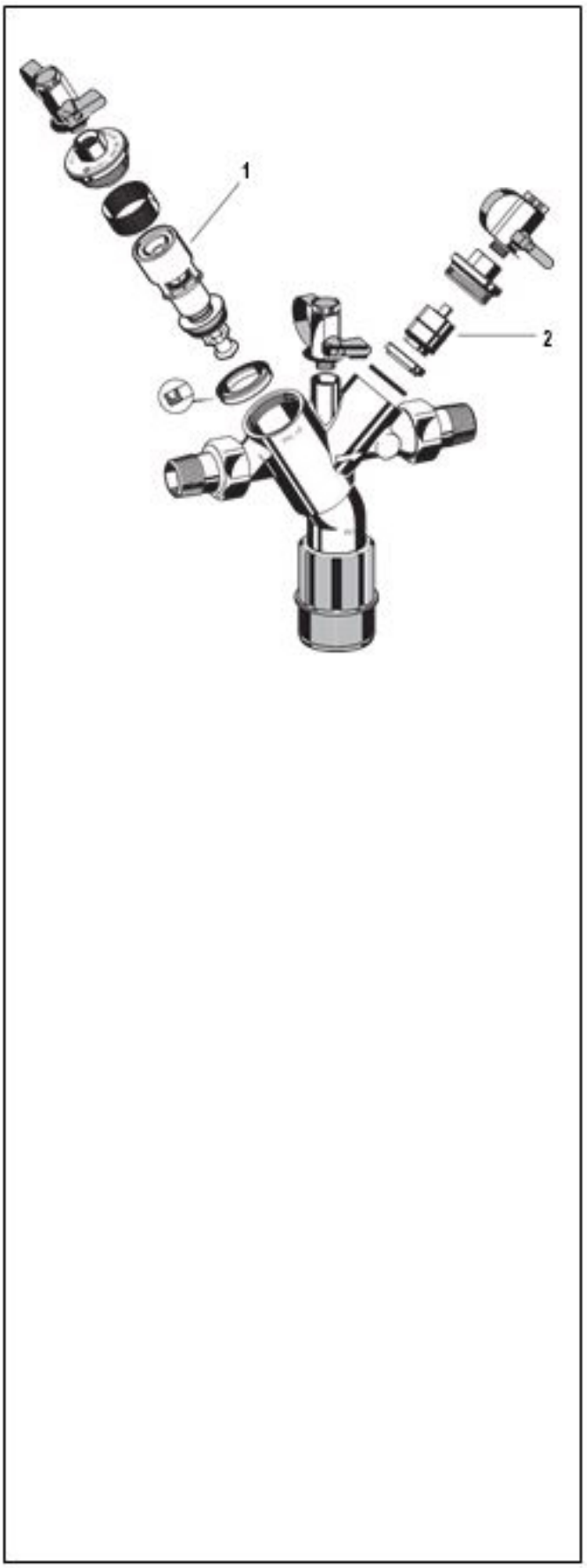

Spare Parts

Backflow preventer BA295, from 2001 onwards

No.	Description	Dimension	Part No.
1	Cartridge insert	1/2" - 1"	0903733
	complete	1 1/4" - 2"	0903745
2	Check valve complete with		
	Check valve cone and spring made of red bronze		
	DN15, DN20, DN25	up to 05/06	RV295-1/2
	DN32, DN40, DN50	up to 05/06	RV295-11/4
	Check valve cartridge with adapter ring		
	DN15	up to 02/09	RV295-1/2
	DN20	up to 10/08	RV295-1/2
	DN25	up to 12/08	RV295-1/2
	DN32	up to 08/08	RV295-11/4
	DN40, DN50	up to 05/09	RV295-11/4
	Check valve cartridge without adapter ring		
	DN15, DN20, DN25		RV295-1/2E
	DN32, DN40, DN40		RV295-11/4E

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