

BA295

Backflow preventer

Compact construction with threaded connectors

Product specification sheet



Construction

The backflow preventer comprises:

- Housing
- Integral strainer, mesh size approx. 0.6 mm
- Valve cartridge with integral non-return check valve and discharge valve
- Outlet non-return 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 non-return valves
- Brass ball valves
- NBR and EPDM seals
- High-quality synthetic material or red bronze internal components
- High quality synthetic material discharge connection

Application

BA295 backflow preventers are suitable for the protection of drinking water systems against back pressure, back flow and back syphonage. Fluids up to and including liquid category 4 to EN 1717 are protected. This corresponds to construction type 2 to EN 1717. They can be used for residential buildings, industrial and commercial purposes within the scope of their specification.

Special Features

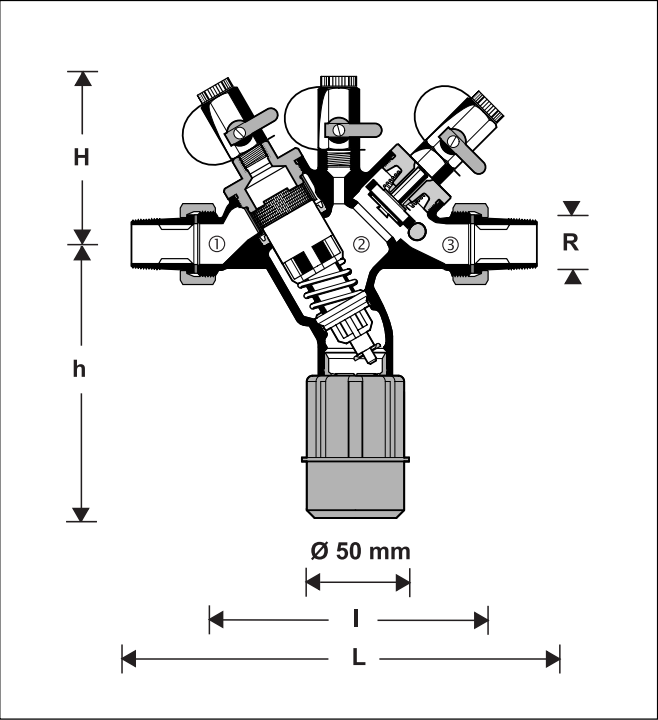
- DIN/DVGW approved
- Optimal protection of the drinking water supply network
- Integral inlet strainer
- Independent of system pressure - the discharge valve does not drip when pressures fluctuate
- Inlet non-return check valve and discharge valve are combined in one cartridge
- Minimal maintenance required, because the valve cartridge is completely replaceable
- No dead areas - therefore no water stagnation
- Compact construction
- Unrestricted access to all internal components
- Low pressure loss and high flow rate performance
- Threefold security - two non-return check valves and a discharge valve separate the backflow preventer into three chambers
- Noise tested to class 2
- Meets KTW recommendations

Range of Application

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

Technical Data

Installation position	Horizontal with discharge valve downwards
Operating temperature	Up to 65 °C
Discharge pipe connection	HT 50



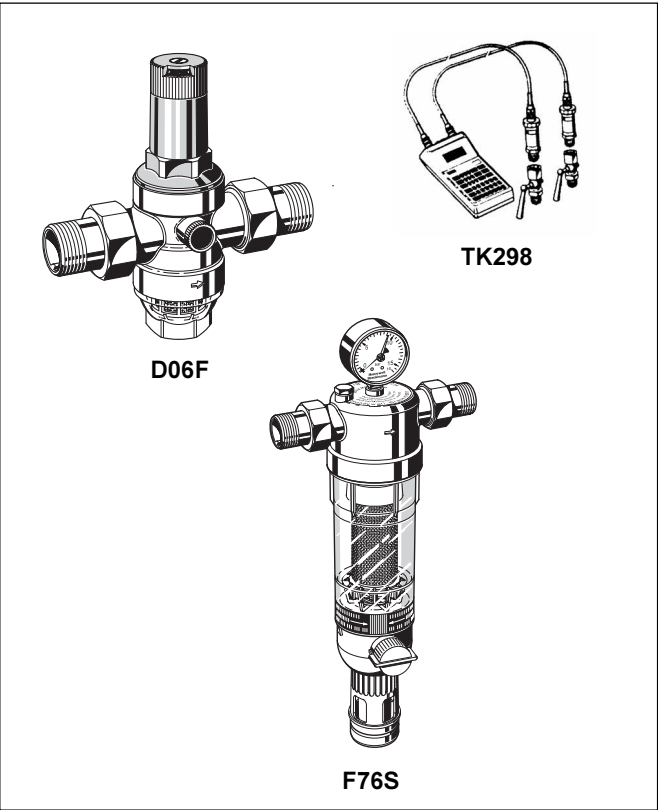
Method of Operation

BA type backflow preventers are divided into three 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 falls to 0.14 bar. The water from zone ② discharges to atmosphere. 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 in sizes 1/2", 3/4", 1 1/2" and 2"
- BA295- ... B = Standard version with threaded connections in sizes 1" and 1 1/4"
- Connection size

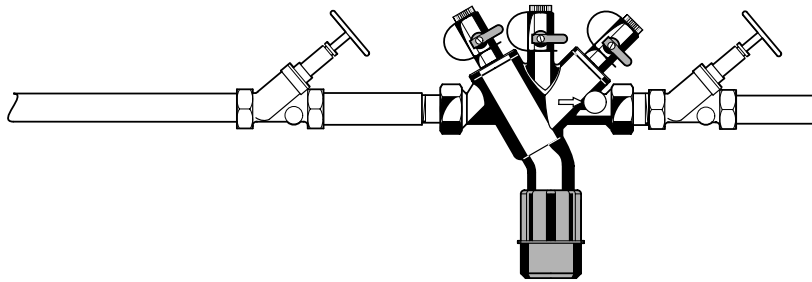
Connection sizes	R	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Weight (Approx. kg)		1.50	1.55	1.65	4.60	4.70	4.80
Dimensions (mm)							
	L	195	208	225	315	315	345
	I	135	140	146	220	220	230
	H	80	80	80	284	284	284
	h	138	138	138	162	162	162
DIN/DVGW Approval No.		DW-6305 BN 0290					



Accessories

- D06F Pressure reducing valve**
Noise protected pressure reducing valve with setting scale. Maximum inlet pressure 25.0 bar, Outlet pressure range 1.5 - 6.0 bar
A = With clear filter bowl up to 40 °C
B = With brass filter bowl up to 70 °C
- TK298 Test kit**
Electronic pressure measuring meter with digital indicator, in smart aluminium case. Ideal for inspection and maintenance of all Honeywell Braukmann type BA backflow preventers.
- F76S Fine filter, reverse rinsable**
AA = With clear filter bowl
AAM = With red bronze filter bowl

Installation Example



Installation Guidelines

- Fit shutoff valves
- Install in horizontal pipework with the discharge valve downwards
- Ensure good accessibility
 - Simplifies maintenance and inspection
- BA295 backflow preventers have an integral filter and therefore no further filter should be fitted
 - This protects the backflow preventer from the ingress of dirt
- Do not install in positions where flooding can occur
- Install in a frost protected and ventilated location
- Install discharge pipework which has adequate capacity

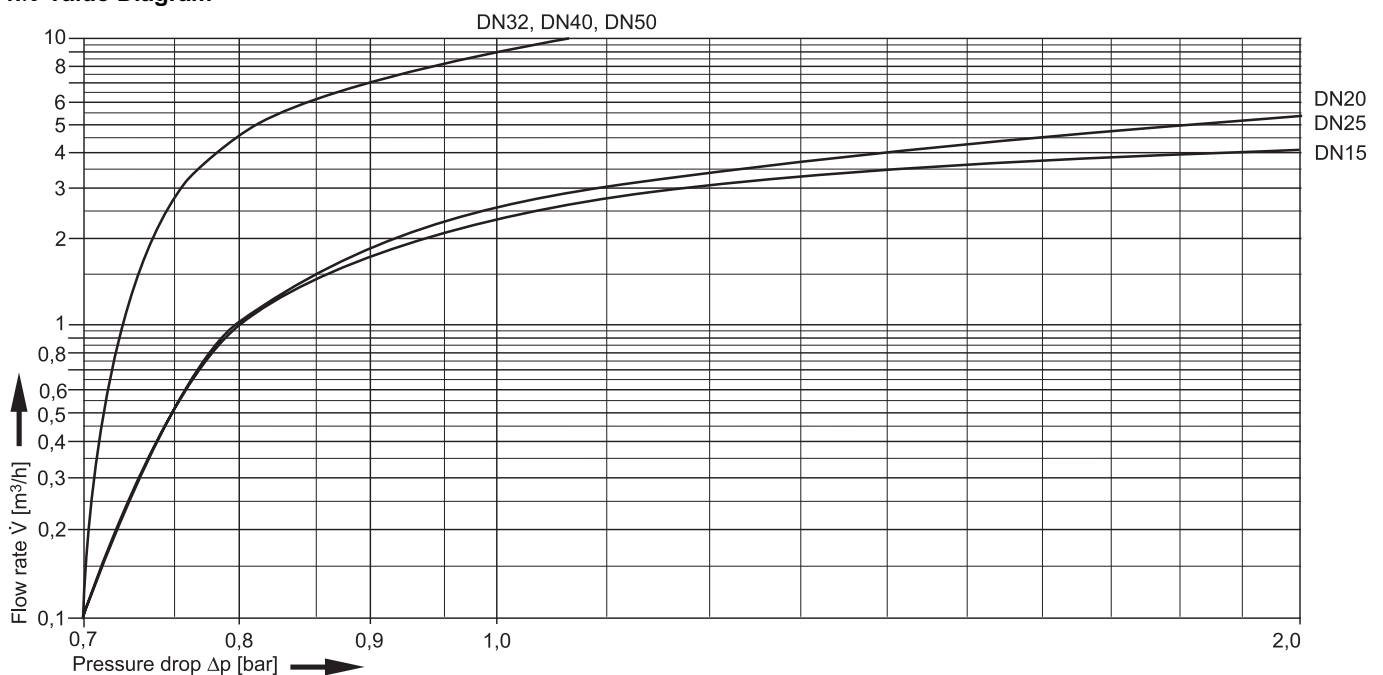
Typical Applications

Type BA 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.

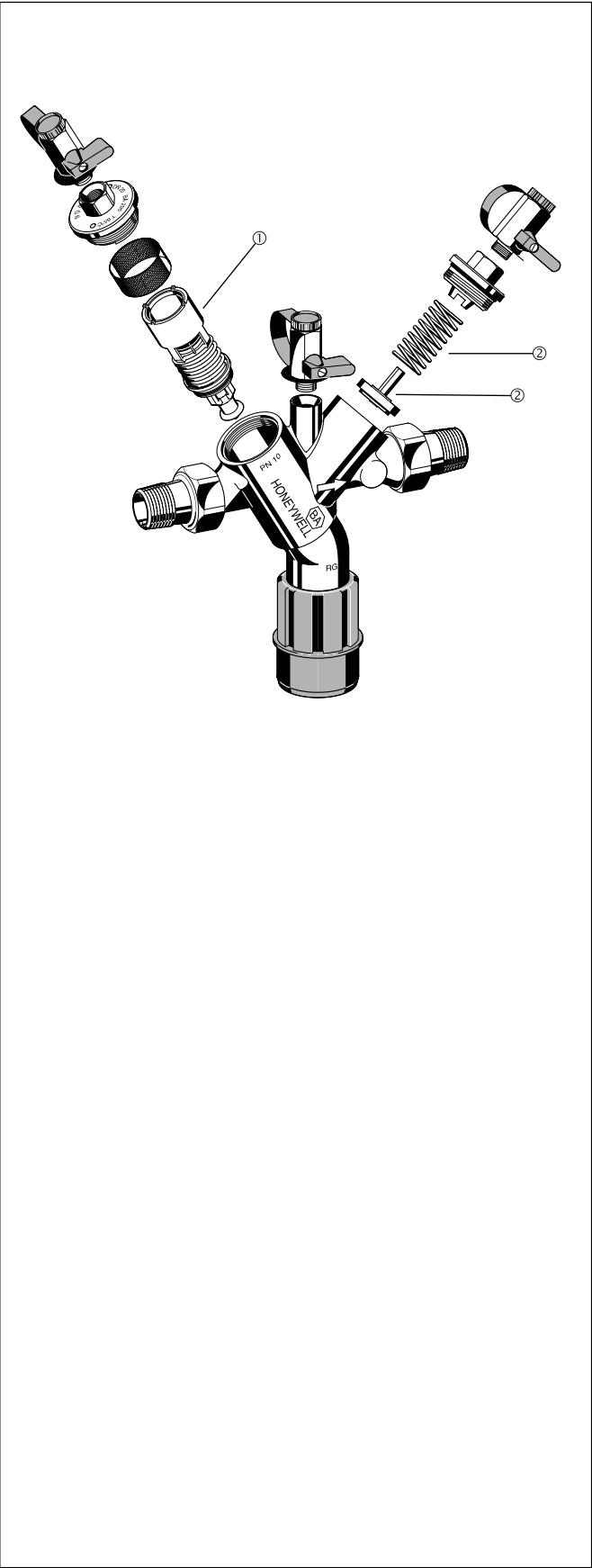
The following are some typical applications:

- Chemical mixing plant
- Chemical cleaning appliances
- Heat treatment and deacidification plant without DVGW test certification. 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, baths

kvs-value Diagram



Subject to change



**Spare Parts BA295 Backflow Preventers
(From 2001 onwards)**

Description	Nominal size	Part number
① Cartridge insert, complete	1/2" - 1"	0903733
	1 1/4" - 2"	0903745
② Check-valve insert, complete	1/2" - 1"	0903735
	1 1/4" - 2"	0903747

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