Honeywell

CA295

Backflow preventer
Compact construction with threaded connectors

Product specification sheet

Construction

The backflow preventer consists of:

- Housing
- Integral strainer
- Valve cartridge
- Outlet check valve
- Connection fittings
- Discharge connection

Materials

- Dezincification resistant brass housing
- High-quality synthetic material valve cartridge
- High-quality synthetic material check valves
- NBR and EPDM seals
- High-quality synthetic material discharge connection

Application

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 3 to EN 1717 are protected.

Special Features

- Integral strainer
- Compact construction
- Easy access to all internal components
- Low pressure loss and high flow performance
- Triple security - two check valves and a discharge valve separate the backflow preventer into three pressure zones
- Meets KTW regulations for potable water

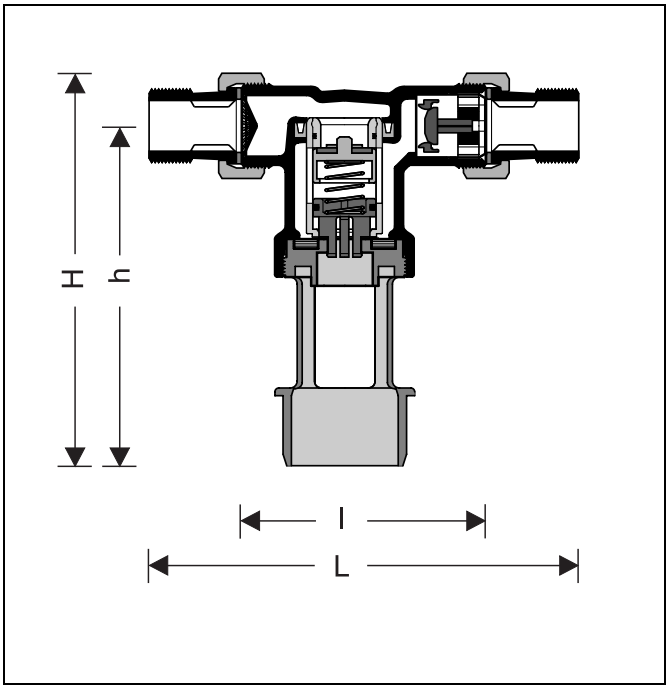
Range of Application

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

Technical Data

Installation position	Horizontal with discharge valve downwards
Operating temperature	up to 65 °C (WRAS: max. 60°C)
Discharge pipe connection	HT 40
Approvals (DN15)	KIWA-UK KIWA WRAS BELGAQUA NF tested according to EN 14367
Noise class 1	DN15
Noise class 2	DN20

EN0H-1225GE23 R0616 • Subject to change



Connection size	R	1/2"	3/4"
Weight	ca. g	510	700
Dimensions	mm		
	L	145	155
	l	84	87
	H	138	142
	h	121	121
Peak flow rate at Δp=1.0 bar	in m^3/h	0.7	0.7

Method of Operation

Backflow preventers are divided into three zones - inlet-, middle- and outlet zone.

When the differential pressure between inlet zone and middle zone drops below under 10 % of inlet pressure the backflow preventer discharges by venting the middle zone to atmosphere. There is no possibility to control the safety arrangement by measuring.

Options

CA295 - ... A = Standard version with threaded connections in sizes $R^1/_2$" and $R^3/_4$"

CA295 - ... AGB = Standard version acc. EN14367, all materials acc. WRAS, with threaded connections in sizes $R^1/_2$" and $R^3/_4$"

Connection size

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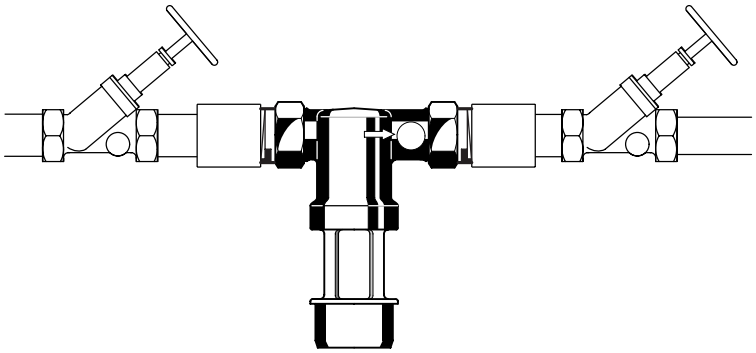
Installation Example



Installation Guidelines

- Install shutoff valves before and after backflow preventer
- Install in horizontal pipework with the discharge valve downwards
- Ensure good access
  - o Simplifies maintenance and inspection
- 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.
  - o This protects the appliance against dirt
- 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

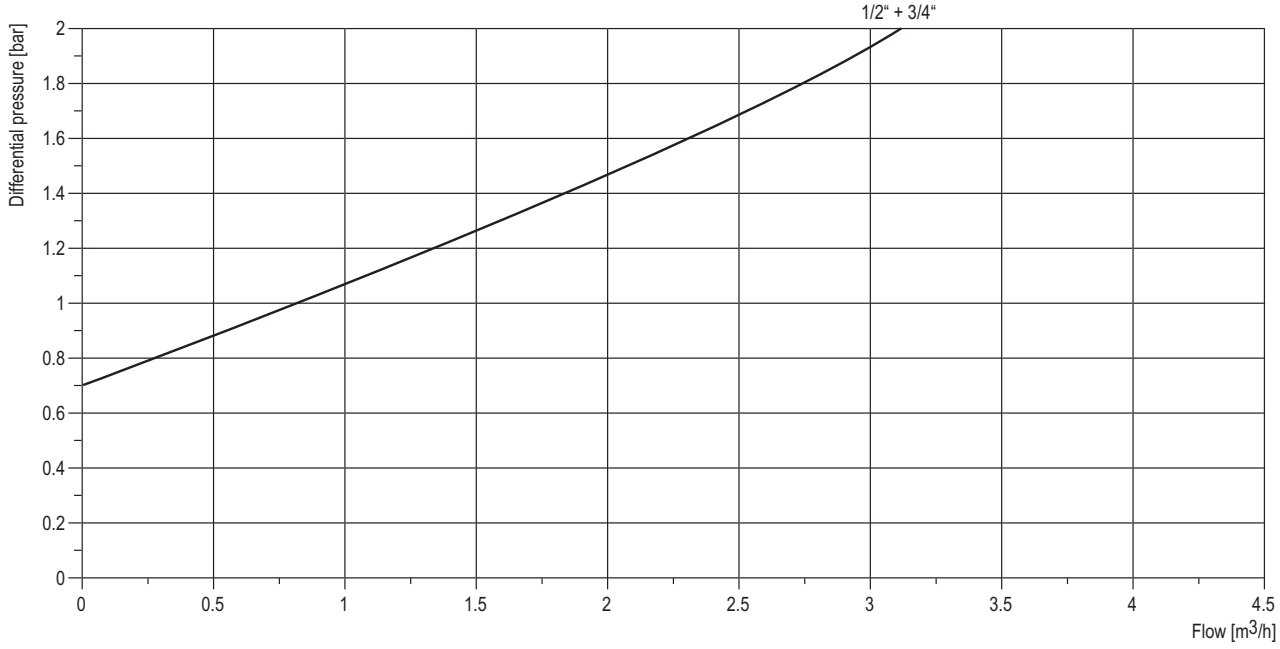
Backflow preventers are ideally suited for industrial and commercial applications.

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

The following are some typical applications:

- Cleaning appliances in hairdresser's shops
- Soda machines
- Cleaning appliances for beverage lines in public houses
- Cooling sytem in X-ray equipments for radiography
- Tube-sprinkler in the kitchen, domestic area
- Heating filling systems, without inhibitors

Flow Diagram



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