Honeywell Home Backflow preventers



BA295S-LF

Backflow Preventer

Compact construction with threaded connectors

APPLICATION

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

APPROVALS

- DVGW in progress
- NF in progress
- WRAS in progress
- KIWA in progress
- BELGAQUA in progress
- VR in progress

SPECIAL FEATURES

- Optimal protection of the drinking water supply system
- Integrated inlet strainer
- Inlet check valve and discharge valve are combined in one cartridge
- Lead-free material
- Low maintenance effort cartridge insert and valve insert are 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
- REACH and RoHS conform
- ACS certified
- All materials are KTW approved
- Approved by TÜV LGA for low noise, Group 1 without limitation

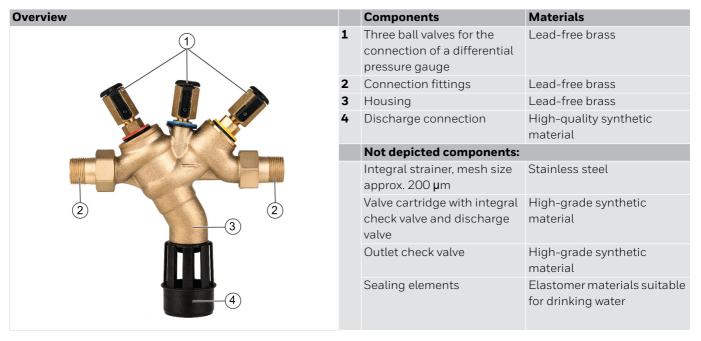




TECHNICAL DATA

Media					
Medium:	Drinking water				
Connections/Sizes					
Connection size:	1/2" - 2"				
Discharge pipe connection:	DN50 for connection sizes $^{1}/_{2}$ " - $1^{1}/_{4}$ " DN70 for connection sizes $1^{1}/_{2}$ " - 2"				
Pressure values	Pressure values				
Inlet pressure:	1.5 bar - 10.0 bar				
Operating temperatures					
Max. operating temperature	65 °C				
medium:	(WRAS 60 °C)				
Specifications					
Installation position:	Horizontal with discharge valve downwards				

CONSTRUCTION



METHOD OF OPERATION

BA type backflow preventers are divided into three pressure zones. The pressure in zone① is higher than in zone② , which in turn is higher than in zone③ . A discharge valve is connected to zone② which opens at the latest when the differential pressure between zones① and② drops to 0.14 bar. The water from zone② discharges to atmosphere, both check valves close and therefore separate zone② from zone① and③ . 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 % *

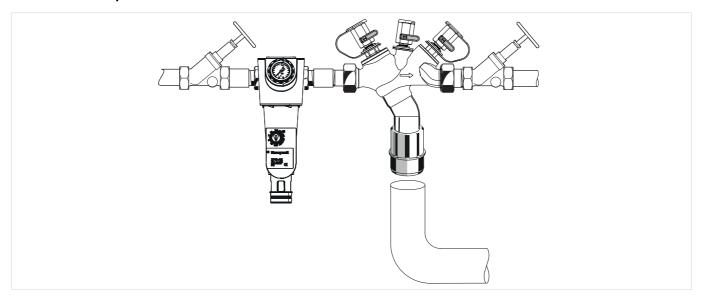
^{*}non condensing

INSTALLATION GUIDELINES

Setup requirements

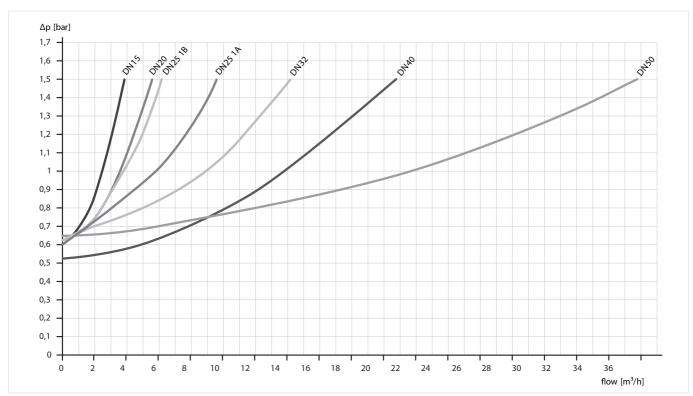
- Install shut-off valves before and after backflow preventer
- Install in horizontal pipework with the discharge valve downwards
- Ensure good access
 - Simplifies maintenance and inspection
- If a fine filter is not installed in the drinking water system, the installation of a filter with a mesh width of 100 μ m is recommended in front of the backflow preventer
- In case of inlet-pressure fluctuations or a inlet pressure over 10 bar, we recommend to install a pressure reducing valve upstream 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
- 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



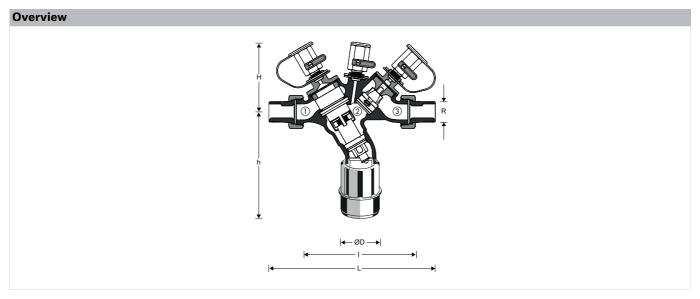
TECHNICAL CHARACTERISTICS

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:	R	1/2"	3/4"	1", B-version	1", A-version	1 ¹ /4"	11/2"	2"
Nominal size:	DN	50	50	50	50	50	70	70
k _{vs} -value:	m ³ /h	2.4	3.5	3.5	5.8	8.5	13.5	21.0
Weight:	kg	1.6	1.8	2.1	2.8	3.3	5.9	7.2
Dimensions:	L	195	208	225	247	272	322	348
	- 1	135	140	146	168	180	226	231
	Н	88	88	88	103	103	126	126
	h	143	143	143	174	174	217	217

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 sizes: $^{1}/_{2}$ ", $^{3}/_{4}$ ", 1 ", $^{1}/_{4}$ " $^{1}/_{2}$ " and 2 ".

- standard
- not available

		BA295SLFA	BA295S-1LFB
Connection type:	onnection type: Standard version acc. EN 12729 with threaded connections $^{1}/_{2}$ " - 2"	•	-
	Special version with threaded connections 1"	-	•

Note: ... = space holder for connection size

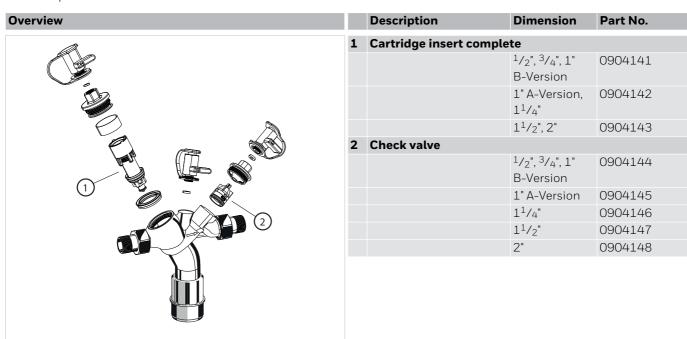
Note: Ordering number example for 1" and type LFA valve: BA295S-1LFA

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	
		3 Shut-off valve			
			1/2"	2192900	
			3/4"	2193100	
			1"	2193200	
			1 1/4"	2193300	
			1 1/2"	2193400	
			2"	2193500	

Spare Parts

Backflow preventer BA295S



For more information

homecomfort.resideo.com/europe



Ademco 1 GmbH Hardhofweg 40 74821 MOSBACH GERMANY

Phone: +49 6261 810 Fax: +49 6261 81309

Manufactured for and on behalf of the Pittway Sàrl, La Pièce 4, 1180 Rolle, Switzerland by its Authorised Representative Ademco 1 GmbH ENOH-1271GE23 R0919

Subject to change

© 2019 Pittway Sàrl. All rights reserved. This document contains proprietary information of Pittway Sàrl and its affiliated companies and is protected by copyright and other international laws. Reproduction or improper use without specific written authorisation of Pittway Sàrl is strictly forbidden. The Honeywell Home trademark is used under license from Honeywell International Inc.

