resideo

Braukmann BA298I-F

Reduced-pressure-zone backflow preventers with flanged connections - Industrial model

APPLICATION

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

Fluids up to and including liquid category 4 to EN 1717 are protected.

They can be used for residential buildings, industrial and commercial purposes within the scope of their specification.

The stainless steel housing provides increased corrosion protection.

APPROVALS

- DVGW
- SVGW
- BELGAQUA

SPECIAL FEATURES

- Optimal protection of the drinking water supply system
- Easy access to all internal components
- Easy Maintenance due to optimized construction
- Triple security two check valves and a discharge valve separate the backflow preventer into three pressure zones
- Few individual parts
- Light weight
- Standardised discharge connection
- All materials are KTW approved



TECHNICAL DATA

Media				
Medium:	Drinking water			
Connections/Sizes				
Nominal size diameter:	DN65 - DN150			
Discharge pipe connection:	DN150			
Pressure values				
Min. inlet pressure:	1.5 bar			
Max. operating pressure:	10 bar			
Operating temperatures				
Max. operating temperature medium:	65 °C (WRAS 60 °C)			
Specifications				
Installation position:	Horizontal with discharge valve downwards			

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CONSTRUCTION

Overview



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

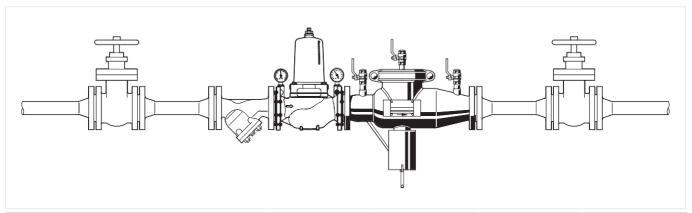
	Components	Materials
1	Three ball valves for the	Stainless steel
	connection of a differential	
	pressure gauge	
2	Housing	Stainless steel
3	Discharge connection	Stainless steel
	Not depicted components:	
	Inlet/Outlet check valves	Stainless steel
	Diaphragm	EPDM
	Sealing washers	EPDM
	Pressure control line	Stainless steel

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
- In order to avoid flooding, it is recommended to arrange a permanent, professionally dimensioned wastewater connection
- The installation environment should be protected against frost and ventilated well
- Install discharge pipework which has adequate capacity
- These armatures need to be maintained regularly

Installation Example



Connection sizes:				
DN:	65	80	100	150
Min. clearance above the middle of the piping:	650 mm	650 mm	650 mm	670 mm
Clearance from wall:	160 mm	160 mm	160 mm	200 mm

TECHNICAL CHARACTERISTICS

Pressure drop characteristics

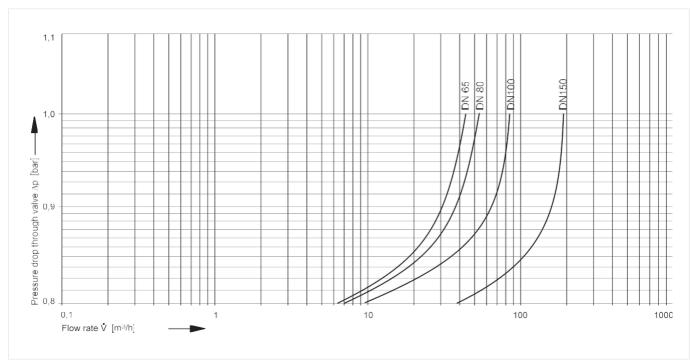
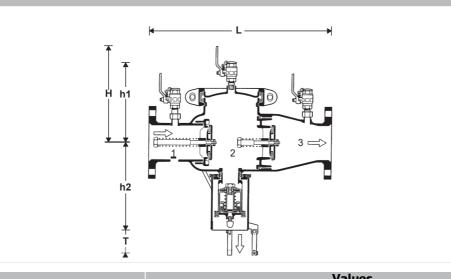


Fig. 1 Pressure drop within the valve in dependency of the flow rate and the used connection size

DIMENSIONS

Overview



Parameter

Parameter		values			
Connection size:	DN	65	80	100	150
Weight:	kg	32	32.5	33	57
Dimensions:	L	559	559	559	695
	Н	310	310	310	350
	h1	245	245	245	270
	h2	265	265	265	280
	Т	75	75	75	75
Nominal flow rate at $\Delta p = 1.0$ bar:	m³/h	45	54	85	191
Discharge flow rates in the event of	m³/h	35	35	35	35
failure:					
DIN/DVGW Registration No.:		NW-6305CO0318			

Note: All dimensions in mm unless stated otherwise.

Note: 1 to 3 see chapter Method of operation

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 preventers are available in the following sizes: DN65, DN80, DN100 and DN150.

- standard
- not available

		BA298IFA	BA298IFZ
Connection type:	Standard version with PN10 flanges,	•	-
	connection sizes DN65 - DN150		
	Special version, drill pattern on flanges according to		•
	ANSI150, connection sizes DN65 - DN150		

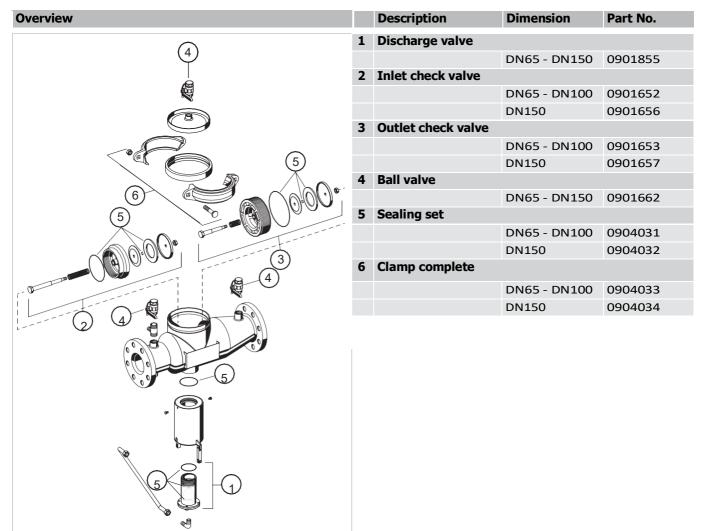
Note: ... = space holder for connection size

Accessories

Descriptio	on and a second s	Dimension	Part No.
TKA295	Test kit Analogue pressure measuring device with differ and accessories, ideal for inspection and mainte BA.	•	• •
WBA298	Check valve replacement tool WBA298-100 for connection sizes DN65 - DN100 WBA298-150 for connection size DN150		
			WBA298

Spare Parts

Backflow Preventer BA298I-F, from 2008 onwards





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