



Braukmann

RV283S

Controllable anti-pollution check valve with flanges

APPLICATION

Check valves are preferably for use as an independent means of preventing reverse water flow and are for installing directly after a water meter, but also for application in transfer pipes on district water supply systems.

They can also be used for industrial, commercial and similar systems where back pressure, backflow and back syphonage must be prevented.

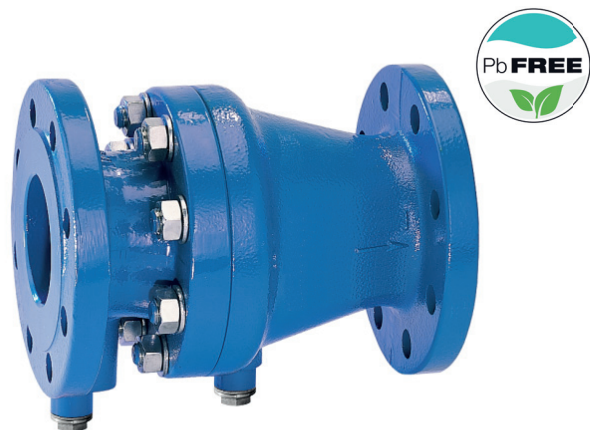
The types of safety devices required for these purposes are specified in EN 1717.

APPROVALS

- DVGW in progress
- KIWA in progress
- BELGAQUA in progress

SPECIAL FEATURES

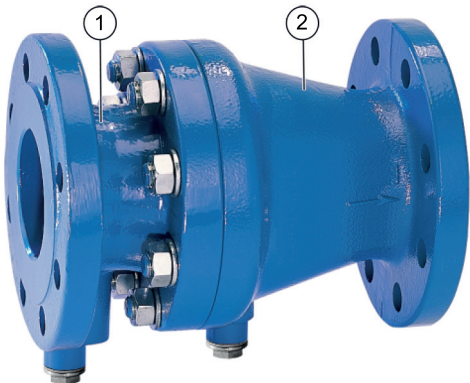
- LEAD FREE: Pb content of all materials less than 0.1 %
- Universal application
- High temperature resistance
- Create no shock pressure loadings
- Powder-coated inside and outside
- Disc, spring and lip seal ring are exchangeable
- Low pressure loss
- All materials are UBA conform
- ACS certified



TECHNICAL DATA

Media	
Medium:	Drinking water
Connections/Sizes	
Connection size:	DN50 - DN150 DN125 available with adapter flanges DN100/ DN125
Pressure values	
Opening pressure:	approx. 0.05 bar
Max. inlet pressure:	16.0 bar
Operating temperature	
Max. operating temperature medium:	65 °C (accord. DIN EN 13959)
Specifications	
Liquid category:	2 (no hazardous materials)

CONSTRUCTION

Overview		Components	Materials
	1	Housing end casing with flanges	Grey cast iron Powder-coated with High-performance polyamide
	2	Housing with flanges	Grey cast iron Powder-coated with High-performance polyamide
	Not depicted components:		
		Test and drain plugs	Stainless steel
		Disc guide	POM (DN50) Stainless steel (DN65-DN150)
		Spring	Stainless steel
		Lip seal ring	EPDM
		Screws and nuts	Stainless steel

METHOD OF OPERATION

Spring loaded check valves have a moving seal disc which is lifted off the seat by a greater or lesser amount depending on the flow rate through the valve. If the flow falls towards zero, then the spring pushes the disc back onto the seat and seals the waterway.

To ensure continuing correct function it is recommended that check valves be regularly checked and maintained (as specified in EN 1717).

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 % *

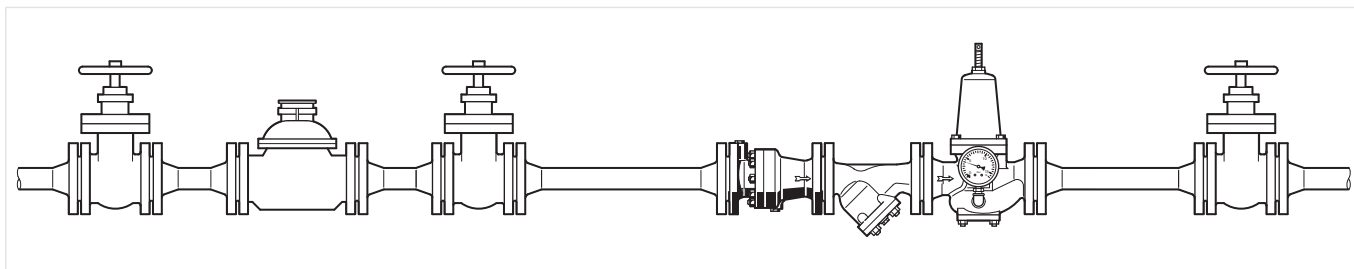
*non condensing

INSTALLATION GUIDELINES

Setup requirements

- Install in horizontal pipework with test and drain plug downwards
 - This position is best for draining
- Install shut-off valves
 - Shut-off valves provide optimal serviceability
- Ensure good access
 - Simplifies maintenance and inspection
- Install right after water meter if applicable
 - Protects against backflow from water systems

Installation Example



TECHNICAL CHARACTERISTICS

kvs-Values

Connection sizes:	50	65	80	100	150
k_{VS} -value (m^3/h):	62	110	170	240	760

Pressure drop characteristics

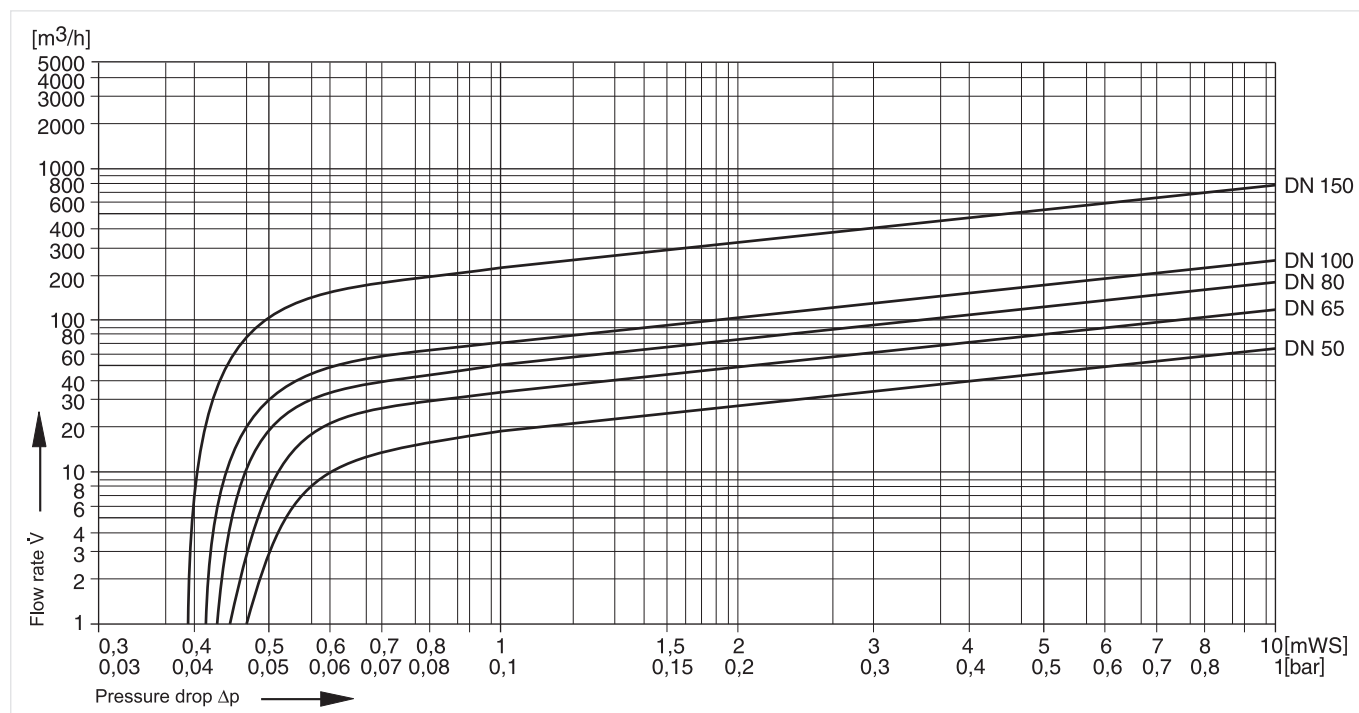
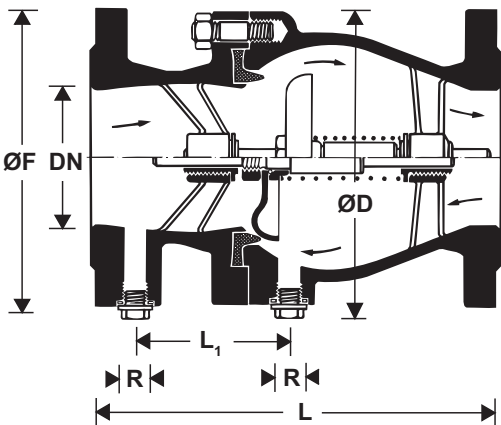


Fig. 1 Pressure drop within the valve in dependency of the flow rate and the used connection size

DIMENSIONS

Overview



Parameter		Values				
Connection size:	R	50	65	80	100	150
Test and drain plug:	R	1/4"	1/2"	1/2"	1/2"	1/2"
Weight:	kg	11.0	17.0	21.0	29.0	62.0
Dimensions:	L	200	240	260	300	400
	L ₁	36.5	89	107	111.5	149
	ØF	165	185	200	220	285
	ØD	165	185	200	220	285
Nominal flow rate at Δp = 0.15 bar:	m³/h	24.0	43.0	66.0	93.0	295.0
DIN/DVGW Registration No.:		in progress				
KIWA Registration No.:						
BELAQUA Registration No.:						

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 valve is available in the following sizes: DN50, DN65, DN80, DN100 and DN150.

- standard
- not available

		RV283S-...A
Connection type:	With drilled flanges, PN16, ISO 7005-2, EN 1092-2, EPDM lip seal ring	•

Note: ... = space holder for connection size

Note: Ordering number example for DN100: RV283S-100A

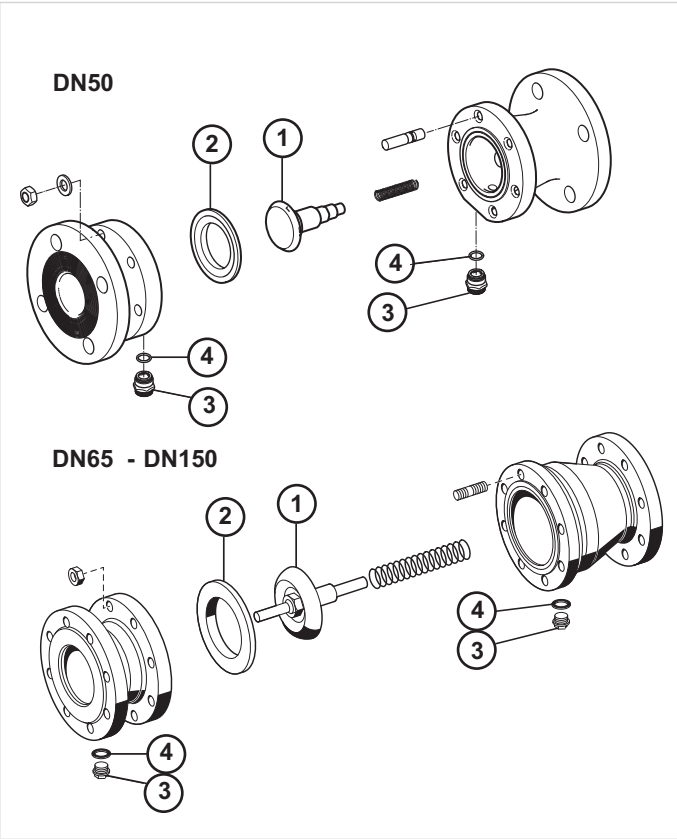
Accessories

	Description	Dimension	Part No.
	EXF125-A Extension flange DN125		
	Adapter flanges DN100 to DN125		
	Ductile iron, PN16 acc. ISO 7005-2 and EN 1092-2.		
	Overall length with adapter flanges (without bolts)		
	DN125 L=416mm, DVGW approved, including bolts, nuts and the seal disc.		
			EXF125-A

Spare Parts

Inlet check valve RV283S, from 2019 onwards

Overview



	Description	Dimension	Part No.
1	Valve disc guide		
		DN50	2240050
		DN65	2240065
		DN80	2240080
		DN100	2240100
		DN150	2240150
2	Lip seal ring		
		DN50	2241050
		DN65	2241065
		DN80	2241080
		DN100	2241100
		DN150	2241150
3	Plug		
		DN50	5726800
		DN65-DN150	2240000
4	Seal ring		
		DN50-DN150	2166600



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