

RV283P

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, back flow and back syphonage must be prevented.

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

APPROVALS

- DVGW (DN40 - DN150)
- KIWA (DN40 - DN150)
- BELGAQUA (DN40 - DN150)

SPECIAL FEATURES

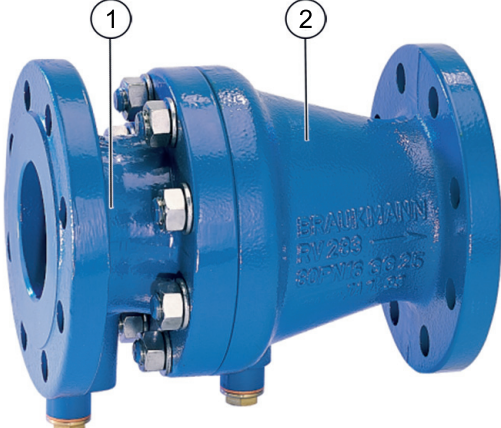
- Universal application
- High temperature resistance
- Create no shock pressure loadings
- Powder-coated inside and outside
- Disc, spring and lip seal ring are exchangeable
- Low pressure loss
- All materials are UBA conform
- All materials are ACS approved



TECHNICAL DATA

Media	
Medium:	Drinking water
Connections/Sizes	
Connection size:	DN40 - DN300
Pressure values	
Opening pressure:	approx. 0.05 bar
Max. inlet pressure:	16.0 bar
Operating temperatures	
Max. operating temperature medium:	65 °C
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 (DN50 - DN100) High-performance epoxy resin (DN40 and DN125 - DN300)
	2 Housing with flanges	Grey cast iron Powder-coated with: High-performance polyamide (DN50 - DN100) High-performance epoxy resin (DN40 and DN125 - DN300)
Not depicted components		
	Test and drain plugs	Brass
	Disc guide	Stainless steel (brass for DN40 and DN50)
	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 % *

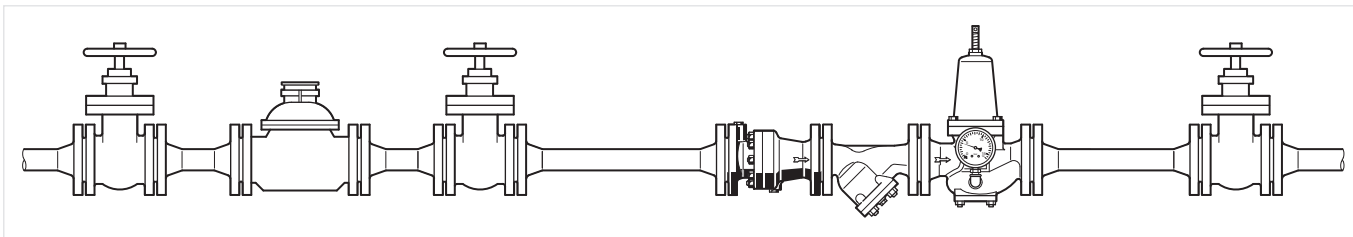
*non condensing

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:	40	50	65	80	100	125	150	200	250	300
k _{vs} -value (m ³ /h):	39	62	110	170	240	420	760	1400	2100	3000

Pressure drop characteristics

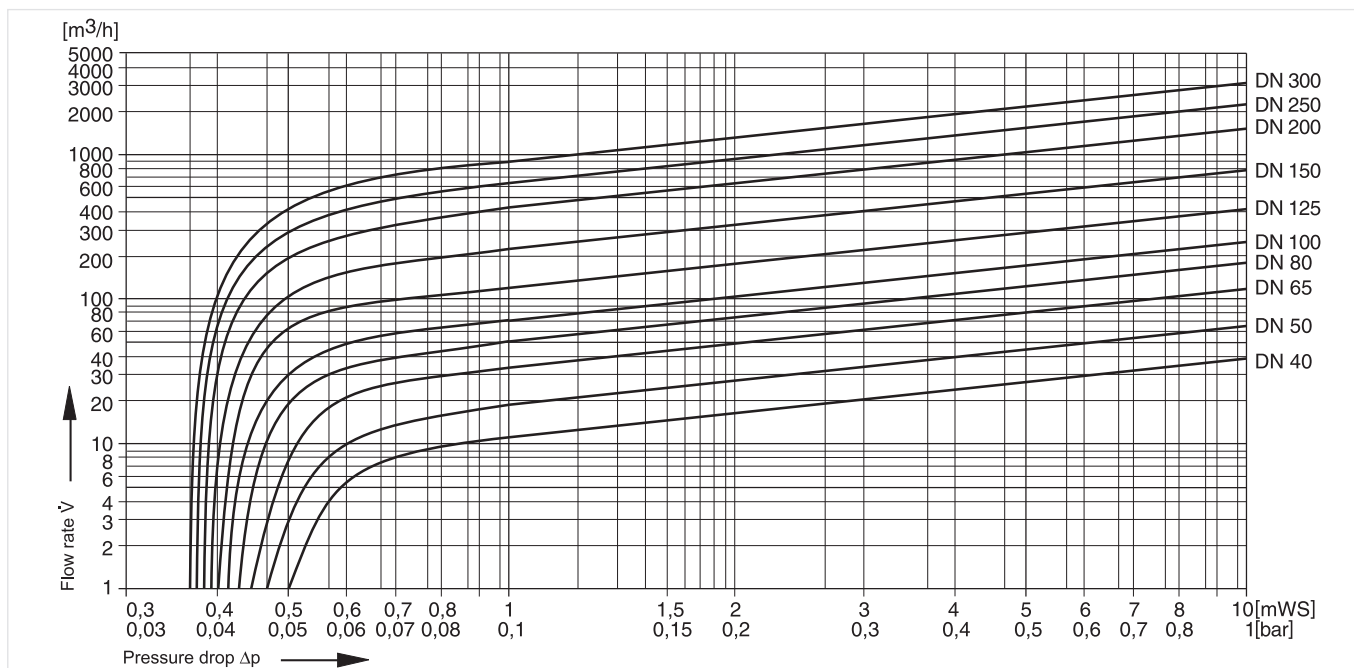
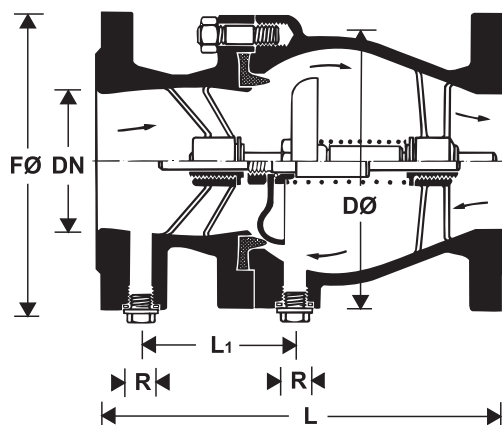


Fig. 1 Pressure drop within the valve in dependency of the flow rate and the used connection size

DIMENSIONS

Overview



Parameter		Values										
Connection size:	R	40	50	65	80	100	125	150	200	250	300	
Test and drain plug:	R	1/4"	1/4"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	
Weight:	kg	9.0	11.0	17.0	21.0	29.0	37.0	62.0	78.0	155.0	180.0	
Dimensions:	L	180	200	240	260	300	350	400	500	600	700	
	L_1	37.5	36.5	89	107	111.5	131.5	149	163	186	218	
	ØF	150	165	185	200	220	250	285	340	405	460	
	ØD	150	165	185	200	220	250	285	345	420	475	
Nominal flow rate at $\Delta p = 0.15$ bar:	m^3/h	15.1	24.0	43.0	66.0	93.0	163.0	295.0	542.0	813.0	1162.0	
DIN/DVGW Registration No.:	NW - 6310 BU 0492								Approval not compulsory			
KIWA Registration No.:	16 / 257 / EA											
BELAQUA Registration No.:	K 21085 / 02											

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: DN40, DN50, DN65, DN80, DN100, DN125, DN150, DN200, DN250 and DN300.

- standard
- not available

		RV283P-...A
Connection type:	With drilled flanges, PN16, ISO 7005-2, EN 1092-2, DN40 - DN300, EPDM lip seal ring	•

Note: ... = space holder for connection size

Note: Ordering number example for DN100: RV283P-100A

Spare Parts

Inlet check valve RV283P, from 2000 onwards

Overview	Description	Dimension	Part No.	
<p>DN40, DN50, DN125 - DN300</p> <p>DN65 - DN100</p>	1 Valve disc guide			
		DN40	5605800	
		DN50	5605900	
		DN65	0900376	
		DN80	0900377	
		DN100	0900378	
		DN125	0900379	
		DN150	0900380	
		DN200	0900381	
		DN250	0900382	
		DN300	0900383	
		2 Lip seal ring		
			DN40	2238700
			DN50	2238800
			DN65	5350000
			DN80	5350300
			DN100	5350400
			DN125	2070300
			DN150	2067300
			DN200	2238900
			DN250	2239000
			DN300	2239100
		3 Hexagonal blanking plug		
			DN40 - DN50	5726800
			DN65 - DN300	2248700
		4 Seal ring		
			DN40 - DN50	2166600
		Up to 06/2013	DN65 - DN100	5350500
	From 07/2013 onwards	DN65 - DN100	2166600	
		DN125 - DN300	5350500	

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