



## 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

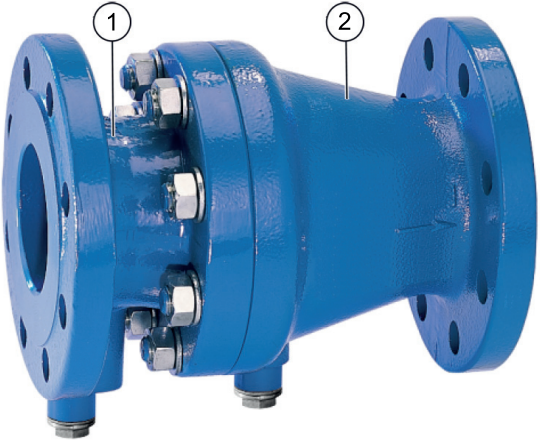
- Universal application
- High temperature resistance
- Create no shock pressure loadings
- Powder-coated inside and outside
- Disc, spring and lip seal ring are exchangeable
- Low pressure loss
- All materials are UBA conform
- ACS certified



#### 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
	<b>1</b> Housing end casing with flanges	Grey cast iron Powder-coated with High-performance polyamide
	<b>2</b> Housing with flanges	Grey cast iron Powder-coated with High-performance polyamide
<b>Not depicted components:</b>		
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 % *

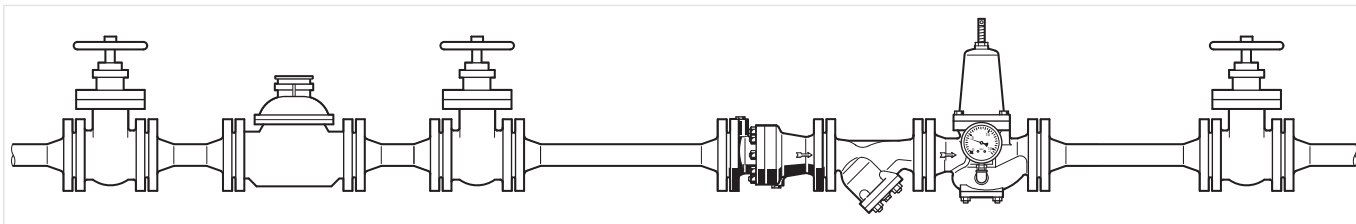
\*non condensing

## 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 <sub>VS</sub> -value (m <sup>3</sup> /h):	62	110	170	240	760

**Pressure drop characteristics**

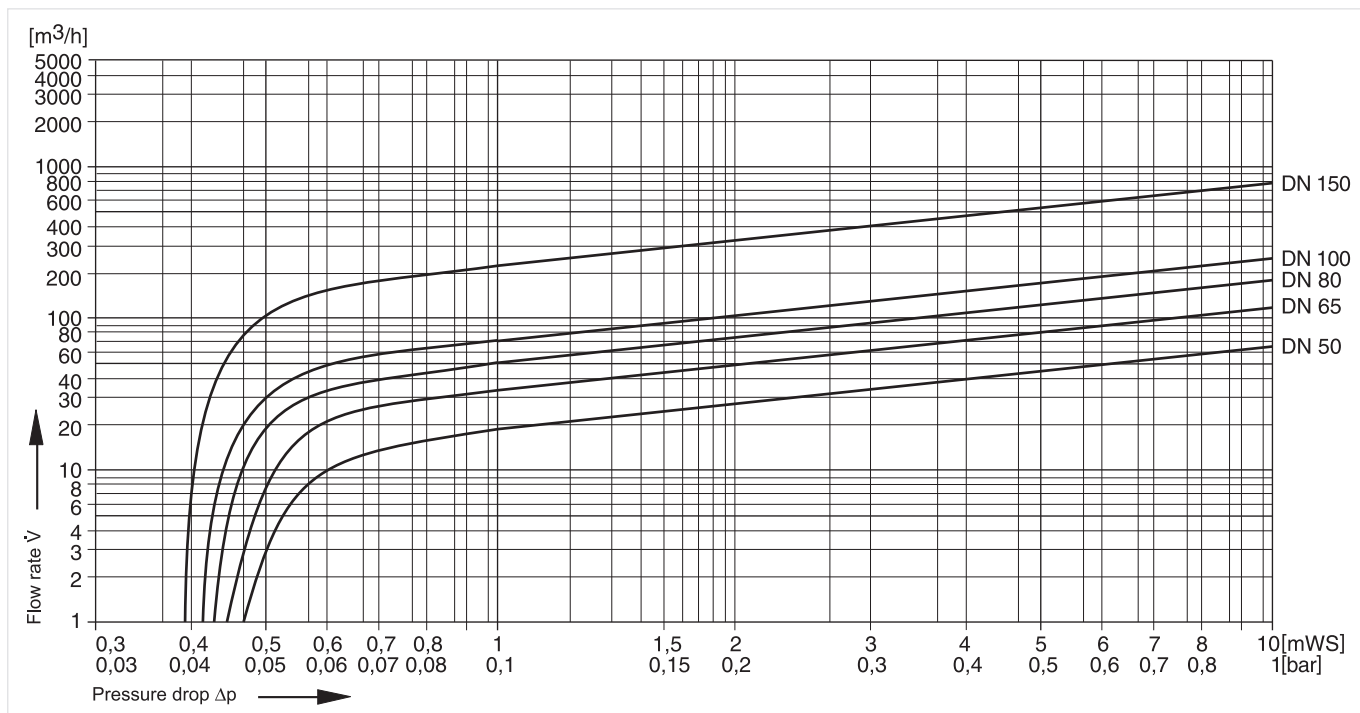
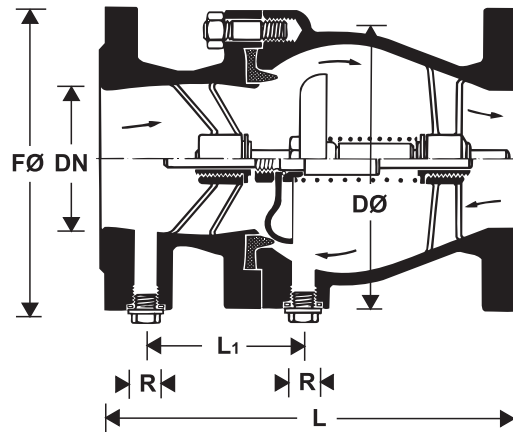


Fig. 1 Pressure drop within the valve in dependency of the flow rate and the used connection size

## 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 <sub>1</sub>	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:	m <sup>3</sup> /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.
	<b>EXF125-A Extension flange DN125</b>		
	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.	
	<b>1 Valve disc guide</b>			
		DN50	2240050	
		DN65	2240065	
		DN80	2240080	
		DN100	2240100	
		DN150	2240150	
	<b>2 Lip seal ring</b>			
		DN50	2241050	
		DN65	2241065	
		DN80	2241080	
		DN100	2241100	
		DN150	2241150	
	<b>3 Plug</b>			
		DN50	5726800	
		DN65-DN150	2240000	
	<b>4 Seal ring</b>			
	DN50-DN150	2166600		

### For more information

[homecomfort.resideo.com/europe](http://homecomfort.resideo.com/europe)



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Subject to change

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