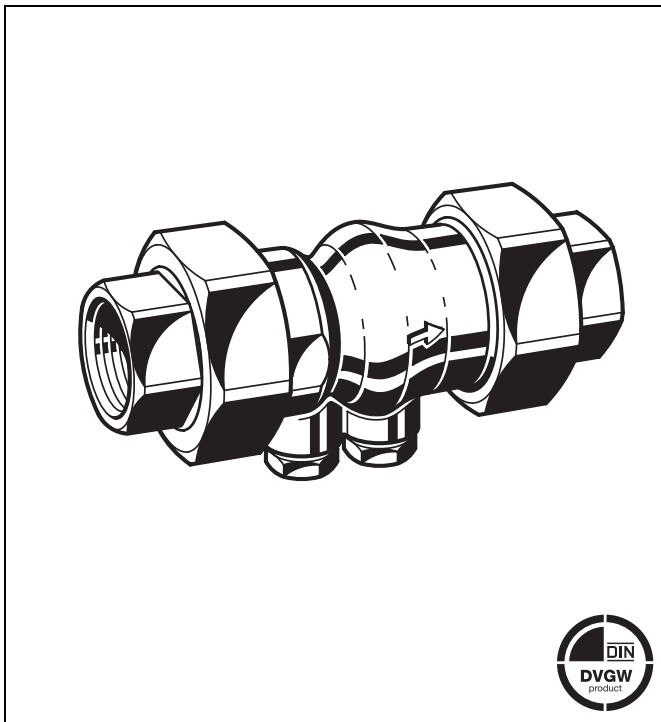


RV281

Controllable anti-pollution check valve EA type with union connectors

Product specification sheet



Construction

The check valve comprises:

- Housing with test and drain plugs (1/2" device with test plugs only)
- Check valve insert
- Threaded or soldered union connectors
- Test and drain plugs
- Disc guide
- Spring
- Disc with lip seal ring

Materials

- Brass housing
- Brass union nuts
- Red bronze threaded union connectors (brass for 2")
- High grade synthetic material disc guide and disc
- NBR lip sealing ring
- Stainless steel spring
- High grade synthetic material blanking plugs

Application

Check valves of this type are for use as an independent means of preventing reverse water flow and for installing directly after a water meter on central 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 classifications of appliances to meet these requirements are specified in EN 1717.

Special Features

- DIN/DVGW-approved
- Universal application
- Suitable for installation in any position
- Create no shock pressure loadings
- Union connectors simplify service
- Fully approved for noise level protection to class 1
- Meets KTW recommendations for potable water
- Low pressure loss

Range of Application

Medium Water, compressed air, petroleum, medium and light fuel oils, kerosene, gasoline with less than 15 % aromatic content.
Not suitable for gaseous mediums below 0.5 bar, steam, heavy oils and benzole.

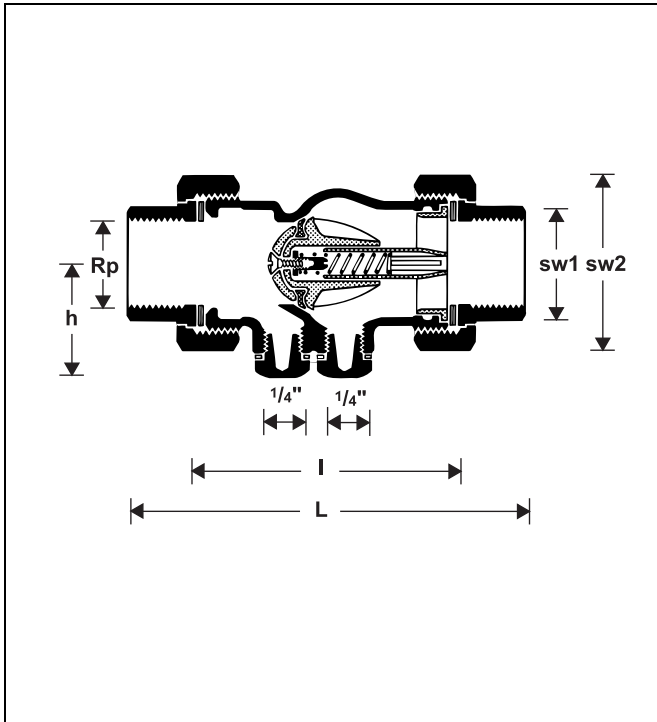
Max. inlet pressure 16 bar

Technical Data

Operating temperature Water up to 75 °C (short term up to 90 °C)
Compressed air and other mediums up to 70 °C

Opening pressure approx. 0.05 bar

Connection size 1/2" - 2"



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 water-way.

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

Options

RV281-... A = With internal thread

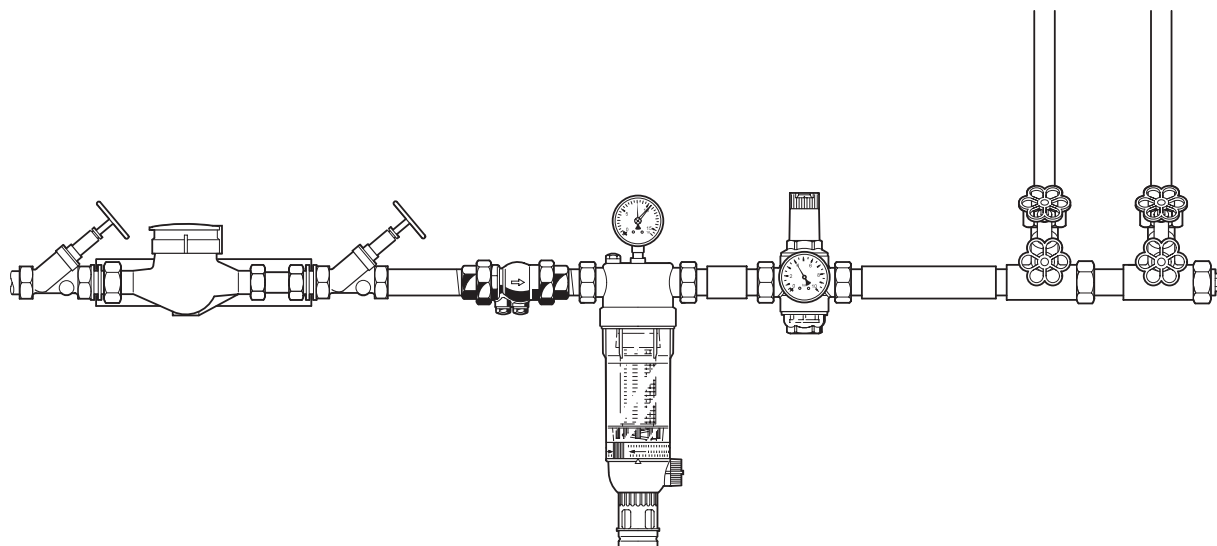
RV281-... B = With soldered union connectors

└ Special Versions available on request
 | Connection size

Connection size	Rp	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Connection size with soldered unions	mm	15	22	28	35	42	54
Weight	approx. kg	0.4	0.6	0.8	1.3	2.0	2.6
Dimensions	mm						
	L	106	120	139	161	171	201
	l	60	72	85	95	103	125
	h	34	34	40	45	47	57
	sw 1	24	30	38	46	52	66
	sw 2	37	46	52	64	76	88
Test and drain plug	R	1/4" <td>1/4" <td>1/4" <td>1/4" <td>1/4" <td>1/4" </td></td></td></td></td>	1/4" <td>1/4" <td>1/4" <td>1/4" <td>1/4" </td></td></td></td>	1/4" <td>1/4" <td>1/4" <td>1/4" </td></td></td>	1/4" <td>1/4" <td>1/4" </td></td>	1/4" <td>1/4" </td>	1/4"
k _{VS} -value	m ³ /h	4.5	9.1	17.0	28.0	38.0	60.0
Nominal flow rate in m ³ /h at Δp = 0.15 bar		2.3	3.1	7.7	10.8	15.5	25.2
DIN/DVGW Approval No.		NW-6310 AT 2325					
IfBt Designation		P-IX 2614/I			-		-

* Test plug only

Installation Example



Installation Guidelines

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

Typical Applications

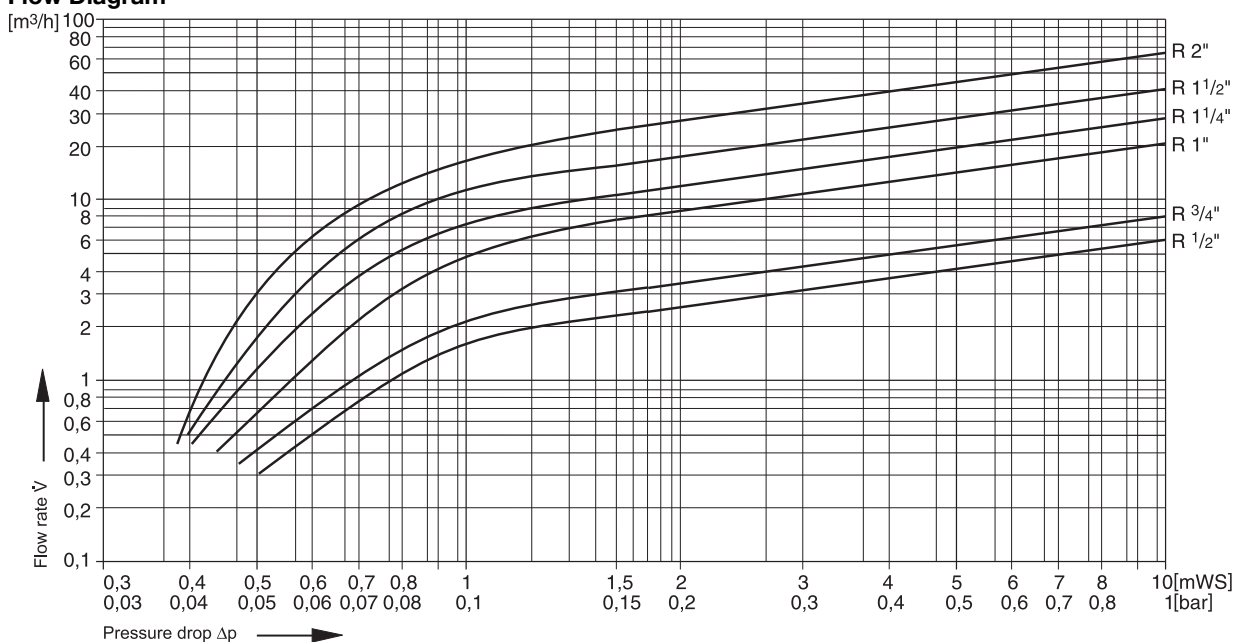
Check valves of this type are suitable for use as a safety device on water installations as specified in EN 1717.

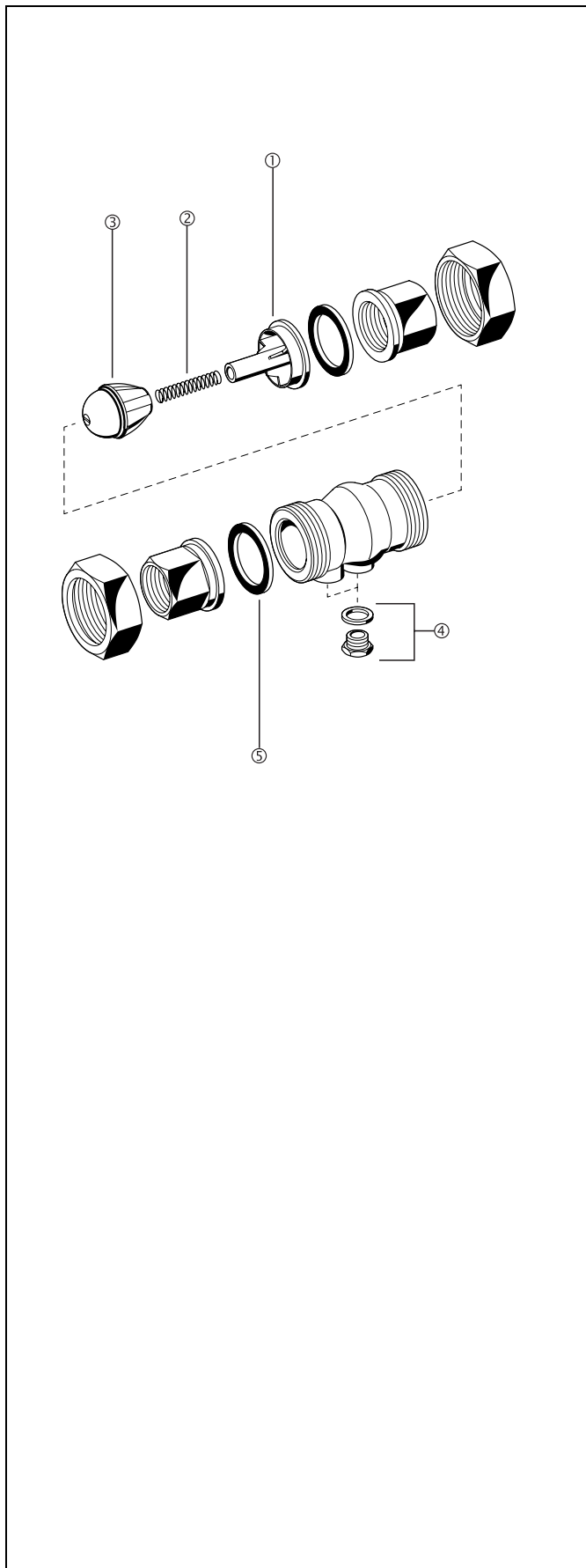
They can be used within the scope of their specification.

The following are some typical applications:

- In central water supply systems
- After a water meter
- As a safety device up to liquid category 2 of EN 1717
- Downstream of pumping installations
- Upstream of water heating installations

Flow Diagram





Spare Parts

Inlet check valve RV281, from 1984 onwards

No.	Description	Dimension	Part No.		
①	Disc guide	1/2"	5534900		
		3/4"	5535100		
		1"	5531500		
		1 1/4"	5535300		
		1 1/2"	5535500		
		2"	5535700		
		②	Spring	1/2"	2061400
				3/4"	2061500
1"	2061600				
1 1/4"	2061700				
1 1/2"	2062000				
2"	2062400				
③	Valve disc complete	1/2"	0900356		
		3/4"	0900357		
		1"	0900358		
		1 1/4"	0900359		
		1 1/2"	0900360		
		2"	0900361		
④	Hexagon-plug with O-ring R1/4" (5 pcs.)	all	S06M-1/4		
⑤	Seal washer	1/2"	5351200		
		3/4"	5351300		
		1"	5018100		
		1 1/4"	5957600		
		1 1/2"	5163000		
		2"	5163100		

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