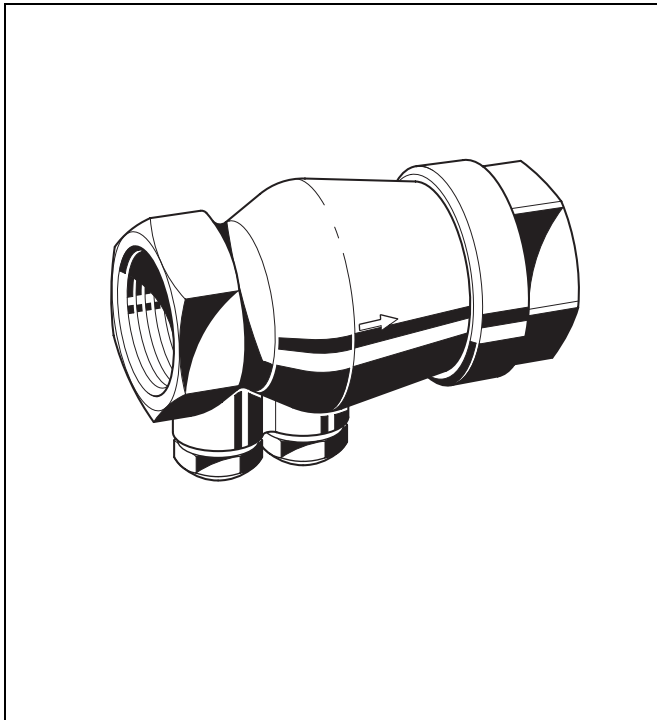


RV280

Controllable anti-pollution check valve EA type with internal thread

Product specification sheet



Construction

The check valve comprises:

- Housing with test and drain plugs (1/2" device with test plugs only)
- Check valve insert
- Union connector with internal thread
- Test and drain plugs
- Disc guide
- Spring
- Disc with lip seal ring

Materials

- Brass housing
- Brass connection nut
- High grade synthetic material disc guide and disc
- EPDM for lip seal 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.

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

- Universal application
- Suitable for installation in any position
- Creates no shock pressure loadings
- Meets KTW regulations for potable water
- Low pressure loss

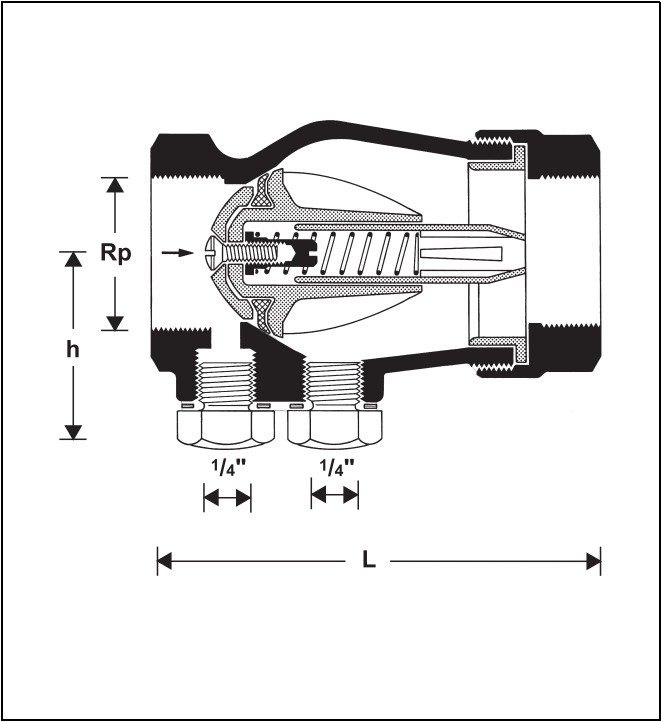
Range of Application

Medium	Water
	Liquid category 2 (no hazardous material)
Operating pressure	max. 16 bar

Technical Data

Operating temperature Water up to 65 °C
accord. DIN EN 13959 (short term up to 90 °C)

Opening pressure	ca. 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 waterway.

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

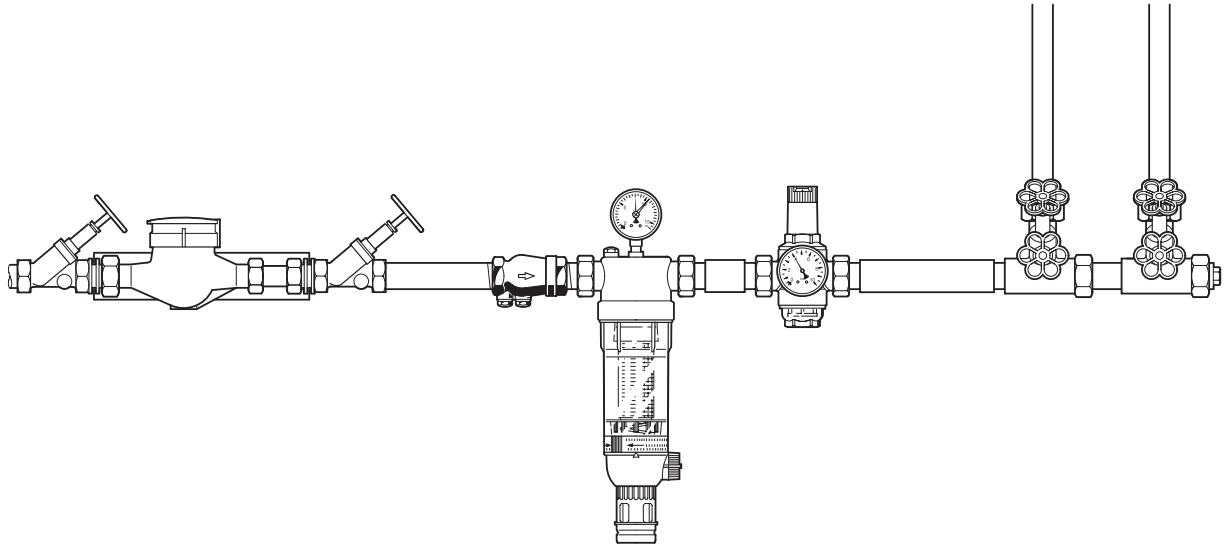
Options

RV280-... A = Internal thread
Special Versions available on request
Connection size

Connection size	Rp	1/2"*	3/4"	1"	1 1/4"	1 1/2"	2"
Weight	approx. kg	0.2	0.3	0.5	0.8	1.0	1.9
Dimensions	mm						
	L	65	75	93	110	120	150
	H	29	32	35	43	47	55
	sw	27	32	41	50	55	70
Test and drain plug	R	1/4"*	1/4"	1/4"	1/4"	1/4"	1/4"
kVS-value	m³/h	4.5	9.1	17.0	28.0	38.0	60.0
Nominal flow rate in m³/h bei Δp = 0.15 bar		1.7	3.5	6.6	10.8	14.7	23.2

* 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

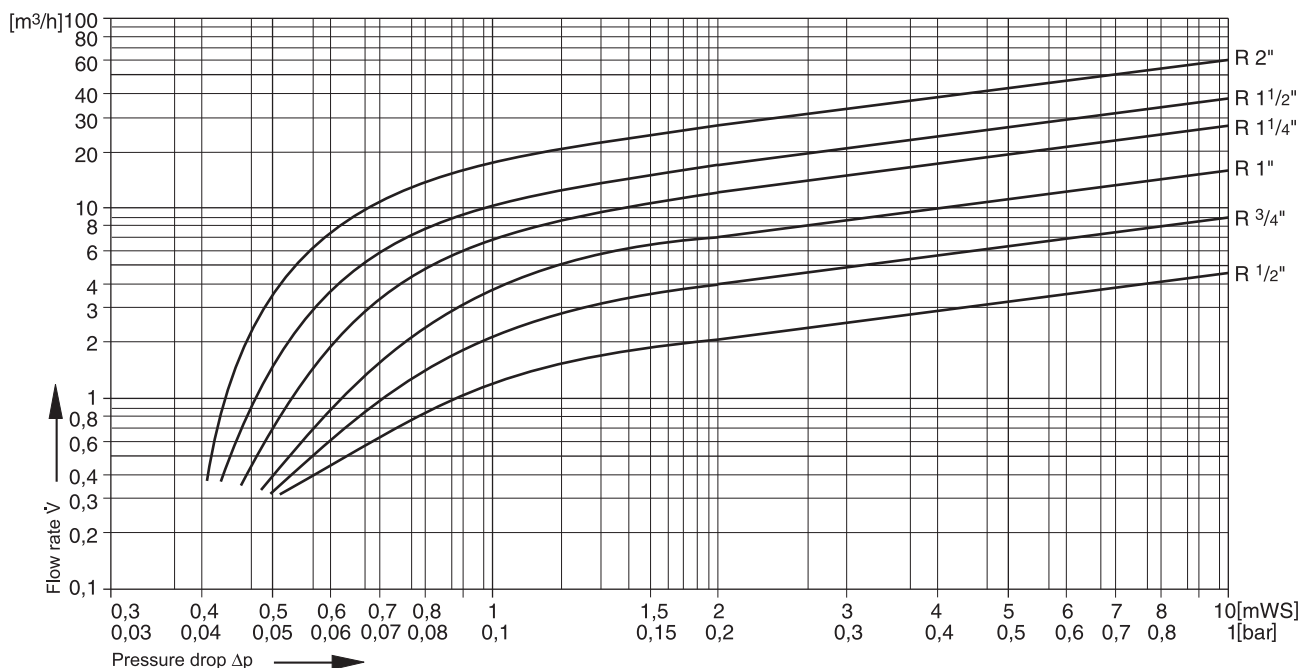
Check valves of this type are suitable for use as a safety device on water installations as specified in EN 1717.

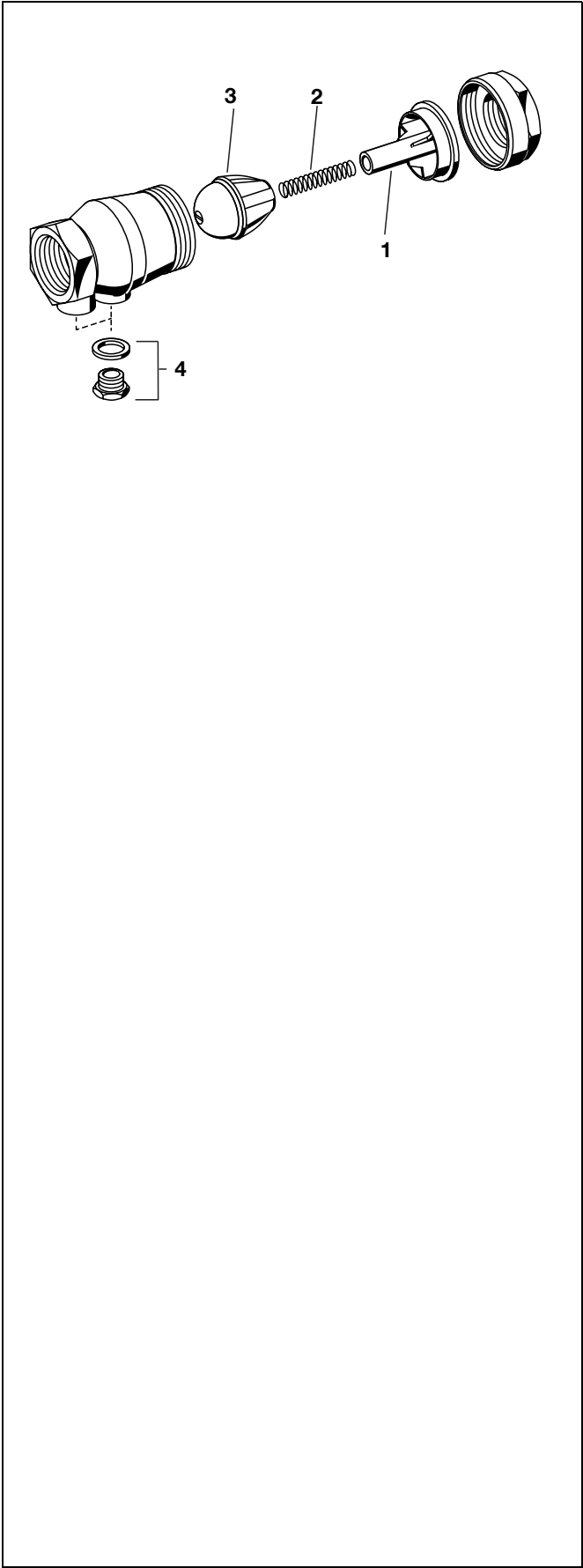
They can be used within the scope of their specification.

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
Check valve RV280, from 1966 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 copper sealing-ring R1/4" (5 pcs.)	all	S06M-1/4