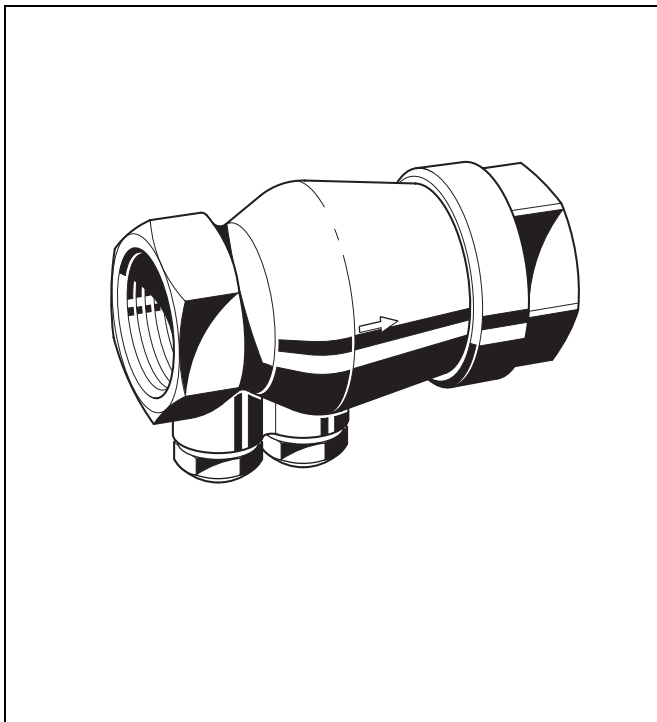


## RV280

### 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
- 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.

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
- Create no shock pressure loadings
- 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.

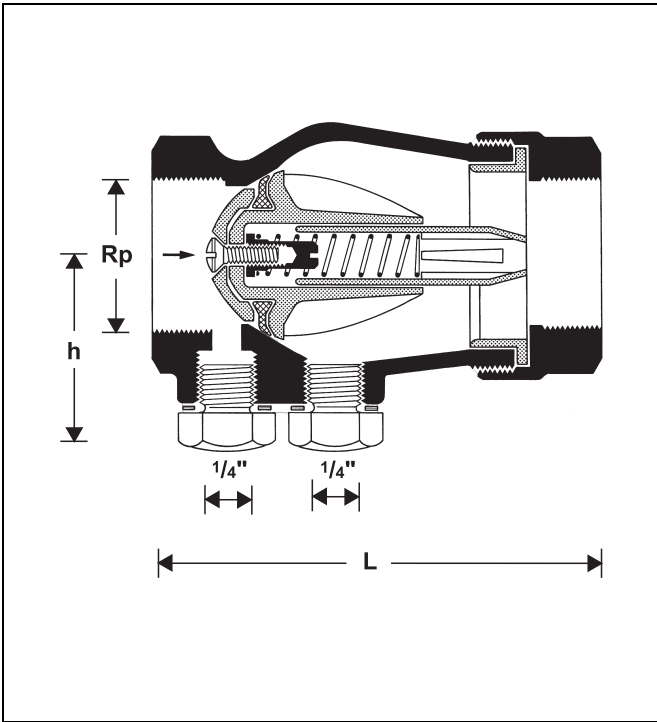
Operating pressure max. 16 bar

#### Technical Data

Operating temperature Water up to 65 °C  
accord. DIN EN 13959 (short term up to 90 °C)  
Compressed air and other mediums up to 60 °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

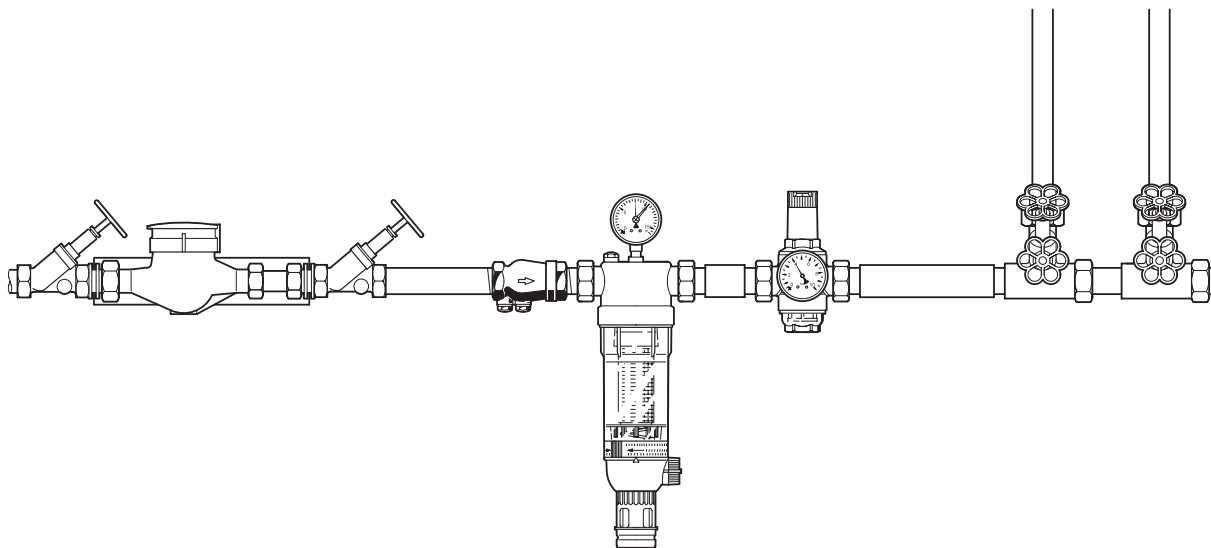
└ Special Versions available on request

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"
k <sub>VS</sub> -value	m <sup>3</sup> /h	4.5	9.1	17.0	28.0	38.0	60.0
Nominal flow rate in m <sup>3</sup> /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
  - o This position is best for draining
- Install shutoff valves
  - o Shutoff valves provide optimal serviceability
- Ensure good access
  - o Simplifies maintenance and inspection
- Install right after water meter if applicable
  - o Protects against backflow from water systems

**Typical Applications**

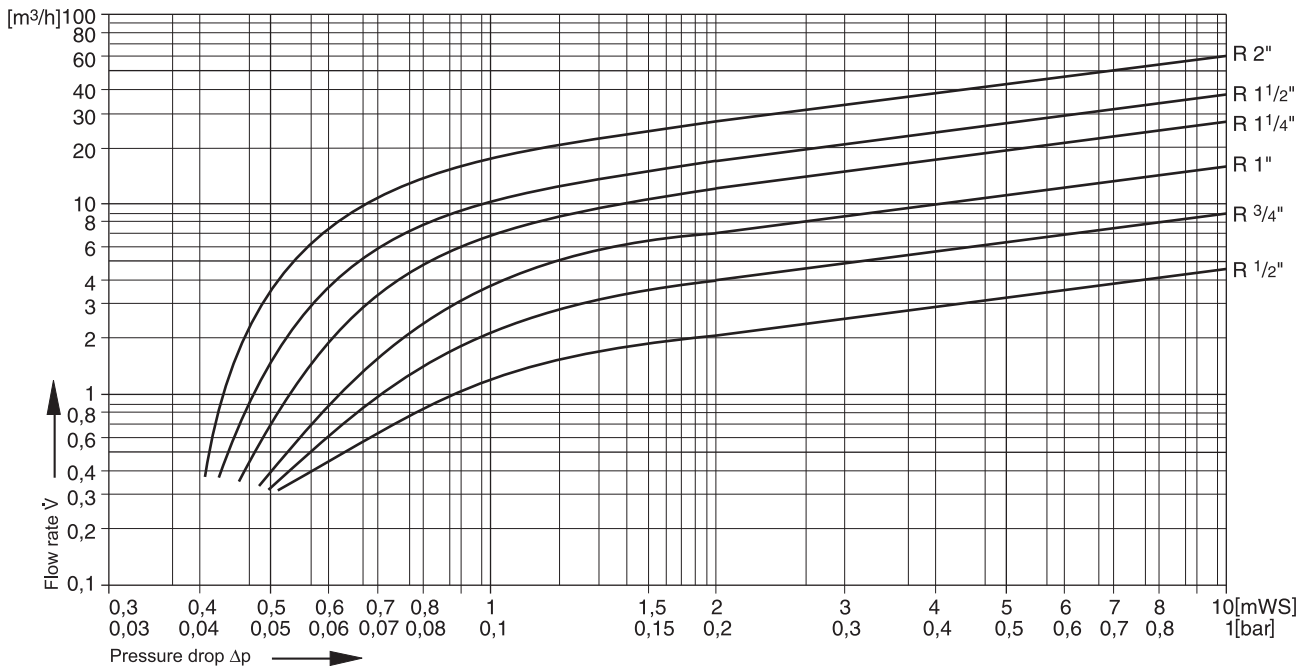
Check valves of this type are suitable for use as a safety device on water installations as specified in EN 1717.

They can be used within the scope of their specification.

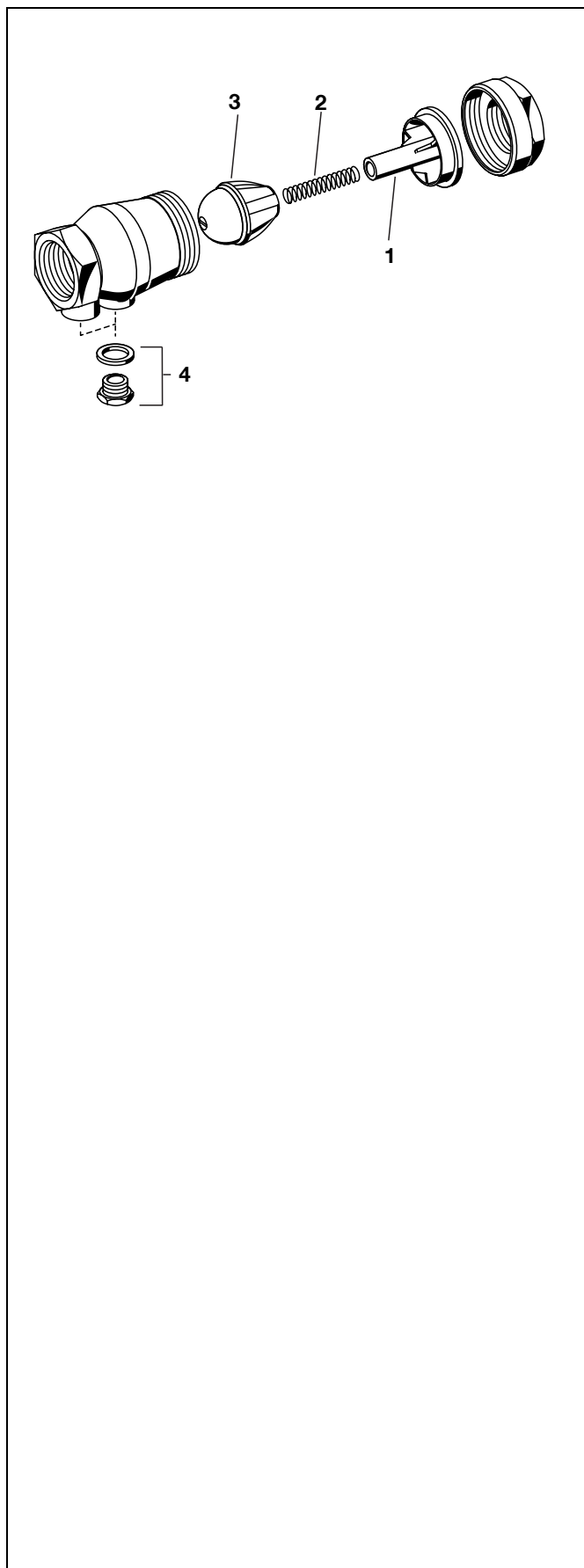
The following are some typical applications:

- 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**



EN0H-1201GEZ3 R0213 • Subject to change



**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

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Manufactured for and on behalf of the  
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EN0H-1201GE23 R0213  
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