



Braukmann RV280

Controllable anti-pollution check valve EA type
with internal thread

APPLICATION

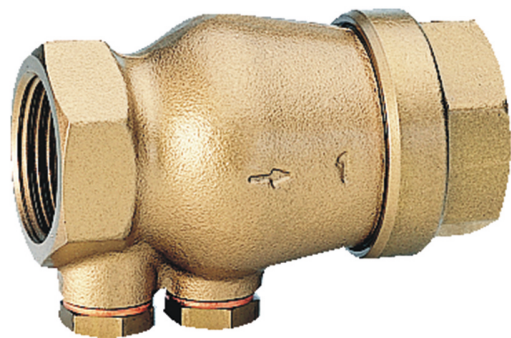
Check valves of this type are for use as an independent means of preventing reverse water flow.

They can also be used for industrial, commercial and similar systems where back pressure, backflow and back syphonage must be prevented.

The classifications of appliances to meet these requirements are specified in EN 1717.

SPECIAL FEATURES

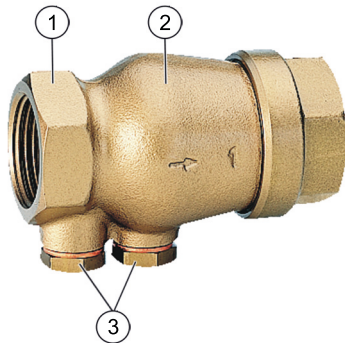
- Universal application
- Suitable for installation in any position
- Creates no shock pressure loadings
- Low pressure loss
- All materials are UBA conform



TECHNICAL DATA

Media	
Medium:	Drinking water
Connections/Sizes	
Connection size:	1/2" - 2"
Pressure values	
Max. operating pressure:	16 bar
Opening pressure:	ca. 0.05 bar
Operating temperatures	
Max. operating temperature medium:	65 °C accord. DIN EN 13959 (short term up to 90 °C)
Specifications	
Liquid category:	2 (no hazardous materials)

CONSTRUCTION

Overview		Components	Materials
	1	Union connector with internal thread	Brass
	2	Housing with test and drain plugs (1½" device with test plugs only)	Brass
	3	Test and drain plugs	Brass
	Not depicted components:		
		Check valve insert	High-grade synthetic material
	Disc guide	High-grade synthetic material	
	Spring	Stainless steel	
	Disc with lip seal ring	EPDM	

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

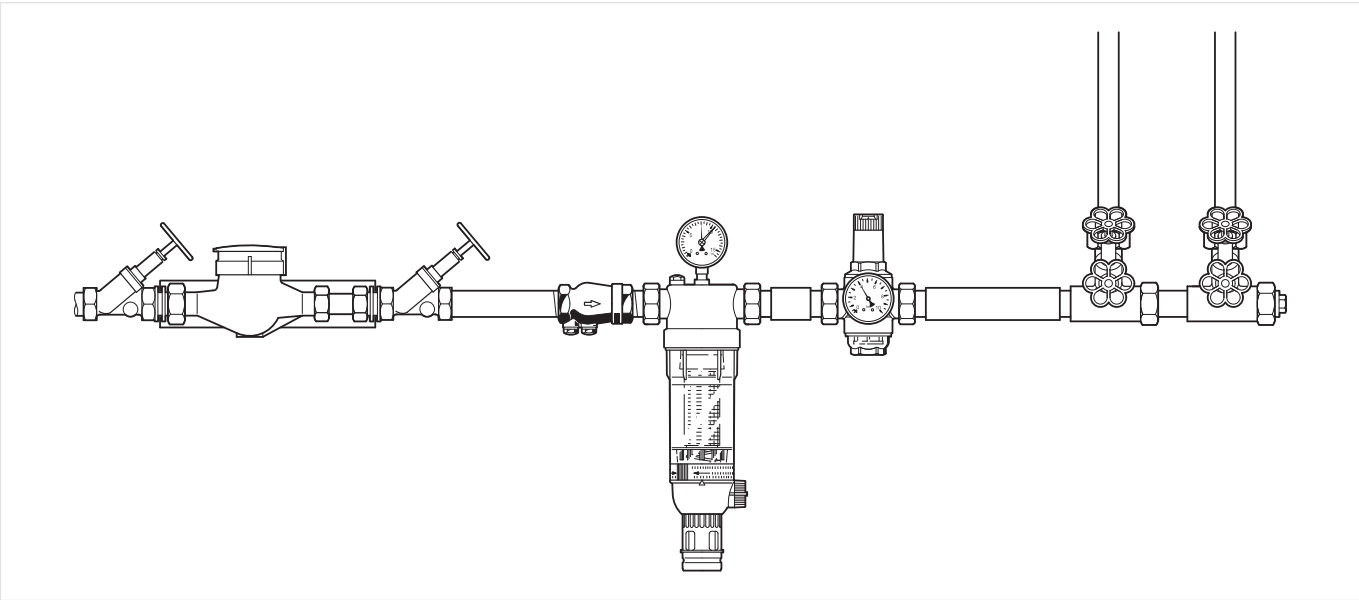
Keep parts in their original packaging and unpack them shortly before use.

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 Example



TECHNICAL CHARACTERISTICS

kvs-Values

Connection sizes:	1/2"*	3/4"	1"	1 1/4"	1 1/2"	2"
k _{VS} -value (m ³ /h):	4.5	9.1	17.0	28.0	38.0	60.0

Note: * Test plug only

Pressure drop characteristics

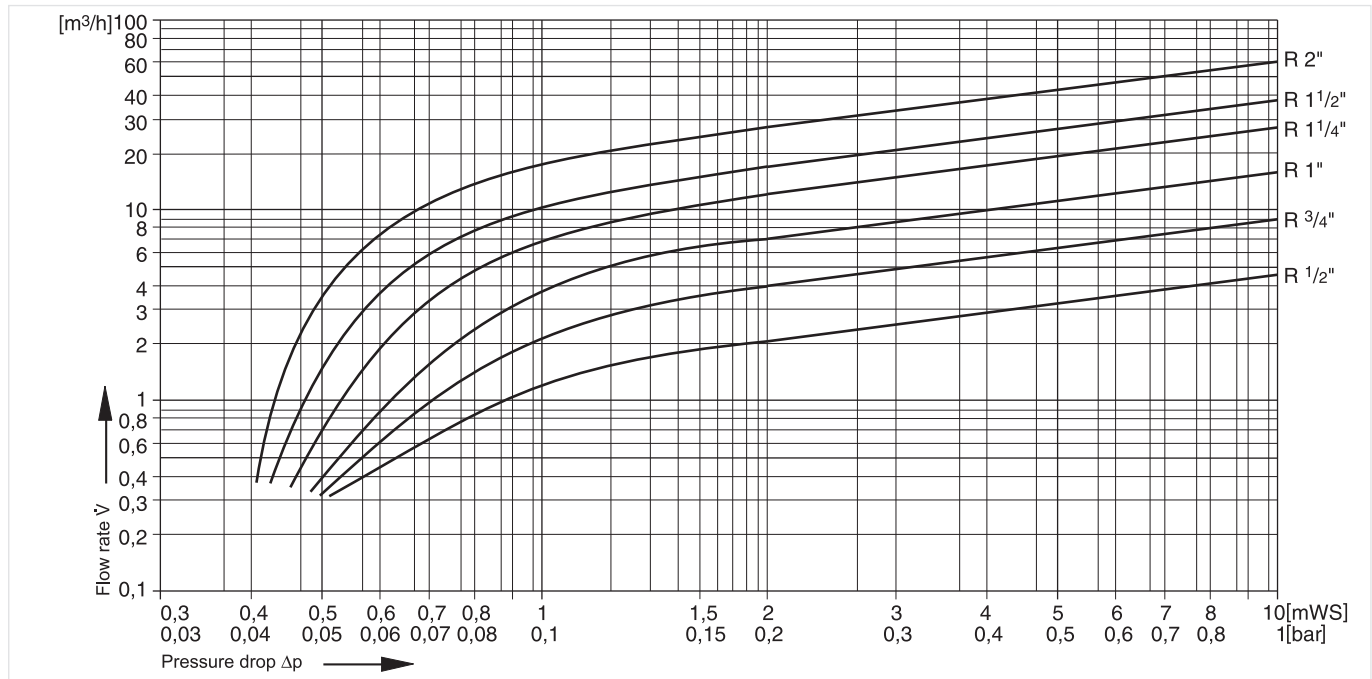
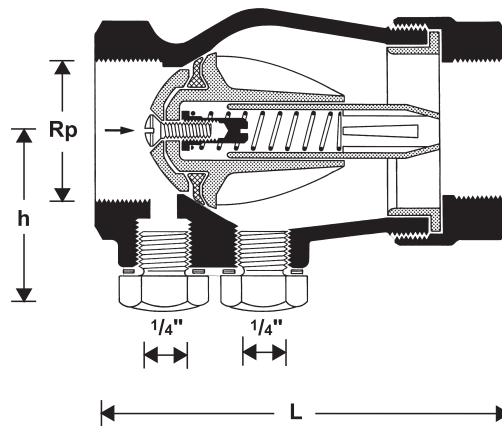


Fig. 1 Pressure drop within the valve in dependency of the flow rate and the used connection size

DIMENSIONS

Overview



Parameter		Values					
Connection size:	Rp	1/2"*	3/4"	1"	1 1/4"	1 1/2"	2"
Test and drain plug:	R	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Weight:	kg	0.2	0.3	0.5	0.8	1.0	1.9
Dimensions:	L	65	75	83	110	120	150
	h	29	32	35	43	47	55
	sw	27	32	41	50	55	70
Nominal flow rate at $\Delta p = 0.15$ bar:	m ³ /h	1.7	3.5	6.6	10.8	14.7	23.2

Note: * Test Plug only

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: 1/2", 3/4", 1", 1 1/4" 1 1/2" and 2".

- standard
- not available

		RV280-...A
Connection type:	Internal thread	•

Note: ... = space holder for connection size
Note: Ordering number example for 1" RV280-1A

Spare Parts

Inlet check valve RV280, from 1966 onwards

Overview	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.)		
			S06M-1/4



Manufactured for
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