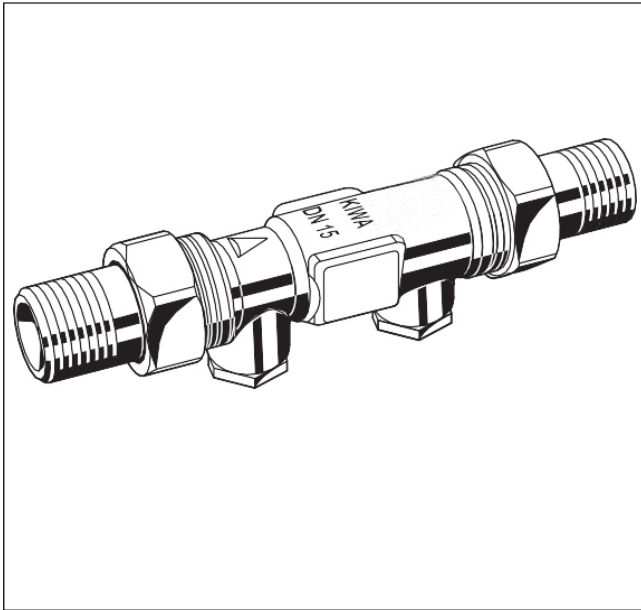


Braukmann

RV181

Check valve
Brass

Product specification sheet



Construction

The check valve comprises:

- Housing
- Connections (Design B and K)
- Check valve insert (DVGW-certified)
- Test plugs with seal ring

Materials

- Brass housing
- High grade synthetic material check valve cartridge
- Closing spring made of stainless spring steel
- Test plugs in high grade synthetic material
- NBR seal ring

Application

The check valve is a safety device in accordance with EN 1717 to protect systems against back pressure, back flow and back syphonage of non-potable water into service pipe, plants and equipments.

Special Features

- KIWA certified
- Optimal protection of the drinking water supply system
- Compact construction
- Corrosion resistant by use of dezincification resistant brass
- Universal application
- Low pressure loss
- Quiet operation
- Creates no shock pressure loadings
- No spare parts
- Meets KTW regulations for potable water

Range of Application

Medium	Water
Liquid category	2 (no hazardous materials)

Technical Data

Installation position	horizontal pipework with test plugs directed downwards
Operating pressure	max. 16 bar
Operating temperature	Water up to 65 °C
accord. DIN EN 13959	(short term up to 90 °C)
Connection size	1/2" to 2" (threaded and soldering connections)
	ø15 and ø22 (compression connection)

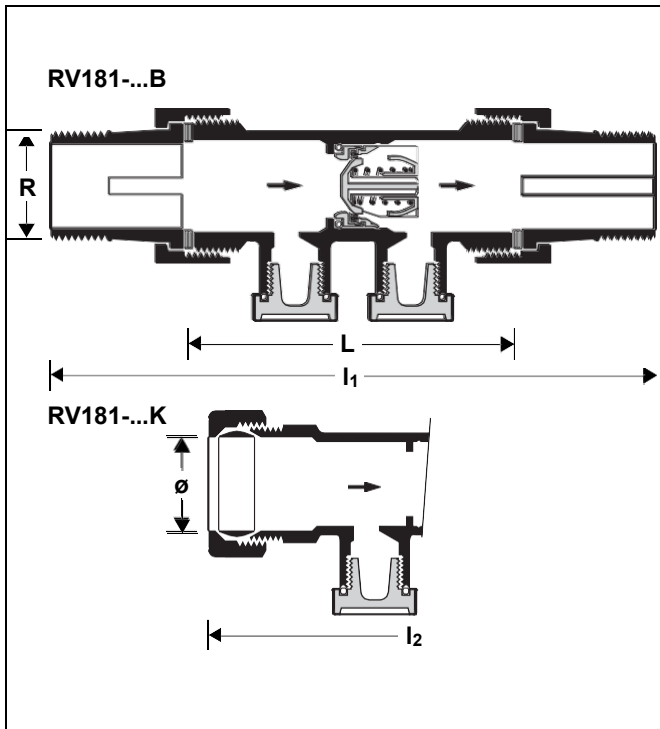
Typical Applications

Check valves of this type are priority suitable for domestic drinking water supply.

The check valve can be used for commercial and industrial applications in consideration of its specifications.

Check valves must be fitted,

- if service pipe, plant and equipment must be protected against back pressure, back flow and back syphonage of non-potable water.



Method of Operation

The check valve protected the service pipe.

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

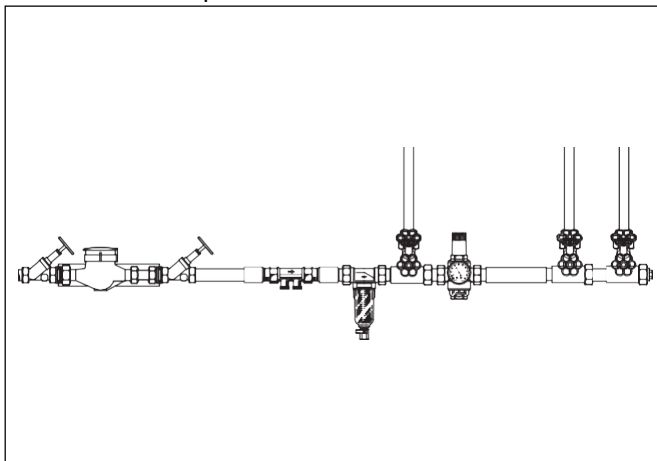
RV181-...B = External threaded connection set

RV181-...K = Compression connection set

Connection size

Connections e	R	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
	DN	15	20	25	32	40	50
	RV181-...K ø	15	22	-	-	-	-
Weight	RV181-...B approx. kg	0.24	0.35	0.67	0.95	1.52	2.27
	RV181-...K	0.16	0.21	-	-	-	-
Test and drain plug	G	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Dimensions	mm						
	L	66	77	80	90	100	115
	l ₁	137	156	169	185	202	241
	l ₂	90	90				
k _{vs} -value		6.0	10	15	28	41	70

Installation Example



Installation Guidelines

- In a drinking water supply the check valves are fitted immediately after the water meter.
 - o This position ensures optimum protection for the drinking water supply.
- Install in horizontal pipework with test plugs directed downwards.
 - o This position ensures optimum protection efficiency.
 - o This position is best for testing the valve
- Shut off valves should be fitted on each side of the check valve.
 - o Shut off valves enables fast testing
- The installation location should be protected against frost and be easily accessible