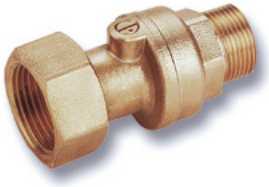
RUBINETTERIE INDUSTRIALI s.r.l.

EN	TECHNICAL DATA SHEET	rev. A
	ST00036	
art. **191**	art. **191/2**	art. **191kv**

CHECK VALVE WITH DRAIN AND RUNNING NUT

art. **191**

art. **191/2**



art. **191kv**

Description

Barberi® check valves are monodirectional devices, that means that they allow the back flow prevention of fluid under pressure. They are normally used in sanitary water installations, raised waterworks, heating circuits, heating main stations, heat generators (hang wall boilers, wood boilers, heating pumps), thermal solar installations, generic industrial and agricultural water installations. Tightness is permitted through forces carried on by a spring and by the pressure of the fluid over a washer which guarantees the tightness even at very low back pressure. Moreover, the strength of the spring allows the valve to have universal features as per the position to be installed.
The peculiarity of these valves is the presence of a drain device which enables to disconnect the check valve allowing the fluid to come back. This device is necessary when filling-in the installation (to rapidly discharge air) and flushing (to allow the complete flush of the installation). When particular applications are requested where high pressures/temperatures are required (for example in thermal solar installations) the same valves but with metal obturator and viton washer could be considered (art.ref.191kv). If low noise is required too, it is possible to use the same valves equipped with antinoise device (art.ref.191/2).

Articles range

art. **191**	Check valve with drain and running nut
art. **191/2**	Check valve with drain and running nut – with antinoise check valve
art. **191kv**	Check valve with drain and running nut - metal obturator

Technical features - art. 191 - 191/2

Min - max. acceptable temperature(peacks):
-20 °C *(see suitable fluids)* **– 110 °C**
Min - max. working temperature:
0 °C *(no frost)* **– 95 °C**
Opening pressure: **0,02 bar**
Max working pressure: **16 bar**
Suitable fluyds: **water for heating installations, glycoled water (max 30%), sanitary water**
Installation's connections: **threaded connectionsti ISO 228/1 - UNI EN 10226-1**
Test: **UNI EN12266-1 §A.3**

On request: versions with galvanic treatment

Technical features - art. 191kv

Min - max. acceptable temperature(peacks):
-20 °C *(see suitable fluids)* **– 175 °C**
Min - max. working temperature:
0 °C *(no frost)* **– 150 °C**
Opening pressure: **0,02 bar**
Max working pressure: **16 bar**
Suitable fluyds: **water for heating installations, glycoled water (max 50%), sanitary water**
Installation's connections: **threaded connections ISO 228/1 - UNI EN 10226-1**
Test: **UNI EN12266-1 §A.3**

On request: versions with galvanic treatment

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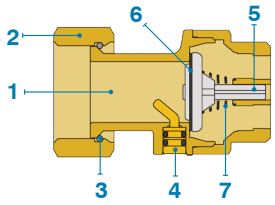
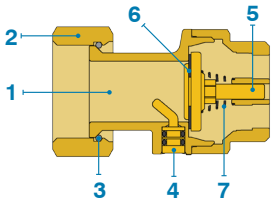
CHECK VALVE WITH DRAIN AND RUNNING NUT

Materials - art. 191 - 191kv

1 - Valve's body: Brass UNI EN 12165 CW617N
2 - Nut: Brass UNI EN 12165 CW617N
3 - Stop ring: Stainless steel AISI 302
4 - Stem: Brass UNI EN 12164 CW602N (CR)
5 - Check valve: POM
Brass UNI EN 12165 CW617N *(art. 191kv)*
6 - Washers: NBR
Viton *(art. 191kv)*
7 - Spring: Stainless steel AISI 302



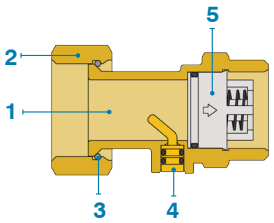
art. **191**



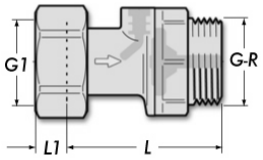
art. **191kv**

Materials - art. 191/2

1 - Valve's body: Brass UNI EN 12165 CW617N
2 - Nut: Brass UNI EN 12165 CW617N
3 - Stop ring: Stainless steel AISI 302
4 - Stem: Brass UNI EN 12164 CW602N
5 - Insert: POM+NBR



Dimension

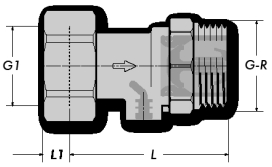


art. **191**
art. **191kv**

Aricle code	P	G	R	G1	L	L1	weight	N. P/B	N. P/C
191020000	16	3/4"	-	1"	73	12	250	10	40
191020000W	16	-	3/4"	1"	74	12	250	10	40
191025000	16	1"	-	1"	60	12	250	10	40
191025000W	16	-	1"	1"	63	12	250	10	40

Aricle code	P	G	G1	L	L1	weight	N. P/B	N. P/C
191020000**kv**	16	3/4"	1"	73	12	303	10	40
191025000**kv**	16	1"	1"	60	12	303	10	40

P: max pressure - Weight (grams) - N. P/B: number of pieces in box, plastic bag - N. P/C: number of pieces in carton



art. **191/2**

Aricle code	P	G	R	G1	L	L1	weight	N. P/B	N. P/C
191025000**2**	16	1"	-	1"	60	12	226	10	40
191025000W**2**	16	-	1"	1"	63	12	226	10	40

P: max pressure - Weight (grams) - N. P/B: number of pieces in box, plastic bag - N. P/C: number of pieces in carton

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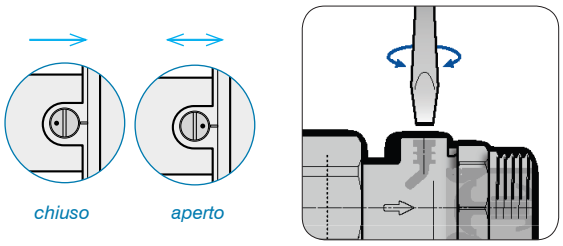
CHECK VALVE WITH DRAIN AND RUNNING NUT

Installation

Universal check valves can be installed in any position respecting flow direction as indicated by the arrow marked on the valve's body. Connection to pipes is made through threads using standard plumbing skills.
The valves are equipped with drain device which allows, operating on the correct screw, the disconnection of the check insert, allowing the water to flow in the opposite way when flushing the installation or to drain the air when filling in the installation. It is suggested to install the valve in the horizontal position so to allow the drain device to work correctly.



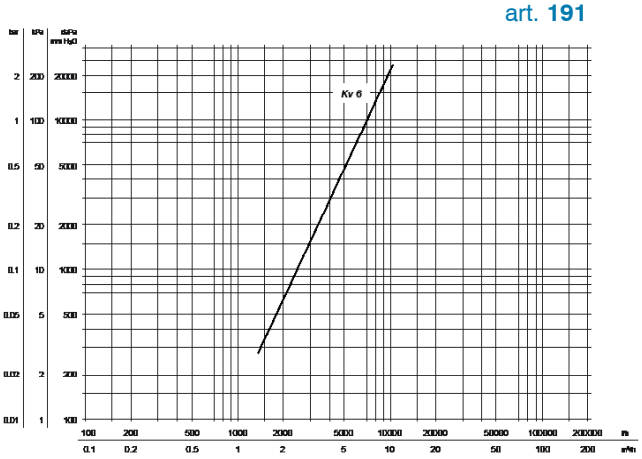
Pay attention: remember to put back into service the check valve when flushing/filling operations are completed

Maintenance

Inspect the valve regularly according to operational conditions and frequency of use. If leakages are found where washers are housed, these could be caused by debris; if so it is necessary to disassemble the valve and clean accurately the washer using compressed air or mechanical action all impurities.

Diagram

art. **191**



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