

CHECK VALVE WITH PUMP CONNECTION AND CHECK VALVE OVERRIDE DEVICE

Description



Barberi® check valves are monodirectional devices, allowing the backflow prevention of fluid under pressure. They are normally used in domestic water installations, heating systems, central heating systems, heat generators (wall-mounted boilers, solid fuel generators, heat pumps), generic industrial and agricultural water systems. Sealing is permitted through forces exerted by a spring and by the fluid pressure against a gasket which guarantees the seal even at very low back pressures. Moreover, the force of the spring allows the valve to have a universal characteristics concerning the installation position. The peculiarity of this valve is the presence of the pump connection and the check valve override device. This device is useful when filling the system (to rapidly discharge air) and draining (to allow the complete emptying of the system).

Range of products

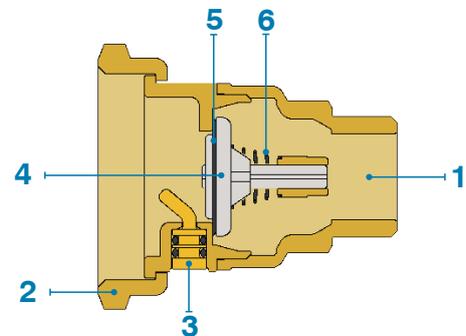
Series 192 Check valve with pump connection and check valve override device

Technical features

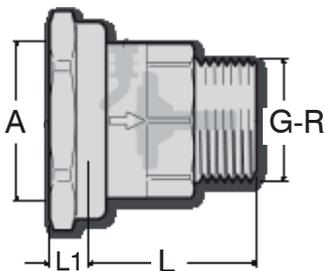
Working temperature range (peaks):
-20 (see suitable fluids)–110 °C
Working temperature range: 0 (no frost)–95 °C
Opening pressure: **0,02 bar**
Max working pressure: **16 bar**
Suitable fluids: **water for thermal systems, glycol solutions (max 30%), domestic water**
Threaded connections: **male connections ISO 228-1**
female connections EN 10226-1
Test: **EN 12266-1 §A.3**
On request: versions with galvanic treatment

Materials

1 - Body: brass EN 12165 CW617N
2 - Nut: brass EN 12165 CW617N
3 - Check valve override device: brass EN 12164 CW602N (DZR)
4 - Obturator: POM
5 - Gasket: NBR
6 - Spring: stainless steel AISI 302



Dimensions

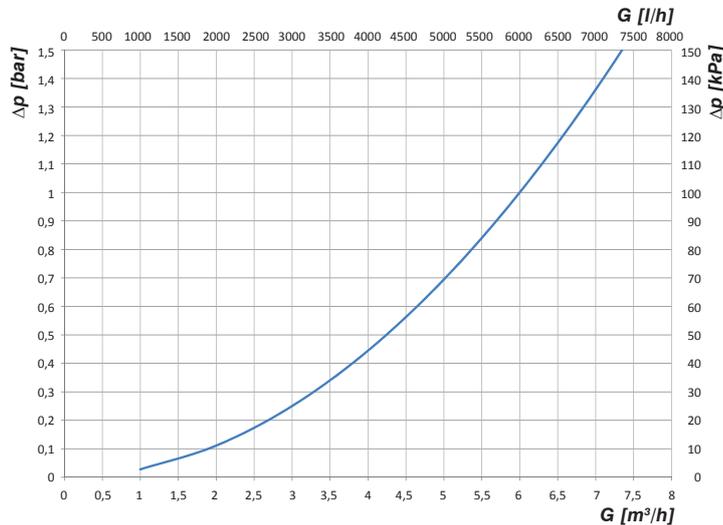


Code	P [bar]	A	G	R	L	L1	Weight [g]	N. P/B	N. P/C
192020000	16	G 1 1/2 RN	G 3/4 M	-	55	10	262	-	80
192020000W	16	G 1 1/2 RN	-	R 3/4	56	10	262	-	80
192025000	16	G 1 1/2 RN	G 1 M	-	42	10	230	-	80
192025000W	16	G 1 1/2 RN	-	R 1	45	10	230	-	80

P: max working pressure
N. P/B: number of pieces in box - N. P/C: number of pieces in carton (article in bag)

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Diagrams



Δp [bar]	G [m ³ /h]
1	6
1,5	7,35

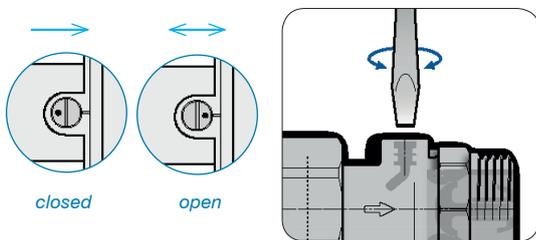
Installation

Universal check valves can be installed in any position respecting the flow direction indicated by the arrow on the valve body. Connection to pipes is made through the threads using standard plumbing skills. This product is usually installed immediately downstream of the pump to avoid undesired backflows. The valves are equipped with a check valve override device which allows, correctly operating on the screw, to keep the check valve always open, allowing the water to flow in the opposite way. This can be useful when emptying the system or to allow the air passage during the system filling. It is suggested to install the valve in a position which allows to correctly operate the device, which can also be used at the beginning of the heating season to flush the air away, accumulated in the pump rotor.

Maintenance

Inspect the valve regularly according to the operating conditions and frequency of use:

- 1) every pressure decrease in the upstream supply network or flow interruption should cause the valve closure, to avoid water from backflowing upstream;
- 2) if leakages are found where the gasket is housed, these could be caused by debris. It is therefore necessary to disassemble the valve and clean accurately the gasket using compressed air or mechanical action to remove all impurities. If necessary, replace the valve.



Warning: remember to put back into service the check valve when fill/drain operations are completed.

Specifications

Series 192

Check valve with pump connection and check valve override device. Threaded connections G 1 1/2 RN x G 3/4 M (and R 3/4), G 1 1/2 RN x G 1 M (and R 1). Body, nut and check valve override device in brass. POM obturator, NBR gasket, stainless steel spring. Working temperature range 0–95 °C. Opening pressure 0,02 bar, maximum working pressure 16 bar. Suitable fluids water for thermal systems, glycol solutions (max 30%), domestic water.