

## 90° CHECK VALVE

### Description



art. 035

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, 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. The valve, which avoids the back flow of the fluid thank to gravity push on the inner valve, shall be vertically installed. The peculiarity of this valve is the presence of a plug which, apart from stopping the inner valve, allows to use the side port or the axial port.

### Articles range

art. 035 90° check valve

### Technical features

Min - max. acceptable temperature (peaks):  
-20 °C (see suitable fluids) – 70 °C

Min - max. working temperature:  
0 °C (no frost) – 60 °C

Max working pressure: **16 bar**

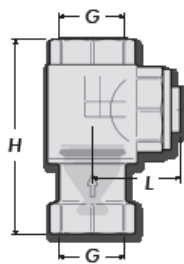
Suitable fluids: **water for heating installations,  
sanitary water**

Installation's connections: **threaded connections ISO 228/1**

Tests: **UNI EN12266-1 §A.3**

**On request: versions with galvanic treatment**

### Dimension



Article code	P	G	H	L	weight	N. P/B	N. P/C
035025000	16	1"	99	46	550	10	40
035032000	16	1 1/4"	111	57	850	5	20
035040000	16	1 1/2"	130	60	1080	2	24
035050000	16	2"	152	69	1860	2	12

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

### Materials

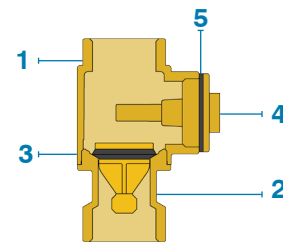
1 - Valve's body: Brass UNI EN 12165 CW617N

2 - Check valve: Brass UNI EN 12165 CW617N

3 - Washers: Natural rubber (NR)

4 - Plug: Brass UNI EN 12165 CW617N

5 - Washers: Fiber



### Installation

The 90° check valve of this range can be installed only in vertical position and with the directional arrow indicating the flow from the bottom towards the top of the valve. The assembling on the pipes is done through threads using standard plumbing skills. If necessary the plug can be disassembled from side position and assembled again in the top axial one. By this way it is possible to connect pipes on the side way. Only the supplied plug shall be assembled on the valve since this is a necessary component to make the same valve work in the correct way.

### 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, after having flushed part of the interested installation, it is necessary to remove the side plug to check the inner valve and the washer. By this way it is then possible to clean accurately the washer removing all debris by compressed air or mechanical action.