

## SWING CHECK VALVE



art. 060  
art. 080



art. 100  
art. 102



art. 125

### Description

Barberi swing 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, fire alarms installations, heating main stations, heat generators (hang wall boilers, wood boilers, heating pumps), thermal solar installations, generic industrial and agricultural water installations. The inner hydraulic tightness is guaranteed through forces applied from the body of a swinging obturator and from the pressure of the liquid above a washer which allows the tightness even at minimum back pressures. Since these valves work with gravity force that makes the swinging obturator work (clapet or swinging obturator) they have not a universal application feature.

The advantage of these valves is the low pressure drop thanks to the body's round shape and to the big bore of the area obtained from the swinging movement of the obturator; these features make this valve also silent working. There are versions with rubber-metal tightness (art.ref.060, 080, 100 and 125) or metal tightness (art.ref.080 and 102) used especially with thick or less liquid fluids (for example sewages). Swing check valves (art.ref.060, 080, 100, 102) are equipped with a plug to inspect the valve.

### Articles range

art. 060 Swing check valve F.- F. rubber tightness  
art. 080 Swing check valve F.- F. metal tightness

art. 100 Swing check valve M.- M. rubber tightness  
art. 102 Swing check valve M.- M. metal tightness  
art. 125 Wafer or inter-flanged swing check valve PN16

### Technical features

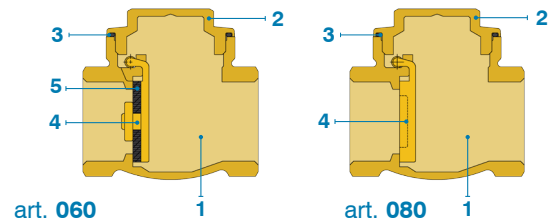
Min - max. acceptable temperature(peak):  
-20 °C (see suitable fluids) - 110 °C  
Min - max. working temperature:  
0 °C (no frost) - 95 °C  
Opening pressure: **0,05 bar**  
Max working pressure:  
Art. 060 - 080 from 3/8" to 3" **16 bar**  
from 4" to 6" **10 bar**  
Art. 100 - 102 - 125 **16 bar**  
Suitable fluids: **water for heating installations,**  
**glycoled water (max 30%), sanitary water**

Installation's connections: **threaded connections ISO 228/1**  
Test: **UNI EN12266-1 §A.3**

**On request: versions with galvanic treatment**

### Materials - art. 060 / 080

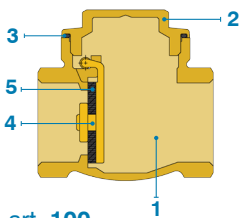
- 1 - Valve's body:  
Brass UNI EN 12165 CW617N (size from 3/8" to 1")  
Brass UNI EN 1982 CB753S ((size from 1 1/4 to 4")  
Bronze (size 5" and 6")
- 2 - Plug: Brass UNI EN 12165 CW617N
- 3 - O-ring: NBR
- 4 - Obturator: Brass UNI EN 12165 CW617N
- 5 - Washers: NBR



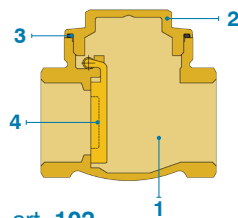
## SWING CHECK VALVE

### Materials - art. 100 / 102

- 1 - Valve's body: Brass UNI EN 1982 CB753S
- 2 - Plug: Brass UNI EN 12165 CW617N
- 3 - O-ring: NBR
- 4 - Obturator: Brass UNI EN 12165 CW617N
- 5 - Washers: NBR



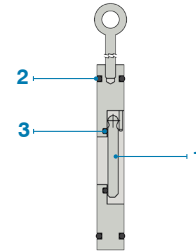
art. 100



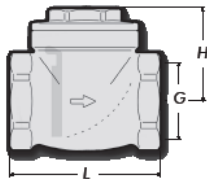
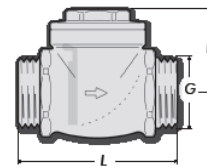
art. 102

### Materials - art. 125

- 1 - Valve's body: zinc plated steel
- 2 - Washers: NBR
- 3 - Washers: NBR



### Dimension

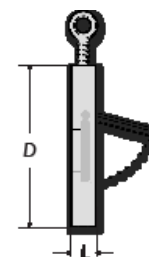
art. 060  
art. 080art. 100  
art. 102

Article code	P	G	H	L	weight	N. P/B	N. P/C
060010000	16	3/8"	32	47	165	15	120
060015000	16	1/2"	32	47	146	20	160
060020000	16	3/4"	35	54	203	10	120
060025000	16	1"	39	64	330	10	60
060032000	16	1 1/4"	47	75	500	10	40
060040000	16	1 1/2"	51	83	660	6	36
060050000	16	2"	59	98	1000	4	24
060065000	16	2 1/2"	67	116	1570	-	12
060080000	16	3"	77	135	2262	-	10
060100000	10	4"	92	164	3780	-	4
060125000	10	5"	118	206	10550	-	2
060150000	10	6"	134	235	15680	-	1

Article code	P	G	H	L	weight	N. P/B	N. P/C
100050000	16	2"	59	108	1300	-	16
100065000	16	2 1/2"	68	118	1630	-	12

Article code	P	G	H	L	weight	N. P/B	N. P/C
102050000	16	2"	59	108	1240	-	16
102065000	16	2 1/2"	68	118	1582	-	12

Article code	P	G	H	L	weight	N. P/B	N. P/C
080010000	16	3/8"	32	47	170	15	120
080015000	16	1/2"	32	47	147	20	160
080020000	16	3/4"	35	54	208	10	120
080025000	16	1"	39	64	334	10	60
080032000	16	1 1/4"	47	75	486	10	40
080040000	16	1 1/2"	51	83	650	6	36
080050000	16	2"	59	98	1000	4	24
080065000	16	2 1/2"	67	116	1556	-	12
080080000	16	3"	77	135	2240	-	10
080100000	10	4"	92	164	3794	-	4
080125000	10	5"	118	206	10500	-	2
080150000	10	6"	134	235	15860	-	1



art. 125

Article code	P	DN	D	L	weight	N. P/B	N. P/C
125050000	16	50	109	15	1040	-	-
125065000	16	65	129	15	1420	-	-
125080000	16	80	144	17	1800	-	-
125100000	16	100	164	17	2200	-	-
125125000	16	125	195	18	3200	-	-
125150000	16	150	221	21	4500	-	-
125200000	16	200	276	29	9800	-	-
125250000	16	250	330	34	15800	-	-

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

## SWING CHECK VALVE

### Installation

Swing check valves can be installed in either horizontal or vertical position respecting the flow direction indicated by the arrow marked on the valve's body. While in horizontal position the valve shall be installed with the plug towards the top otherwise the valve will not work. While in vertical position the valve normally works only if the flow is coming from the bottom. The assembling on pipes is done through threads using standard plumbing skills.

### 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 from all impurities using compressed air or mechanical action. If so it is possible to disassemble the inspection plug on the upper part of the valve to check the obturator and clean the washer removing all debris by using compressed air or mechanical action. This operation can be done flushing previously the interested part of the installation.