

EN	TECHNICAL DATA SHEET				rev. A
ST00002					
art. 005	art. 006	art. 007	art. 008	art. 020	
art. 005kv	art. 006kv	art. 007kv	art. 008kv	art. 020kv	
art. 005k				art. 020k	

UNIVERSAL CHECK VALVE



art. 005
art. 005kv
art. 005k



art. 006
art. 006kv



art. 007
art. 007kv



art. 008
art. 008kv



art. 020
art. 020kv
art. 020k

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.

For special applications where high pressure durability is requested, the same category of valves but with metal obturator could be considered (art.ref.005k, 020k). For applications where high temperatures are requested, the same valves but with metal obturator and viton washer could be considered (art. ref. 005kv, 006kv, 007kv, 008kv, 020kv)

Articles range

art. 005	Universal check valve F. - F. with acetal copolymer(POM) obturator	art. 020k	Universal check valve F. - F. for high pressure with metal obturator
art. 006	Universal check valve F. - M. with acetal copolymer(POM) obturator	art. 005kv	Universal check valve F. - F. with metal obturator and viton tightness
art. 007	Universal check valve M. - F. with acetal copolymer(POM) obturator	art. 006kv	Universal check valve F. - M. with metal obturator and viton tightness
art. 008	Universal check valve M. - M. with acetal copolymer(POM) obturator	art. 007kv	Universal check valve M. - F. with metal obturator and viton tightness
art. 020	Universal check valve F. - F. for high pressure with acetal copolymer(POM) obturator	art. 008kv	Universal check valve M. - M. with metal obturator and viton tightness
art. 005k	Universal check valve F. - F. with metal obturator	art. 020kv	Universal check valve F. - F. for high pressure with metal obturator and viton tightness

Features • art. 005 - 006 - 007 - 008 - 020

Min - max. acceptable temperature(peaks):
-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:

Art. 005 - 006 - 007 - 008

from 1/4" to 1"	16 bar
from 1 1/4" to 2"	10 bar
from 2 1/2" to 4"	8 bar

Art. 020

from 3/8" to 1"	25 bar
from 1 1/4" to 2"	18 bar

Suitable fluids: **water for heating installations, glycolated water (max 30%), sanitary water**

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

Tests: **UNI EN12266-1 §A.3**

Features • art. 005k - 020k

Min - max. acceptable temperature(peaks):
-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:

Art. 005k

from 1/4" to 1"	35 bar
from 1 1/4" to 2"	25 bar
from 2 1/2" to 4"	12 bar

Art. 020k

from 3/8" to 1"	50 bar
from 1 1/4" to 2"	35 bar

Suitable fluids: **water for heating installations, glycolated water (max 30%), sanitary water**

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

Tests: **UNI EN12266-1 §A.3**

On request: versions with galvanic treatment

On request: versions with galvanic treatment



art. 005	art. 006	art. 007	art. 008	art. 020
art. 005kv	art. 006kv	art. 007kv	art. 008kv	art. 020kv
art. 005k				art. 020k

UNIVERSAL CHECK VALVE

Features • art. 005kv - 006kv - 007kv - 008kv - 020kv

Min - max. acceptable temperature(peaks):

-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:

Art. 005kv - 006kv - 007kv - 008kv from 1/4" to 1" **35 bar**
from 1 1/4" to 2" **25 bar**
from 2 1/2" to 4" **12 bar**

Art. 020k from 3/8" to 1" **50 bar**
from 1 1/4" to 2" **35 bar**

Suitable fluids: **water for heating installations,**
glycoled water (max 50%), sanitary water

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

Test: **UNI EN12266-1 §A.3**

On request: versions with galvanic treatment

Materials • art. 005 - 006 - 007 - 008 - 020

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

2 - Check valve: POM

3 - Washers: NBR

4 - Spring: Stainless steel AISI 302

Materials • art. 005k - 020k

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

2 - Check valve: Ottone UNI EN 12165 CW614N(1/4" ÷ 1/2")
Ottone UNI EN 12165 CW617N(3/4" ÷ 4")

3 - Washers: NBR

4 - Spring: Stainless steel AISI 302

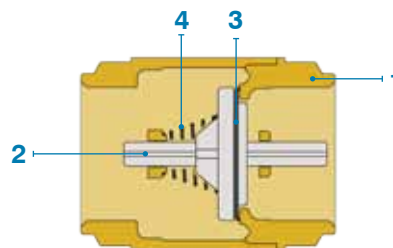
Materials • art. 005kv - 006kv - 007kv - 008kv - 020kv

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

2 - Check valve: Ottone UNI EN 12165 CW614N(1/4" ÷ 1/2")
Ottone UNI EN 12165 CW617N(3/4" ÷ 4")

3 - Washers: Viton

4 - Spring: Stainless steel AISI 302



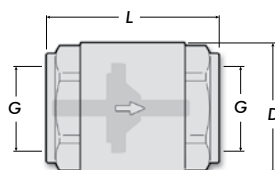
Approvals • art. 005 - 006 - 007 - 008 - 020

In accordance with D.M. 174

ACS approved version on request

(french standard for potable water)

Dimension



art. **005**
art. **005k**
art. **005kv**

Article code	P	G	D	L	weight	N. P/B	N. P/C	Article code	P	G	D	L	weight	N. P/B	N. P/C	Article code	P	G	D	L	weight	N. P/B	N. P/C
005008000	16	1/4"	29	45	105	30	240	005008000k	35	1/4"	29	45	110	30	240	005008000kv	35	1/4"	29	45	110	30	240
005010000	16	3/8"	29	45	90	30	240	005010000k	35	3/8"	29	45	94	30	240	005010000kv	35	3/8"	29	45	94	30	240
005015000	16	1/2"	30	48	102	30	240	005015000k	35	1/2"	30	48	114	30	240	005015000kv	35	1/2"	30	48	114	30	240
005020000	16	3/4"	37	53	155	18	144	005020000k	35	3/4"	37	53	177	18	144	005020000kv	35	3/4"	37	53	177	18	144
005025000	16	1"	44	59	225	14	84	005025000k	35	1"	44	59	266	14	84	005025000kv	35	1"	44	59	266	14	84
005032000	10	1 1/4"	56	66	350	12	72	005032000k	25	1 1/4"	56	66	392	12	72	005032000kv	25	1 1/4"	56	66	392	12	72
005040000	10	1 1/2"	63	71	470	10	40	005040000k	25	1 1/2"	63	71	510	10	40	005040000kv	25	1 1/2"	63	71	510	10	40
005050000	10	2"	78	80	710	6	36	005050000k	25	2"	78	80	834	6	36	005050000kv	25	2"	78	80	834	6	36
005065000	8	2 1/2"	104	93	1260	-	15	005065000k	12	2 1/2"	104	93	1534	-	15	005065000kv	12	2 1/2"	104	93	1534	-	15
005080000	8	3"	121	104	1810	-	12	005080000k	12	3"	121	104	2148	-	12	005080000kv	12	3"	121	104	2148	-	12
005100000	8	4"	156	119	3100	-	5	005100000k	12	4"	156	119	3756	-	5	005100000kv	12	4"	156	119	3756	-	5

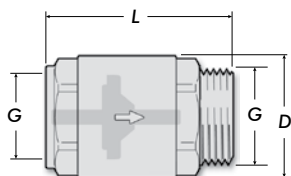
on request

on request

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

UNIVERSAL CHECK VALVE

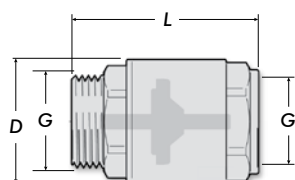
Dimension



art. 006
art. 006kv

Article code	P	G	D	L	weight	N. P/B	N. P/C
006010000	16	3/8"	29	52	98	30	240
006015000	16	1/2"	30	53	108	25	200
006020000	16	3/4"	37	58	166	16	128
006025000	16	1"	44	65	260	10	80
006032000	10	1 1/4"	56	73	448	6	48
006040000	10	1 1/2"	63	80	520	8	32
006050000	10	2"	78	88	805	6	24

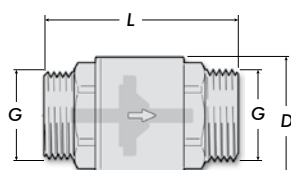
Article code	P	G	D	L	weight	N. P/B	N. P/C
006010000kv	35	3/8"	29	52	102	30	240
006015000kv	35	1/2"	30	53	120	25	200
006020000kv	35	3/4"	37	58	188	16	128
006025000kv	35	1"	44	65	301	10	80
006032000kv	25	1 1/4"	56	73	490	6	48
006040000kv	25	1 1/2"	63	80	560	8	32
006050000kv	25	2"	78	88	929	6	24



art. 007
art. 007kv

Article code	P	G	D	L	weight	N. P/B	N. P/C
007010000	16	3/8"	29	52	94	30	240
007015000	16	1/2"	30	54	124	20	160
007020000	16	3/4"	37	60	190	16	128
007025000	16	1"	44	67	274	10	80
007032000	10	1 1/4"	56	77	448	6	48
007040000	10	1 1/2"	63	80	508	8	32
007050000	10	2"	78	88	810	6	24

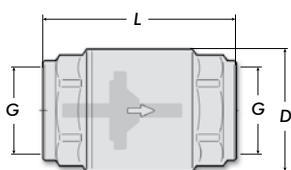
Article code	P	G	D	L	weight	N. P/B	N. P/C
007010000kv	35	3/8"	29	52	98	30	240
007015000kv	35	1/2"	30	54	134	20	160
007020000kv	35	3/4"	37	60	212	16	128
007025000kv	35	1"	44	67	315	10	80
007032000kv	25	1 1/4"	56	77	490	6	48
007040000kv	25	1 1/2"	63	80	548	8	32
007050000kv	25	2"	78	88	934	6	24



art. 008
art. 008kv

Article code	P	G	D	L	weight	N. P/B	N. P/C
008010000	16	3/8"	29	58	104	30	240
008015000	16	1/2"	30	59	122	25	200
008020000	16	3/4"	37	64	180	16	128
008025000	16	1"	44	73	290	10	80
008032000	10	1 1/4"	56	82	498	8	48
008040000	10	1 1/2"	63	88	600	4	24
008050000	10	2"	78	95	900	3	18

Article code	P	G	D	L	weight	N. P/B	N. P/C
008010000kv	35	3/8"	29	58	108	30	240
008015000kv	35	1/2"	30	59	134	25	200
008020000kv	35	3/4"	37	64	202	16	128
008025000kv	35	1"	44	73	331	10	80
008032000kv	25	1 1/4"	56	82	540	8	48
008040000kv	25	1 1/2"	63	88	640	4	24
008050000kv	25	2"	78	95	1024	3	18



art. 020
art. 020k
art. 020kv

Article code	P	G	D	L	weight	N. P/B	N. P/C
020010000	25	3/8"	29	52	115	24	192
020015000	25	1/2"	32	58	150	20	160
020020000	25	3/4"	39	65	226	12	96
020025000	25	1"	47	75	330	8	64
020032000	18	1 1/4"	60	80	545	8	48
020040000	18	1 1/2"	67	85	685	6	36
020050000	18	2"	83	94	1025	5	20

Article code	P	G	D	L	weight	N. P/B	N. P/C
020010000k	50	3/8"	29	52	119	24	192
020015000k	50	1/2"	32	58	162	20	160
020020000k	50	3/4"	39	65	250	12	96
020025000k	50	1"	47	75	362	8	64
020032000k	35	1 1/4"	60	80	594	8	48
020040000k	35	1 1/2"	67	85	708	6	36
020050000k	35	2"	83	94	1149	5	20

Article code	P	G	D	L	weight	N. P/B	N. P/C
020010000kv	50	3/8"	29	52	119	24	192
020015000kv	50	1/2"	32	58	162	20	160
020020000kv	50	3/4"	39	65	250	12	96
020025000kv	50	1"	47	75	362	8	64
020032000kv	35	1 1/4"	60	80	594	8	48
020040000kv	35	1 1/2"	67	85	708	6	36
020050000kv	35	2"	83	94	1149	5	20

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

art. 005	art. 006	art. 007	art. 008	art. 020
art. 005kv	art. 006kv	art. 007kv	art. 008kv	art. 020kv
art. 005k				art. 020k

UNIVERSAL CHECK VALVE

Installation

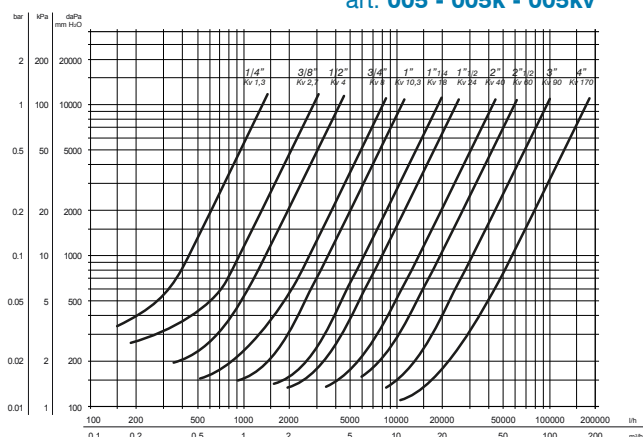
Universal check valves can be installed in any position respecting flow direction as indicated by the arrow marked on the valve's body. Connection to pipes is made through threads using standard plumbing skills.

Maintenance

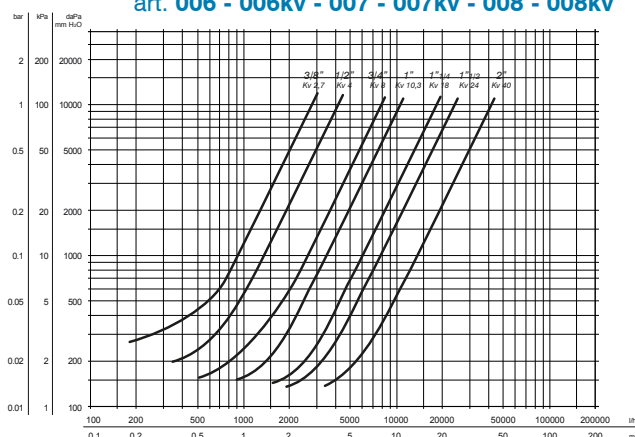
Inspect the valve regularly according to operational conditions and frequency of use. If leakages are found where washers are housed, these could be caused by debris; if so it is necessary to disassemble the valve and clean accurately the washer using compressed air or mechanical action all impurities.

Diagram

art. 005 - 005k - 005kv



art. 006 - 006kv - 007 - 007kv - 008 - 008kv



art. 020 - 020k - 020kv

