

FUNCTION FITTINGS CHECK VALVES

PLUS

**AVAILABLE IN DIFFERENT
MATERIALS TO BE USED IN MULTIPLE
APPLICATIONS**

**DIFFERENT TECHNOLOGIES TO
GUARANTEE MORE SOLUTIONS**

**INDICATOR OF FLOW DIRECTION
ON VALVE BODY**

FULL PASSAGE GUARANTEE

**ALSO AVAILABLE FOR FOOD FLUIDS
AND POTABLE WATER CONTACT
(1700LF & HCVU)**



Check valves are actuated directly by the fluid being conveyed, allowing it to flow in only one direction. They are used to keep a part of the circuit under pressure even in the absence of supply pressure.

CHECK VALVES / CDC PNEUMATICS

					
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p. 380 / CVPF-R-IN	p. 380 / CVPF-G	p. 380 / CVPF-G-IN	p. 380 / CVFF		

CHECK VALVES / NICKEL-PLATED BRASS PN 10


p. 381 / 1700L

CHECK VALVES / YELLOW BRASS PN 16


p. 384 / 1705L

CHECK VALVES / FLUIDFIT


p. 386 / HCVU



CHECK VALVES PN20 / YELLOW BRASS, STAINLESS STEEL AISI 303 & STAINLESS STEEL AISI 316L



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PILOT CHECK VALVES / BRASS



p. 394 / **PVSF-R**



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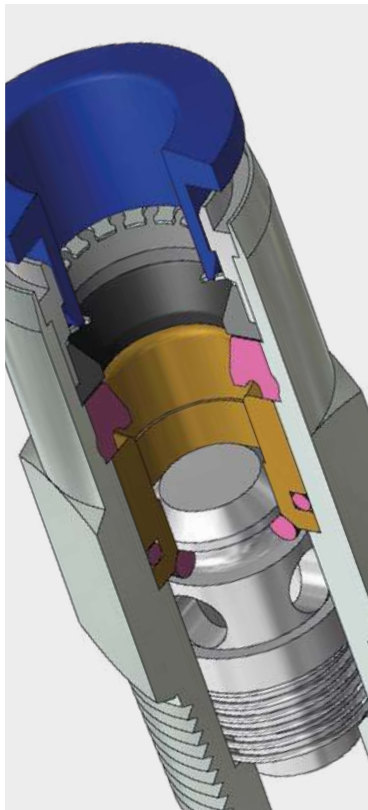
**I VANTAGGI
NELL'UTILIZZO DI
DEPURATORI D'ACQUA**

- 
Risparmio denaro
- 
Eliminazione bottiglie in plastica
- 
Ottimizzazione tempo
- 
Riduzione emissione CO2

 **TierreGroup**[®]

FOLLOW US!





0°C ÷ 60°C

**Working pressure:**

From 0 to 10 Bar

Negative pressure:

- 0,95 Bar (- 95 Kpa)

Min. opening pressure:

0,1 - 0,2 Bar

Compressed air & vacuum
(do not use with water)

- Taper gas BSPT ISO 7
from R1/8" to R1/2" with teflon
- Parallel gas BSPP ISO 228
from G1/8" to G1/2" with o-ring
- Metric ISO 262
M5 and M6



Polyamide PA, Polyurethane PU

Body:

CVPC: Brass from Ø4 to Ø8

Aluminium from Ø10 to Ø12

CVPU: PBT from Ø4 to Ø8

Aluminium from Ø10 to Ø12

CVPF: Nickel-plated brass

CVFF: Nickel-plated brass

Collet: POM

Lock claw: Stainless steel AISI 301

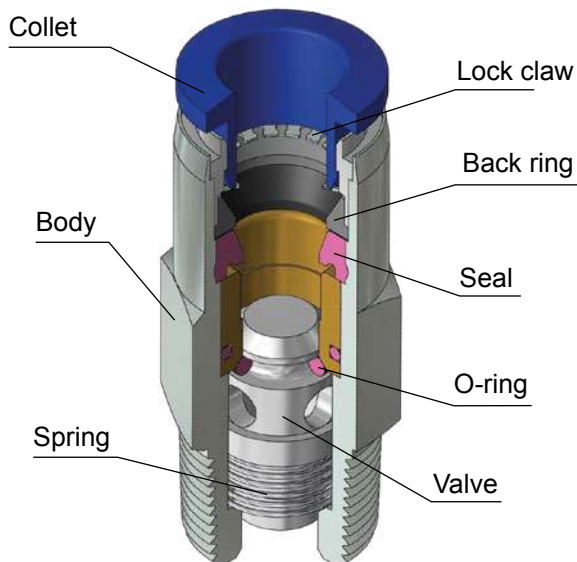
Back ring: POM

Seal: NBR silicone free

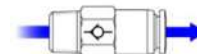
O-ring: NBR silicone free

Spring: Stainless steel AISI 301

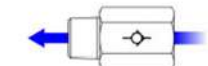
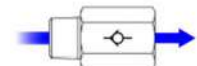
Valve: Aluminium

SILICONE FREEProducts in compliance with
EC Regulation 1907/2006**RoHS3**Products in compliance with
the directive EU 2015/863**CONSTRUCTION DETAILS****FLOW****IN type****OUT type**

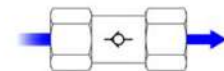
CVPC



CVPF



CVFF



CVPU

**TIGHTENING TORQUE****TAPER GAS BSPT ISO 7**

THREAD	1/8"	1/4"	3/8"	1/2"
Nm	7	12	22	28

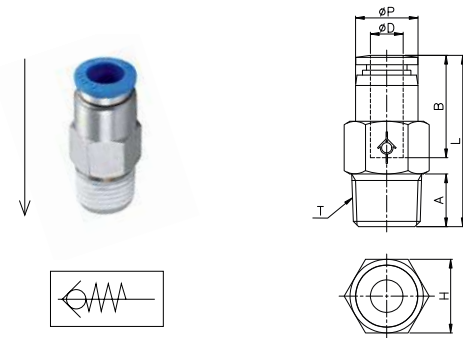
TIGHTENING TORQUE**PARALLEL GAS BSPP ISO 228 & METRIC ISO 262**

THREAD	M5x0,8	M6x1	1/8"	1/4"	3/8"	1/2"
Nm	1,5	2,3	10	15	25	40



CVPC-R

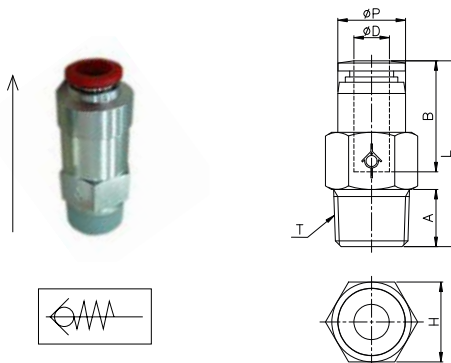
Male connector check valve BSPT thread - OUT type



CODE	ØD	T	ØP	L	A	B	H	g
CVPC04R01	4	R 1/8"	10,0	27,3	8,0	14,8	10	11,0
CVPC06R01	6	R 1/8"	11,9	32,5	8,0	16,4	12	16,0
CVPC06R02		R 1/4"	11,9	32,5	10,0	16,4	14	24,0
CVPC08R01	8	R 1/8"	14,0	34,9	8,0	18,4	14	21,0
CVPC08R02		R 1/4"	14,0	37,2	10,0	18,4	14	24,0
CVPC10R03	10	R 3/8"	23,0	56,3	11,0	20,2	22	35,0
CVPC10R04		R 1/2"	23,0	58,3	14,0	20,2	22	41,0
CVPC12R03	12	R 3/8"	25,0	62,2	11,0	22,9	24	40,0
CVPC12R04		R 1/2"	25,0	65,2	14,0	22,9	24	40,0

CVPC-R-IN

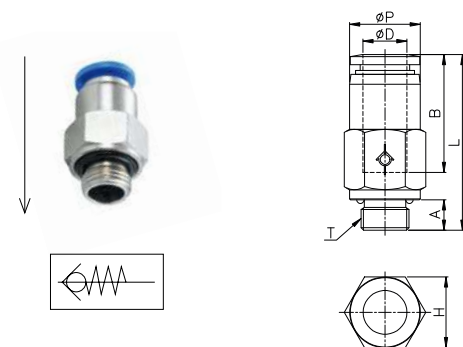
Male connector check valve BSPT thread - IN type



CODE	ØD	T	ØP	L	A	B	H	g
CVPC04R01-IN	4	R 1/8"	10,0	27,3	8,0	15,3	10	9,8
CVPC06R01-IN	6	R 1/8"	11,9	32,6	8,0	16,3	12	12,8
CVPC06R02-IN		R 1/4"	11,9	32,6	10,0	16,3	14	19,8
CVPC08R01-IN	8	R 1/8"	14,0	34,9	8,0	18,3	14	18,7
CVPC08R02-IN		R 1/4"	14,0	37,2	10,0	18,3	14	20,7
CVPC10R03-IN	10	R 3/8"	23,0	56,3	11,0	20,3	22	45,5
CVPC10R04-IN		R 1/2"	23,0	58,3	14,0	20,3	22	63,5
CVPC12R03-IN	12	R 3/8"	25,0	62,3	12,0	23,3	24	48,3
CVPC12R04-IN		R 1/2"	25,0	65,3	14,0	23,3	24	68,3

CVPC-G

Male connector check valve BSPP & metric thread - OUT type

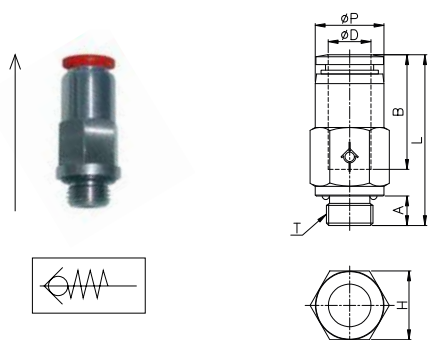


CODE	ØD	T	ØP	L	A	B	H	g
CVPC04M5	4	M5x0,8	10,0	31,4	3,6	14,8	10	11,0
CVPC04M6		M6x1,0	10,0	30,4	4,6	14,8	10	11,0
CVPC04G01		G 1/8"	10,0	27,3	6,0	14,8	10	11,0
CVPC06G01	6	G 1/8"	11,9	32,5	6,0	16,4	12	16,0
CVPC06G02		G 1/4"	11,9	32,5	7,0	16,4	15	24,0
CVPC08G01	8	G 1/8"	14,0	34,8	6,0	18,4	14	21,0
CVPC08G02		G 1/4"	14,0	36,9	7,0	18,4	15	24,0
CVPC10G03	10	G 3/8"	23,0	54,0	8,0	20,2	22	35,0
CVPC10G04		G 1/2"	23,0	55,3	9,0	20,2	24	41,0
CVPC12G03	12	G 3/8"	25,0	58,9	8,0	22,9	24	40,0
CVPC12G04		G 1/2"	25,0	60,2	9,0	22,9	24	40,0



CVPC-G-IN

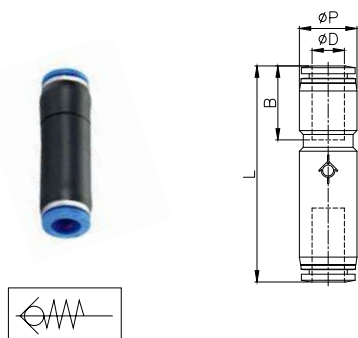
Male connector check valve BSPP & metric thread - IN type



CODE	ØD	T	ØP	L	A	B	H	g
CVPC04M5-IN	4	M5x0,8	10,0	31,4	3,6	14,8	10	11,0
CVPC04M6-IN		M6x1,0	10,0	30,4	4,6	14,8	10	11,0
CVPC04G01-IN		G 1/8"	10,0	27,3	6,0	14,8	10	11,0
CVPC06G01-IN	6	G 1/8"	11,9	32,5	6,0	16,4	12	16,0
CVPC06G02-IN		G 1/4"	11,9	32,5	7,0	16,4	15	24,0
CVPC08G01-IN	8	G 1/8"	14,0	34,3	6,0	18,4	14	21,0
CVPC08G02-IN		G 1/4"	14,0	36,9	7,0	18,4	15	24,0
CVPC10G03-IN	10	G 3/8"	23,0	54,0	8,0	20,2	22	35,0
CVPC10G04-IN		G 1/2"	23,0	55,3	9,0	20,2	24	41,0
CVPC12G03-IN	12	G 3/8"	25,0	58,9	8,0	22,9	24	40,0
CVPC12G04-IN		G 1/2"	25,0	60,2	9,0	22,9	24	40,0

CVPU

Union connector check valve - PBT



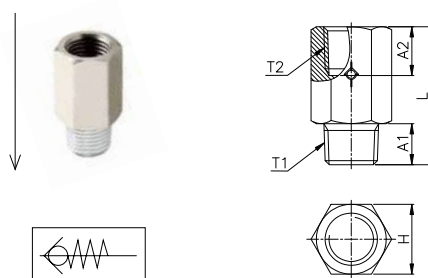
CODE	ØD	ØP	L	B	g
CVPU04	4	10,5	41,9	14,8	4,9
CVPU06	6	12,5	47,4	16,4	8,2
CVPU08	8	14,8	55,5	18,3	12,9

Union connector check valve - Alluminium

CODE	ØD	ØP	L	B	g
CVPU10	10	23,0	65,2	20,2	43,5
CVPU12	12	25,0	72,9	22,9	58,1

CVPF-R

M/F connector check valve BSPT thread - OUT type

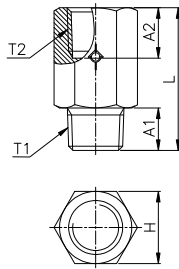


CODE	T1	T2	L	A1	A2	H	g
CVPF01R01	R 1/8"	R 1/8"	27,6	8	8,5	12	16,0
CVPF02R02	R 1/4"	R 1/4"	33,6	10	11	17	38,0
CVPF03R03	R 3/8"	R 3/8"	53,3	12	13	22	107,0
CVPF04R04	R 1/2"	R 1/2"	61,5	14	15	24	131,0



CVPF-R-IN

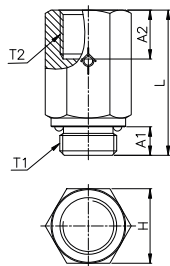
M/F connector check valve BSPT thread - IN type



CODE	T1	T2	L	A1	A2	H	g
CVPF01R01-IN	R 1/8"	R 1/8"	27,6	8	8,5	12	16,0
CVPF02R02-IN	R 1/4"	R 1/4"	33,6	10	11	17	38,0
CVPF03R03-IN	R 3/8"	R 3/8"	53,3	12	13	22	107,0
CVPF04R04-IN	R 1/2"	R 1/2"	61,5	14	15	24	131,0

CVPF-G

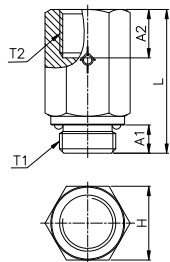
M/F connector check valve BSPP thread - OUT type



CODE	T1	T2	L	A1	A2	H	g
CVPF01G01	G 1/8"	G 1/8"	27,	5,0	8,5	14	23,0
CVPF02G02	G 1/4"	G 1/4"	33,3	6,5	11	17	39,0
CVPF03G03	G 3/8"	G 3/8"	50,5	6,5	13	22	102,0
CVPF04G04	G 1/2"	G 1/2"	56,7	8,0	15	24	121,0

CVPF-G-IN

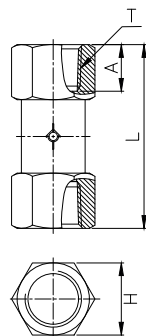
M/F connector check valve BSPP thread - IN type



CODE	T1	T2	L	A1	A2	H	g
CVPF01G01-IN	G 1/8"	G 1/8"	27,6	5,0	8,5	14	23,0
CVPF02G02-IN	G 1/4"	G 1/4"	33,3	6,5	11	17	39,0
CVPF03G03-IN	G 3/8"	G 3/8"	50,5	6,5	13	22	102,0
CVPF04G04-IN	G 1/2"	G 1/2"	56,7	8,0	15	24	121,0

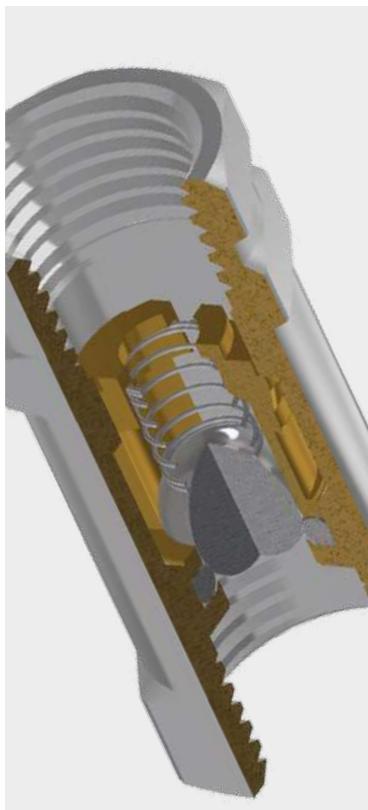
CVFF

Female check valve BSPT thread



CODE	T	L	A	H	g
CVFF-R01	R 1/8"	35,6	9,0	12	20,0
CVFF-R02	R 1/4"	43,3	11,0	17	49,2
CVFF-R03	R 3/8"	53,2	12,0	22	93,9
CVFF-R04	R 1/2"	60,5	14,0	24	113,7





NBR: $-5^{\circ}\text{C} \div 70^{\circ}\text{C}$
EPDM: $-40^{\circ}\text{C} \div 140^{\circ}\text{C}$



Working pressure:
from 0,5 to 10 Bar
Min. opening pressure:
0,025 Bar
Max. opening pressure:
0,07 Bar



Compressed air and fluids
suitable with construction
materials



Fluid flow in one direction
only. Flow direction marked
on the body



- Parallel gas BSPP ISO 228
from G1/8" to G1/2"
- Metric ISO 262
M5



Body: Nickel-plated brass
Shutter with ball: Stainless steel
AISI 304
Spring: Stainless steel AISI 302
O-ring: NBR 70

PLUS

Made with a ball shutter, which guarantees
the advantage of eliminating the friction
of the components and, at the same time,
increases the lifetime.

SILICONE FREE

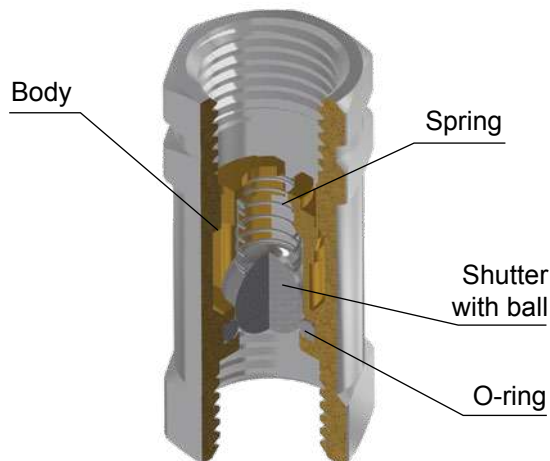


Products in compliance with
EC Regulation 1907/2006

RoHS3

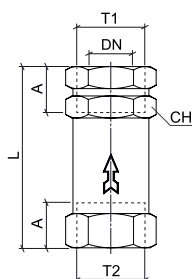
Products in compliance with
the directive EU 2015/863

CONSTRUCTION DETAILS



1700L

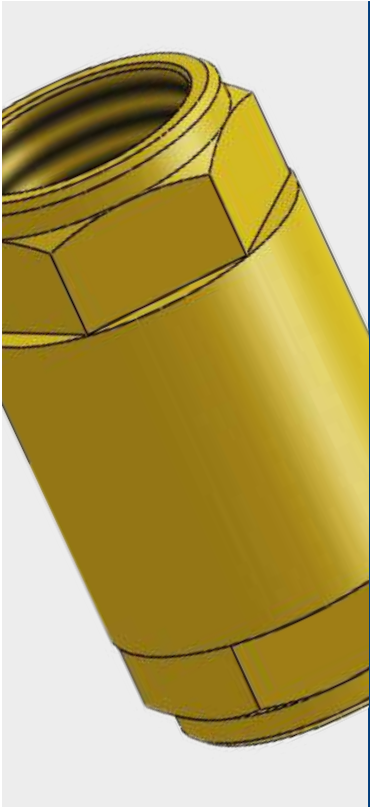
Female check valve BSPP & metric thread



CODE	T1	T2	ØD	L	A	CH	g
1700TRM5L	M5x0,8	M5x0,8	2,8	24,0	6,0	10	13,0
1700TR18L	G 1/8"	G 1/8"	5,0	31,0	8,0	13	28,0
1700TR14L	G 1/4"	G 1/4"	7,0	37,0	9,5	16	35,0
1700TR38L	G 3/8"	G 3/8"	8,5	42,0	10,5	20	59,0
1700TR12L	G 1/2"	G 1/2"	10,0	50,0	21,0	25	78,0







0°C ÷ 90°C



Working pressure:
from G3/8" to G1": 16 Bar
from G1"-1/4" to G2": 10 Bar
from G2"-1/2" to G4": 8 Bar



Air, neutral gases and water



Fluid flow in one direction only. Flow direction marked on the body



Parallel gas BSPP ISO 228
from G3/8" to G4"



Body: Yellow brass CW617N
UNI EN 12165/98
Body end: Nickel-plated brass
CW617N UNI EN 12165/98
Shutter: Acetal resin
Spring: Stainless steel AISI 302
Seal: NBR

AVAILABILITY

Available on request with shutter in stainless steel AISI 304

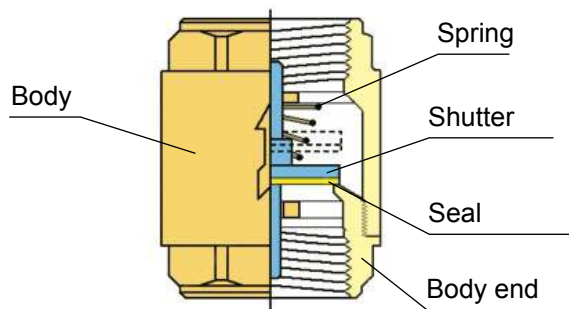
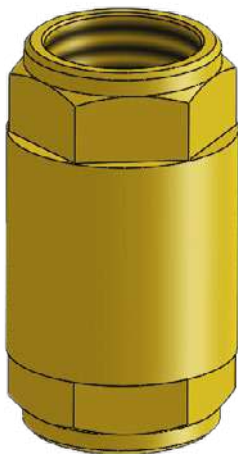


Products in compliance with
EC Regulation 1907/2006



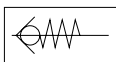
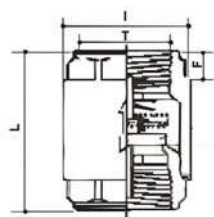
Products in compliance with
the directive EU 2015/863

CONSTRUCTION DETAILS



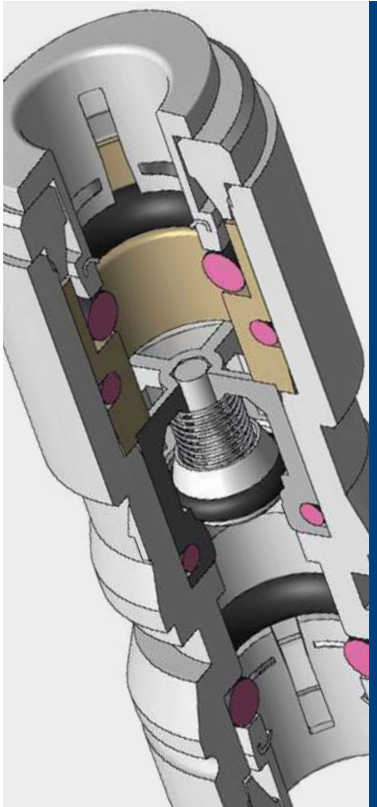
1705L

Check valve BSPP thread - yellow brass



CODE	T	F	I	L	g
1705TR38L	G 3/8"	12	29	46,0	35,0
1705TR12L	G 1/2"	12	30	48,0	110,0
1705TR34L	G 3/4"	14	37	53,0	150,0
1705TR11L	G 1"	15	44	59,0	240,0
1705TR114L	G 1"-1/4"	14	56	66,0	360,0
1705TR112L	G 1"-1/2"	15	63	71,0	480,0
1705TR2L	G 2"	14	78	80,0	700,0
1705TR212L	G 1"-1/2"	16	103	93,0	380,0
1705TR3L	G 3"	18	120	104,0	850,0
1705TR4L	G 4"	20	155	115,0	1050,0





Dry air: $-20^{\circ}\text{C} \div 90^{\circ}\text{C}$
Air & Fluids: $1^{\circ}\text{C} \div 90^{\circ}\text{C}$

The maximum recommended working temperature for continuous use is 65°C and 90°C for a maximum use of 5 minutes.



Working pressure:

Up to 10 Bar

From 0 to 8 Bar with dry air

Negative pressure:

- 0,95 Bar (- 95 Kpa)

Data depend from the tubes and temperature used

Opening pressure:

0,02 Bar



Potable water, beverages, vacuum, compressed air, gases and fluids compatible with construction materials



Polyethylene PE, polyamide PA, PTFE, FEP

Tubes made of light metals:

Brass, copper and mild steel

Tubes made of hard materials:
 See page 84 for information on the use of hard material tubes

Body: POM

Collet: POM

Lock claw: Stainless steel AISI 301

Seal: EPDM suitable for food contact

Guide: POM

Valve: POM, Stainless steel AISI 301 and EPDM



Food contact materials
 EC 1935/2004



D.M. 174/2004



ICIM certified product
 food contact materials



ICIM certified product
 water contact materials



ACS



NSF51 / NSF61
 NSF certificate on behalf of
 CDC PNEUMATICS CORP.

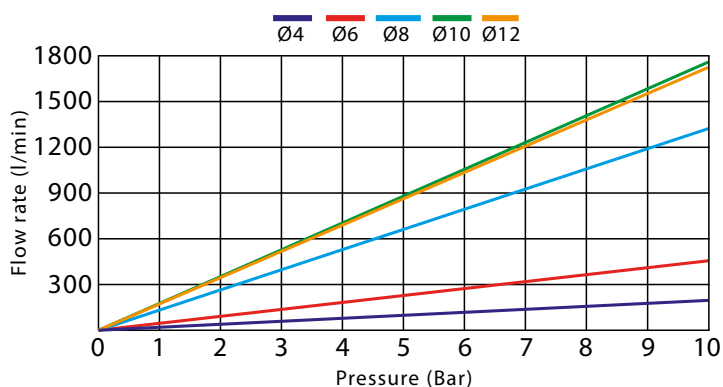


Products in compliance with
 EC Regulation 1907/2006

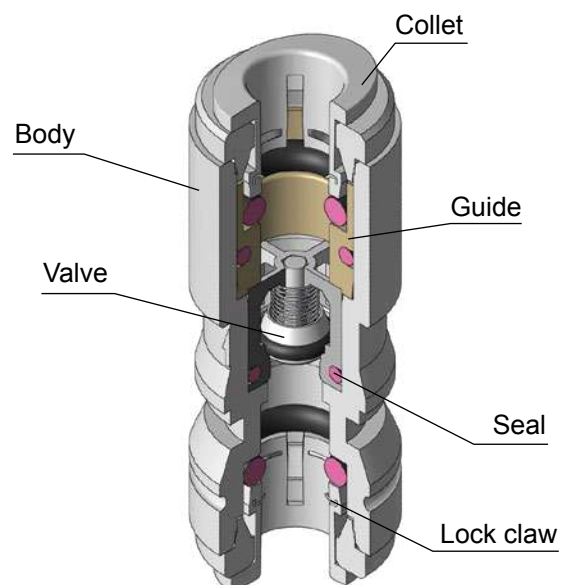


Products in compliance with
 the directive EU 2015/863

FLOW CHART

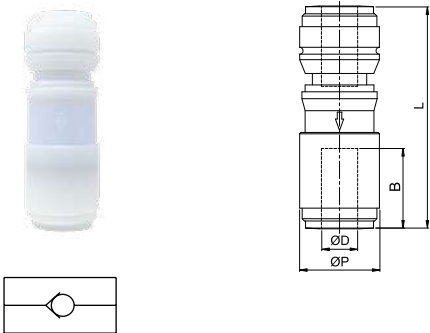


CONSTRUCTION DETAILS



HCVU

Union connector check valve - acetal resin



CODE	ØD	ØP	L	B	g
HCVU0404W	4	13,2	44,4	14,7	6,1
HCVU0606W	6	15,5	45,5	16,1	7,4
HCVU0808W	8	17,6	48,6	17,5	10,0
HCVU1010W	10	20,0	57,6	19,4	14,5
HCVU1212W	12	23,6	67,5	23,9	22,1

