

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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CHECK VALVES / NICKEL-PLATED BRASS PN 10


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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



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

↓ € ↓
Risparmio
denaro

↓
Eliminazione
bottiglie in plastica

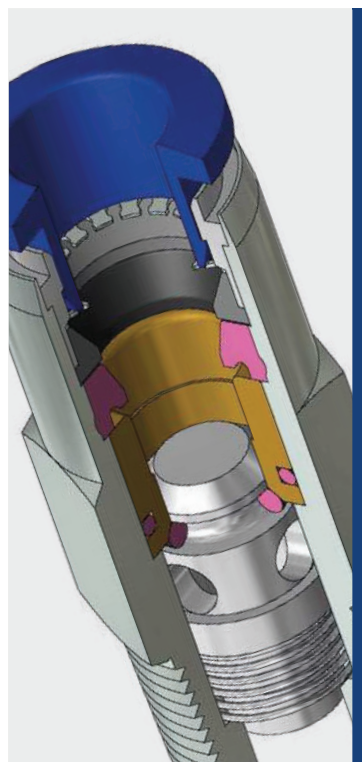
↓
Ottimizzazione
tempo

CO₂
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

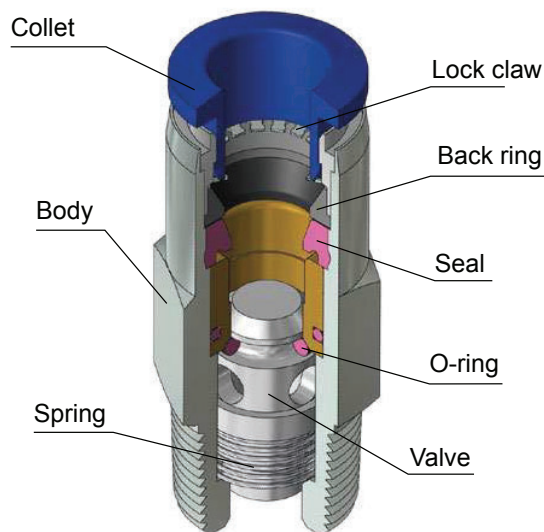
Alluminium from Ø10 to Ø12

CVPU: PBT from Ø4 to Ø8

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

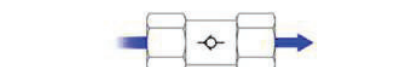
CVPC



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

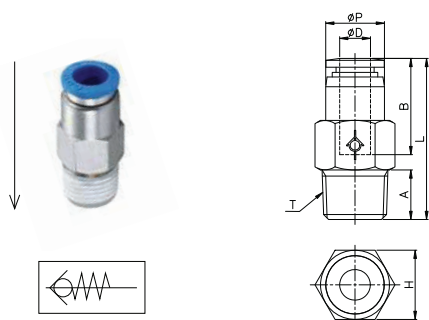
PARALLEL GAS BSPP ISO 228 & METRIC ISO 262

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



CVPC-R

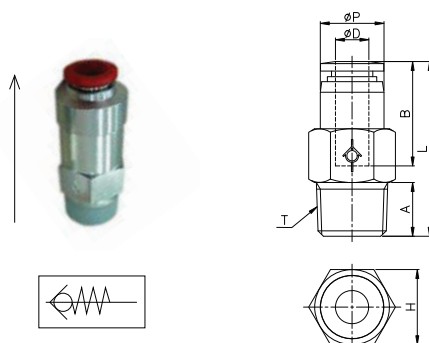
Male connector check valve BSPT thread - OUT type



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

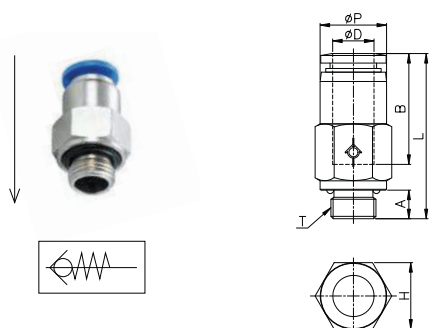
Male connector check valve BSPT thread - IN type



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

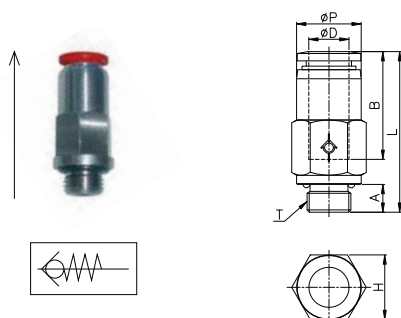


CODE	ØD	T	ØP	L	A	B	H	g
CVPC04M5	4	M5x0,8	10,0	31,4	3,6	14,8	10	11,0
CVPC04M6		M6x1,0	10,0	30,4	4,6	14,8	10	11,0
CVPC04G01		G 1/8"	10,0	27,3	6,0	14,8	10	11,0
CVPC06G01	6	G 1/8"	11,9	32,5	6,0	16,4	12	16,0
CVPC06G02		G 1/4"	11,9	32,5	7,0	16,4	15	24,0
CVPC08G01	8	G 1/8"	14,0	34,8	6,0	18,4	14	21,0
CVPC08G02		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

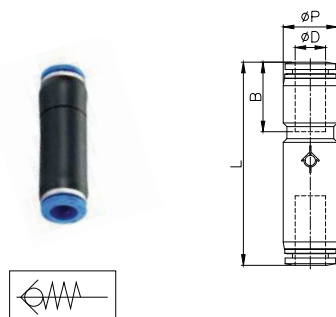
Male connector check valve BSPP & metric thread - IN type



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

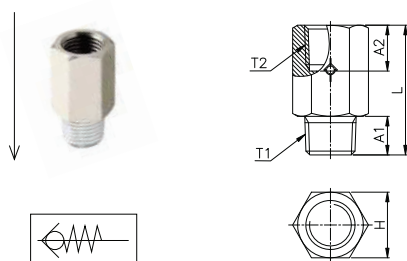
Union connector check valve - Alluminium



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

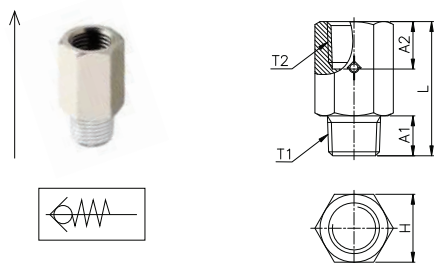


CODE	T1	T2	L	A1	A2	H	g
CVPF01R01	R 1/8"	R 1/8"	27,6	8	8,5	12	16,0
CVPF02R02	R 1/4"	R 1/4"	33,6	10	11	17	38,0
CVPF03R03	R 3/8"	R 3/8"	53,3	12	13	22	107,0
CVPF04R04	R 1/2"	R 1/2"	61,5	14	15	24	131,0



CVPF-R-IN

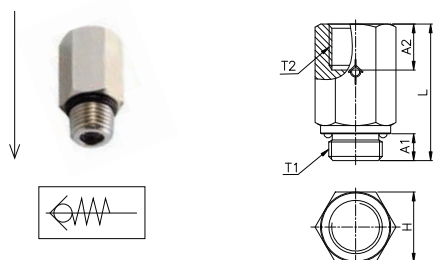
M/F connector check valve BSPT thread - IN type



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

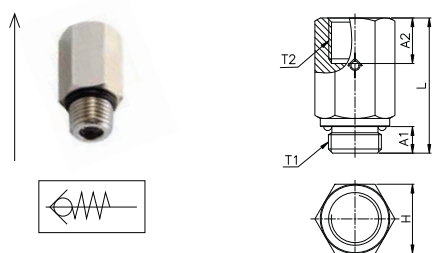
M/F connector check valve BSPP thread - OUT type



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

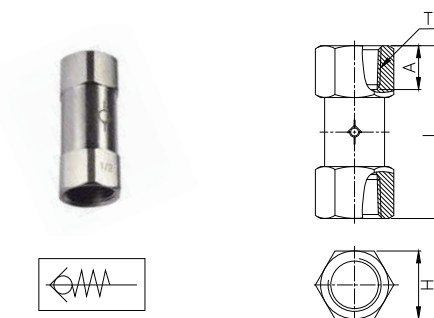
M/F connector check valve BSPP thread - IN type



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

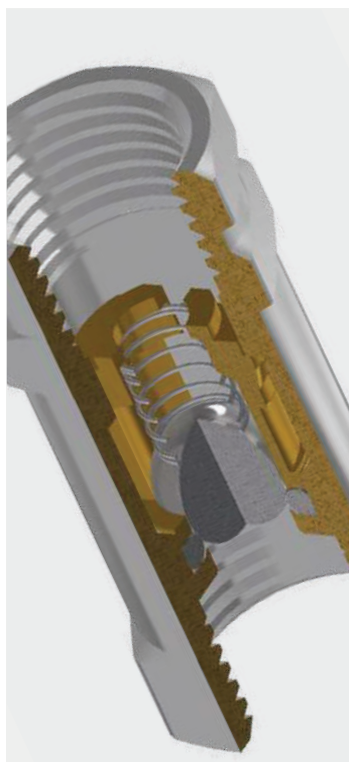
CVFF

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

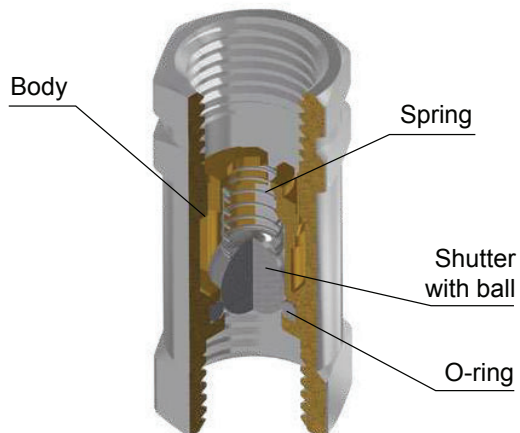


Products in compliance with
EC Regulation 1907/2006

RoHS3

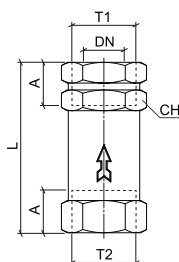
Products in compliance with
the directive EU 2015/863

CONSTRUCTION DETAILS

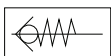


1700L

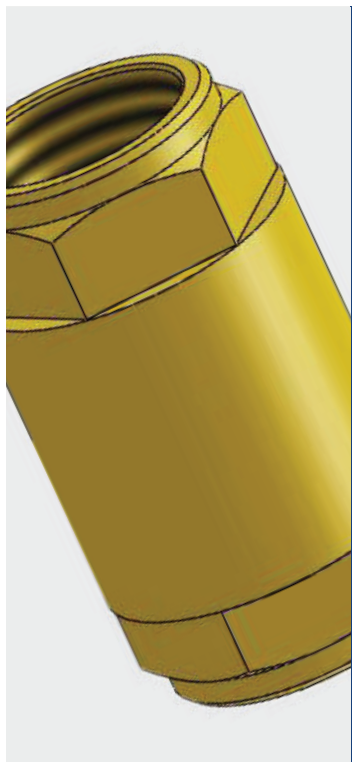
Female check valve BSPP & metric thread



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

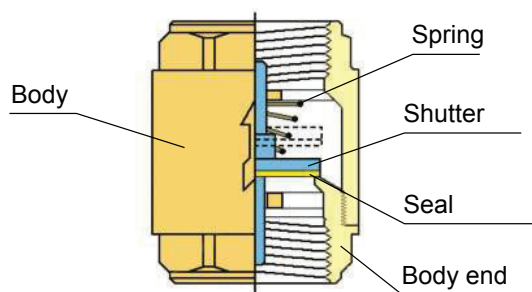


Products in compliance with
EC Regulation 1907/2006



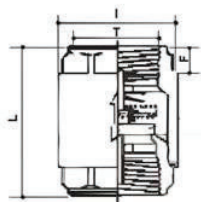
Products in compliance with
the directive EU 2015/863

CONSTRUCTION DETAILS



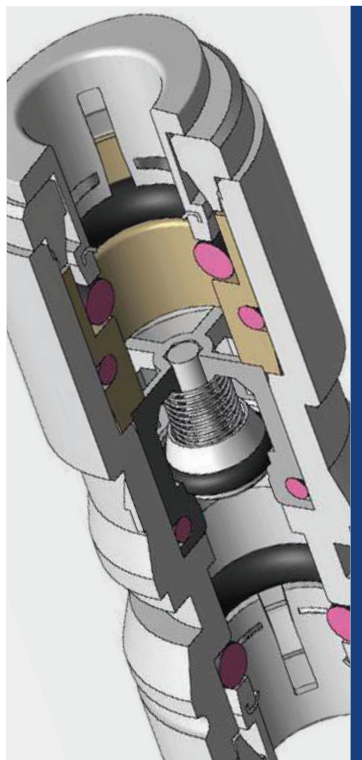
1705L

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
1705TR1L	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:
 $-0,95 \text{ Bar} (-95 \text{ Kpa})$
 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.

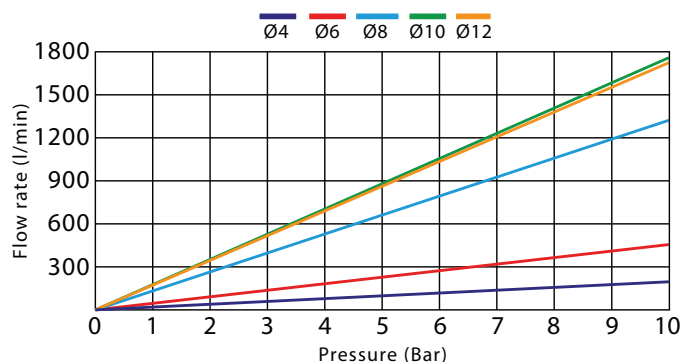


Products in compliance with
 EC Regulation 1907/2006

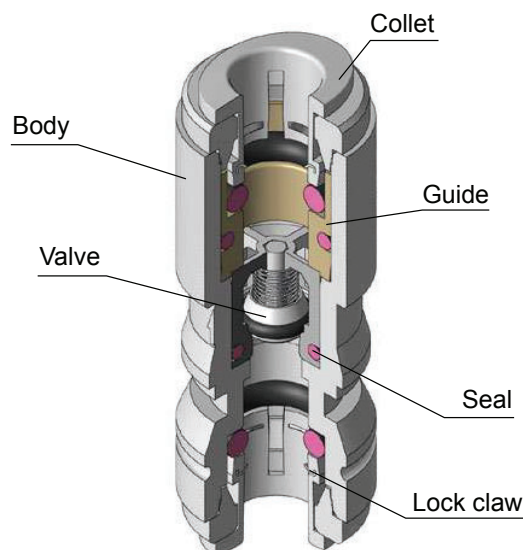


Products in compliance with
 the directive EU 2015/863

FLOW CHART

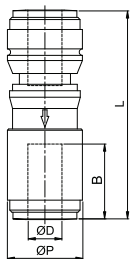
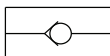


CONSTRUCTION DETAILS



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



FUNCTION FITTINGS

CHECK
VALVES
PN20

PLUS

**POSSIBILITY TO ASSEMBLE
DIFFERENT SPRINGS FOR DIFFERENT
OPENING PRESSURES**

**MAXIMUM CAPACITY WITH
MINIMUM PRESSURE LOSS**

**INDICATOR OF FLOW ON VALVE
BODY**

STRONG DESPITE COMPACT SIZE

**POSSIBILITY TO ASSEMBLE SEALS IN
NBR, FKM AND EPDM**





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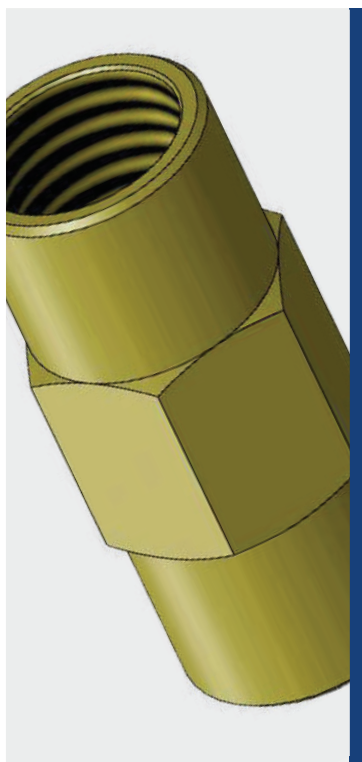


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NBR: -20°C ÷ 100°C
FKM: -20°C ÷ 205°C
EPDM: -40°C ÷ 130°C



Working pressure:
20 Bar



Compressed air, water, gases,
mineral or synthetic non-
aggressive oils in non-corrosive
environments and fluids
compatible 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"

Body: Yellow brass OT 58
Shutter: Yellow brass OT 58
Shutter support: Yellow brass OT 58
Spring: Stainless steel AISI 302
O-ring: NBR
Retaining ring: Stainless steel
AISI 302



AVAILABILITY

- Can be fitted with O-rings made of FKM or EPDM;
- Different opening pressures on request;



Products in compliance with
EC Regulation 1907/2006

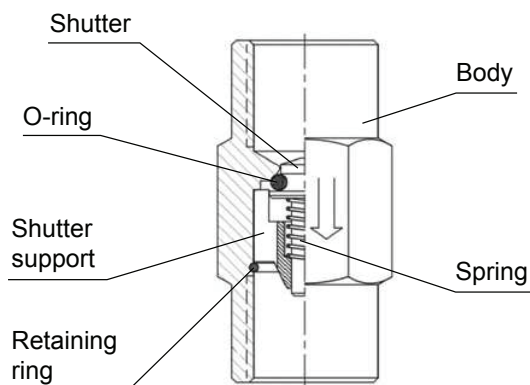


Products in compliance with
the directive EU 2015/863

MINIMUM OPENING PRESSURE

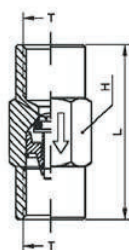
THREAD	G 1/8"	G 1/4"	G 3/8"	G 1/2"	G 3/4"	G 1"
Bar	0,35	0,30	0,25	0,08	0,10	0,80

CONSTRUCTION DETAILS

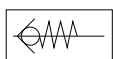


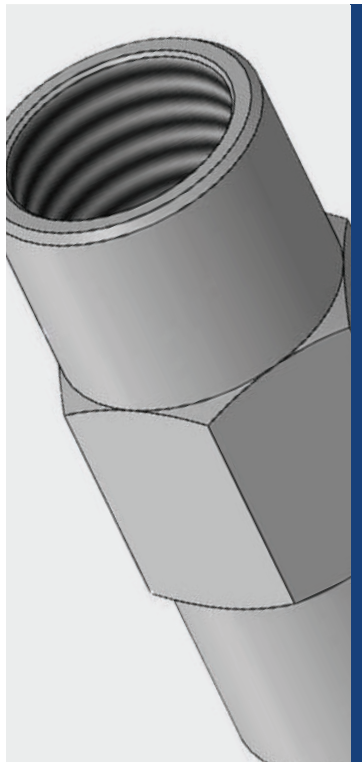
1705

Female check valve BSPP threa - yellow brass PN 20



CODE	T	L	H	g
1705TR18	G 1/8"	36,0	17	52,0
1705TR14	G 1/4"	38,5	17	45,0
1705TR38	G 3/8"	45,0	22	90,0
1705TR12	G 1/2"	56,0	27	153,0
1705TR34	G 3/4"	66,5	34	285,0
1705TR1	G 1"	79,0	40	388,0





NBR: -20°C ÷ 100°C
FKM: -20°C ÷ 205°C
EPDM: -40°C ÷ 130°C



Working pressure:
20 Bar



Compressed air, water, gases,
mineral or synthetic non-
aggressive oils in non-corrosive
environments and fluids
compatible 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"



Body: Stainless steel AISI 303
Shutter: Stainless steel AISI 303
Shutter support: Acciaio inox
AISI 303
Spring: Stainless steel AISI 302
O-ring: FKM
Retaining ring: Stainless steel
AISI 302

AVAILABILITY

- Can be fitted with NBR or EPDM O-rings;
- Different opening pressures on request;



Products in compliance with
EC Regulation 1907/2006

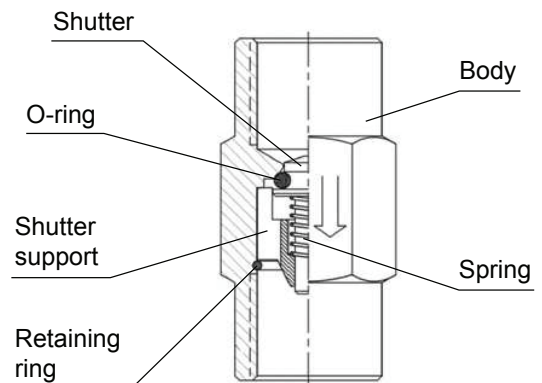


Products in compliance with
the directive EU 2015/863

MINIMUM OPENING PRESSURE

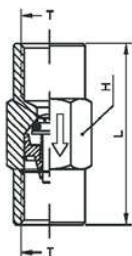
THREAD	G 1/8"	G 1/4"	G 3/8"	G 1/2"	G 3/4"	G 1"
Bar	0,35	0,30	0,25	0,08	0,10	0,80

CONSTRUCTION DETAILS



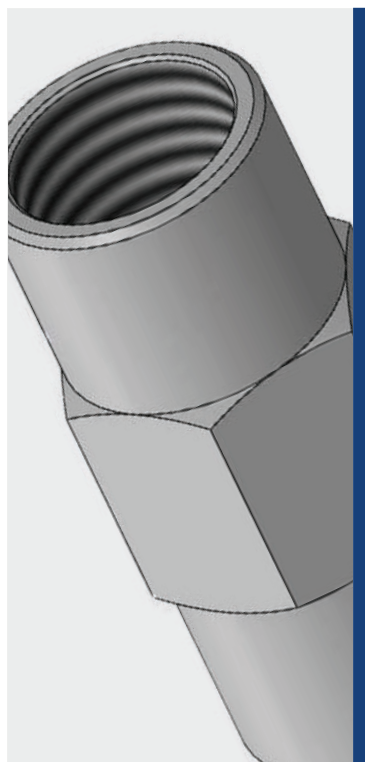
1710

Female check valve BSPP thread - stainless steel AISI 303 PN 20



CODE	T	L	H	g
1710TR18	G 1/8"	36,0	17	48,0
1710TR14	G 1/4"	38,5	17	43,0
1710TR38	G 3/8"	45,0	22	82,0
1710TR12	G 1/2"	56,0	27	143,0
1710TR34	G 3/4"	66,5	36	325,0
1710TR1	G 1"	79,0	41	388,0





NBR: -20°C ÷ 100°C
FKM: -20°C ÷ 205°C
EPDM: -40°C ÷ 130°C



Working pressure:
20 Bar



Compressed air, oxidising,
corrosive environments
and fluids compatible 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"



Body: Stainless steel AISI 316L
Shutter: Stainless steel AISI 316L
Shutter support: Stainless steel
AISI 316L
Spring: Stainless steel AISI 302
O-ring: FKM
Retaining ring: Stainless steel
AISI 302



Food contact materials
EC 1935/2004



D.M. 174/2004



Products in compliance with
EC Regulation 1907/2006



Products in compliance with
the directive EU 2015/863

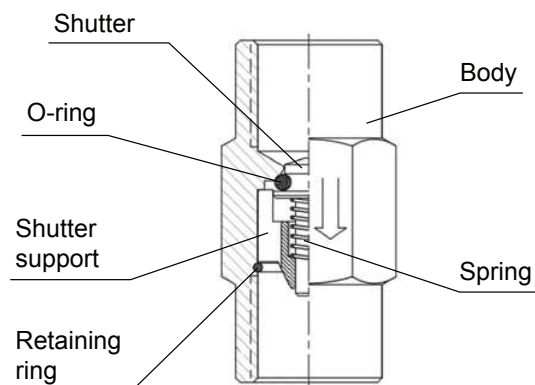
MINIMUM OPENING PRESSURE

FILETTO	G 1/8"	G 1/4"	G 3/8"	G 1/2"	G 3/4"	G 1"
Bar	0,35	0,30	0,25	0,08	0,10	0,80

AVAILABILITY

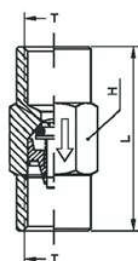
- Can be fitted with NBR and EPDM O-rings;
- Different opening pressures on request;

CONSTRUCTION DETAILS

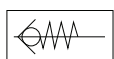


1730

Female check valve BSPP thread - stainless steel AISI 316L PN 20



CODE	T	L	H	g
1730TR18	G 1/8"	36,0	17	48,0
1730TR14	G 1/4"	38,5	17	43,0
1730TR38	G 3/8"	45,0	22	84,0
1730TR12	G 1/2"	56,0	27	143,0
1730TR34	G 3/4"	66,5	36	330,0
1730TR1	G 1"	79,0	41	388,0

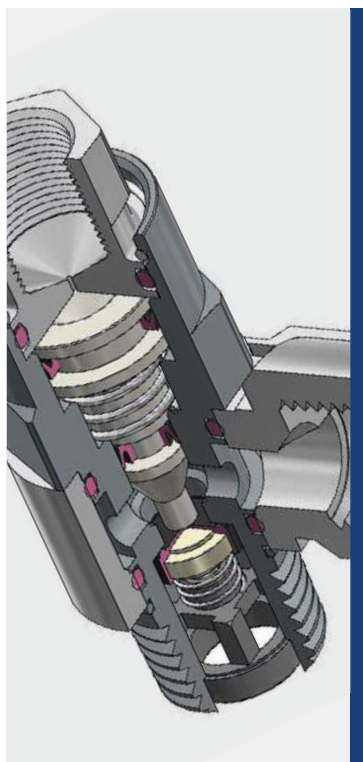


PERFECT UNION



FOLLOW US!





0°C ÷ 60°C

**Working pressure:**

10 Bar

Negative pressure:

- 0,95 Bar (- 95 Kpa)

Min. pilot pressure:

More than 50% of the working pressure (more than 1 Bar)

Compressed air & vacuum
(do not use with water)

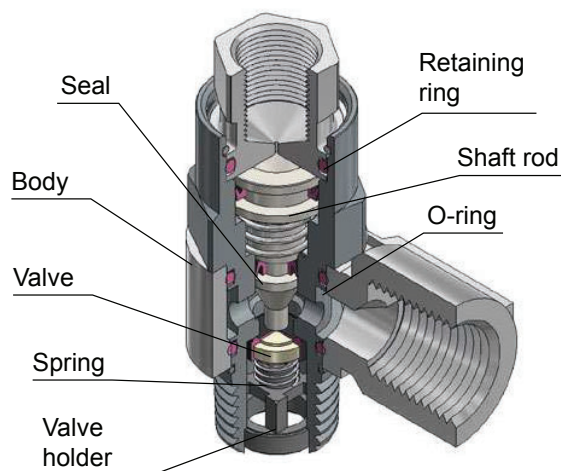
- Taper gas BSPT ISO 7
from R1/8" to R1/2" with teflon
- Parallel gas BSPP ISO 228
from G1/8" to G1/2"

Body: Nickel-plated brass and zinc**Shaft rod:** Brass**Valve:** NBR and Stainless steel**Valve holder:** Brass**O-ring:** NBR**Seal:** NBR**Spring:** Stainless steel AISI 301**Retaining ring:** Stainless steel
AISI 301**SILICONE FREE**Products in compliance with
EC Regulation 1907/2006Products in compliance with
the directive EU 2015/863

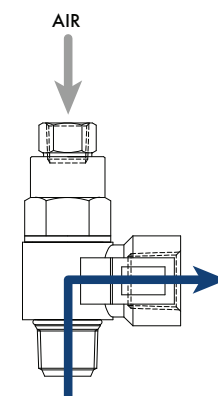
FEATURES

They are also used as stop valves, mounted directly on the cylinders to block stem travel in the event of a pilot pressure drop. They ensure that the stem is blocked in the event of a tube breakage or lack of air and can be used to block the stem in intermediate positions depending on the application.

CONSTRUCTION DETAILS



PILOTING



TIGHTENING TORQUE

TAPER GAS BSPT ISO 7

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

TIGHTENING TORQUE

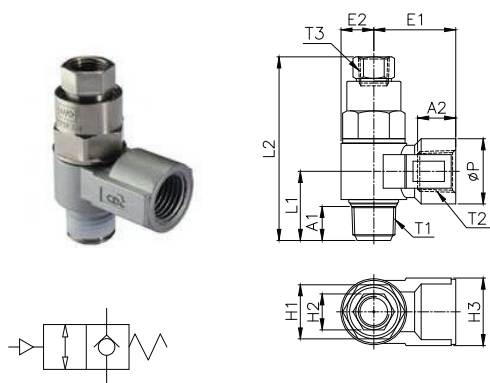
PARALLEL GAS BSPP ISO 228 & METRIC ISO 262

THREAD	1/8"	1/4"	3/8"	1/2"
Nm	10	15	25	40



PVSF-R

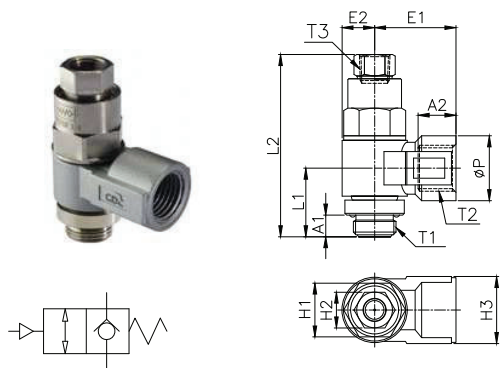
Pilot check valve, BSPT thread



CODE	ØP	T1	A1	T2	A2	T3	L1	L2	E1	E2	H1	H2	H3	g
PVSF-R01	14,5	R 1/8"	7,6	R 1/8"	10,0	M5x0,8	15,4	40,8	18,2	7,3	12	8	15	34,5
PVSF-R02	18,0	R 1/4"	10,6	R 1/4"	13,0	R 1/8"	21,1	48,9	26,5	9,5	17	12	19	74,6
PVSF-R03	23,0	R 3/8"	12,6	R 3/8"	14,5	R 1/8"	24,8	56,7	30,8	11,6	20	12	24	123,4
PVSF-R04	26,5	R 1/2"	14,5	R 1/2"	19,0	R 1/4"	31,0	70,6	38,7	14,0	24	17	28	207,2

PVSF-G

Pilot check valve, BSPP thread



CODE	ØP	T1	T2	T3	A1	A2	L1	L2	E1	E2	H1	H2	H3	g
PVSF-G01	14,5	G 1/8"	G 1/8"	M5x0,8	5,1	9,5	16,2	40,8	17,7	7,3	12	8	15	35,4
PVSF-G02	18,0	G 1/4"	G 1/4"	G 1/8"	6,6	12,5	21,3	48,9	26,0	9,5	17	12	19	77,3
PVSF-G03	23,0	G 3/8"	G 3/8"	G 1/8"	7,2	14,0	24,8	56,7	30,3	11,6	20	12	24	127,7
PVSF-G04	26,5	G 1/2"	G 1/2"	G 1/4"	8,7	18,5	29,6	70,6	38,2	14,0	24	17	28	218,8

