



Valvole di blocco e di non ritorno

Check valves



VALVOLE DI NON RITORNO CHECK VALVES

Valvole unidirezionali: Consentono il flusso con limitata perdita di carico in una direzione e bloccano il flusso in senso inverso. Possono avere la tenuta a sfera oppure mediante otturatore conico guidato.

Valvole unidirezionali a sbloccaggio oleodinamico: Consentono il flusso con limitata perdita di carico in una direzione e bloccano il flusso in senso inverso fino a quando non vengono aperte attraverso la pressione di pilotaggio.

Il rapporto di pilotaggio deve essere scelto in modo da consentire lo sblocco della valvola in cui otturatore viene premuto in chiusura all'aumentare della pressione all'interno dell'otturatore:

$$R_p \times P_{pil} \geq P_{tot}$$

R_p = Rapporto di pilotaggio

P_{pil} = Pressione di pilotaggio

P_{tot} = Pressione all'interno dell'otturatore

Valvole unidirezionali pilotate in chiusura: Consentono il flusso con limitata perdita di carico in una direzione e bloccano il flusso in senso inverso. Se applicata pressione alla porta pilota la sfera o l'otturatore conico rimarranno nella sede bloccando il flusso

Vengono realizzate a cartuccia come valvole complete di corpo, per montaggio in linea o flangiabile con diverse opzioni di rapporto di pilotaggio.

Check valves: They allow free flow, with limited pressure drop, in one direction and block the flow in the opposite direction. They can be ball or guided poppet type.

Pilot operated check valves: They allow free flow, with limited pressure drop, in one direction and block the flow in the opposite direction until they are open by the pilot pressure.

The pilot ratio must be chosen in order to achieve a correct opening at the valve, where the poppet is forced closed by the increasing pressure inside the actuator:

$$R_p \times P_{pil} \geq P_{tot}$$

R_p = Pilot ratio

P_{pil} = Pilot Pressure

P_{tot} = Total pressure inside the actuator

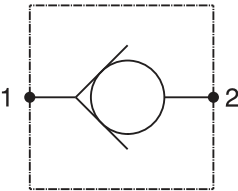
Pilot to close check valve: They allow free flow, with limited pressure drop, in one direction and block the flow in the opposite direction. Reverse flow is prevented by the ball reseating. Pressure applied to the pilot port will hold the ball against its seat, preventing free flow.

They are manufactured as screw-in cartridges and valves with body, in line or flangeable mounting, with a variety of pilot ratios.

INDICE PER TIPO DI VALVOLA INDEX BY VALVE TYPE

	Q	P	PAGINA
	(l/min)	(bar)	PAGE

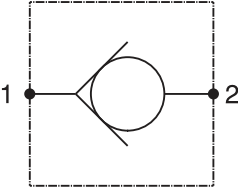
Valvola unidirezionale a cartuccia (METRICHE) Check valve – cartridge type (METRIC THREAD)

	VNR40-C	40	350	309
	VNR60-C	60	350	310
	VNR22-C	80	350	311
	VNR80-C	80	300	312
	VNR130-C	130	300	314
	VNR200-C	200	300	316
	VNRI80-C *	80	300	313
	VNRI130-C *	130	300	315
	VNRI200-C *	200	300	317

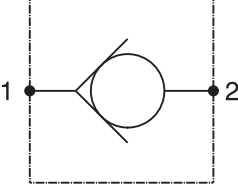
* VEDI SCHEMA IDRAULICO PAG. 13-15-17

* SEE HYDRAULIC SCHEME PAGE 13-15-17

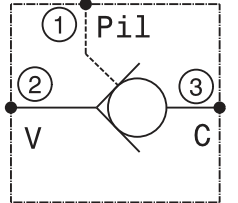
Valvola unidirezionale a cartuccia (SAE-UNF) Check valve – cartridge type (SAE-UNF THREAD)

	VNR40-08-C	40	350	318
	VNR10-C	80	350	319
	VNR12-C	110	300	320
	VNR16-C	150	300	321
	VNR20-C	280	300	322
	VNR20-C D23	360	300	323

Valvola unidirezionale ad inserto Check valve insert

	VNRI30	150	350	324
	VNRI38	300	350	324
	VNRI80D15	90	350	325
	VNRI130D18	130	350	325
	VNRI200D27	200	350	325

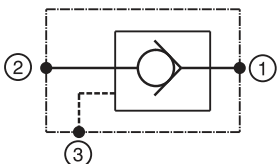
Valvola unidirezionale pilotata in apertura, a cartuccia Pilot to open operated check valve – cartridge type

	VBP20-08-C	20	350	326
	VBP20-C	20	350	327
	VBP40-C	40	350	328
	VBP60-10-C-P3	60	350	329
	VBP90-C	90	350	330

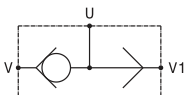
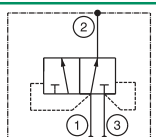
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	(l/min)	(bar)	PAGE

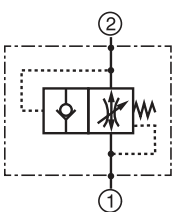
Valvola di blocco pilotata in chiusura a cartuccia Check valve, pilot to close – cartridge type

	VBPC-22-C	60	350	331
	VBPC-10-C	60	350	332
	VBPC-12-C	110	350	333
	VBPC-20-C	150	350	334

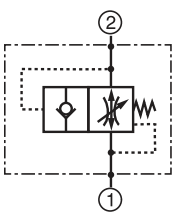
Valvola selettoria a cartuccia Shuttle valve – cartridge type

	VS03-C M12X1.5	3	350	335
	VS25-08-C	25	350	336
	VHS-10-C	60	350	337

Valvola paracadute Screw-in cartridge hose burst valve

	VPN-14	25	350	338
	VPN-38	50	350	338
	VPN-12	80	350	338
	VPN-34	150	350	338

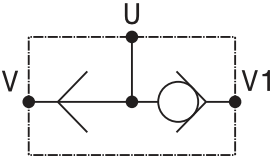
Valvola paracadute - colonnetta Hose burst valve

	VPN-14-MF	25	350	339
	VPN-38-MF	50	350	339
	VPN-12-MF	80	350	339
	VPN-34-MF	150	350	339
	VPN-14-FF	25	350	339
	VPN-38-FF	50	350	339
	VPN-12-FF	80	350	339
	VPN-34-FF	150	350	339

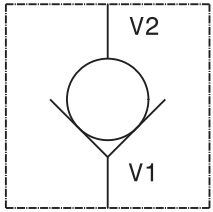
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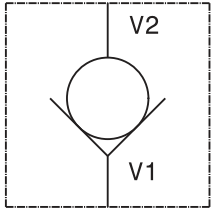
Valvola selettoria Shuttle valve

	VSF14	20	350	340
	VSF-38	40	350	340
	VSF-12	60	350	340
	VSF-34	100	280	340
	VSM-14	20	350	340
	VSM-38	40	350	340
	VSM-12	60	350	340
	VSM-34	100	280	340

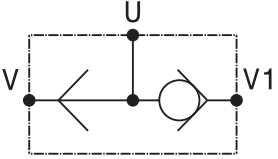
Valvola unidirezionale in linea a sfera e a cono, filettata femmina - femmina In line check valve, ball and poppet type, female - female threaded

	VU14-SF	15	500	341
	VU38-SF	30	500	341
	VU12-SF	50	500	341
	VU34-SF	90	350	341
	VU14-SP	15	500	341
	VU38-SP	30	500	341
	VU12-SP	50	500	341
	VU34-SP	90	350	341
	VU10-SP	150	350	341

Valvola unidirezionale in linea a sfera e a cono, filettata maschio - femmina In line check valve, ball and poppet type, male - female threaded

	VU14MF-SF	15	500	342
	VU38MF-SF	30	500	342
	VU12MF-SF	50	500	342
	VU34MF-SF	90	350	342
	VU14MF-SP	15	500	342
	VU38MF-SP	30	500	342
	VU12MF-SP	50	500	342
	VU34MF-SP	90	350	342
	VU10MF-SP	150	350	342

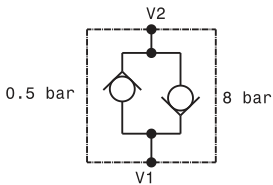
Valvola unidirezionale in linea, tenuta a cono In line check valve, poppet type

	VU38-MM	25	350	343
	VU12-MM	40	350	343
	VU34-MM	90	350	343

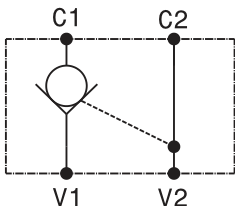
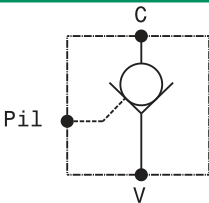
INDICE PER TIPO DI VALVOLA INDEX BY VALVE TYPE

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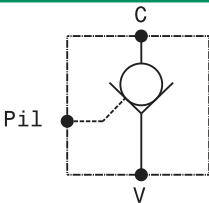
Valvola bidirezionale Bidirectional check valve

	VBD-E	30	350	344
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Valvola di blocco pilotata a semplice effetto Single effect, pilot operated check valve

	VBS-14-SF	20	350	345
	VBS-38-SF	35	350	345
	VBS-12-SF	50	350	345
	VBS-14-SP	20	350	345
	VBS-38-SP	35	350	345
	VBS-12-SP	50	350	345
	VBS-34-SP	80	250	345
	VBS-14-SF M16X1.5	20	350	347
	VBS-38-SF M18X1.5	35	350	347
	VBS-14-SP M16X1.5	20	350	347
	VBS-38-SP M18X1.5	35	350	347
	In linea in line			
	VBS-L-14	20	350	349
	VBS-L-38	35	350	349
	VBS-L-12	50	350	349
	VBS-L-34	80	250	349
	Flangeable Flangeable			
	VBS-L-F-38	35	350	350
	VBS-L-F-12	50	350	350

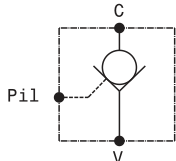
Valvola di blocco semplice effetto con pilotaggio separato Pilot operated check valve with vented pilot

	VBS-L-PS-14	20	350	353
	VBS-L-PS-38	35	350	353
	VBS-L-PS-12	50	350	353

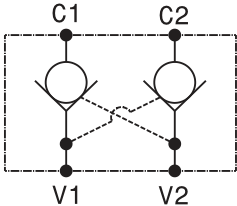
INDICE PER TIPO DI VALVOLA INDEX BY VALVE TYPE

	Q	P	PAGINA
	(l/min)	(bar)	PAGE

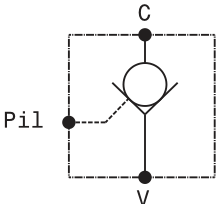
Valvola di blocco semplice effetto flangiabile con pilotaggio separato
Flangeable pilot operated check valve with vented pilot

	VBS-F-PS-38	35	350	353
	VBS-F-PS-12	50	350	353

Valvola di blocco pilotata a doppio effetto
Pilot operated check valve, ball or poppet type

	VBD-14-SF	20	350	346
	VBD-38-SF	35	350	346
	VBD-12-SF	50	350	346
	VBD-14-SP	20	350	346
	VBD-38-SP	35	350	346
	VBD-12-SP	50	350	346
	VBD-34-SP	80	250	346
	VBD-14-SF M16X1.5	20	350	348
	VBD-38-SF M18X1.5	35	350	348
	VBD-14-SP M16X1.5	20	350	348
	VBD-38-SP M18X1.5	35	350	348
	In linea <i>in line</i>			
	VBD-L-14	20	350	351
	VBD-L-38	35	350	351
	VBD-L-12	50	350	351
	VBD-L-34	80	250	351
	Flangeable <i>Flangeable</i>			
	VBD-L-F-38	35	350	352
	VBD-L-F-12	50	350	352
	VBD-L-F-34	80	250	352

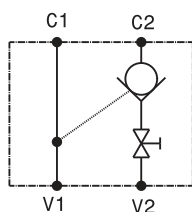
Valvola di blocco pilotata semplice effetto flangiabile
Flangeable pilot operated check valve

	VBS-F-38	40	280	355
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INDICE PER TIPO DI VALVOLA INDEX BY VALVE TYPE

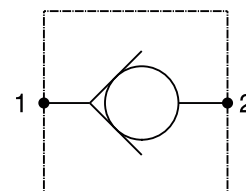
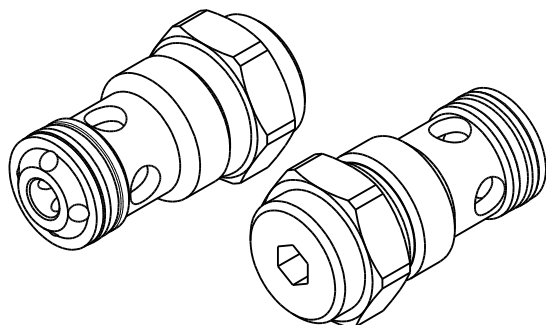
	Q	P	PAGINA
	(l/min)	(bar)	PAGE

Valvola di blocco pilotata a semplice effetto con rubinetto manuale
Single effect, pilot operated check valve with manual lever



VBS-R-D-38	35	300	356
VBS-R-D-12	50	300	356
VBS-R-S-38	35	300	357
VBS-R-S-12	50	300	357
Flangeable <i>Flangeable</i>			
VBS-F-R-D-38	35	300	358
VBS-F-R-S-38	35	300	359

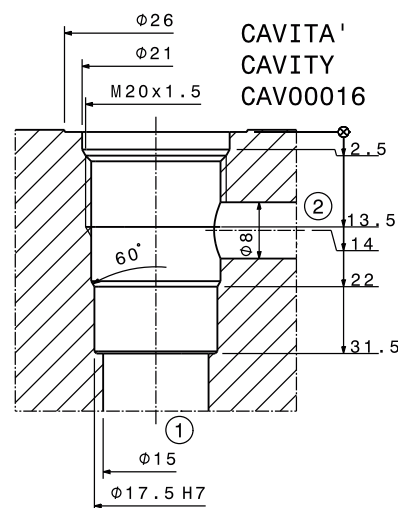
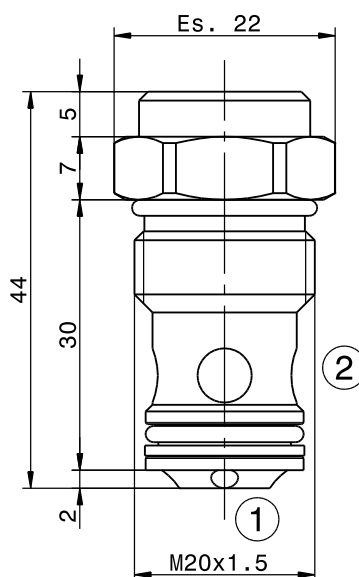
Valvola unidirezionale a cartuccia
Check valve – cartridge type
mod. VNR40-C



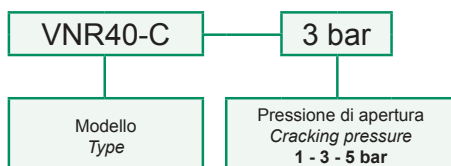
Portata massima <i>Max flow</i>	40 l/min 10.5 gpm
Pressione massima <i>Max pressure</i>	350 bar 5000 psi
Pressione di apertura <i>Cracking pressure</i>	1 bar 14 psi 3 bar 43 psi 5 bar 72 psi
Coppia di serraggio <i>Installation torque</i>	27 ÷ 30 Nm 20 ÷ 22.5 lb ft

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate <i>Recommended viscosity</i>	10 ÷ 420 cSt
Temperatura di lavoro <i>Working temperature</i>	-20 ÷ +90 °C
Filtrazione assoluta <i>Absolute filtration</i>	25 µ



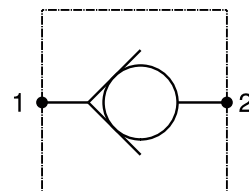
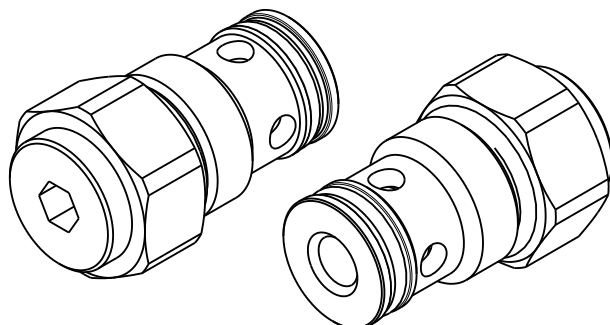
Sigla di ordinazione / Ordering code



For flow diagram see
 PRESSURE DROP CHECK VALVE (1)

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

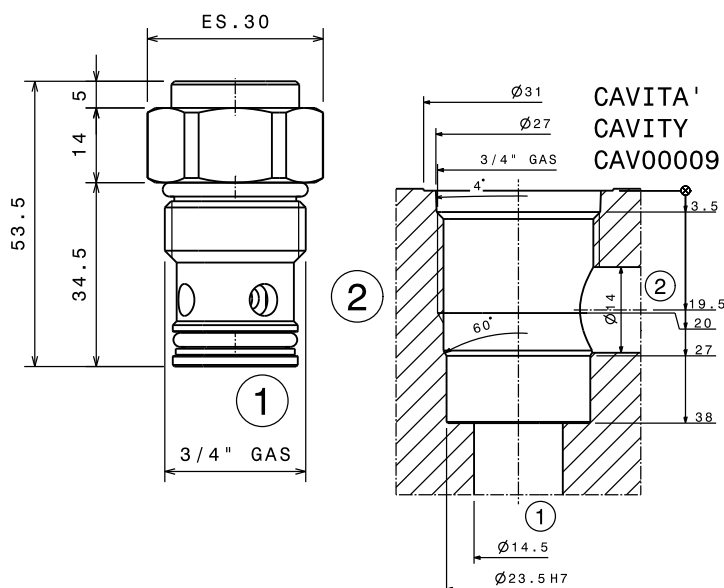
Valvola unidirezionale a cartuccia
Check valve – cartridge type
mod. VNR60-C



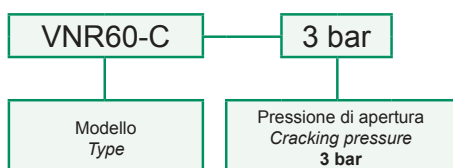
Portata massima <i>Max flow</i>	60 l/min <i>16 gpm</i>
Pressione massima <i>Max pressure</i>	350 bar <i>5000 psi</i>
Pressione di apertura <i>Cracking pressure</i>	3 bar 43 psi
Coppia di serraggio <i>Installation torque</i>	140 ÷ 160 Nm <i>105 ÷ 120 lb ft</i>

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate <i>Recommended viscosity</i>	10 ÷ 420 cSt
Temperature di lavoro <i>Working temperature</i>	-20 ÷ +90 °C
Filtrazione assoluta <i>Absolute filtration</i>	25 µ



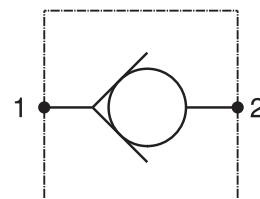
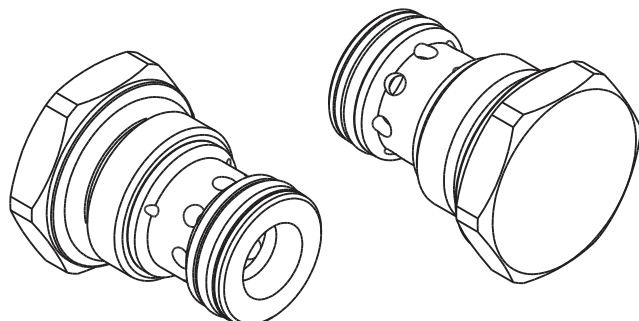
Sigla di ordinazione / Ordering code



For flow diagram see
 PRESSURE DROP CHECK VALVE (7)

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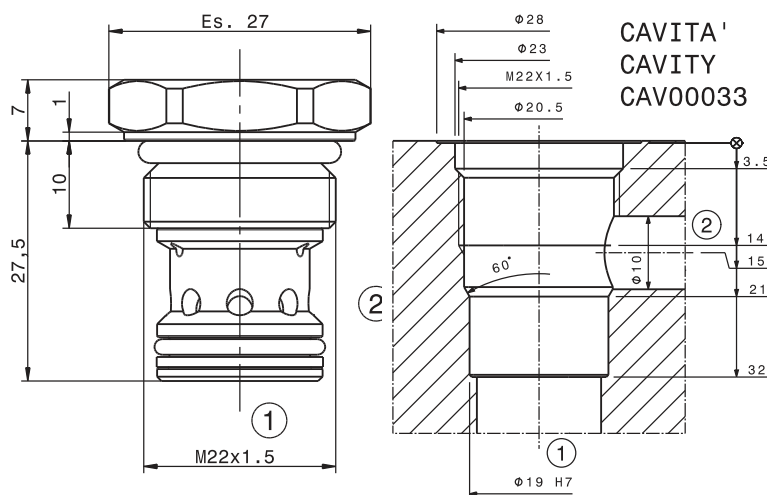
Valvola unidirezionale a cartuccia
Check valve – cartridge type
mod. VNR22-C



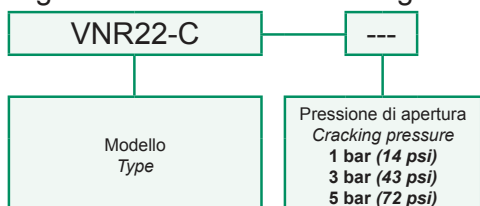
Portata massima <i>Max flow</i>	80 l/min 21 gpm
Pressione massima <i>Max pressure</i>	350 bar 5000 psi
Pressione di apertura <i>Cracking pressure</i>	1 bar - 14 psi 3 bar - 43 psi 5 bar - 73 psi
Coppia di serraggio <i>Installation torque</i>	45 ÷ 50 Nm 33 ÷ 37 lbf ft

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate <i>Recommended viscosity</i>	10 ÷ 420 cSt
Temperatura di lavoro <i>Working temperature</i>	-20 ÷ +90 °C
Filtrazione assoluta <i>Absolute filtration</i>	25 µ

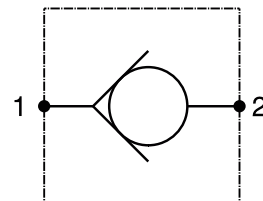
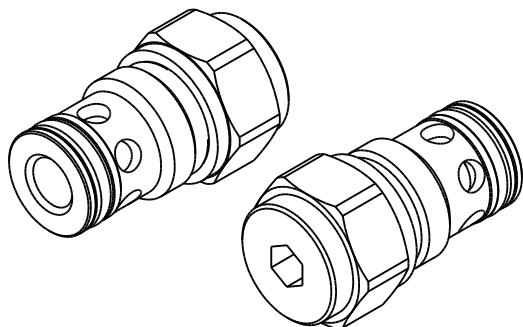


Sigla di ordinazione / Ordering code



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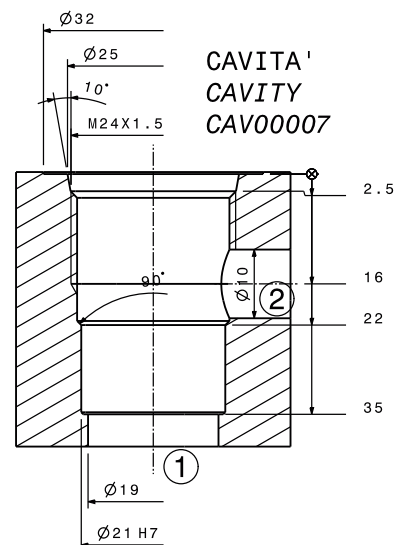
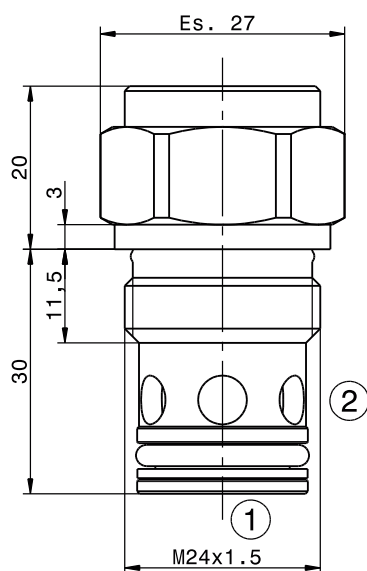
Valvola unidirezionale a cartuccia
Check valve – cartridge type
mod. VNR80-C



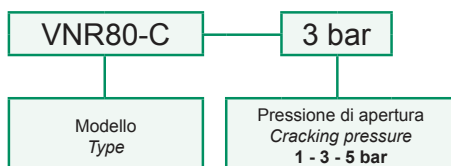
Portata massima <i>Max flow</i>	80 l/min 21 gpm
Pressione massima <i>Max pressure</i>	300 bar 4300 psi
Pressione di apertura <i>Cracking pressure</i>	1 bar 14 psi 3 bar 43 psi 5 bar 72 psi
Coppia di serraggio <i>Installation torque</i>	65 ÷ 70 Nm 49 ÷ 52 lb ft

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate <i>Recommended viscosity</i>	10 ÷ 420 cSt
Temperatura di lavoro <i>Working temperature</i>	-20 ÷ +90 °C
Filtrazione assoluta <i>Absolute filtration</i>	25 µ



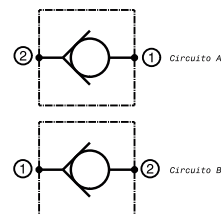
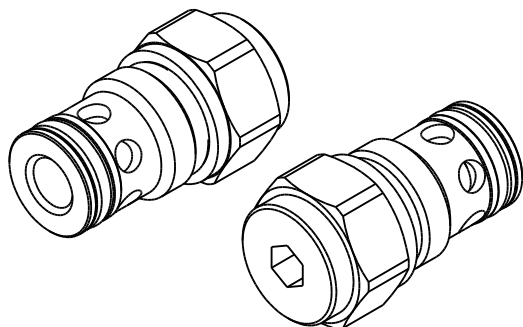
Sigla di ordinazione / Ordering code



For flow diagram see
PRESSURE DROP CHECK VALVE (2)

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

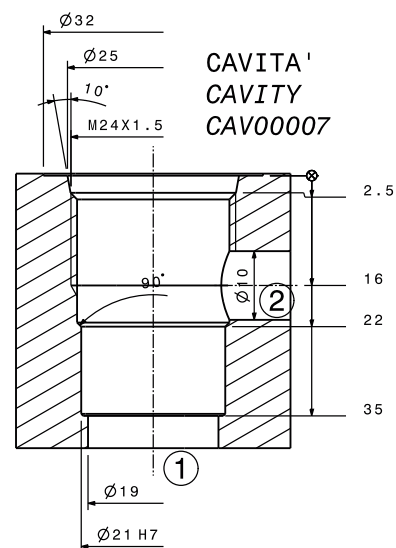
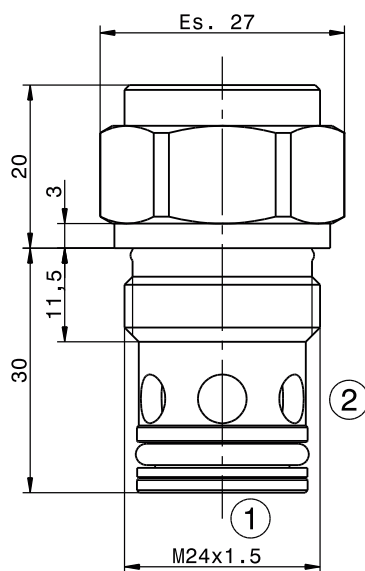
Valvola unidirezionale a cartuccia
Check valve – cartridge type
mod. VNRI80-C



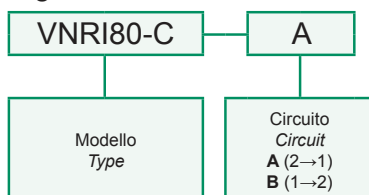
Portata massima <i>Max flow</i>	80 l/min <i>21 gpm</i>
Pressione massima <i>Max pressure</i>	300 bar <i>4300 psi</i>
Pressione di apertura <i>Cracking pressure</i>	0.5 bar 7.25 psi
Coppia di serraggio <i>Installation torque</i>	65 ÷ 70 Nm <i>49 ÷ 52 lb ft</i>

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate <i>Recommended viscosity</i>	10 ÷ 420 cSt
Temperatura di lavoro <i>Working temperature</i>	-20 ÷ +90 °C
Filtrazione assoluta <i>Absolute filtration</i>	25 µ



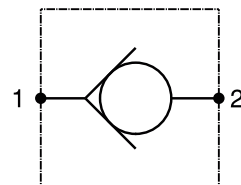
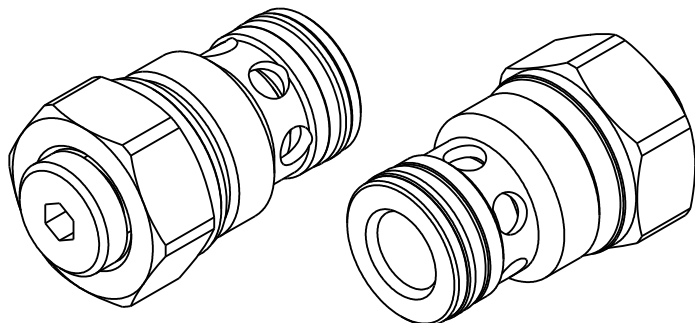
Sigla di ordinazione / Ordering code



For flow diagram see
 PRESSURE DROP CHECK VALVE (2)

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

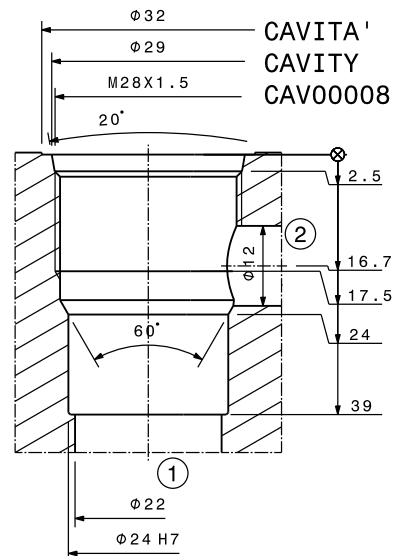
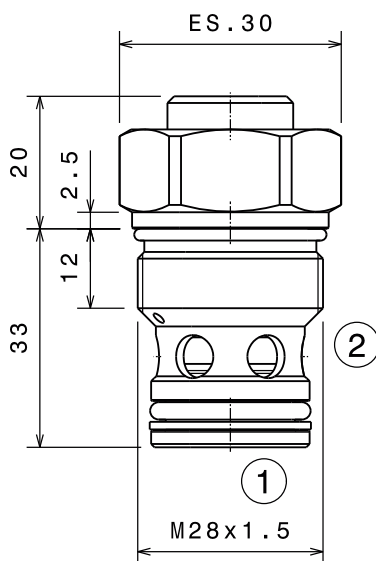
Valvola unidirezionale a cartuccia
Check valve – cartridge type
mod. VNR130-C



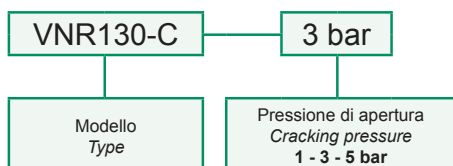
Portata massima <i>Max flow</i>	130 l/min 34 gpm
Pressione massima <i>Max pressure</i>	300 bar 4300 psi
Pressione di apertura <i>Cracking pressure</i>	1 bar 14 psi 3 bar 43 psi 5 bar 72 psi
Coppia di serraggio <i>Installation torque</i>	140 ÷ 160 Nm 105 ÷ 120 lb ft

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate <i>Recommended viscosity</i>	10 ÷ 420 cSt
Temperatura di lavoro <i>Working temperature</i>	-20 ÷ +90 °C
Filtrazione assoluta <i>Absolute filtration</i>	25 µ



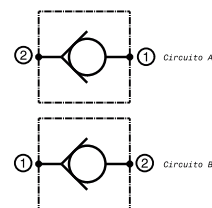
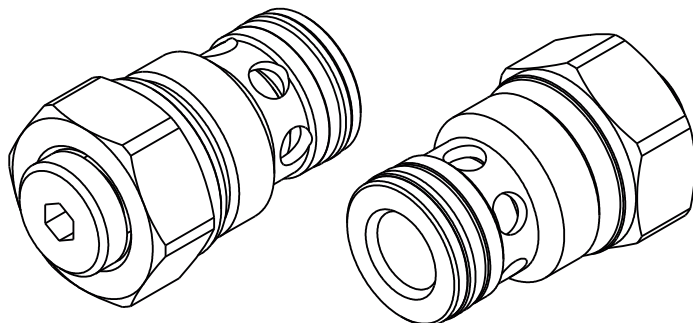
Sigla di ordinazione / Ordering code



For flow diagram see
 PRESSURE DROP CHECK VALVE (3)

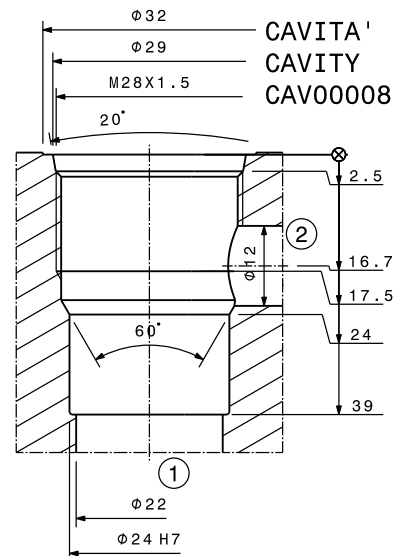
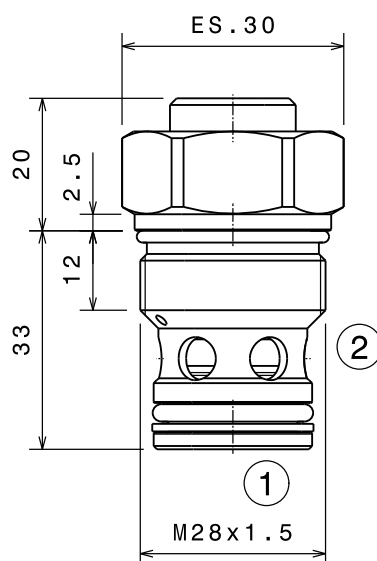
I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
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Valvola unidirezionale a cartuccia
Check valve – cartridge type
mod. VNRI130-C



Portata massima <i>Max flow</i>	130 l/min 34 gpm
Pressione massima <i>Max pressure</i>	300 bar 4300 psi
Pressione di apertura <i>Cracking pressure</i>	0.5 bar 7.25 psi
Coppia di serraggio <i>Installation torque</i>	140 ÷ 160 Nm 105 ÷ 120 lb ft

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C <i>Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C</i>	
Viscosità consigliate <i>Recommended viscosity</i>	10 ÷ 420 cSt
Temperatura di lavoro <i>Working temperature</i>	-20 ÷ +90 °C
Filtrazione assoluta <i>Absolute filtration</i>	25 µ



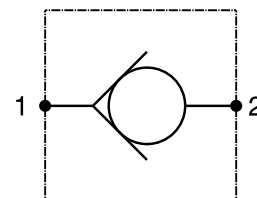
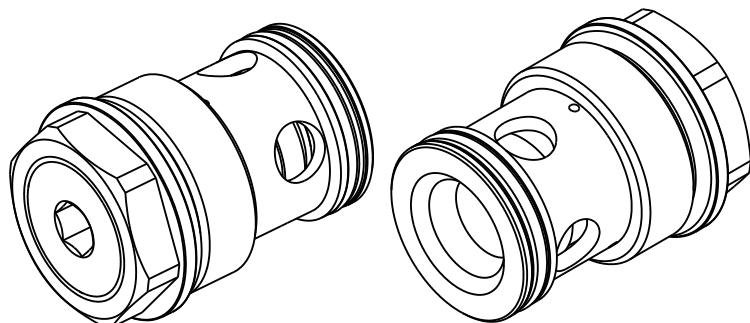
Sigla di ordinazione / Ordering code

VNRI130-C	A
Modello <i>Type</i>	Circuito <i>Circuit</i> A (2→1) B (1→2)

For flow diagram see
PRESSURE DROP CHECK VALVE (3)

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
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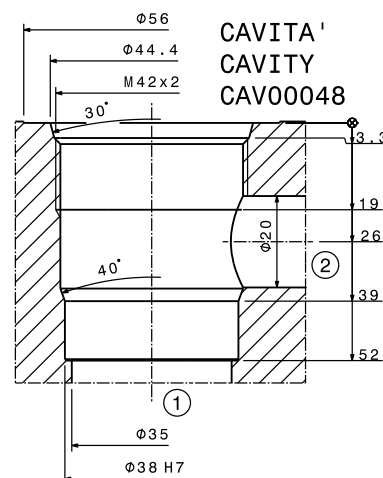
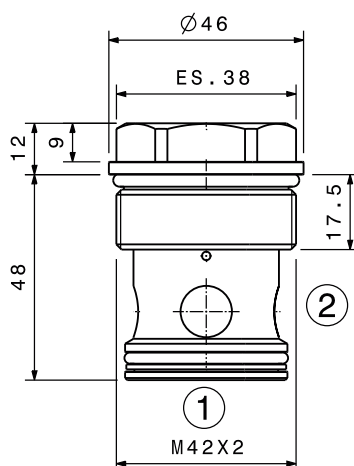
Valvola unidirezionale a cartuccia
Check valve – cartridge type
mod. VNR200-C



Portata massima <i>Max flow</i>	200 l/min 53 gpm
Pressione massima <i>Max pressure</i>	300 bar 4300 psi
Pressione di apertura <i>Cracking pressure</i>	0,5 bar 7 psi 1,5 bar 22 psi 3 bar 43 psi
Coppia di serraggio <i>Installation torque</i>	200 ÷ 220 Nm 150 ÷ 165 lb ft

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate <i>Recommended viscosity</i>	10 ÷ 420 cSt
Temperatura di lavoro <i>Working temperature</i>	-20 ÷ +90 °C
Filtrazione assoluta <i>Absolute filtration</i>	25 µ



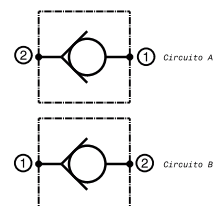
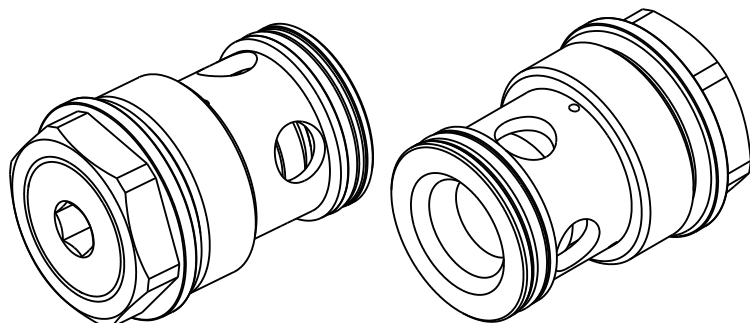
Sigla di ordinazione / Ordering code

VNR200-C	1,5 bar
Modello <i>Type</i>	Pressione di apertura <i>Cracking pressure</i> 0,5 - 1,5 - 3 bar

For flow diagram see
 PRESSURE DROP CHECK VALVE (3)

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
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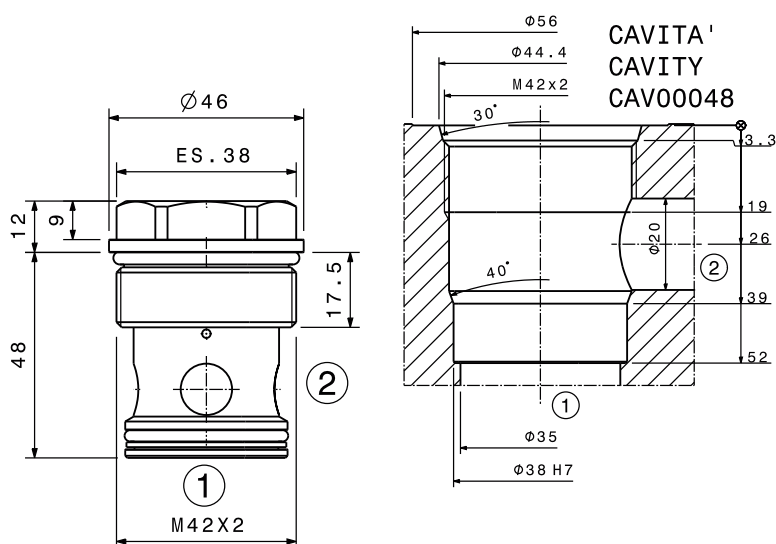
Valvola unidirezionale a cartuccia
Check valve – cartridge type
mod. VNRI200-C



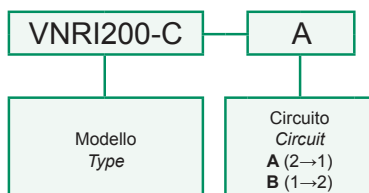
Portata massima <i>Max flow</i>	200 l/min <i>53 gpm</i>
Pressione massima <i>Max pressure</i>	300 bar <i>4300 psi</i>
Pressione di apertura <i>Cracking pressure</i>	0,5 bar 7.25 psi
Coppia di serraggio <i>Installation torque</i>	200 ÷ 220 Nm <i>150 ÷ 165 lb ft</i>

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate <i>Recommended viscosity</i>	10 ÷ 420 cSt
Temperatura di lavoro <i>Working temperature</i>	-20 ÷ +90 °C
Filtrazione assoluta <i>Absolute filtration</i>	25 µ



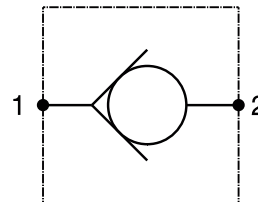
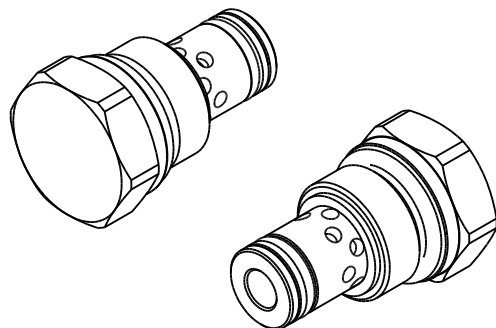
Sigla di ordinazione / Ordering code



For flow diagram see
PRESSURE DROP CHECK VALVE (3)

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
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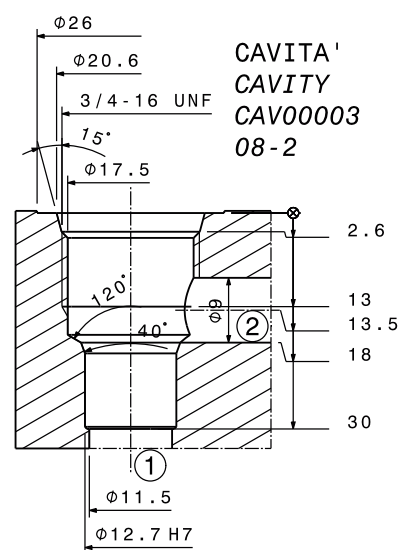
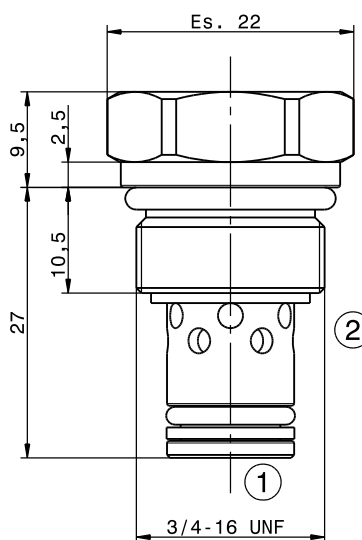
Valvola unidirezionale a cartuccia
Check valve – cartridge type
mod. VNR40-08-C



Portata massima <i>Max flow</i>	40 l/min 10.5 gpm
Pressione massima <i>Max pressure</i>	350 bar 5000 psi
Pressione di apertura <i>Cracking pressure</i>	0,5 bar 7 psi 2 bar 29 psi 3 bar 43.5 psi 5 bar 72.5 psi
Coppia di serraggio <i>Installation torque</i>	27 ÷ 30 Nm 20 ÷ 22.5 lb ft

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate <i>Recommended viscosity</i>	10 ÷ 420 cSt
Temperatura di lavoro <i>Working temperature</i>	-20 ÷ +90 °C
Filtrazione assoluta <i>Absolute filtration</i>	25 µ



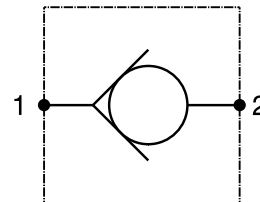
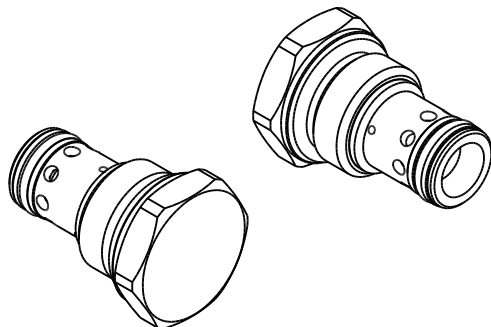
Sigla di ordinazione / Ordering code

VNR40-08-C	2 bar
Modello <i>Type</i>	Pressione di apertura <i>Cracking pressure</i> 0.5 - 2 - 3 - 5 bar

For flow diagram see
PRESSURE DROP CHECK VALVE (4)

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

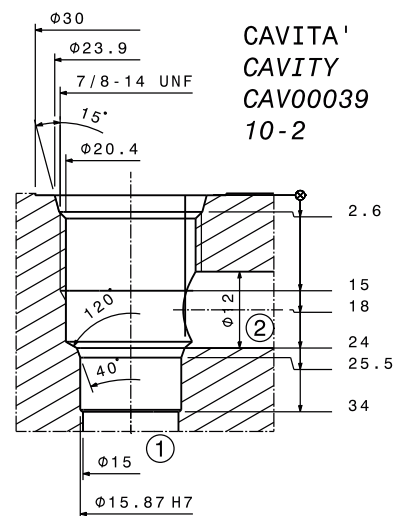
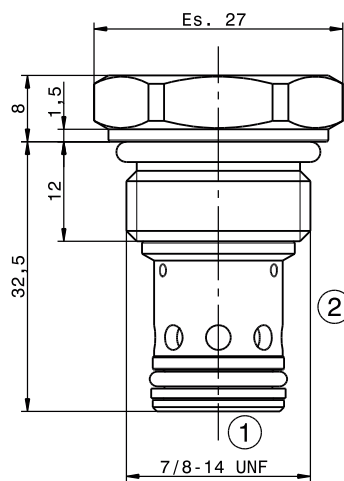
Valvola unidirezionale a cartuccia
Check valve – cartridge type
mod. VNR10-C



Portata massima <i>Max flow</i>	80 l/min 21 gpm
Pressione massima <i>Max pressure</i>	350 bar 5000 psi
Pressione di apertura <i>Cracking pressure</i>	1 bar - 14 psi 3 bar - 43 psi 5 bar - 73 psi
Coppia di serraggio <i>Installation torque</i>	45 ÷ 50 Nm 33 ÷ 37 lbf ft

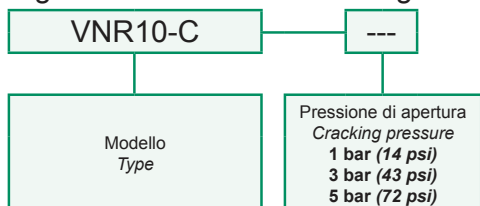
Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate <i>Recommended viscosity</i>	10 ÷ 420 cSt
Temperature di lavoro <i>Working temperature</i>	-20 ÷ +90 °C
Filtrazione assoluta <i>Absolute filtration</i>	25 µ



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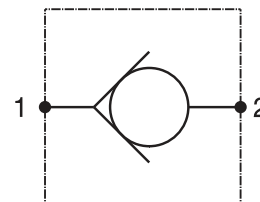
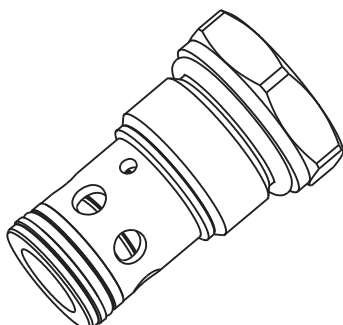
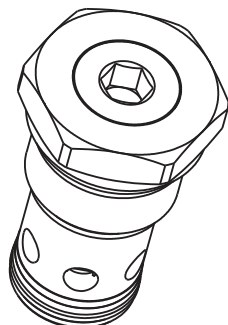
Sigla di ordinazione / Ordering code



For flow diagram see
PRESSURE DROP CHECK VALVE (5)

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
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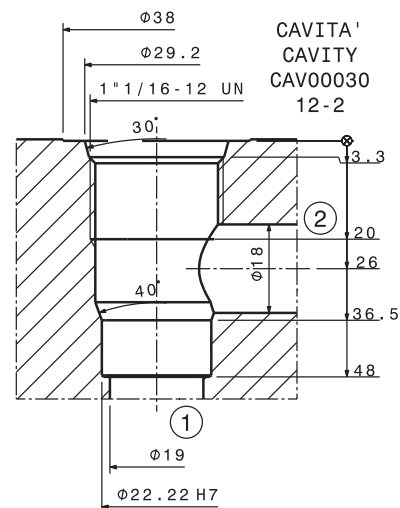
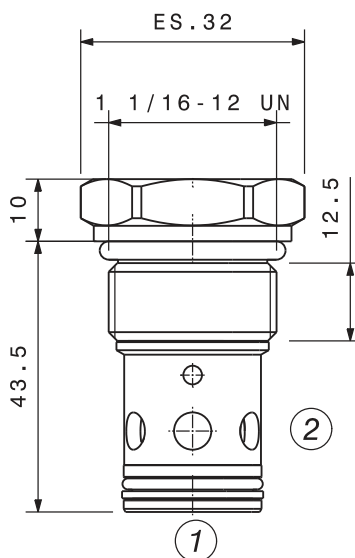
Valvola unidirezionale a cartuccia
Check valve – cartridge type
mod. VNR12-C



Portata massima <i>Max flow</i>	110 l/min 29 gpm
Pressione massima <i>Max pressure</i>	300 bar 4300 psi
Pressione di apertura <i>Cracking pressure</i>	1.5 bar 21 psi
Coppia di serraggio <i>Installation torque</i>	80 ÷ 100 Nm 60 ÷ 75 lb ft

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate <i>Recommended viscosity</i>	10 ÷ 420 cSt
Temperatura di lavoro <i>Working temperature</i>	-20 ÷ +90 °C
Filtrazione assoluta <i>Absolute filtration</i>	25 µ



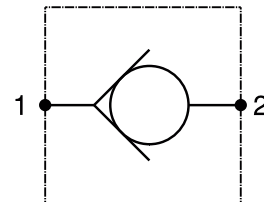
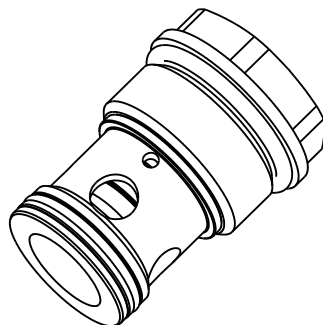
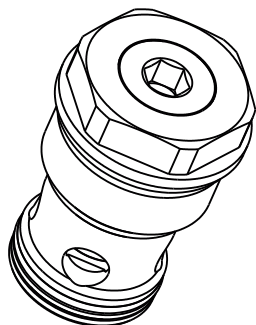
Sigla di ordinazione / Ordering code

VNR12-C

Modello
Type

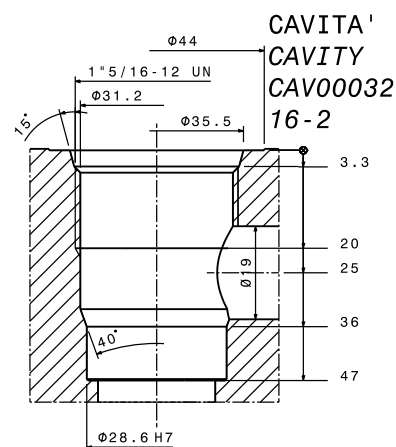
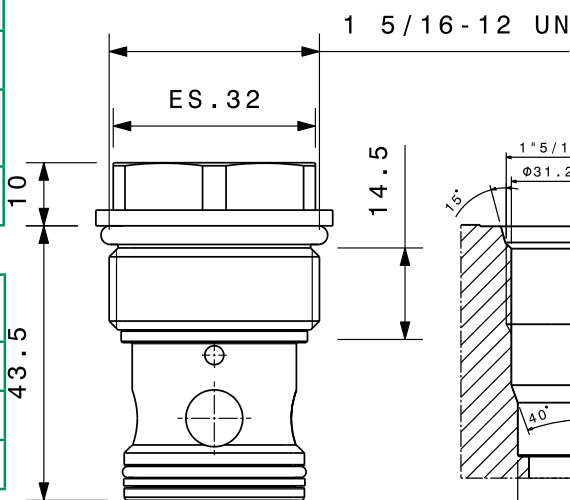
I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
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Valvola unidirezionale a cartuccia
Check valve – cartridge type
mod. VNR16-C



Portata massima <i>Max flow</i>	150 l/min <i>40 gpm</i>
Pressione massima <i>Max pressure</i>	300 bar <i>4300 psi</i>
Pressione di apertura <i>Cracking pressure</i>	1 bar 14.5 psi
Coppia di serraggio <i>Installation torque</i>	180 ÷ 210 Nm <i>130 ÷ 150 lb ft</i>

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C <i>Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C</i>	
Viscosità consigliate <i>Recommended viscosity</i>	10 ÷ 420 cSt
Temperatura di lavoro <i>Working temperature</i>	-20 ÷ +90 °C
Filtrazione assoluta <i>Absolute filtration</i>	25 µ



Sigla di ordinazione / Ordering code

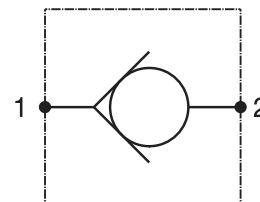
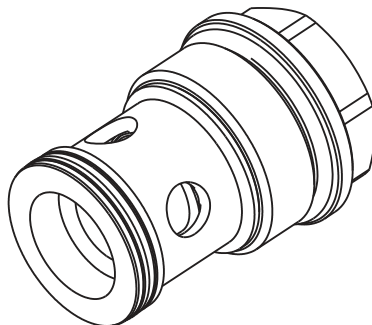
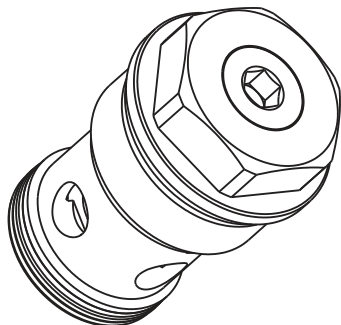
VNR16-C

Modello
Type

For flow diagram see
PRESSURE DROP CHECK VALVE (6)

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, **CBF** reserves the right to introduce modifications without notice.

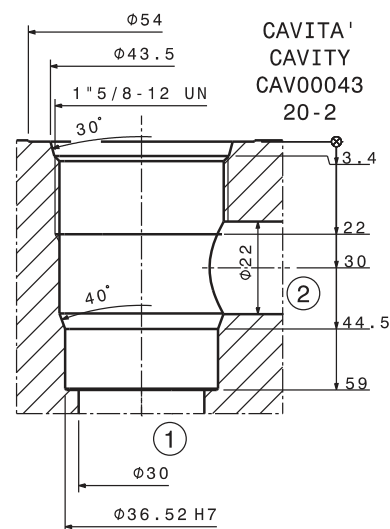
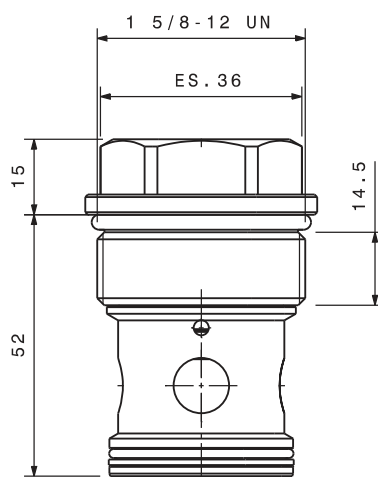
Valvola unidirezionale a cartuccia
Check valve – cartridge type
mod. VNR20-C



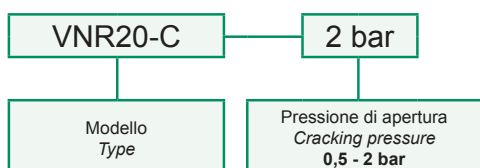
Portata massima <i>Max flow</i>	280 l/min 75 gpm
Pressione massima <i>Max pressure</i>	300 bar 4300 psi
Pressione di apertura <i>Cracking pressure</i>	0,5 bar 7 psi 2 bar 29 psi
Coppia di serraggio <i>Installation torque</i>	200 ÷ 220 Nm 150 ÷ 165 lb ft

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate <i>Recommended viscosity</i>	10 ÷ 420 cSt
Temperatura di lavoro <i>Working temperature</i>	-20 ÷ +90 °C
Filtrazione assoluta <i>Absolute filtration</i>	25 µ

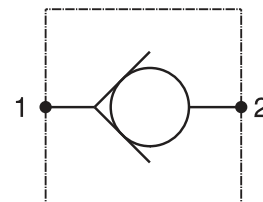
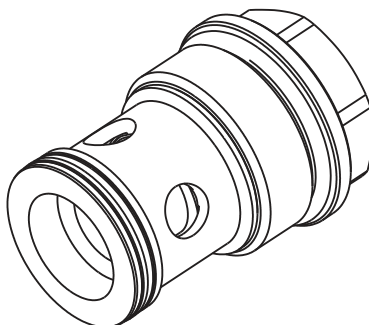
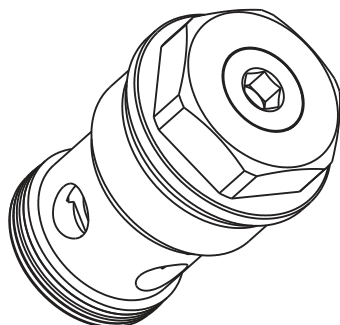


Sigla di ordinazione / Ordering code



I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

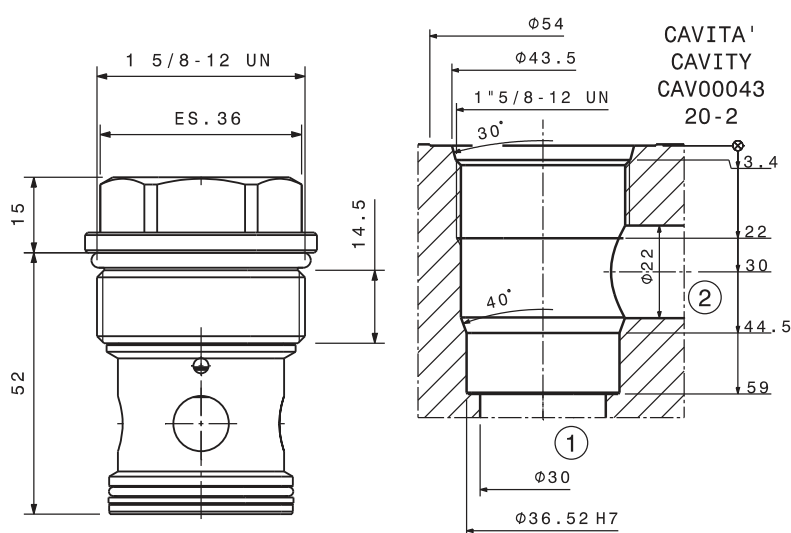
Valvola unidirezionale a cartuccia
Check valve – cartridge type
mod. VNR20-C-D23



Portata massima <i>Max flow</i>	360 l/min <i>95 gpm</i>
Pressione massima <i>Max pressure</i>	300 bar <i>4300 psi</i>
Pressione di apertura <i>Cracking pressure</i>	1 bar 14.5 psi 1.5 bar 22 psi
Coppia di serraggio <i>Installation torque</i>	200 ÷ 220 Nm <i>150 ÷ 165 lb ft</i>

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate <i>Recommended viscosity</i>	10 ÷ 420 cSt
Temperatura di lavoro <i>Working temperature</i>	-20 ÷ +90 °C
Filtrazione assoluta <i>Absolute filtration</i>	25 µ

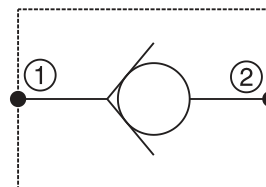
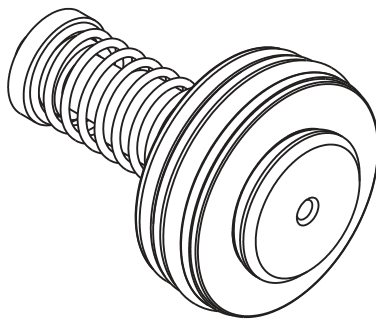
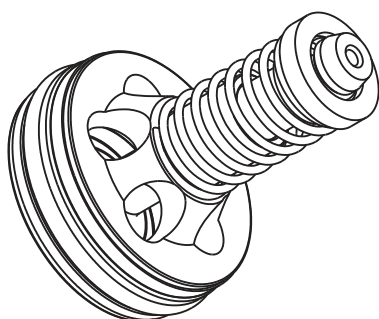


Sigla di ordinazione / Ordering code

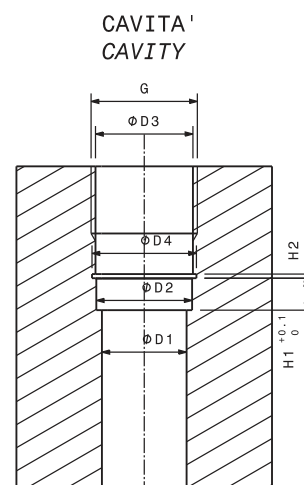
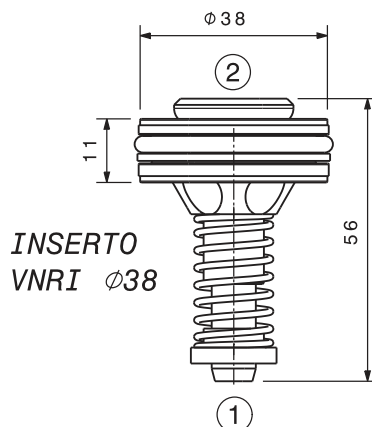
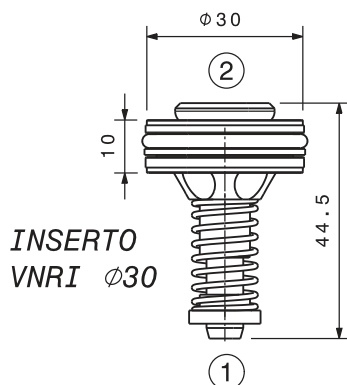
VNR20-C-D23	1 bar
Modello <i>Type</i>	Pressione di apertura <i>Cracking pressure</i> 1 - 1,5 bar

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

Valvola unidirezionale ad inserto
Check valve insert
mod. VNRI30 - VNRI38



Modello Type	Portata massima Max Flow	Pressione massima Max pressure
VNRI30	150 l/min 39.5 gpm	350 bar 5000 psi
VNRI38	300 l/min 79 gpm	350 bar 5000 psi
Pressione di apertura Cracking pressure		0.5 bar 7.3 psi



	D1	D2	D3	D4	H1	H2	G (Filetto Thread)
VNRI30	26.5	30H7	30.5	32.7	10	1.3	G 1"
VNRI38	34	38H7	39	41	11	1.6	G 1" 1/4

Sigla di ordinazione / Ordering code

VNRI30

Modello
Type
VNRI30
VNRI38

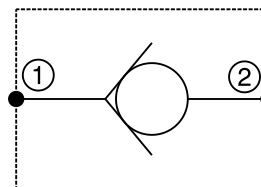
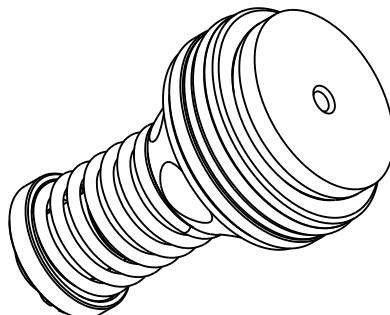
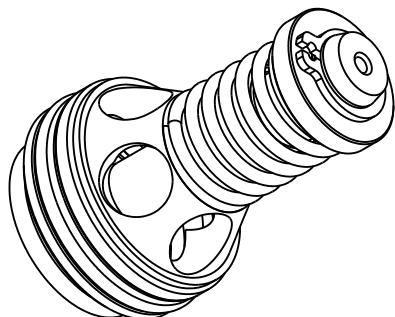
Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate Recommended viscosity	10 ÷ 420 cSt
Temperature di lavoro Working temperature	-20 ÷ +90 °C
Filtrazione assoluta Absolute filtration	25 µ

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, **CBF** reserves the right to introduce modifications without notice.

Valvola unidirezionale ad inserto
Check valve insert

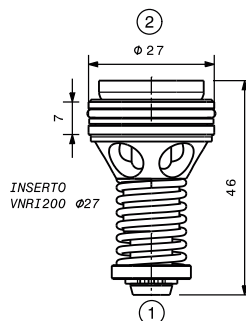
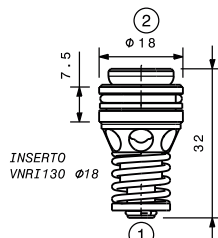
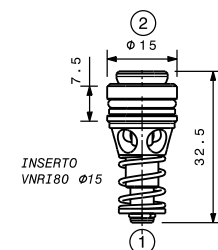
mod. VNRI80D15- VNRI130D18 - VNRI200D27



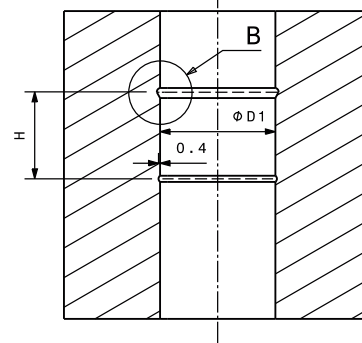
Modello Type	Portata massima Max Flow	Pressione massima Max pressure
VNRI80D15	90 l/min 23.5 gpm	350 bar 5000 psi
VNRI130D18	130 l/min 34 gpm	350 bar 5000 psi
VNRI200D27	200 l/min 53 gpm	350 bar 5000 psi

Pressione di apertura
Cracking pressure

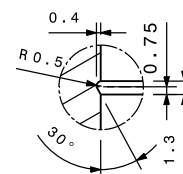
0.5 bar 7.3 psi



CAVITA'
 CAVITY



	D1	H
VNRI80 D.15	15 H7	10
VNRI130 D.18	18 H7	10
VNRI200 D.27	27 H7	9.5



Dettaglio B

Sigla di ordinazione / Ordering code

VNRI80D15

Modello
 Type
 VNRI80D15
 VNRI130D18
 VNRI200D27

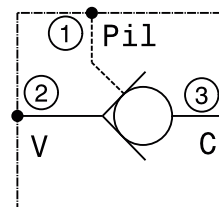
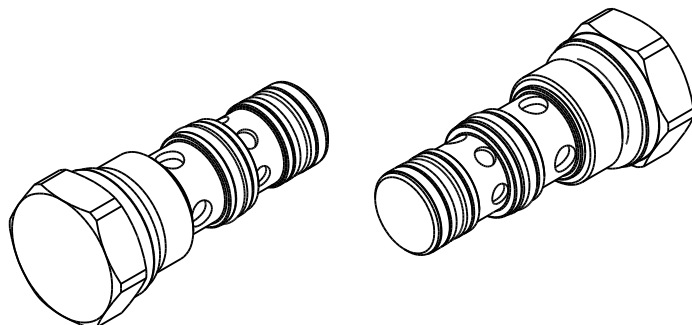
For flow diagram see
 PRESSURE DROP CHECK VALVE (9)

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
 Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate Recommended viscosity	10 ÷ 420 cSt
Temperature di lavoro Working temperature	-20 ÷ +90 °C
Filtrazione assoluta Absolute filtration	25 µ

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
 The specifications are not binding, **CBF** reserves the right to introduce modifications without notice.

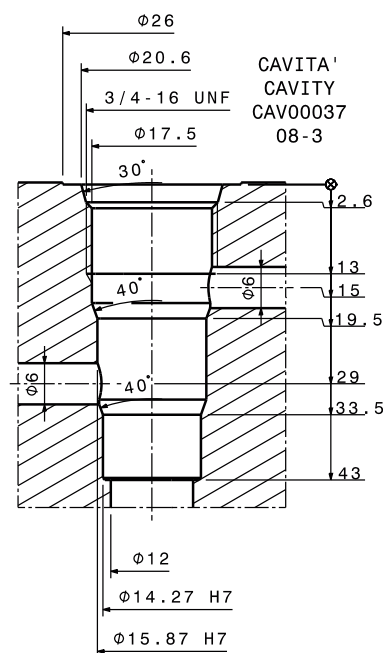
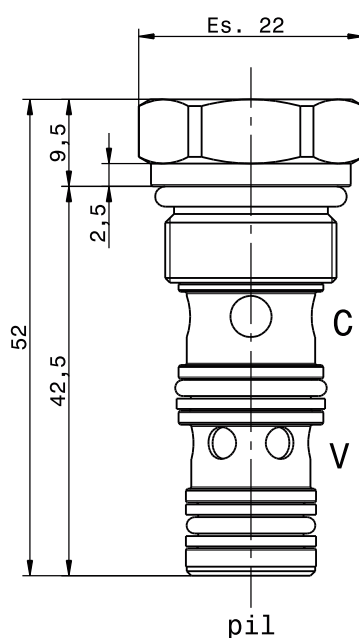
Valvola unidirezionale pilotata a cartuccia
Pilot operated check valve – cartridge type
mod. VBP20-08-C



Portata massima <i>Max flow</i>	20 l/min <i>5.3 gpm</i>
Pressione massima <i>Max pressure</i>	350 bar <i>5000 psi</i>
Rapporto di pilotaggio <i>Pilot Ratio</i>	3:1
Pressione di apertura <i>Cracking pressure</i>	3 bar 43 psi
Coppia di serraggio <i>Installation torque</i>	30 ÷ 35 Nm <i>22.5 ÷ 26 lbf ft</i>

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate <i>Recommended viscosity</i>	10 ÷ 420 cSt
Temperatura di lavoro <i>Working temperature</i>	-20 ÷ +90 °C
Filtrazione assoluta <i>Absolute filtration</i>	25 µ



Sigla di ordinazione / Ordering code

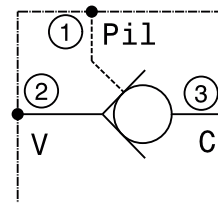
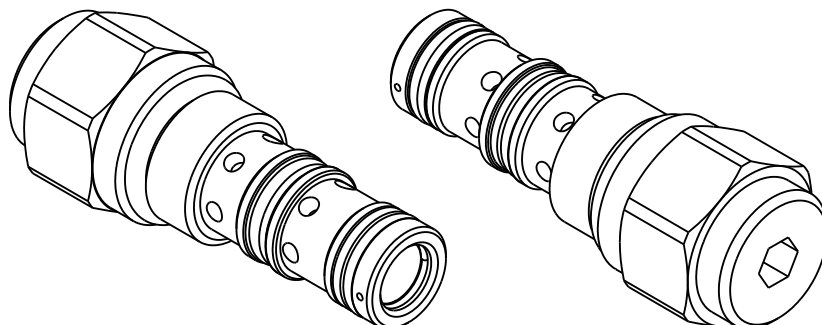
VBP20-08-C

Modello
Type

For flow diagram see
PRESSURE DROP CHECK VALVE (10)

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

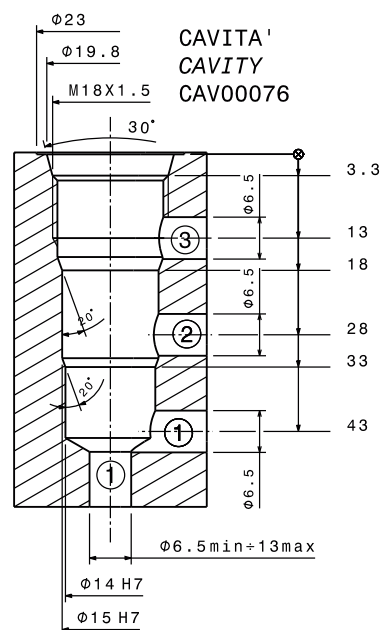
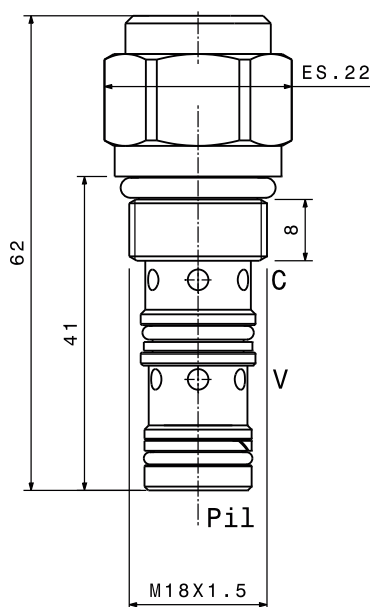
Valvola unidirezionale pilotata a cartuccia
Pilot operated check valve – cartridge type
mod. VBP20-C



Portata massima <i>Max flow</i>	20 l/min <i>5.3 gpm</i>
Pressione massima <i>Max pressure</i>	350 bar <i>5000 psi</i>
Rapporto di pilotaggio <i>Pilot Ratio</i>	3:1
Pressione di apertura <i>Cracking pressure</i>	4 bar 58 psi
Coppia di serraggio <i>Installation torque</i>	30 ÷ 35 Nm <i>22.5 ÷ 26 lbf ft</i>

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliata <i>Recommended viscosity</i>	10 ÷ 420 cSt
Temperatura di lavoro <i>Working temperature</i>	-20 ÷ +90 °C
Filtrazione assoluta <i>Absolute filtration</i>	25 µ



Sigla di ordinazione / Ordering code

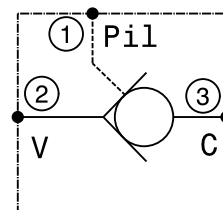
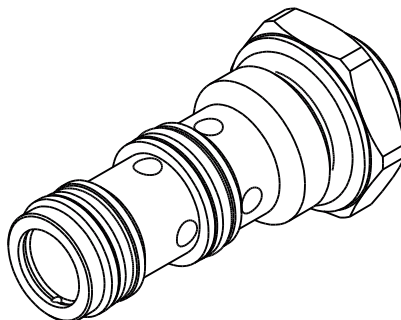
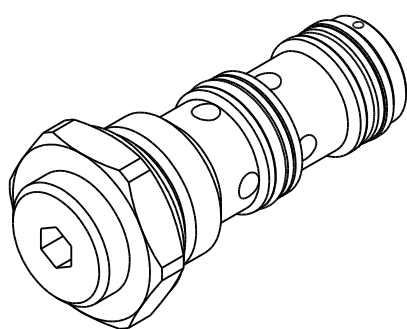
VBP20-C

Modello
Type

For flow diagram see
 PRESSURE DROP CHECK VALVE (10)

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
 The specifications are not binding, **CBF** reserves the right to introduce modifications without notice.

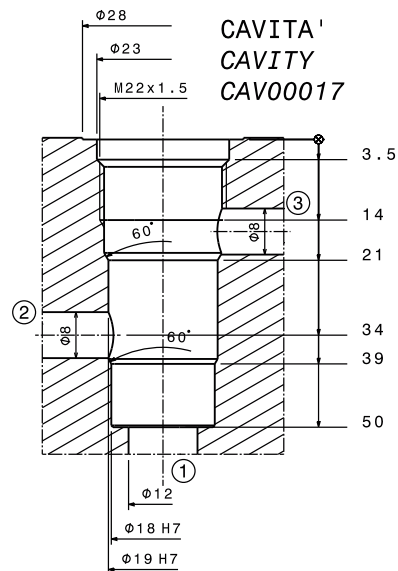
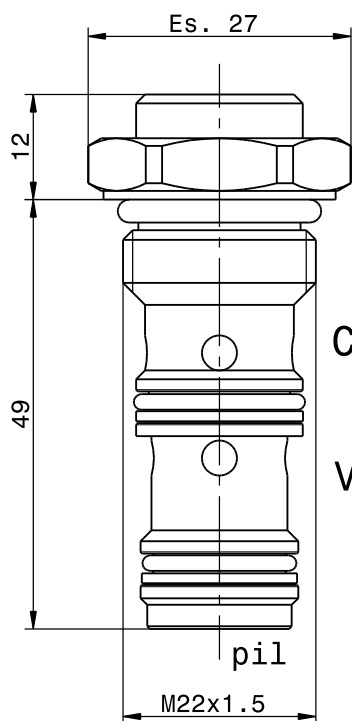
Valvola unidirezionale pilotata a cartuccia
Pilot operated check valve – cartridge type
mod. VBP40-C



Portata massima <i>Max flow</i>	40 l/min 10.5 gpm
Pressione massima <i>Max pressure</i>	350 bar 5000 psi
Rapporto di pilotaggio <i>Pilot Ratio</i>	3,4:1
Pressione di apertura <i>Cracking pressure</i>	3 bar 43 psi
Coppia di serraggio <i>Installation torque</i>	65 ÷ 70 Nm 49 ÷ 52 lbf ft

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate <i>Recommended viscosity</i>	10 ÷ 420 cSt
Temperatura di lavoro <i>Working temperature</i>	-20 ÷ +90 °C
Filtrazione assoluta <i>Absolute filtration</i>	25 µ



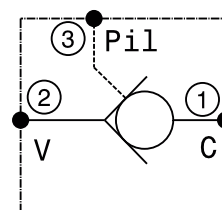
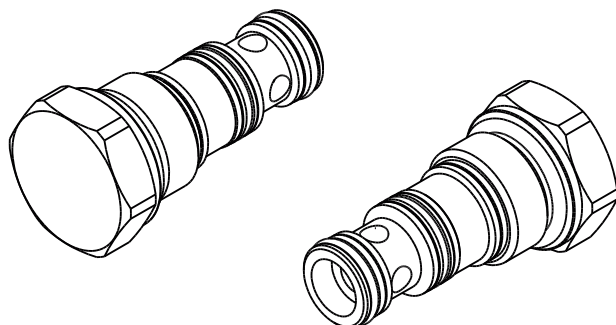
Sigla di ordinazione / Ordering code

VBP40-C	-
Modello <i>Type</i>	- SENZA O-RING WITHOUT O-RING OR SUL PISTONE O-RING SUL PISTONE PILOTAGGIO O-RING ON PILOT PISTON

For flow diagram see
 PRESSURE DROP CHECK VALVE (15)

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

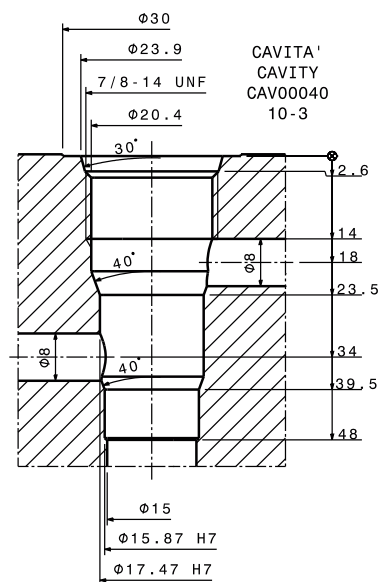
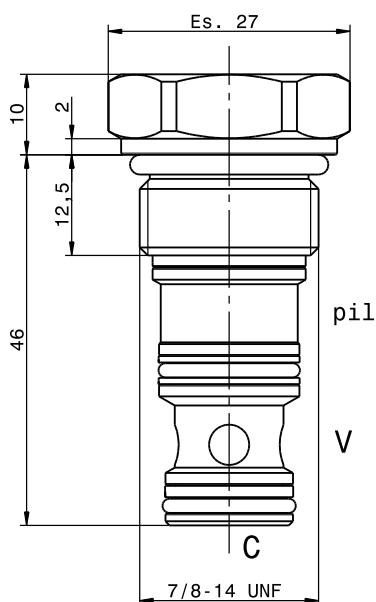
Valvola unidirezionale pilotata a cartuccia
Pilot operated check valve – cartridge type
mod. VBP60-10-C-P3



Portata massima <i>Max flow</i>	60 l/min <i>16 gpm</i>
Pressione massima <i>Max pressure</i>	350 bar <i>5000 psi</i>
Rapporto di pilotaggio <i>Pilot Ratio</i>	4:1
Pressione di apertura <i>Cracking pressure</i>	1 bar 14 psi
Coppia di serraggio <i>Installation torque</i>	50 ÷ 60 Nm <i>37 ÷ 45 lbf ft</i>

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate <i>Recommended viscosity</i>	10 ÷ 420 cSt
Temperatura di lavoro <i>Working temperature</i>	-20 ÷ +90 °C
Filtrazione assoluta <i>Absolute filtration</i>	25 µ



Sigla di ordinazione / Ordering code

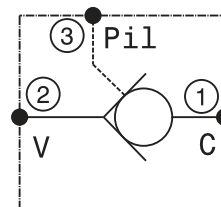
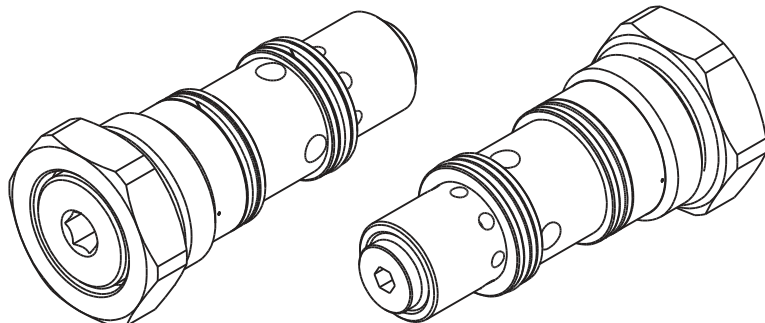
VBP60-10-C-P3

Modello
Type

For flow diagram see
PRESSURE DROP CHECK VALVE (16)

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

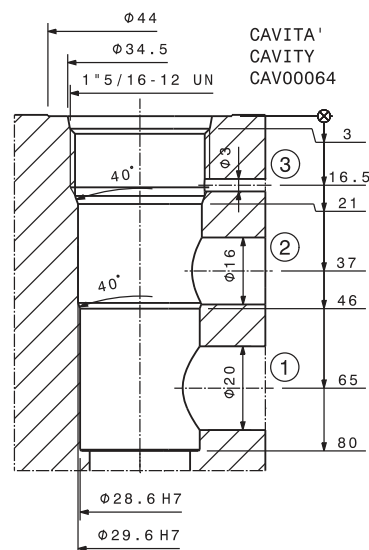
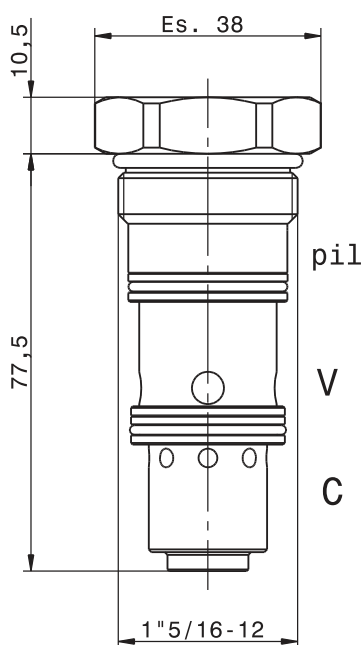
Valvola unidirezionale pilotata a cartuccia
Pilot operated check valve – cartridge type
mod. VBP90-C



Portata massima <i>Max flow</i>	90 l/min <i>24 gpm</i>
Pressione massima <i>Max pressure</i>	350 bar <i>5000 psi</i>
Rapporto di pilotaggio <i>Pilot Ratio</i>	4:1
Pressione di apertura <i>Cracking pressure</i>	0,5 bar 7.2 psi
Coppia di serraggio <i>Installation torque</i>	180 ÷ 200 Nm <i>135 ÷ 150 lbf ft</i>

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate <i>Recommended viscosity</i>	10 ÷ 420 cSt
Temperatura di lavoro <i>Working temperature</i>	-20 ÷ +90 °C
Filtrazione assoluta <i>Absolute filtration</i>	25 µ

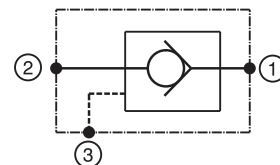
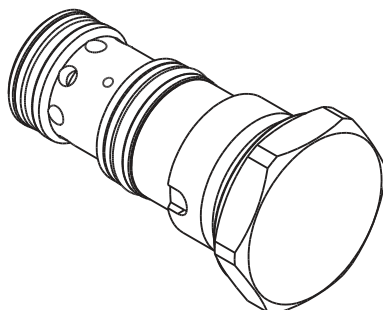
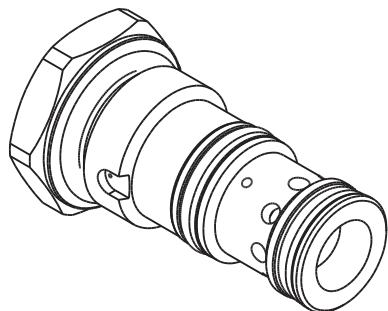


Sigla di ordinazione / Ordering code

VBP90-C	-
Modello <i>Type</i>	SENZA O-RING <i>WITHOUT O-RING</i> OR SUL PISTONE <i>O-RING ON PILOT PISTON</i>

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

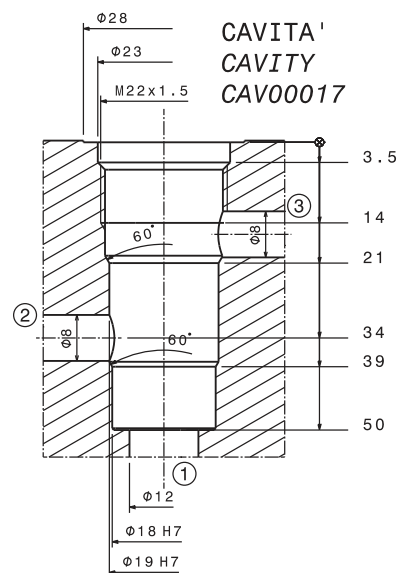
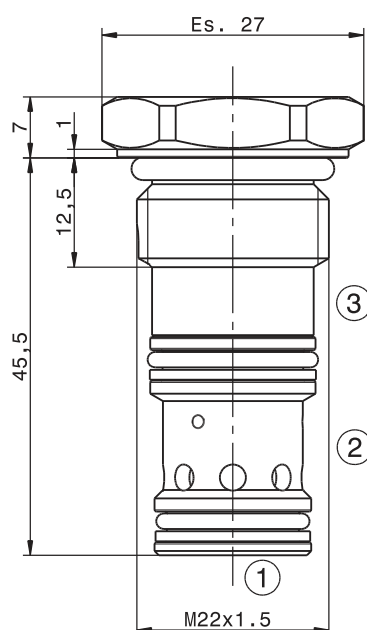
Valvola di blocco pilotata in chiusura a cartuccia
Check valve, pilot to close – cartridge type
mod. VBPC-22-C



Portata massima <i>Max flow</i>	60 l/min <i>16 gpm</i>
Pressione massima <i>Max pressure</i>	350 bar <i>5000 psi</i>
Rapporto di pilotaggio <i>Pilot Ratio</i>	1,5:1
Pressione di apertura <i>Cracking pressure</i>	3,5 bar 50 psi
Coppia di serraggio <i>Installation torque</i>	40 ÷ 45 Nm <i>30 ÷ 34 lbf ft</i>

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate <i>Recommended viscosity</i>	10 ÷ 420 cSt
Temperatura di lavoro <i>Working temperature</i>	-20 ÷ +90 °C
Filtrazione assoluta <i>Absolute filtration</i>	25 µ



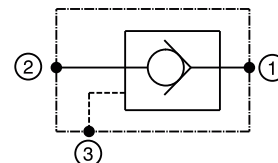
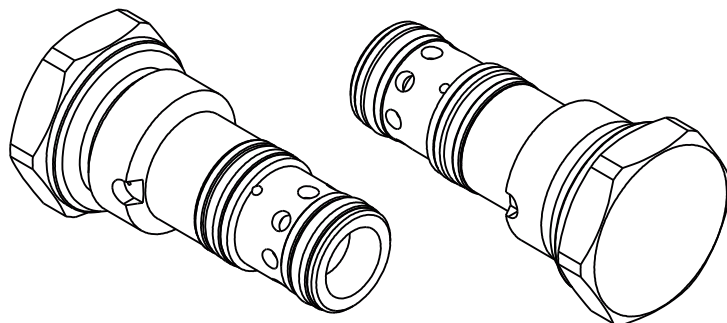
Sigla di ordinazione / Ordering code

VBPC-22-C

Modello
Type

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

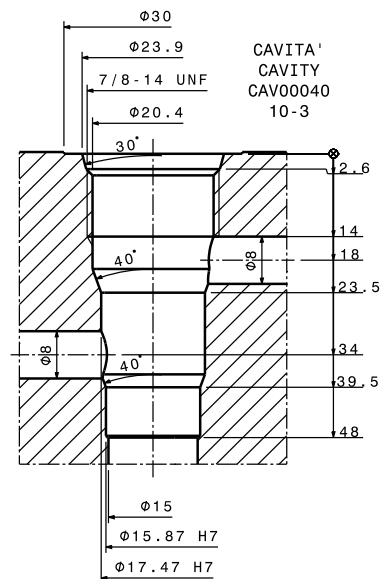
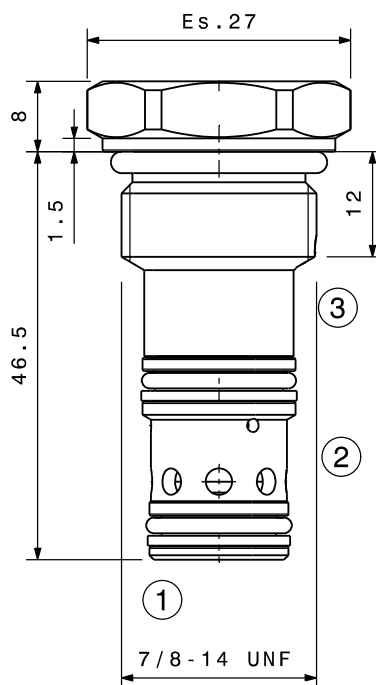
Valvola di blocco pilotata in chiusura a cartuccia
Check valve, pilot to close – cartridge type
mod. VBPC-10-C



Portata massima <i>Max flow</i>	60 l/min <i>16 gpm</i>
Pressione massima <i>Max pressure</i>	350 bar <i>5000 psi</i>
Rapporto di pilotaggio <i>Pilot Ratio</i>	1,5:1
Pressione di apertura <i>Cracking pressure</i>	3,5 bar 50 psi
Coppia di serraggio <i>Installation torque</i>	40 ÷ 45 Nm 30 ÷ 34 lbf ft

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate <i>Recommended viscosity</i>	10 ÷ 420 cSt
Temperatura di lavoro <i>Working temperature</i>	-20 ÷ +90 °C
Filtrazione assoluta <i>Absolute filtration</i>	25 µ



Sigla di ordinazione / Ordering code

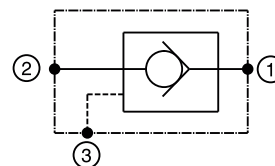
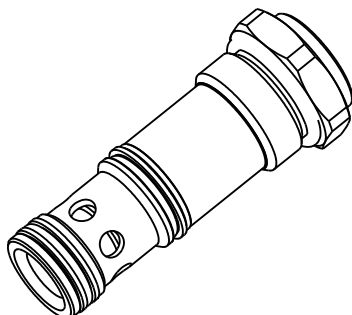
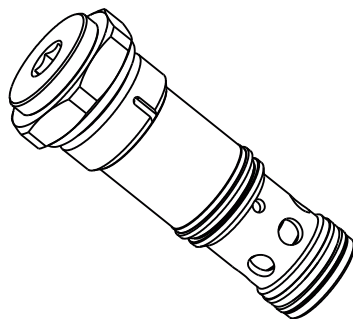
VBPC-10-C

Modello
Type

For flow diagram see
PRESSURE DROP CHECK VALVE (13)

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

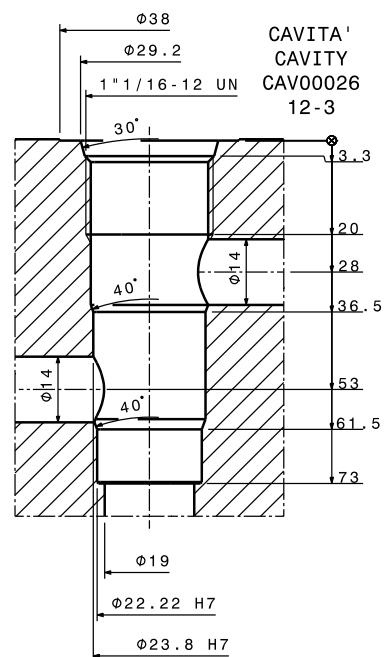
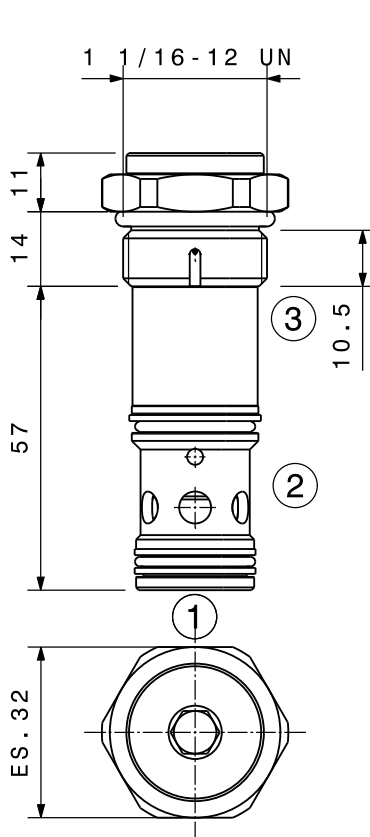
Valvola di blocco pilotata in chiusura a cartuccia
Check valve, pilot to close – cartridge type
mod. VBPC-12-C



Portata massima <i>Max flow</i>	110 l/min 29 gpm
Pressione massima <i>Max pressure</i>	350 bar 5000 psi
Rapporto di pilotaggio <i>Pilot Ratio</i>	1,9:1
Pressione di apertura <i>Cracking pressure</i>	1 bar 14.5 psi
Coppia di serraggio <i>Installation torque</i>	110 ÷ 120 Nm 82 ÷ 90 lbf ft

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate <i>Recommended viscosity</i>	10 ÷ 420 cSt
Temperatura di lavoro <i>Working temperature</i>	-20 ÷ +90 °C
Filtrazione assoluta <i>Absolute filtration</i>	25 µ



Sigla di ordinazione / Ordering code

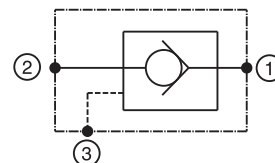
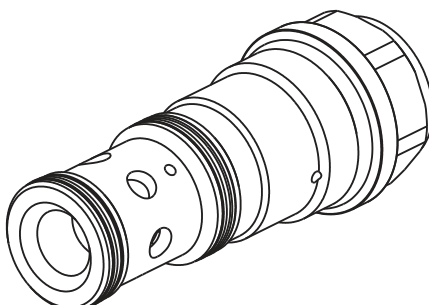
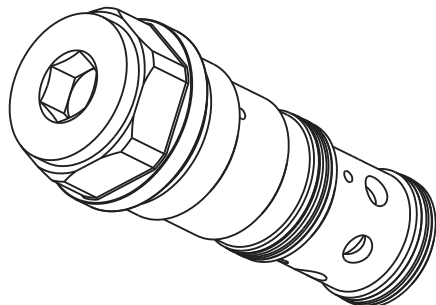
VBPC-12-C

Modello
Type

For flow diagram see
PRESSURE DROP CHECK VALVE (14)

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

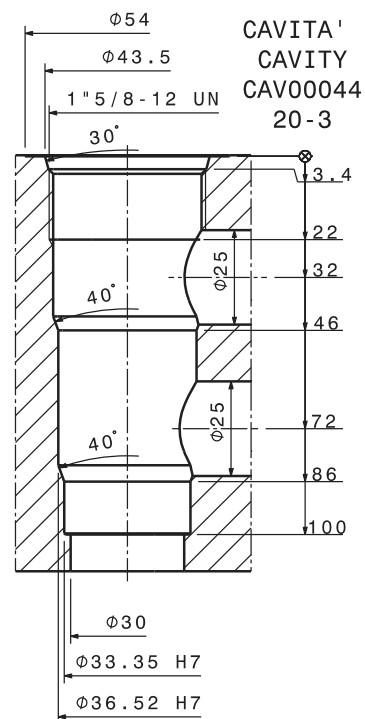
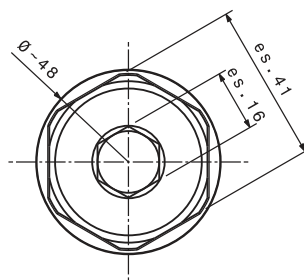
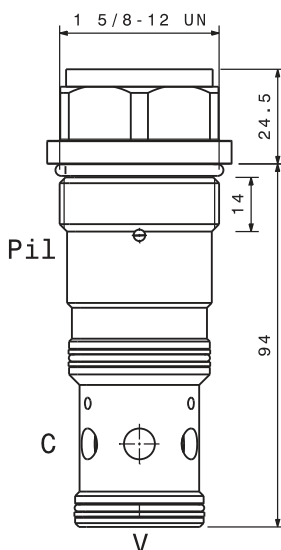
Valvola di blocco pilotata in chiusura a cartuccia
Check valve, pilot to close – cartridge type
mod. VBPC-20-C



Portata massima <i>Max flow</i>	150 l/min <i>40 gpm</i>
Pressione massima <i>Max pressure</i>	350 bar <i>5000 psi</i>
Rapporto di pilotaggio <i>Pilot Ratio</i>	2:1
Pressione di apertura <i>Cracking pressure</i>	2 bar 29 psi
Coppia di serraggio <i>Installation torque</i>	230 ÷ 250 Nm <i>170 ÷ 190 lbf ft</i>

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate <i>Recommended viscosity</i>	10 ÷ 420 cSt
Temperatura di lavoro <i>Working temperature</i>	-20 ÷ +90 °C
Filtrazione assoluta <i>Absolute filtration</i>	25 µ



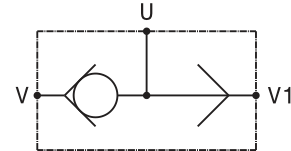
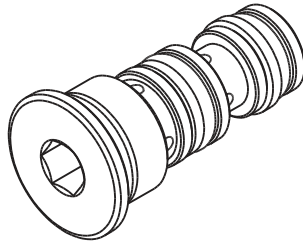
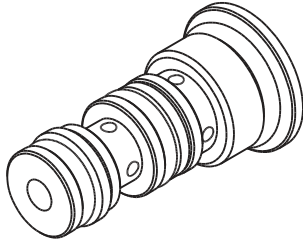
Sigla di ordinazione / Ordering code

VBPC-20-C

Modello
Type

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

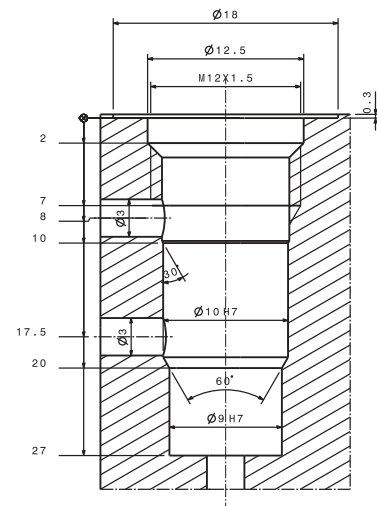
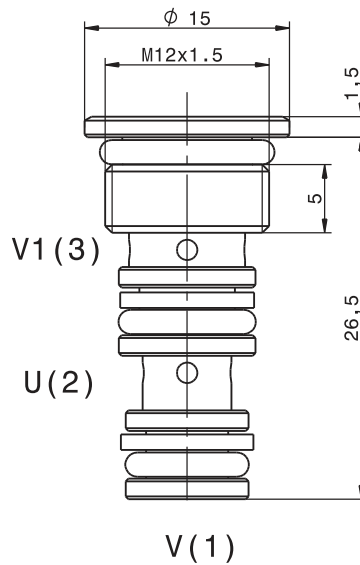
Valvola selettoria a cartuccia
Shuttle valve – cartridge type
mod. VS03-C M12x1.5



Portata massima <i>Max flow</i>	3 l/min <i>0.8 gpm</i>
Pressione massima <i>Max pressure</i>	350 bar <i>5000 psi</i>
Coppia di serraggio <i>Installation torque</i>	12 ÷ 15 Nm <i>9 ÷ 11 lbf ft</i>

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil
with 30 cSt viscosity at 50°C

Viscosità consigliate <i>Recommended viscosity</i>	10 ÷ 420 cSt
Temperature di lavoro <i>Working temperature</i>	-20 ÷ +90 °C
Filtrazione assoluta <i>Absolute filtration</i>	25 µ



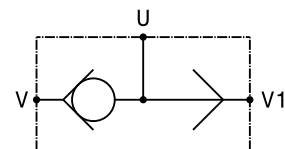
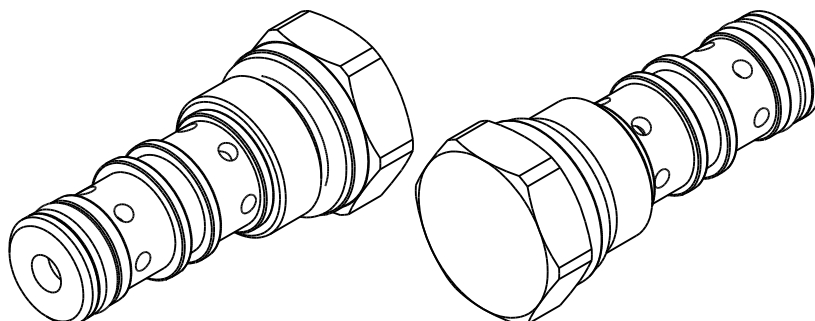
Sigla di ordinazione / Ordering code

VS03-C M12X1.5

Modello
Type

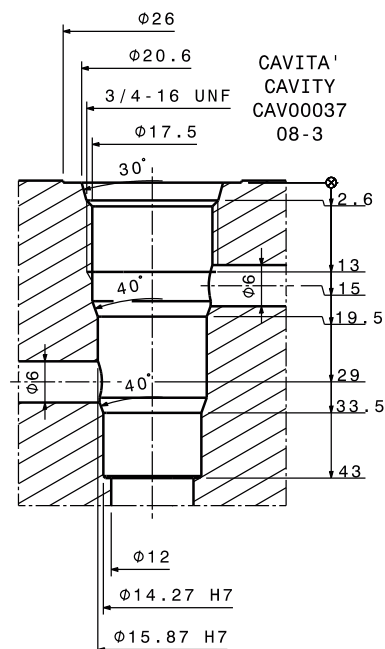
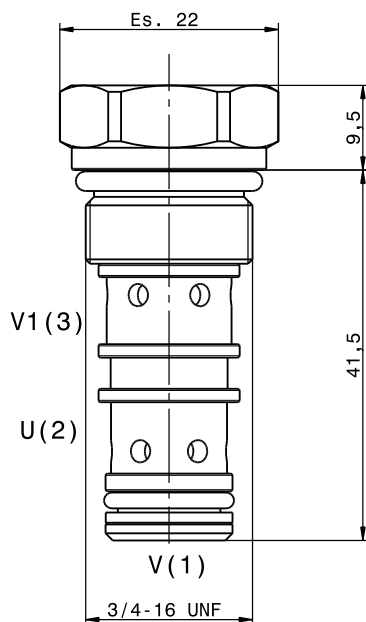
I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding. CBF reserves the right to introduce modifications without notice.

Valvola selettoria a cartuccia
 Shuttle valve – cartridge type
 mod. VS25-08-C



Portata massima Max flow	25 l/min 6.6 gpm
Pressione massima Max pressure	350 bar 5000 psi
Coppia di serraggio Installation torque	30 ÷ 35 Nm 22.5 ÷ 26 lbf ft

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C	
Viscosità consigliata Recommended viscosity	10 ÷ 420 cSt
Temperatura di lavoro Working temperature	-20 ÷ +90 °C
Filtrazione assoluta Absolute filtration	25 µ



Sigla di ordinazione / Ordering code

VS25-08-C

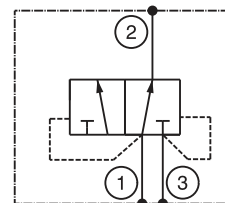
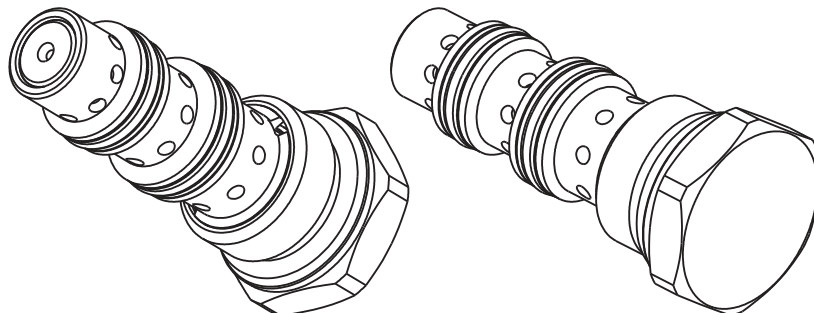
Modello
Type

For flow diagram see
 PRESSURE DROP CHECK VALVE (17)

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
 The specifications are not binding, **CBF** reserves the right to introduce modifications without notice.

Valvola selettoria a spola a tre vie, due posizioni
Two Position, 3 Way Shuttle Valve – spool type

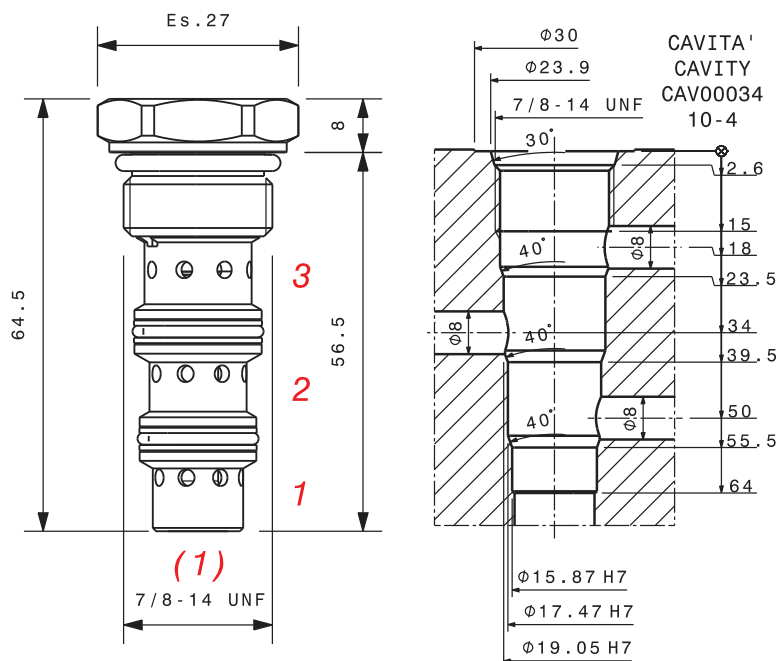
mod. VHS10-C



Portata massima <i>Max flow</i>	60 l/min <i>16 gpm</i>
Pressione massima <i>Max pressure</i>	350 bar <i>5000 psi</i>
Coppia di serraggio <i>Installation torque</i>	35 ÷ 40 Nm <i>26 ÷ 30 lbf ft</i>

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate <i>Recommended viscosity</i>	10 ÷ 420 cSt
Temperatura di lavoro <i>Working temperature</i>	-20 ÷ +90 °C
Filtrazione assoluta <i>Absolute filtration</i>	25 µ



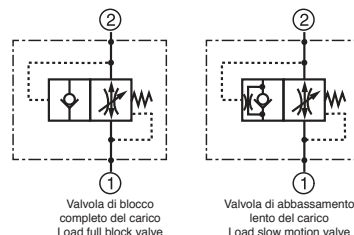
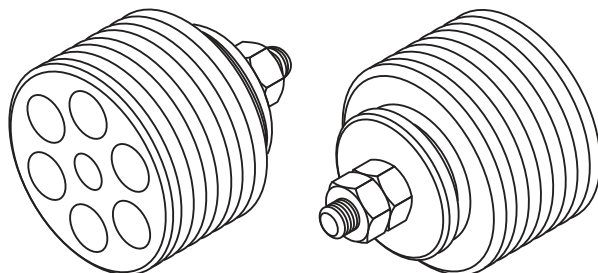
Sigla di ordinazione / Ordering code

VHS10-C

Modello
Type

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

Valvola paracadute
Screw-in cartridge hose burst valve
mod. VPN

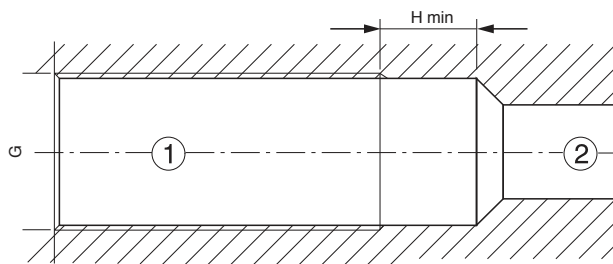
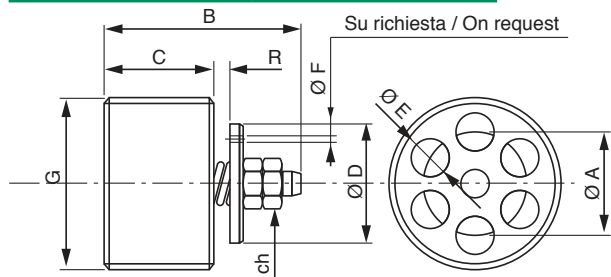
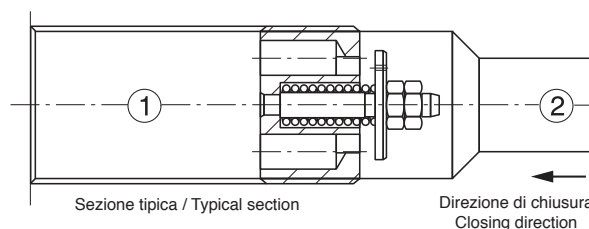


Dopo il nostro montaggio le valvole risultano regolate rispettivamente a circa 0.5mm (per G=1/4" gas e G=3/8" gas) e 0.7mm (per G=1/2" gas e G=3/4" gas).

After our assembly procedure the valves are respectively set at about 0.5mm (for G=1/4" gas and G=3/8" gas) and 0.7mm (for G=1/2" gas and G=3/4" gas).

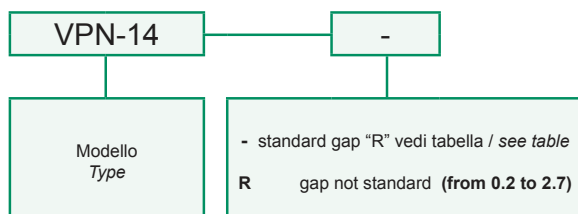
Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate Recommended viscosity	10 ÷ 420 cSt
Temperature di lavoro Working temperature	-20 ÷ +90 °C
Filtrazione assoluta Absolute filtration	25 µ



Modello Type	G	A	B	C	D	E	H	R	ch	Coppia di serraggio Torque	Portata max Max flow	Pressione massima Max pressure
VPN-14	1/4"GAS	8.5	17.5	8	9.5	2.4	11	0.5	5.5	2 Nm 1.5 lb ft	25 l/min 6.6 gpm	350 bar 5000 psi
VPN-38	3/8"GAS	10.5	23	10.5	12.5	3.5	11	0.5	5.5	3 Nm 2.25 lb ft	50 l/min 13 gpm	350 bar 5000 psi
VPN-12	1/2"GAS	13	25	12	15	4.5	15	0.7	7	4 Nm 3 lb ft	80 l/min 21 gpm	350 bar 5000 psi
VPN-34	3/4"GAS	16	30.5	17	18	6	16	0.7	7	10 Nm 7.5 lb ft	150 l/min 40 gpm	350 bar 5000 psi

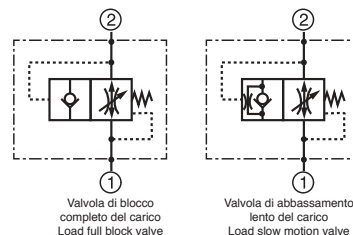
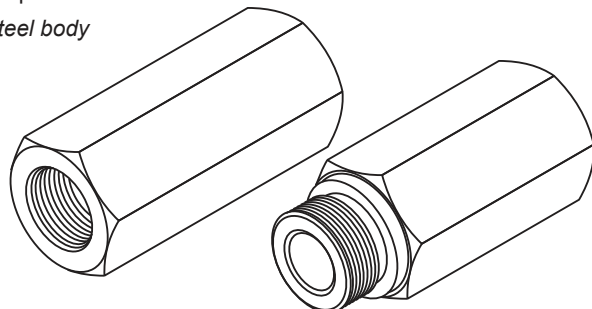
Sigla di ordinazione / Ordering code



I dati non sono impegnativi, CBF si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

Valvola paracadute - colonnetta
Hose burst valve
mod. VPN-MF / FF

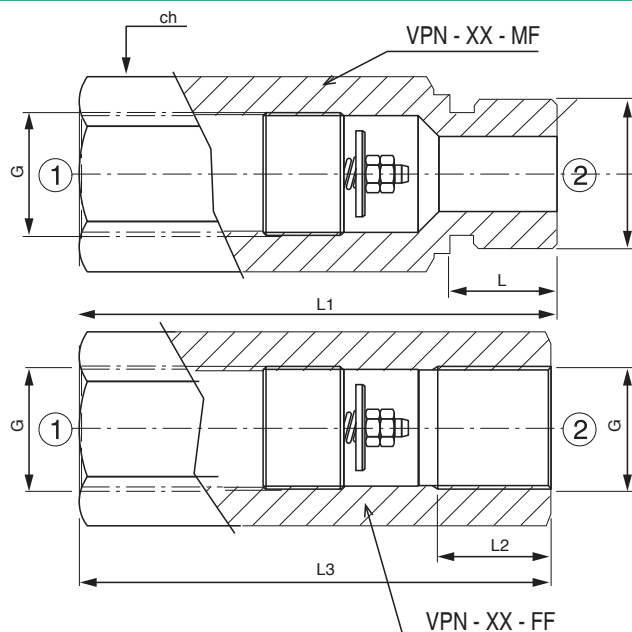
Corpo in acciaio
Steel body



Dopo il nostro montaggio le valvole risultano regolate rispettivamente a circa 0.5 mm (per G=1/4" gas e G=3/8" gas) e 0.7 mm (per G=1/2" gas e G=3/4" gas).
After our assembly procedure the valves are respectively set at about 0.5 mm (for G=1/4" gas and G=3/8" gas) and 0.7 mm (for G=1/2" gas and G=3/4" gas).

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate Recommended viscosity	10 ÷ 420 cSt
Temperatura di lavoro Working temperature	-20 ÷ +90 °C
Filtrazione assoluta Absolute filtration	25 µ



Modello Type	G	L	L1	L2	L3	Ch	Portata massima Max Flow	Pressione massima Max pressure
VPN-14-MF / VPN-14-FF	1/4" GAS	10	50	13	48	19	25 l/min 6.6 gpm	350 bar 5000 psi
VPN-38-MF / VPN-38-FF	3/8" GAS	12	55	13	52	22	50 l/min 13 gpm	350 bar 5000 psi
VPN-12-MF / VPN-12-FF	1/2" GAS	14	70	14	60	27	80 l/min 21 gpm	350 bar 5000 psi
VPN-34-MF / VPN-34-FF	3/4" GAS	16	75	17	72	32	150 l/min 40 gpm	350 bar 5000 psi

Sigla di ordinazione / Ordering code

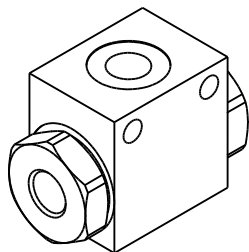
VPN-14-FF

Modello
Type

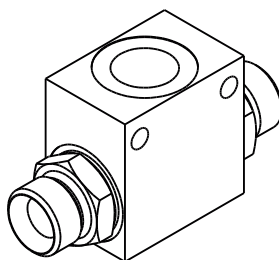
I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, **CBF** reserves the right to introduce modifications without notice.

Valvola selettiva
Shuttle valve
mod. VSF / VSM

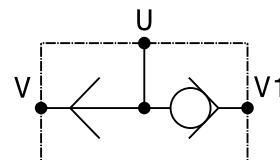
Corpo in alluminio
Aluminium body



VSF



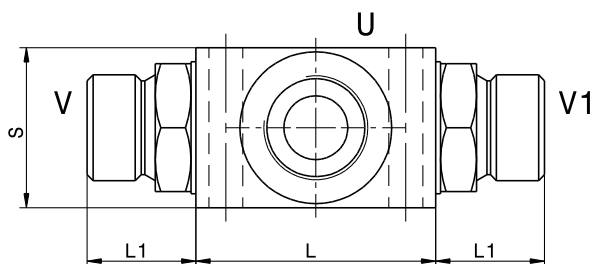
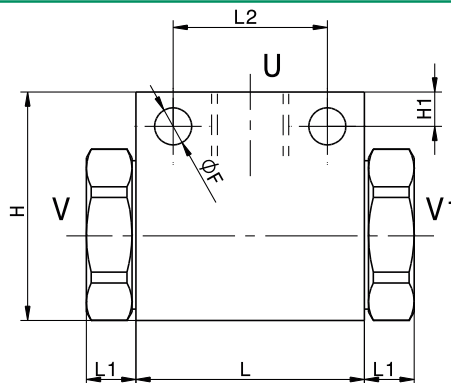
VSM



Modello Type	V V1 U	Portata massima Max Flow	Pressione massima Max pressure
VSF-14	1/4" GAS	20 l/min 5.3 gpm	350 bar 5000 psi
VSF-38	3/8" GAS	40 l/min 10.5 gpm	350 bar 5000 psi
VSF-12	1/2" GAS	60 l/min 16 gpm	350 bar 5000 psi
VSF-34	3/4" GAS	100 l/min 26 gpm	280 bar 4000 psi
VSM-14	1/4" GAS	20 l/min 5.3 gpm	350 bar 5000 psi
VSM-38	3/8" GAS	40 l/min 10.5 gpm	350 bar 5000 psi
VSM-12	1/2" GAS	60 l/min 16 gpm	350 bar 5000 psi
VSM-34	3/4" GAS	100 l/min 26 gpm	280 bar 4000 psi

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliata Recommended viscosity	10 ÷ 420 cSt
Temperatura di lavoro Working temperature	-20 ÷ +90 °C
Filtrazione assoluta Absolute filtration	25 µ



Dimensioni Dimensions	L	L1	L2	H	H1	S	F
VSF-14	40	9	27	40	6	30	6.5
VSF-38	50	21	34	40	10	30	6.5
VSF-12	60	26	40	50	10	30	6.5
VSF-34	60	30	45	60	10	40	8.5
VSM-14	40	31	27	40	6	30	6.5
VSM-38	50	21	34	40	10	30	6.5
VSM-12	60	28	40	50	10	30	6.5
VSM-34	60	27	45	60	10	40	8.5

Sigla di ordinazione / Ordering code

VSM-38

Modello
Type

For flow diagram see
PRESSURE DROP CHECK VALVE (11)

I dati non sono impegnativi, CBF si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

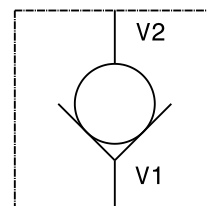
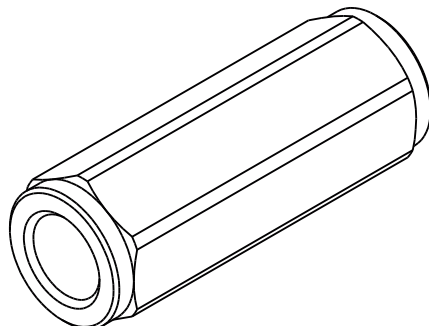
Valvola unidirezionale in linea a sfera e a cono, filettata femmina - femmina

In line check valve, ball and poppet type, female - female threaded

mod. **VU-SF** (sfera - ball) / **VU-SP** (cono - poppet)

Corpo in acciaio

Steel body

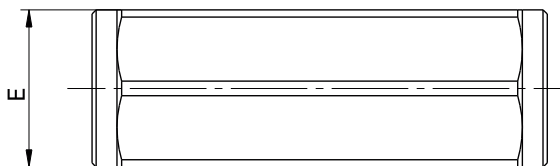
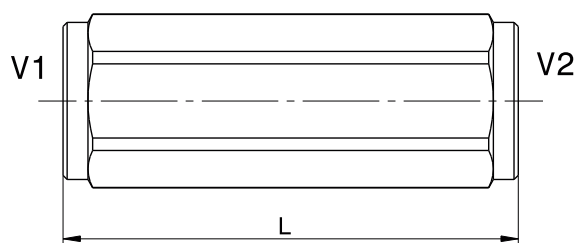


Modello Type	V1 V2	Portata massima Max Flow	Pressione massima Max pressure
VU14-SF	1/4" GAS	15 l/min 4 gpm	500 bar 7250 psi
VU38-SF	3/8" GAS	30 l/min 8 gpm	500 bar 7250 psi
VU12-SF	1/2" GAS	50 l/min 13 gpm	500 bar 7250 psi
VU34-SF	3/4" GAS	90 l/min 24 gpm	350 bar 5000 psi
VU14-SP	1/4" GAS	15 l/min 4 gpm	500 bar 7250 psi
VU38-SP	3/8" GAS	30 l/min 8 gpm	500 bar 7250 psi
VU12-SP	1/2" GAS	50 l/min 13 gpm	500 bar 7250 psi
VU34-SP	3/4" GAS	90 l/min 24 gpm	350 bar 5000 psi
VU10-SP	1" GAS	150 l/min 40 gpm	350 bar 5000 psi

Pressione di apertura Cracking pressure	1 bar	14.5 psi
	3 bar	43 psi
	5 bar	72 psi

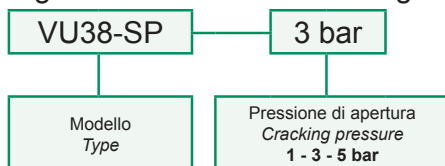
Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate Recommended viscosity	10 ÷ 420 cSt
Temperatura di lavoro Working temperature	-20 ÷ +90 °C
Filtrazione assoluta Absolute filtration	25 µ



Dimensioni Dimensions	L	E
VU14-SF	55	ES. 19
VU38-SF	60	ES. 24
VU12-SF	70	ES. 27
VU34-SF	85	ES. 36
VU14-SP	55	ES. 19
VU38-SP	60	ES. 24
VU12-SP	70	ES. 27
VU34-SP	85	ES. 36
VU10-SP	100	ES. 41

Sigla di ordinazione / Ordering code

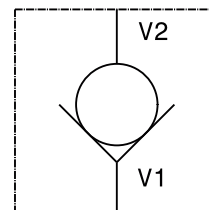
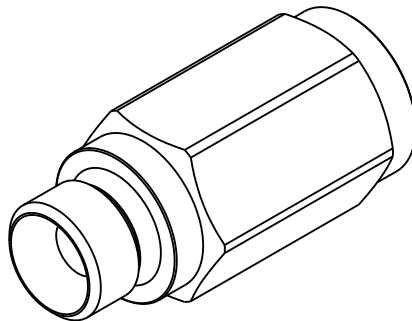
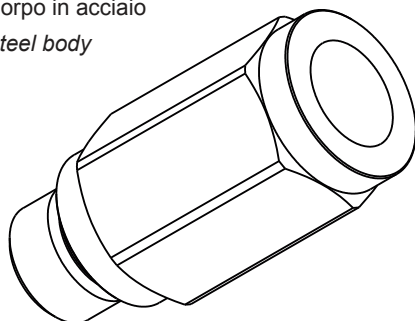


For flow diagram see
PRESSURE DROP CHECK VALVE (12)

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

Valvola unidirezionale in linea a sfera e a cono, filettata maschio - femmina
In line check valve, ball and poppet type, male - female threaded
mod. VUMF-SF (sfera - ball) / VUMF-SP (cono - poppet)

Corpo in acciaio
Steel body



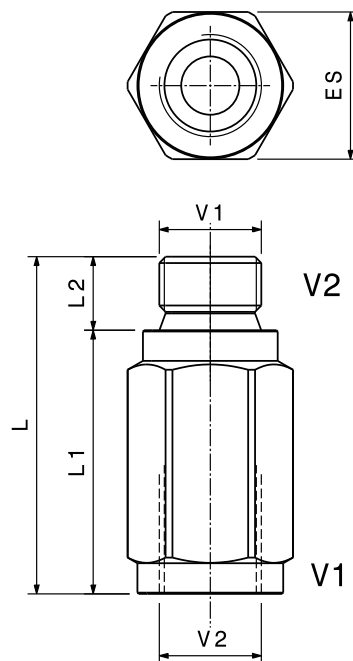
Modello Type	V1 V2	Portata massima Max Flow	Pressione massima Max pressure
VU14MF-SF	1/4" GAS	15 l/min 4 gpm	500 bar 7250 psi
VU38MF-SF	3/8" GAS	30 l/min 8 gpm	500 bar 7250 psi
VU12MF-SF	1/2" GAS	50 l/min 13 gpm	500 bar 7250 psi
VU34MF-SF	3/4" GAS	90 l/min 24 gpm	350 bar 5000 psi
VU14MF-SP	1/4" GAS	15 l/min 4 gpm	500 bar 7250 psi
VU38MF-SP	3/8" GAS	30 l/min 8 gpm	500 bar 7250 psi
VU12MF-SP	1/2" GAS	50 l/min 13 gpm	500 bar 7250 psi
VU34MF-SP	3/4" GAS	90 l/min 24 gpm	350 bar 5000 psi
VU10MF-SP	1" GAS	150 l/min 40 gpm	350 bar 5000 psi

Pressione di apertura
Cracking pressure

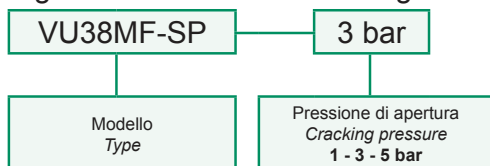
1 bar 14.5 psi
3 bar 43 psi
5 bar 72 psi

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate Recommended viscosity	10 ÷ 420 cSt
Temperatura di lavoro Working temperature	-20 ÷ +90 °C
Filtrazione assoluta Absolute filtration	25 µ



Sigla di ordinazione / Ordering code



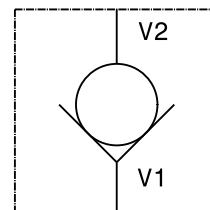
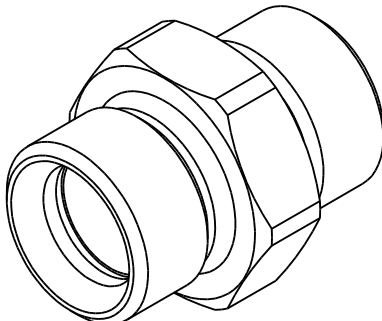
Dimensioni Dimensions	V1-V2	L (mm)	L1 (mm)	L2 (mm)	Es. (mm)
VU14MF-SF	1/4" GAS	50	40	10	ES. 19
VU38MF-SF	3/8" GAS	55	43	12	ES. 24
VU12MF-SF	1/2" GAS	65	51	14	ES. 27
VU34MF-SF	3/4" GAS	80	64	16	ES. 36
VU14MF-SP	1/4" GAS	50	40	10	ES. 19
VU38MF-SP	3/8" GAS	55	43	12	ES. 24
VU12MF-SP	1/2" GAS	65	51	14	ES. 27
VU34MF-SP	3/4" GAS	80	64	16	ES. 36
VU10MF-SP	1" GAS	95	76	19	ES. 41

For flow diagram see
PRESSURE DROP CHECK VALVE (12)

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

Valvola unidirezionale in linea, tenuta a cono
In line check valve, poppet type
mod. VU-MM

Corpo in acciaio
Steel body

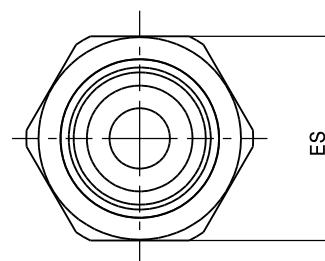
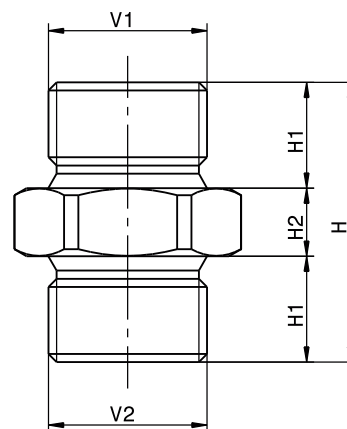


Modello Type	V1 V2	Portata massima Max Flow	Pressione massima Max pressure
VU38-MM	3/8" GAS	25 l/min 6.5 gpm	350 bar 5000 psi
VU12-MM	1/2" GAS	40 l/min 10.5 gpm	350 bar 5000 psi
VU34-MM	3/4" GAS	90 l/min 24.8 gpm	350 bar 5000 psi

Pressione di apertura Cracking pressure	1 bar 14.5 psi
--	-----------------------

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate Recommended viscosity	10 ÷ 420 cSt
Temperatura di lavoro Working temperature	-20 ÷ +90 °C
Filtrazione assoluta Absolute filtration	25 µ



Dimensioni Dimensions	H	H1	H2	ES
VU38-MM	33	13	7	22
VU12-MM	37	14	9	27
VU34-MM	43	17	9	32

Sigla di ordinazione / Ordering code

VU38-MM

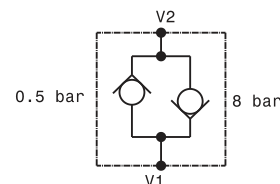
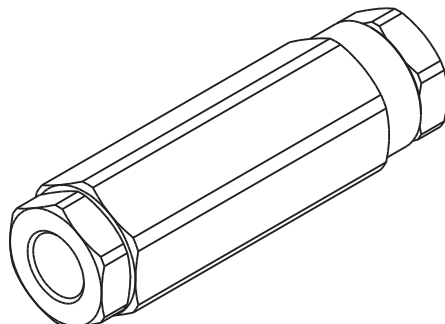
Modello
Type

For flow diagram see
PRESSURE DROP CHECK VALVE (12)

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

Valvola bidirezionale
Bidirectional check valve
mod. VBD-E

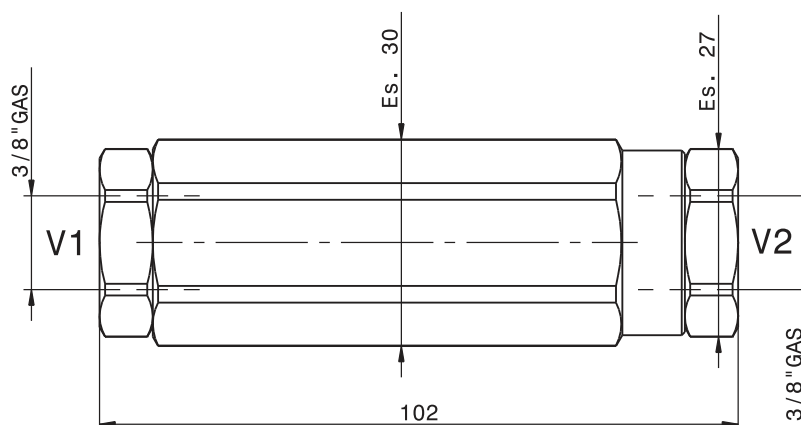
Corpo in acciaio
Steel body



Portata massima <i>Max flow</i>	30 l/min 8 gpm
Pressione massima <i>Max pressure</i>	350 bar 5000 psi
Pressione di apertura V1→V2 <i>Cracking pressure V1→V2</i>	8 bar , 12 bar 115 psi , 170 psi
Pressione di apertura V2→V1 <i>Cracking pressure V2→V1</i>	0.5 bar 7.25 psi

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate <i>Recommended viscosity</i>	10 ÷ 420 cSt
Temperatura di lavoro <i>Working temperature</i>	-20 ÷ +90 °C
Filtrazione assoluta <i>Absolute filtration</i>	25 µ



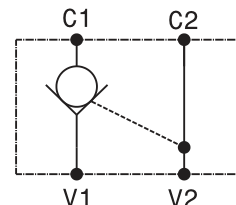
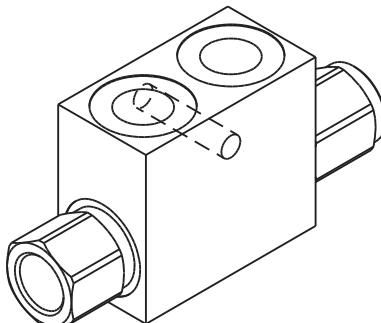
Sigla di ordinazione / Ordering code

VBD-E-38	-
Modello <i>Type</i>	- 8 bar (standard) 12 bar su richiesta <i>upon request</i>

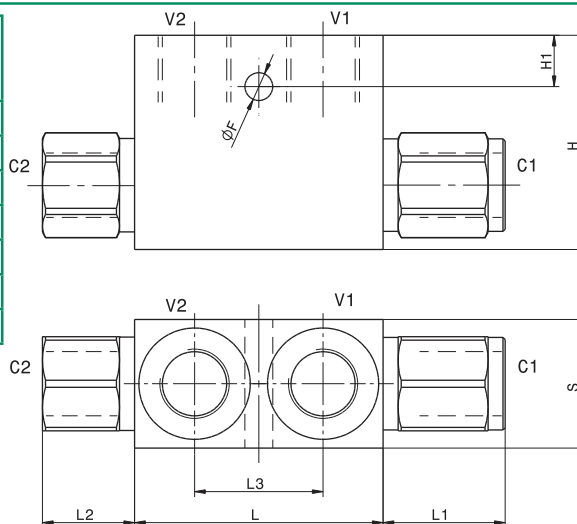
I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

Valvola di blocco pilotata a semplice effetto a sfera o a cono
Single effect, pilot operated check valve, ball or poppet type
mod. **VBS-SF** (sfera – ball) / **VBS-SP** (cono – poppet)

Versione con corpo in alluminio o in acciaio
Aluminum or steel body version



Modello Type	Rapporto di pilotaggio Pilot ratio	Portata massima Max Flow	Pressione massima Max pressure	Pressione di apertura Cracking pressure
VBS-14-SF	4:1	20 l/min 5.3 gpm	350 bar 5000 psi	3 bar 43 psi
VBS-38-SF	4:1	35 l/min 9 gpm	350 bar 5000 psi	3 bar 43 psi
VBS-12-SF	3:1	50 l/min 13 gpm	350 bar 5000 psi	1 bar 14.5 psi
VBS-14-SP	4:1	20 l/min 5.3 gpm	350 bar 5000 psi	3 bar 43 psi
VBS-38-SP	4:1	35 l/min 9 gpm	350 bar 5000 psi	3 bar 43 psi
VBS-12-SP	3:1	50 l/min 13 gpm	350 bar 5000 psi	1 bar 14.5 psi
VBS-34-SP	4:1	80 l/min 21 gpm	250 bar 3600 psi	0.5 bar 7.2 psi

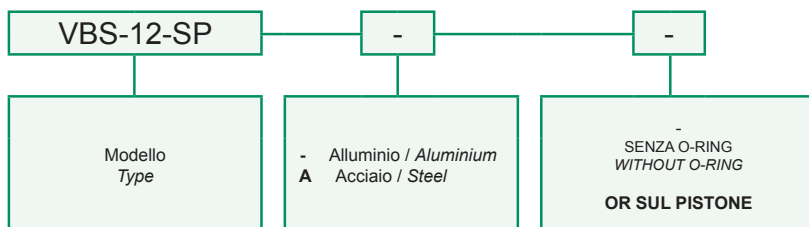


Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate Recommended viscosity	10 ÷ 420 cSt
Temperatura di lavoro Working temperature	-20 ÷ +90 °C
Filtrazione assoluta Absolute filtration	25 µ

Dimensioni Dimensions	C V	L	L1	L2	L3	H	H1	S	F
VBS-14-SF	1/4" GAS	58	27	22	35	40	12	25	6.5
VBS-38-SF	3/8" GAS	58	29	22	30	50	12	30	6.5
VBS-12-SF	1/2" GAS	70	35	26	35	50	12	35	6.5
VBS-14-SP	1/4" GAS	58	27	22	35	40	12	25	6.5
VBS-38-SP	3/8" GAS	58	29	22	30	50	12	30	6.5
VBS-12-SP	1/2" GAS	70	35	26	35	50	12	35	6.5
VBS-34-SP	3/4" GAS	100	40	40	50	60	15	40	8.5

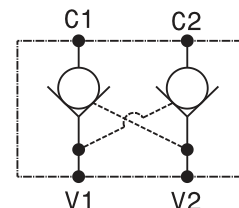
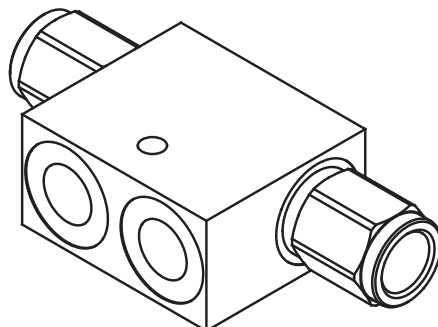
Sigla di ordinazione / Ordering code



I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

Valvola di blocco pilotata a doppio effetto a sfera o a cono
Double effect, pilot operated check valve, ball or poppet type
mod. VBD-SF (sfera – ball) / VBD-SP (cono – poppet)

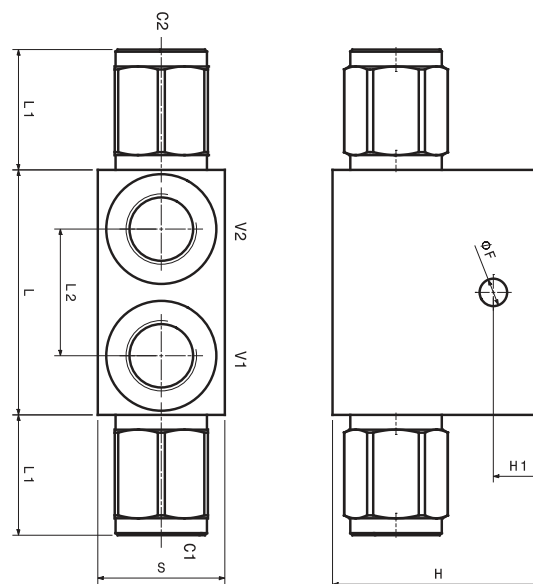
Versione con corpo in alluminio o in acciaio
Aluminum or steel body version



Modello Type	Rapporto di pilotaggio Pilot ratio	Portata massima Max Flow	Pressione massima Max pressure	Pressione di apertura Cracking pressure
VBD-14-SF	4:1	20 l/min 5.3 gpm	350 bar 5000 psi	3 bar 43 psi
VBD-38-SF	4:1	35 l/min 9 gpm	350 bar 5000 psi	3 bar 43 psi
VBD-12-SF	3:1	50 l/min 13 gpm	350 bar 5000 psi	1 bar 14.5 psi
VBD-14-SP	4:1	20 l/min 5.3 gpm	350 bar 5000 psi	3 bar 43 psi
VBD-38-SP	4:1	35 l/min 9 gpm	350 bar 5000 psi	3 bar 43 psi
VBD-12-SP	3:1	50 l/min 13 gpm	350 bar 5000 psi	1 bar 14.5 psi
VBD-34-SP	4:1	80 l/min 21 gpm	250 bar 3600 psi	0.5 bar 7.2 psi

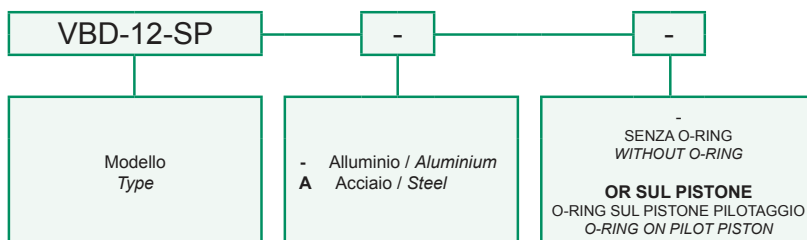
Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate Recommended viscosity	10 ÷ 420 cSt
Temperatura di lavoro Working temperature	-20 ÷ +90 °C
Filtrazione assoluta Absolute filtration	25 µ



Dimensioni Dimensions	C V	L	L1	L2	H	H1	S	F
VBD-14-SF	1/4" GAS	58	27	35	40	12	25	6.5
VBD-38-SF	3/8" GAS	58	29	30	50	12	30	6.5
VBD-12-SF	1/2" GAS	70	35	35	50	12	35	6.5
VBD-14-SP	1/4" GAS	58	27	35	40	12	25	6.5
VBD-38-SP	3/8" GAS	58	29	30	50	12	30	6.5
VBD-12-SP	1/2" GAS	70	35	35	50	12	35	6.5
VBD-34-SP	3/4" GAS	100	40	50	60	15	40	8.5

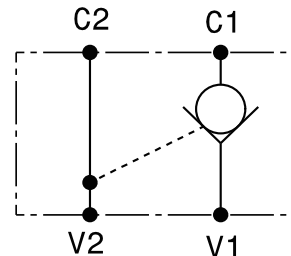
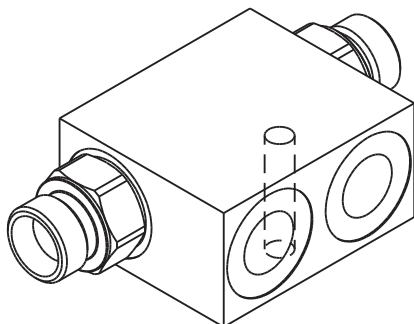
Sigla di ordinazione / Ordering code



I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

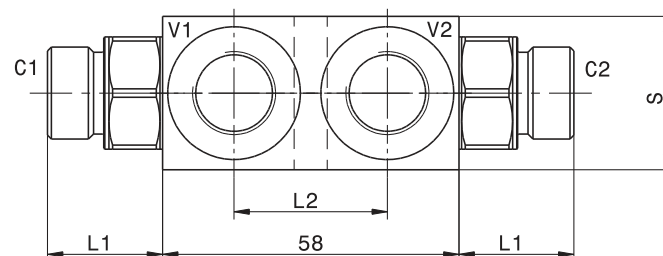
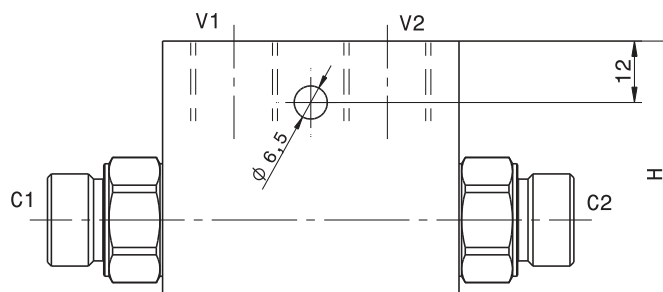
Valvola di blocco pilotata a semplice effetto a sfera o a cono
Single effect, pilot operated check valve, ball or poppet type
mod. VBS-SF-M (sfera – ball) / VBS-SP-M (cono – poppet)

Versione con corpo in alluminio o in acciaio
Aluminum or steel body version



Modello Type	Rapporto di pilotaggio Pilot ratio	Portata massima Max Flow	Pressione massima Max pressure	Pressione di apertura Cracking pressure
VBS-14-SF M16X1.5	4:1	20 l/min 5.3 gpm	350 bar 5000 psi	1.5 bar 22 psi
VBS-38-SF M18X1.5	4:1	35 l/min 9 gpm	350 bar 5000 psi	3 bar 43 psi
VBS-14-SP M16X1.5	4:1	20 l/min 5.3 gpm	350 bar 5000 psi	1.5 bar 22 psi
VBS-38-SP M18X1.5	4:1	35 l/min 9 gpm	350 bar 5000 psi	3 bar 43 psi

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C <i>Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C</i>	
Viscosità consigliate Recommended viscosity	10 ÷ 420 cSt
Temperature di lavoro Working temperature	-20 ÷ +90 °C
Filtrazione assoluta Absolute filtration	25 µ



Dimensioni Dimensions	V	C	L1	L2	H	S
VBS-14-SF M16X1.5	1/4" GAS	M16X1.5	23	35	40	25
VBS-38-SF M18X1.5	3/8" GAS	M18X1.5	23	30	50	30
VBS-14-SP M16X1.5	1/2" GAS	M16X1.5	23	35	40	25
VBS-38-SP M18X1.5	1/4" GAS	M18X1.5	23	30	50	30

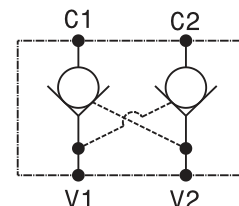
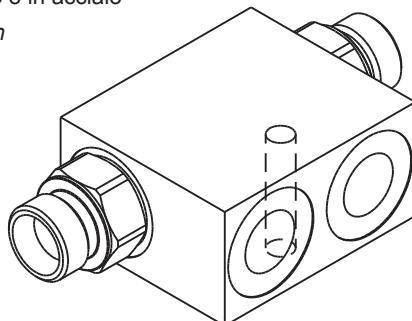
Sigla di ordinazione / Ordering code

VBS-14-SP-M16X1.5	-	-
Modello Type	- Alluminio / Aluminium A Acciaio / Steel	- SENZA O-RING WITHOUT O-RING OR SUL PISTONE O-RING SUL PISTONE PILOTAGGIO O-RING ON PILOT PISTON

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

Valvola di blocco pilotata a doppio effetto a sfera o a cono
Double effect, pilot operated check valve, ball or poppet type
mod. VBD-SF-M (sfera – ball) / VBD-SP-M (cono – poppet)

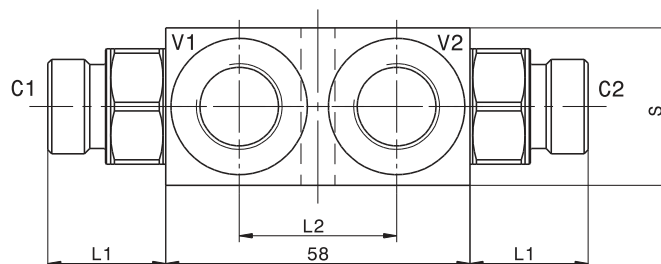
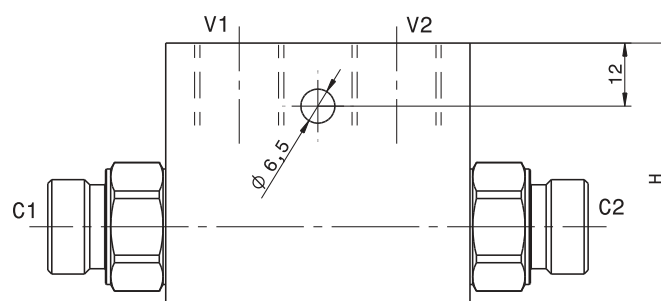
Versione con corpo in alluminio o in acciaio
Aluminum or steel body version



Modello Type	Rapporto di pilotaggio Pilot ratio	Portata massima Max Flow	Pressione massima Max pressure	Pressione di apertura Cracking pressure
VBD-14-SF M16X1.5	4:1	20 l/min 5.3 gpm	350 bar 5000 psi	1.5 bar 22 psi
VBD-38-SF M18X1.5	4:1	35 l/min 9 gpm	350 bar 5000 psi	3 bar 43 psi
VBD-14-SP M16X1.5	4:1	20 l/min 5.3 gpm	350 bar 5000 psi	1.5 bar 22 psi
VBD-38-SP M18X1.5	4:1	35 l/min 9 gpm	350 bar 5000 psi	3 bar 43 psi

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate Recommended viscosity	10 ÷ 420 cSt
Temperature di lavoro Working temperature	-20 ÷ +90 °C
Filtrazione assoluta Absolute filtration	25 µ



Dimensioni Dimensions	V	C	L1	L2	H	S
VBD-14-SF M16X1.5	1/4" GAS	M16X1.5	23	35	40	25
VBD-38-SF M18X1.5	3/8" GAS	M18X1.5	23	30	50	30
VBD-14-SP M16X1.5	1/2" GAS	M16X1.5	23	35	40	25
VBD-38-SP M18X1.5	1/4" GAS	M18X1.5	23	30	50	30

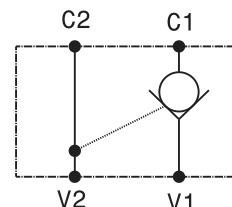
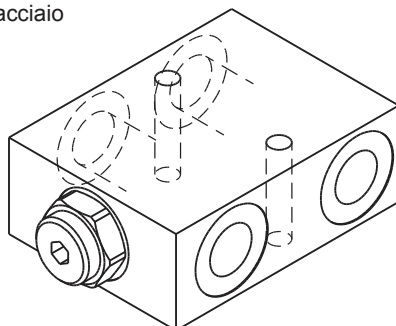
Sigla di ordinazione / Ordering code

VBD-14-SP-M16X1.5	-	-
Modello Type	- Alluminio / Aluminium A Acciaio / Steel	- SENZA O-RING WITHOUT O-RING OR SUL PISTONE O-RING SUL PISTONE PILOTAGGIO O-RING ON PILOT PISTON

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

Valvola di blocco pilotata a semplice effetto in linea
In line, single effect, pilot operated check valve
mod. VBS-L

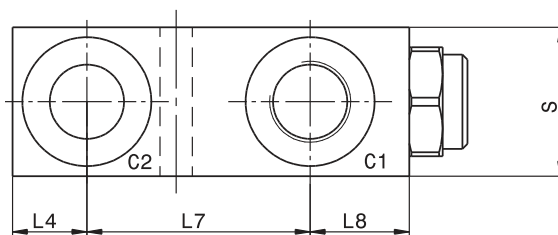
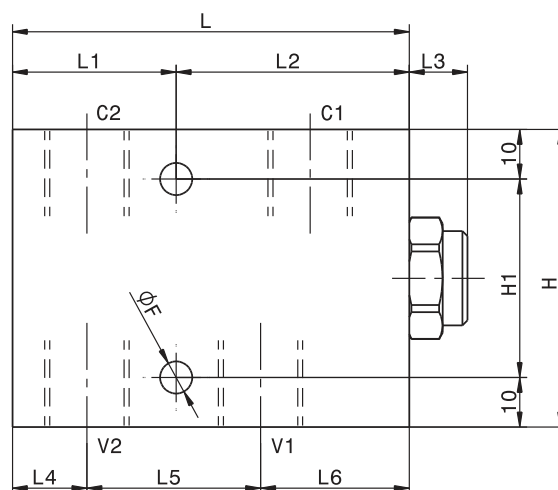
Versione con corpo in alluminio o in acciaio
Aluminum or steel body version



Modello Type	V C	Rapporto di pilotaggio Pilot ratio	Portata massima Max Flow	Pressione massima Max pressure	Pressione di apertura Cracking pressure
VBS-L-14	1/4" GAS	4:1	20 l/min 5.3 gpm	350 bar 5000 psi	3 bar 43 psi
VBS-L-38	3/8" GAS	4:1	35 l/min 9 gpm	350 bar 5000 psi	3 bar 43 psi
VBS-L-12	1/2" GAS	4:1	50 l/min 13 gpm	350 bar 5000 psi	2 bar 29 psi
VBS-L-34	3/4" GAS	4:1	80 l/min 21 gpm	250 bar 3600 psi	2 bar 29 psi

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate Recommended viscosity	10 ÷ 420 cSt
Temperatura di lavoro Working temperature	-20 ÷ +90 °C
Filtrazione assoluta Absolute filtration	25 µ



Dimensioni Dimensions	L	L1	L2	L3	L4	L5	L6	L7	L8	H	H1	S	F
VBS-L-14	80	33	47	12	15	31	34	45	20	60	40	30	6.5
VBS-L-38	80	33	47	12	15	35	30	45	20	60	40	30	6.5
VBS-L-12	80	33	47	12	15	35	30	45	20	60	40	35	8.5
VBS-L-34	100	45	55	21	22.5	45	32.5	55	22.5	70	50	40	8.5

Sigla di ordinazione / Ordering code

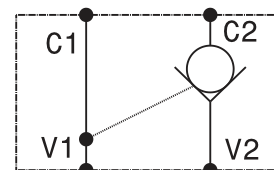
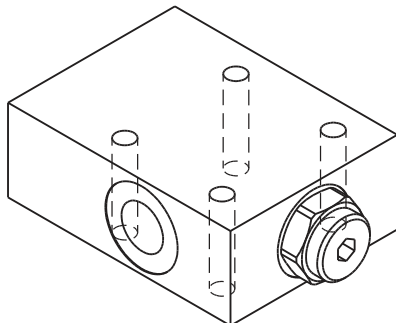
VBS-L-12	-	-
Modello Type	- Alluminio / Aluminium A Acciaio / Steel	SENZA O-RING WITHOUT O-RING OR SUL PISTONE O-RING SUL PISTONE PILOTAGGIO O-RING ON PILOT PISTON

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

Valvola di blocco pilotata a semplice effetto flangiabile
Flangeable, single effect, pilot operated check valve

mod. VBS-L-F

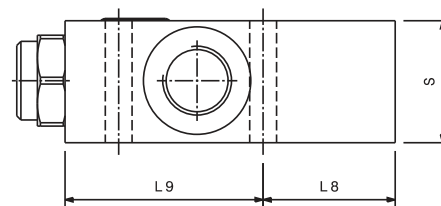
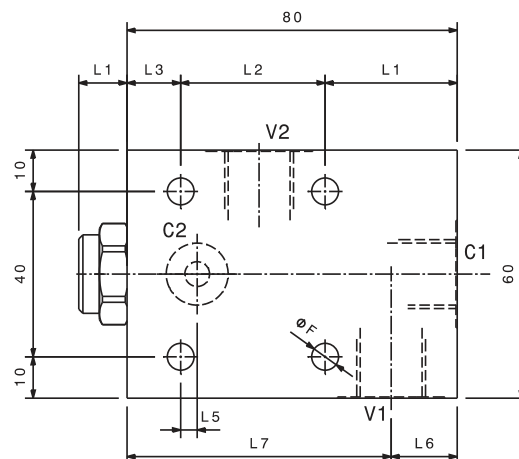
Corpo in alluminio o acciaio
Steel or aluminium body



Modello Type	V C	Rapporto di pilotaggio Pilot ratio	Portata massima Max Flow	Pressione massima Max pressure	Pressione di apertura Cracking pressure
VBS-L-F-38	3/8" GAS	4:1	35 l/min 9 gpm	350 bar 5000 psi	3 bar 43 psi
VBS-L-F-12	1/2" GAS	4:1	50 l/min 13 gpm	350 bar 5000 psi	2 bar 29 psi

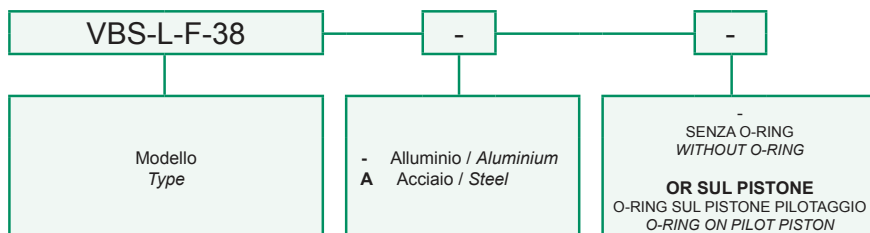
Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate Recommended viscosity	10 ÷ 420 cSt
Temperatura di lavoro Working temperature	-20 ÷ +90 °C
Filtrazione assoluta Absolute filtration	25 µ



Dimensioni Dimensions	L	L1	L2	L3	L4	L5	L6	L7	L8	L9	S	F
VBS-L-F-38	80	32	35	13	12	4	16	64	48	32	30	6.5
VBS-L-F-12	95	40	40	15	6.5	7.5	19	76	57	38	35	8.5

Sigla di ordinazione / Ordering code

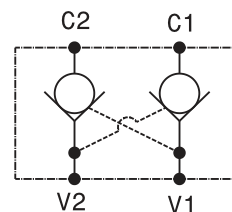
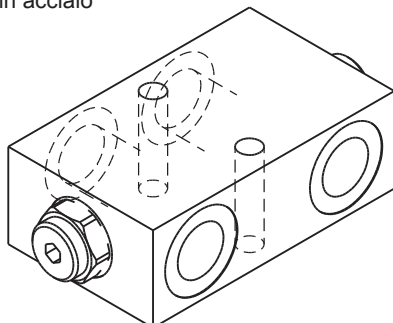


I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

Valvola di blocco pilotata a doppio effetto in linea
In line, double effect, pilot operated check valve

mod. VBD-L

Versione con corpo in alluminio o in acciaio
Aluminum or steel body version

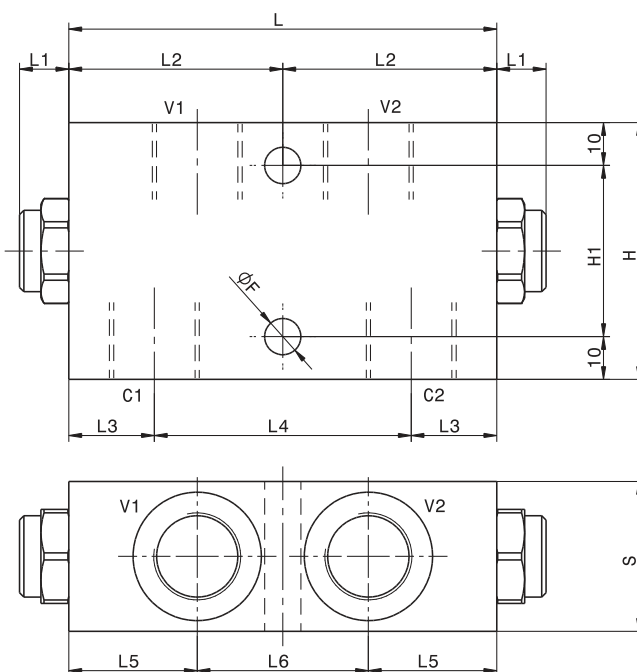


Modello Type	V C	Rapporto di pilotaggio Pilot ratio	Portata massima Max Flow	Pressione massima Max pressure	Pressione di apertura Cracking pressure
VBD-L-14	1/4" GAS	4:1	20 l/min 5.3 gpm	350 bar 5000 psi	3 bar 43 psi
VBD-L-38	3/8" GAS	4:1	35 l/min 9 gpm	350 bar 5000 psi	3 bar 43 psi
VBD-L-12	1/2" GAS	4:1	50 l/min 13 gpm	350 bar 5000 psi	2 bar 29 psi
VBD-L-34	3/4" GAS	4:1	80 l/min 21 gpm	250 bar 3600 psi	2 bar 29 psi

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate Recommended viscosity	10 ÷ 420 cSt
Temperature di lavoro Working temperature	-20 ÷ +90 °C
Filtrazione assoluta Absolute filtration	25 µ

Dimensioni Dimensions	L	L1	L2	L3	L4	L5	L6	H	H1	S	F
VBD-L-14	100	12	50	20	60	35	30	60	40	30	6.5
VBD-L-38	100	12	50	23	54	35	30	60	40	30	6.5
VBD-L-12	100	12	50	20	60	30	40	60	40	35	8.5
VBD-L-34	110	21	55	23	64	32.5	45	70	50	40	8.5



Sigla di ordinazione / Ordering code

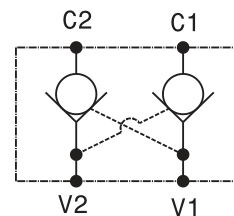
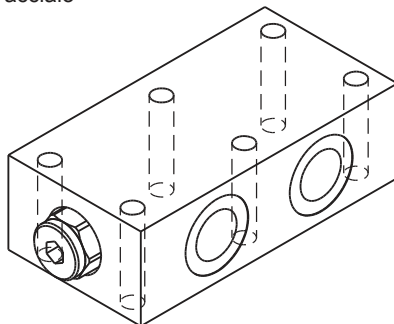
VBD-L-38	-	-
Modello Type	- Alluminio / Aluminium A Acciaio / Steel	SENZA O-RING WITHOUT O-RING OR SUL PISTONE O-RING SUL PISTONE PILOTAGGIO O-RING ON PILOT PISTON

I dati non sono impegnativi, CBF si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

Valvola di blocco pilotata a doppio effetto flangiabile
Flangeable, double effect, pilot operated check valve

mod. VBD-L-F

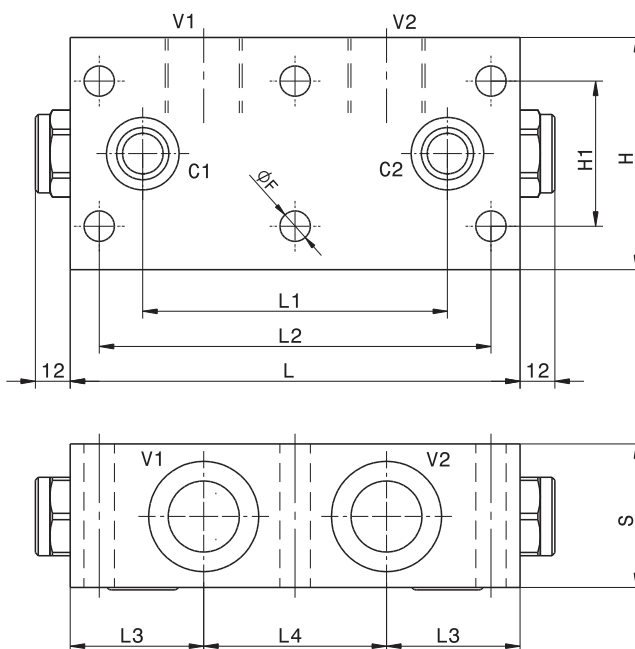
Versione con corpo in alluminio o in acciaio
Aluminum or steel body version



Modello Type	V C	Rapporto di pilotaggio Pilot ratio	Portata massima Max Flow	Pressione massima Max pressure	Pressione di apertura Cracking pressure
VBD-L-F-38	3/8" GAS	4:1	35 l/min 9 gpm	350 bar 5000 psi	3 bar 43 psi
VBD-L-F-12	1/2" GAS	4:1	50 l/min 13 gpm	350 bar 5000 psi	2 bar 29 psi
VBD-L-F-34	3/4" GAS	4:1	80 l/min 21 gpm	250 bar 3600 psi	2 bar 29 psi

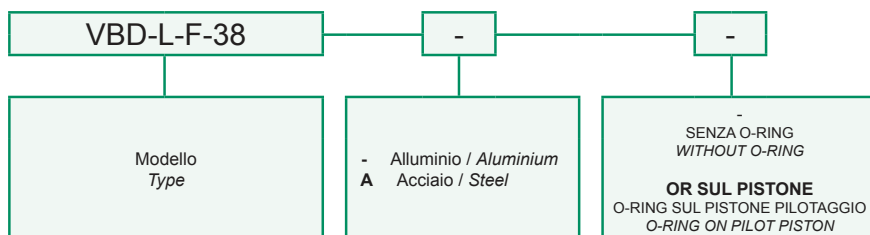
Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate Recommended viscosity	10 ÷ 420 cSt
Temperatura di lavoro Working temperature	-20 ÷ +90 °C
Filtrazione assoluta Absolute filtration	25 µ



Dimensioni Dimensions	L	L1	L2	L3	L4	H	H1	S	F
VBD-L-F-38	96	62	70	32	32	60	40	30	6.5
VBD-L-F-12	100	65	80	33	34	60	40	35	8.5
VBD-L-F-34	155	105	135	46	63	80	50	50	10.5

Sigla di ordinazione / Ordering code

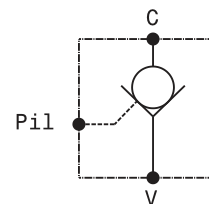
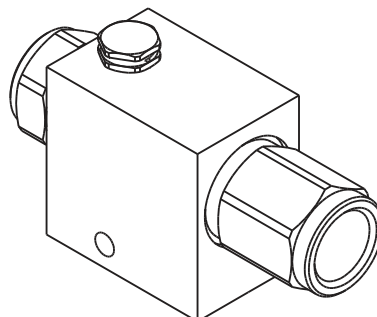
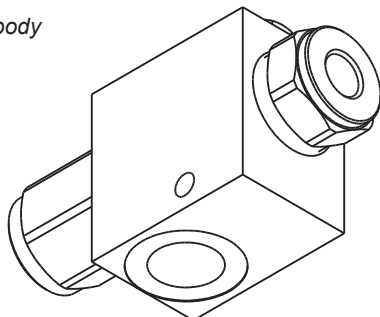


I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

Valvola di blocco semplice effetto con pilotaggio separato
Pilot operated check valve with vented pilot

mod. VBS-L-PS

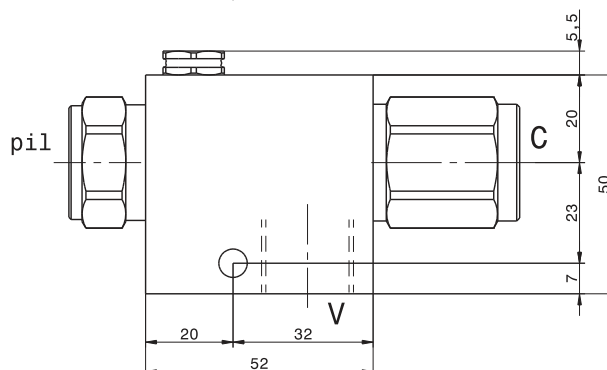
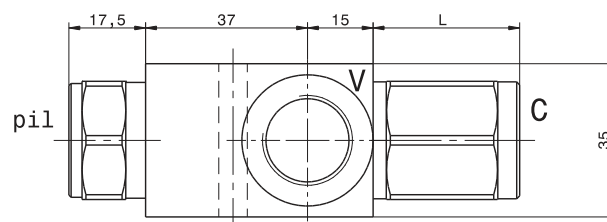
Corpo in alluminio
Aluminium body



Modello Type	V C	Pil	Rapporto di pilotaggio Pilot ratio	Portata massima Max Flow	Pressione massima Max pres- sure	Pressione di apertura Cracking pressure
VBS-L-PS-14	1/4" GAS	1/4" GAS	11:1	20 l/min 5.3 gpm	350 bar 5000 psi	3 bar 43 psi
VBS-L-PS-38	3/8" GAS	1/4" GAS	11:1	35 l/min 9 gpm	350 bar 5000 psi	6 bar 87 psi
VBS-L-PS-12	1/2" GAS	1/4" GAS	6.25:1	50 l/min 13 gpm	350 bar 5000 psi	6 bar 87 psi

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate Recommended viscosity	10 ÷ 420 cSt
Temperature di lavoro Working temperature	-20 ÷ +90 °C
Filtrazione assoluta Absolute filtration	25 µ



Modello Type	L
VBS-L-PS-14	24.5
VBS-L-PS-38	25.5
VBS-L-PS-12	33.5

Sigla di ordinazione / Ordering code

VBS-L-PS-38

Modello
Type

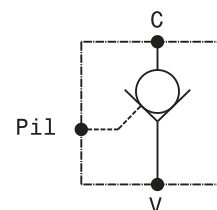
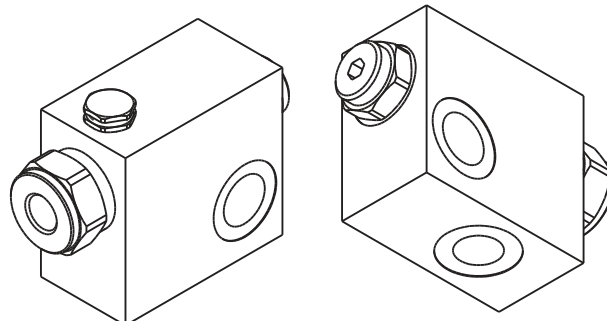
I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

Valvola di blocco semplice effetto flangiabile con pilotaggio separato
Flangeable pilot operated check valve with vented pilot

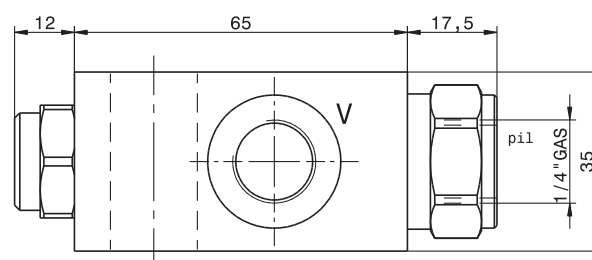
mod. VBS-F-PS

Corpo in alluminio

Aluminium body



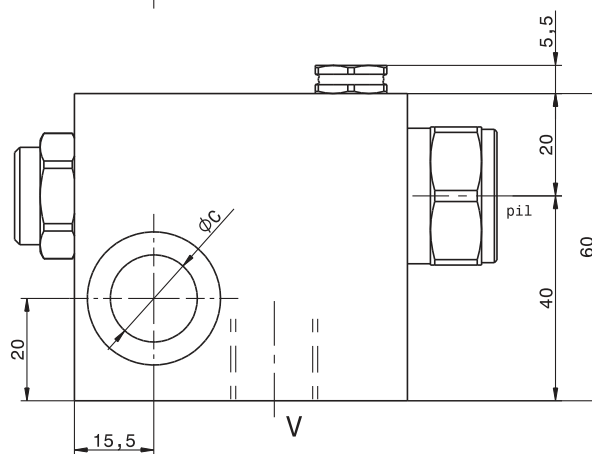
Modello Type	V	C Ø	Rapporto di pilotaggio Pilot ratio	Portata massima Max Flow	Pressione massima Max pressure	Pressione di apertura Cracking pressure
VBS-F-PS-38	3/8" GAS	17	11:1	35 l/min 9 gpm	350 bar 5000 psi	8 bar 115 psi
VBS-F-PS-12	1/2" GAS	21	11:1	50 l/min 13 gpm	350 bar 5000 psi	8 bar 115 psi



Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate Recommended viscosity	10 ÷ 420 cSt
Temperature di lavoro Working temperature	-20 ÷ +90 °C
Filtrazione assoluta Absolute filtration	25 µ

Vite cava disponibile a richiesta Nipple screw available upon request	Modello Type	Codice di ordinazione Ordering code
	VBS-F-PS-38	KITV0001
	VBS-F-PS-12	KITV0003



Modello Type	L
VBS-F-PS-38	39
VBS-F-PS-12	39.5

Sigla di ordinazione / Ordering code

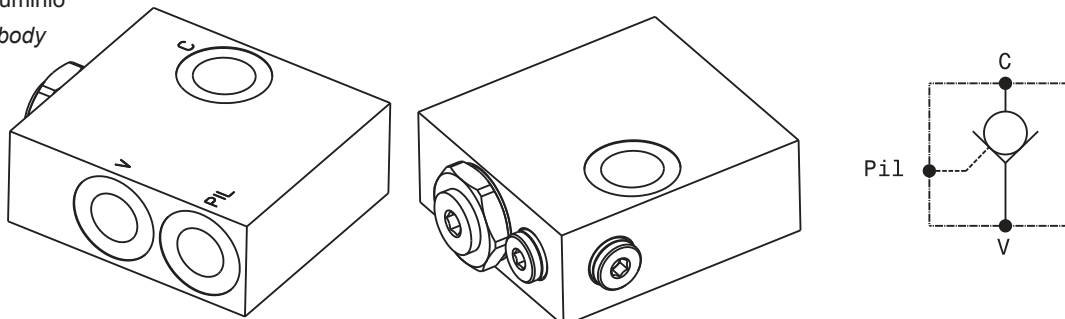
VBS-F-PS-38

Modello
Type

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

Valvola di blocco pilotata semplice effetto flangiabile
Flangeable pilot operated check valve
mod. VBS-F-38

Corpo in alluminio
Aluminium body

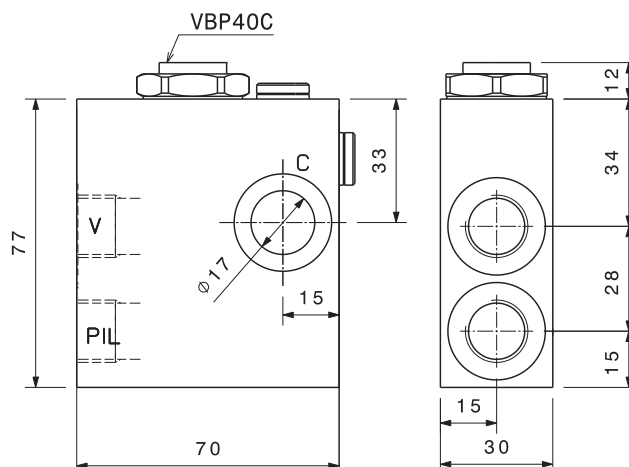


Modello Type	V Pil	C	Rapporto di pilotaggio Pilot ratio	Portata massima Max Flow	Pressione massima Max pressure	Pressione di apertura Cracking pressure
VBS-F-38	3/8" GAS	17	3,4:1	40 l/min 11 gpm	280 bar 4060 psi	3 bar 43.5 psi

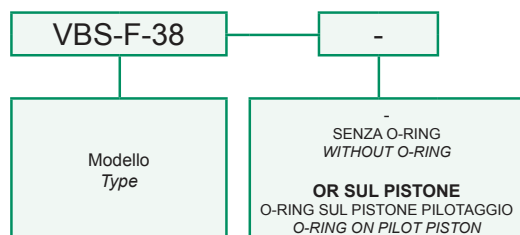
Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate <i>Recommended viscosity</i>	10 ÷ 420 cSt
Temperature di lavoro <i>Working temperature</i>	-20 ÷ +90 °C
Filtrazione assoluta <i>Absolute filtration</i>	25 µ

Vite cava disponibile a richiesta Nipple screw available upon request	Modello Type	Codice di ordinazione Ordering code
	VBS-F-38	KITV0001



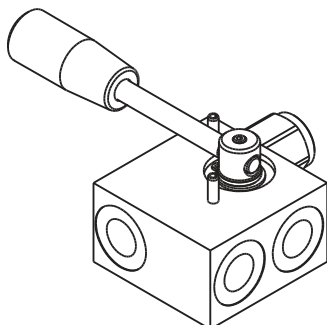
Sigla di ordinazione / Ordering code



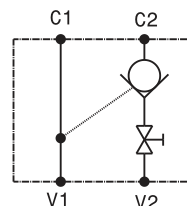
I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

Valvola di blocco pilotata a semplice effetto con rubinetto manuale, tenuta a sfera o a cono - destro
Single effect, pilot operated check valve with manual lever, ball and poppet type - RH

mod. VBS-R-D



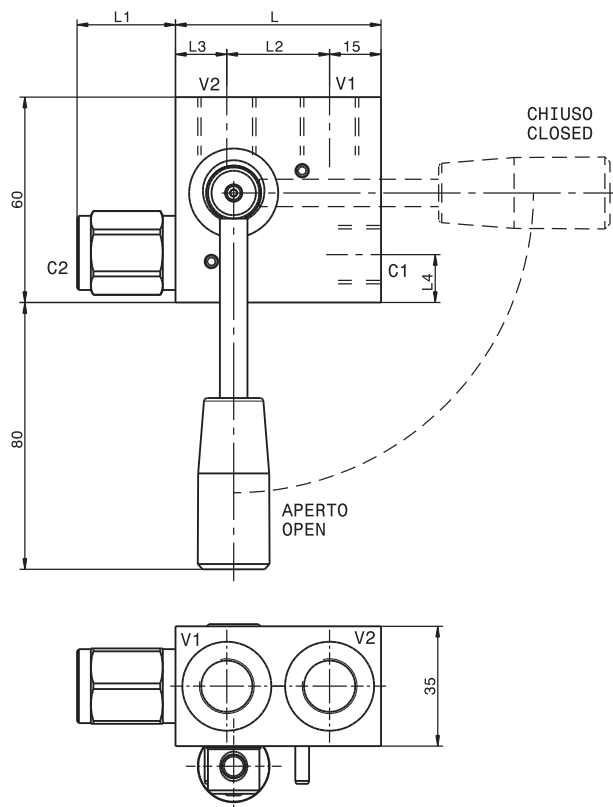
Corpo in alluminio
Aluminium body



Modello Type	V	Rapporto di pilotaggio Pilot ratio	Portata massima Max Flow	Pressione massima Max pressure	Pressione di apertura Cracking pressure
VBS-R-D-38	3/8" GAS	4:1	35 l/min 9 gpm	300 bar 4300 psi	3 bar 43 psi
VBS-R-D-12	1/2" GAS	4:1	50 l/min 13 gpm	300 bar 4300 psi	1 bar 14.5 psi

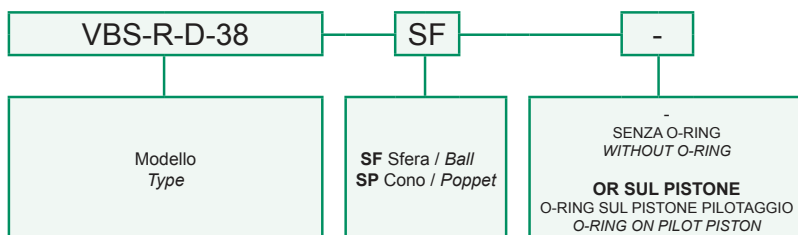
Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate Recommended viscosity	10 ÷ 420 cSt
Temperature di lavoro Working temperature	-20 ÷ +90 °C
Filtrazione assoluta Absolute filtration	25 µ



Dimensioni Dimensions	L	L1	L2	L3	L4
VBS-R-D-38	60	29	30	15	14
VBS-R-D-12	70	35	35	20	15

Sigla di ordinazione / Ordering code

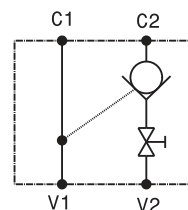
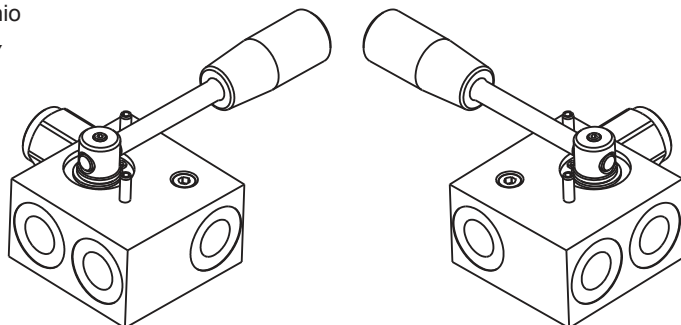


I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

Valvola di blocco pilotata a semplice effetto con rubinetto manuale, tenuta a sfera o a cono - sinistro
Single effect, pilot operated check valve with manual lever, ball and poppet type - LH

mod. VBS-R-S

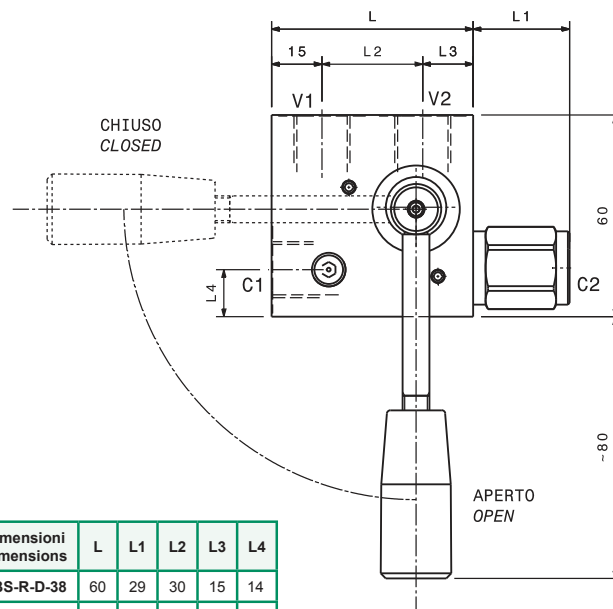
Corpo in alluminio
Aluminium body



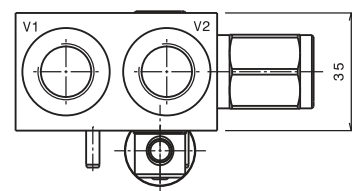
Modello Type	V	Rapporto di pilotaggio Pilot ratio	Portata massima Max Flow	Pressione massima Max pressure	Pressione di apertura Cracking pressure
VBS-R-S-38	3/8" GAS	4:1	35 l/min 9 gpm	300 bar 4300 psi	3 bar 43 psi
VBS-R-S-12	1/2" GAS	4:1	50 l/min 13 gpm	300 bar 4300 psi	1 bar 14.5 psi

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

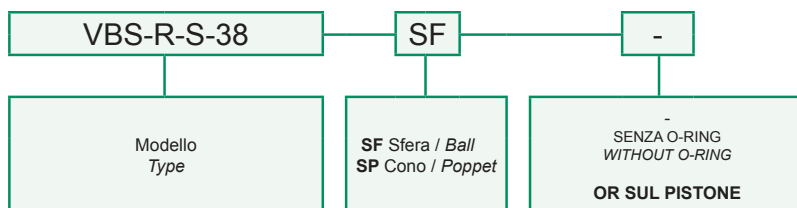
Viscosità consigliate Recommended viscosity	10 ÷ 420 cSt
Temperature di lavoro Working temperature	-20 ÷ +90 °C
Filtrazione assoluta Absolute filtration	25 µ



Dimensioni Dimensions	L	L1	L2	L3	L4
VBS-R-D-38	60	29	30	15	14
VBS-R-D-12	70	35	35	20	15



Sigla di ordinazione / Ordering code

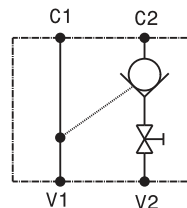
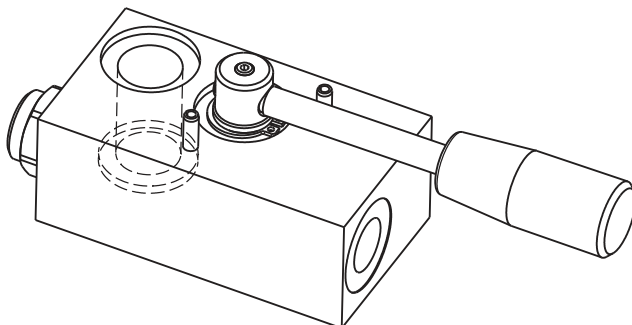


I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

Valvola di blocco pilotata a semplice effetto flangiabile con rubinetto manuale - destro
Flangeable, single effect, pilot operated check valve with manual lever - RH

mod. VBS-F-R-D-38

Corpo in alluminio
Aluminium body

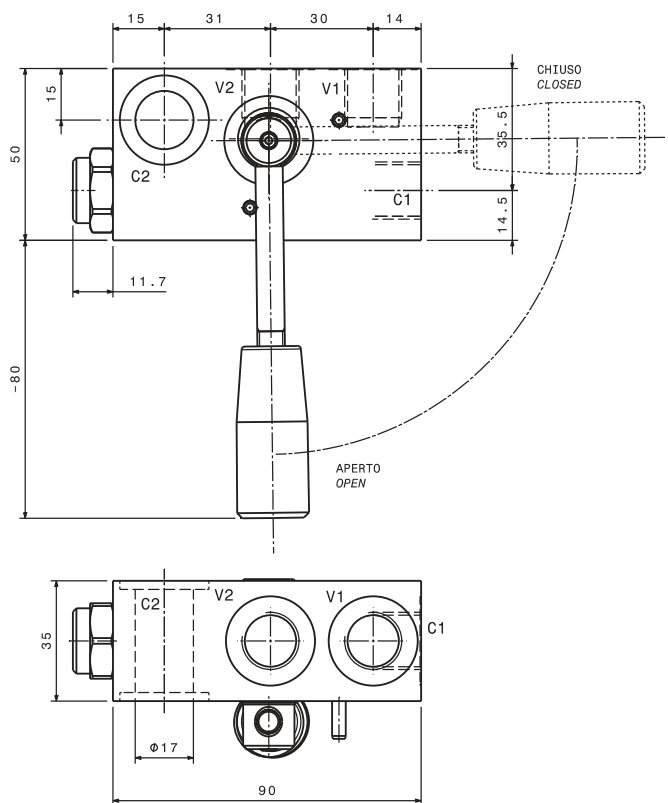


Portata massima <i>Max flow</i>	35 l/min 9 gpm
Pressione massima <i>Max pressure</i>	300 bar 4300 psi
Pressione di apertura <i>Cracking pressure</i>	3 bar 43 psi
Rapporto di pilotaggio <i>Pilot Ratio</i>	4:1

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliata <i>Recommended viscosity</i>	10 ÷ 420 cSt
Temperatura di lavoro <i>Working temperature</i>	-20 ÷ +90 °C
Filtrazione assoluta <i>Absolute filtration</i>	25 µ

Vite cava disponibile a richiesta <i>Nipple screw available upon request</i>	Codice di ordinazione <i>Ordering code</i>
	KITV0001



Sigla di ordinazione / Ordering code

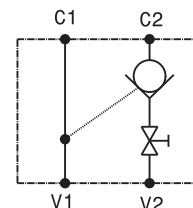
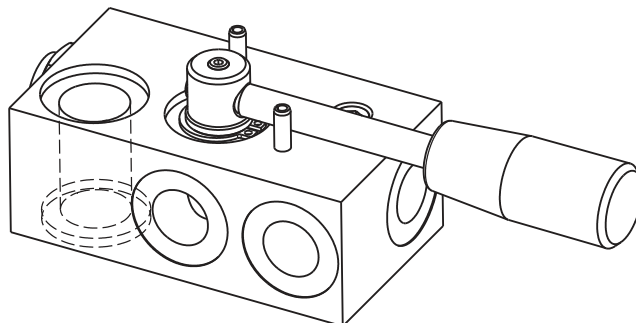
VBS-F-R-D-38	-
Modello <i>Type</i>	- SENZA O-RING WITHOUT O-RING OR SUL PISTONE O-RING SUL PISTONE PILOTAGGIO O-RING ON PILOT PISTON

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

Valvola di blocco pilotata a semplice effetto flangiabile con rubinetto manuale - sinistro
Flangeable, single effect, pilot operated check valve with manual lever - LH

mod. VBS-F-R-S-38

Corpo in alluminio
Aluminium body

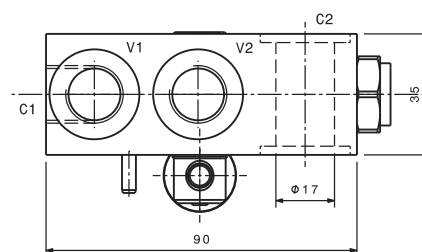
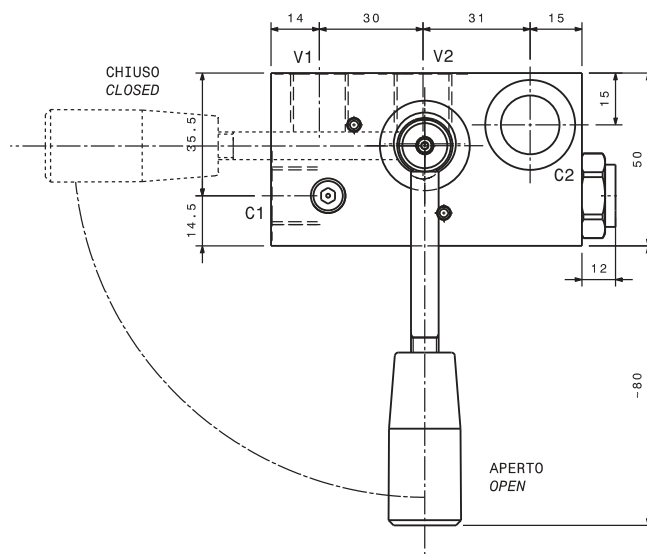


Portata massima <i>Max flow</i>	35 l/min <i>9 gpm</i>
Pressione massima <i>Max pressure</i>	300 bar <i>4300 psi</i>
Pressione di apertura <i>Cracking pressure</i>	3 bar 43 psi
Rapporto di pilotaggio <i>Pilot Ratio</i>	4:1

Dati e tarature ottenuti usando olio con viscosità 30 cSt a 50°C
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C

Viscosità consigliate <i>Recommended viscosity</i>	10 ÷ 420 cSt
Temperatura di lavoro <i>Working temperature</i>	-20 ÷ +90 °C
Filtrazione assoluta <i>Absolute filtration</i>	25 µ

Vite cava disponibile a richiesta Nipple screw available upon request	Codice di ordinazione <i>Ordering code</i>
	KITV0001



Sigla di ordinazione / Ordering code

VBS-F-R-S-38	-
Modello <i>Type</i>	- SENZA O-RING WITHOUT O-RING OR SUL PISTONE O-RING SUL PISTONE PILOTAGGIO O-RING ON PILOT PISTON

I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.