



Valvole elettriche

Solenoid valves



ELETTROVALVOLE SOLENOID VALVES

Sono elettrovalvole a due o più vie con otturatore conico a tenuta perfetta oppure a spola, realizzate nelle varie grandezze e con diversi circuiti.

Le valvole con tenuta a cono possono essere impiegate in applicazioni dove non sono ammessi trafilamenti.

Le valvole a spola sono impiegate per il controllo della direzione dell'olio.

Sono disponibili vari modelli di bobine.

Le cartucce sono progettate in accordo con le cavità standard SAE filettatura UNF.

They are solenoid valves to two or more ways, conical shutter leakproof or spool type, made in various sizes and with different circuits.

Two ways valves poppet type can be used in applications where they are not allowed leakage.

Valves spool type control the direction of the oil.

Various type of coil are available.

Cartridge valve are designed in according to the industrial standard SAE, UNF thread.

INDICE PER TIPO DI VALVOLA INDEX BY VALVE TYPE

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

Valvola elettrica direzionale 2/2 a cartuccia 2/2 solenoid directional valve, cartridge type

	EV082X-C	40	250 (350)	263
	EV082X-C (tenuta a cassetto - <i>spool type</i>)	20	250 (350)	264
	EV102X-C	70	250 (350)	265
	EV122X-C	100	250 (350)	266
	EV162X-C	150	250 (350)	267
	EV202X-C	200	250 (350)	268

Valvola elettrica direzionale 2/2 con emergenza a vite a cartuccia 2/2 solenoid directional valve with emergency screw - cartridge type

	EV082XM-C	40	250 (350)	263
	EV082XM-C (tenuta a cassetto - <i>spool type</i>)	20	250 (350)	264
	EV102XM-C	70	250 (350)	265
	EV122XM-C	100	250 (350)	266
	EV162XM-C	150	250 (350)	267
	EV202XM-C	200	250 (350)	268

Valvola elettrica di messa a scarico 2/2 a cartuccia 2/2 solenoid operated unloading valve, cartridge type

	EV10P2X-C	70	250 (350)	269

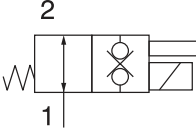
Valvola elettrica direzionale 2/2 a doppia tenuta normalmente chiusa 2/2 solenoid directional valve, bidirectional blocking, normally closed

	EV0822DT-C	40	250 (350)	270
	EV0822DTM-C con vite emergenza / <i>with emergency screw</i>	40	250 (350)	270
	EV1022DT-C	70	250 (350)	271
	EV1022DTM-C con vite emergenza / <i>with emergency screw</i>	70	250 (350)	271

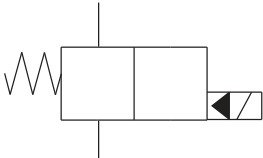
INDICE PER TIPO DI VALVOLA INDEX BY VALVE TYPE

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	(l/min)	(bar)	PAGE

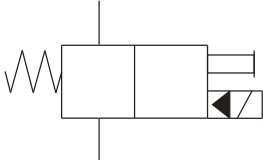
Valvola elettrica direzionale 2/2 a doppia tenuta normalmente aperta
2/2 solenoid directional valve, bidirectional blocking, normally open

	EV0823DT-C	40	250 (350)	270
	EV0823DTM-C con vite emergenza / with emergency screw	40	250 (350)	270
	EV1023DT-C	70	250 (350)	271
	EV1023DTM-C con vite emergenza / with emergency screw	70	250 (350)	271

Valvola elettrica direzionale 2/2
2/2 solenoid directional valve

	EV082X-14	20	250 (350)	272
	EV082X-38	30	250 (350)	272
	EV082X-12	40	250 (350)	272
	EV102X-12	70	250 (350)	274
	EV102X-34	70	250 (350)	274
	EV162X-34	120	250 (350)	275
	EV162X-10	150	250 (350)	275
	EV202X-10	200	250 (350)	276
	EV202X-114	200	250 (350)	276
	EV202X-112	200	250 (350)	276

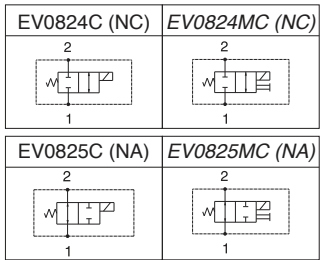
Valvola elettrica direzionale 2/2 con emergenza a vite
2/2 solenoid directional valve with emergency screw

	EV082XM-14	20	250 (350)	272
	EV082XM-38	30	250 (350)	272
	EV082XM-12	40	250 (350)	272
	EV102XM-12	70	250 (350)	274
	EV102XM-34	70	250 (350)	274
	EV162XM-34	120	250 (350)	275
	EV162XM-10	150	250 (350)	275
	EV202XM-10	200	250 (350)	276
	EV202XM-114	200	250 (350)	276
	EV202XM-112	200	250 (350)	276

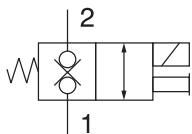
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	(l/min)	(bar)	PAGE

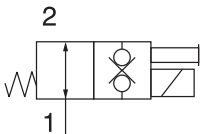
Valvola elettrica direzionale 2/2, tenuta a cassetto
2/2 solenoid directional valve, spool type

	EV082X-14	20	250 (350)	273
	EV082X-38	20	250 (350)	273
	EV082X-12	20	250 (350)	273
	EV082XM-14 con vite emergenza / with emergency screw	20	250 (350)	273
	EV082XM-38 con vite emergenza / with emergency screw	20	250 (350)	273
	EV082XM-12 con vite emergenza / with emergency screw	20	250 (350)	273

Valvola elettrica direzionale 2/2 a doppia tenuta normalmente chiusa
2/2 solenoid directional valve, bidirectional blocking, normally closed

	EV0822DT-14	20	250 (350)	277
	EV0822DT-38	30	250 (350)	277
	EV0822DT-12	40	250 (350)	277
	EV1022DT-12	70	250 (350)	278
	EV1022DT-34	70	250 (350)	278

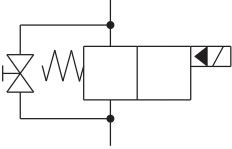
Valvola elettrica direzionale 2/2 a doppia tenuta normalmente aperta
2/2 solenoid directional valve, bidirectional blocking, normally open

	EV0823DT-14	20	250 (350)	277
	EV0823DT-38	30	250 (350)	277
	EV0823DT-12	40	250 (350)	277
	EV1023DT-12	70	250 (350)	278
	EV1023DT-34	70	250 (350)	278

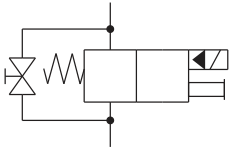
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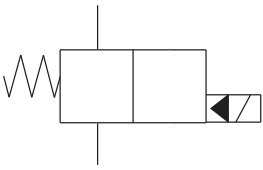
Valvola elettrica direzionale 2/2 con vite di emergenza 2/2 solenoid directional valve with emergency screw

	EV082X-14-VE	20	250 (350)	279
	EV082X-38-VE	30	250 (350)	279
	EV082X-12-VE	40	250 (350)	279
	EV102X-12-VE	70	250 (350)	280
	EV102X-34-VE	70	250 (350)	280
	EV162X-34-VE	120	250 (300)	281
	EV162X-10-VE	150	250 (300)	281
	EV202X-10-VE	200	250 (300)	282
	EV202X-114-VE	200	250 (300)	282
	EV202X-112-VE	200	250 (300)	282

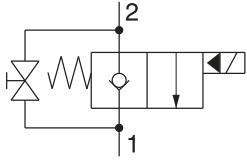
Valvola elettrica direzionale 2/2 con vite di emergenza 2/2 solenoid directional valve with emergency screw

	EV082XM-14-VE	20	250 (350)	279
	EV082XM-38-VE	30	250 (350)	279
	EV082XM-12-VE	40	250 (350)	279
	EV102XM-12-VE	70	250 (350)	280
	EV102XM-34-VE	70	250 (350)	280
	EV162XM-34-VE	120	250 (300)	281
	EV162XM-10-VE	150	250 (300)	281
	EV202XM-10-VE	200	250 (300)	282
	EV202XM-114-VE	200	250 (300)	282
	EV202XM-112-VE	200	250 (300)	282

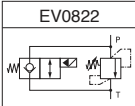
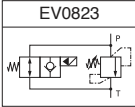
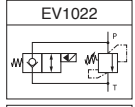
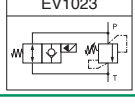
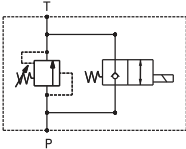
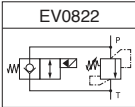
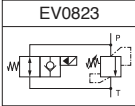
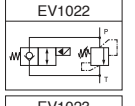
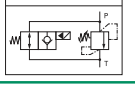
Valvola elettrica direzionale 2/2 a cartuccia, flangiabile con vite cava 2/2 solenoid directional valve, nipple screw flangeable

	EV082X-VC-38	40	250 (350)	283
	EV082XM-VC-38 con vite emergenza / with emergency screw	40	250 (350)	283
	EV082X-VC-12	40	250 (350)	283
	EV082XM-VC-12 con vite emergenza / with emergency screw	40	250 (350)	283

Valvola elettrica direzionale 2/2 a cartuccia, flangiabile con vite cava e con vite di emergenza 2/2 solenoid directional valve, nipple screw flangeable

	EV082X-VC-38-VE	40	250 (350)	284
	EV082XM-VC-38-VE con emergenza a vite / with emergency screw	40	250 (350)	284
	EV082X-VC-12-VE	40	250 (350)	284
	EV082XM-VC-12-VE con emergenza a vite / with emergency screw	40	250 (350)	284

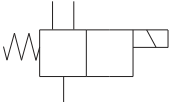
INDICE PER TIPO DI VALVOLA INDEX BY VALVE TYPE

		Q	P	PAGINA
		(l/min)	(bar)	PAGE
Valvola limitatrice di pressione con bypass elettrico <i>Single relief valve with electric bypass</i>				
 EV0822  EV0823	EV082X-VLP40-38	40	250 (300)	295
	EV082X-VLP40-12	40	250 (300)	295
Valvola limitatrice di pressione con bypass elettrico <i>Single relief valve with electric bypass</i>				
 EV1022  EV1023	EV102X-VLP80-34	70	250 (300)	286
Valvola limitatrice di pressione con bypass elettrico <i>Single relief valve with electric bypass</i>				
	EV162X-VLP130-34	130	250 (300)	287
	EV162X-VLP130-10	130	250 (300)	287
Valvola limitatrice di pressione compensata con bypass elettrico <i>Single relief valve pressure compensated with electric bypass</i>				
 EV0822  EV0823	EV082X-VLP40CC-38	40	250 (300)	288
	EV082X-VLP40CC-12	40	250 (300)	288
Valvola limitatrice di pressione compensata con bypass elettrico <i>Single relief valve pressure compensated with electric bypass</i>				
 EV1022  EV1023	EV102X-VLP80CC-34	70	250 (300)	289

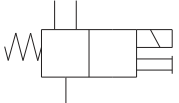
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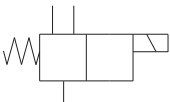
Valvola elettrica direzionale 3/2 a cartuccia , tenuta a cassetto
3/2 solenoid directional valve spool type, cartridge type

	EV083X-C	20	250 (350)	290
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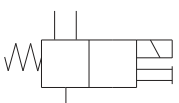
Valvola elettrica direzionale 3/2 a cartuccia, tenuta a cassetto, con vite emergenza
3/2 solenoid directional valve spool type, with emergency screw - cartridge type

	EV0830M-C	20	250 (350)	290
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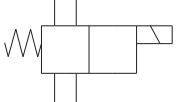
Valvola elettrica direzionale 3/2 a cartuccia, tenuta a cassetto
3/2 solenoid directional valve spool type - cartridge type

	EV083X	20	250 (350)	291
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Valvola elettrica direzionale 3/2, tenuta a cassetto, con vite emergenza
3/2 solenoid directional valve spool type, with emergency screw

	EV083XM	20	250 (350)	291
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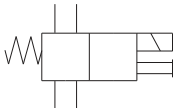
Valvola elettrica direzionale 4/2 a cartuccia, tenuta a cassetto
4/2 solenoid directional valve, spool type - cartridge

	EV084X-C	20	250 (350)	292
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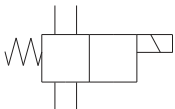
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	(l/min)	(bar)	PAGE

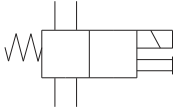
Valvola elettrica direzionale 4/2 a cartuccia, tenuta a cassetto, con vite emergenza
4/2 solenoid directional valve with emergency screw, spool type - cartridge

	EV084XM-C	20	250 (350)	292
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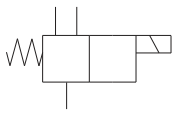
Valvola elettrica direzionale 4/2, tenuta a cassetto
4/2 solenoid directional valve spool type

	EV084X	20	250 (350)	293
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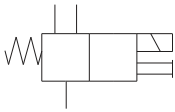
Valvola elettrica direzionale 4/2, tenuta a cassetto, con vite emergenza
4/2 solenoid directional valve spool type, with emergency screw

	EV084XM	20	250 (350)	293
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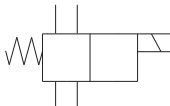
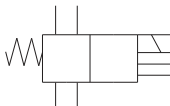
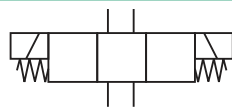
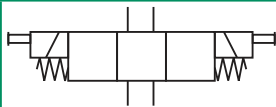
Valvola elettrica direzionale 3/2, tenuta a cassetto
3/2 solenoid directional valve spool type

	EV103X-C	30	250 (350)	294
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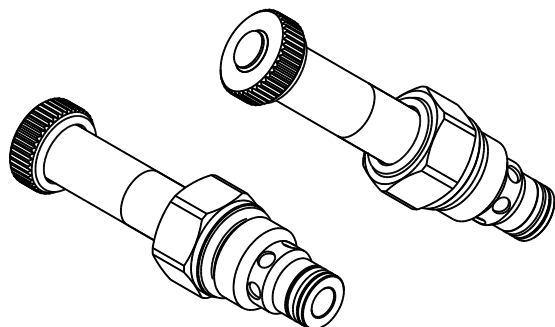
Valvola elettrica direzionale 3/2 a cartuccia, tenuta a cassetto, con vite emergenza
3/2 solenoid directional valve spool type, with emergency screw - cartridge type

	EV103XM-C	30	250 (350)	294
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INDICE PER TIPO DI VALVOLA INDEX BY VALVE TYPE

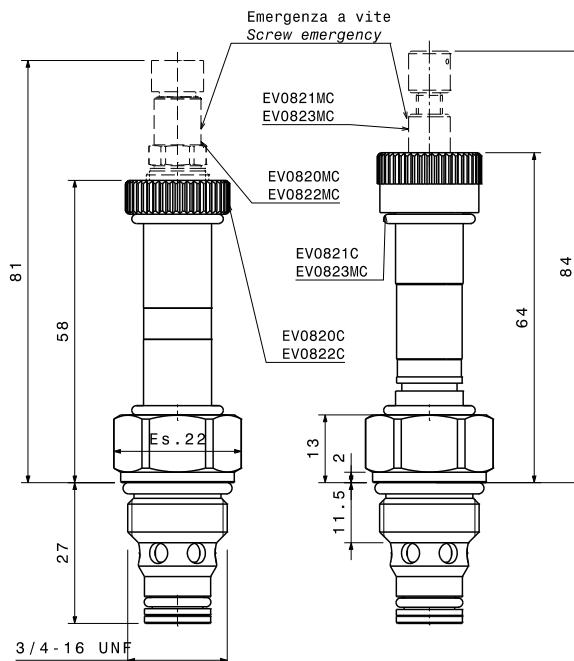
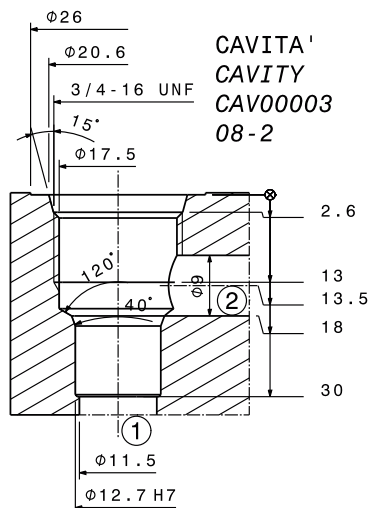
		Q	P	PAGINA
		(l/min)	(bar)	PAGE
Valvola elettrica direzionale 4/2 a cartuccia, tenuta a cassetto 4/2 solenoid directional valve spool type - cartridge type				
	EV104X-C	30	250 (350)	295
Valvola elettrica direzionale 4/2, tenuta a cassetto, con vite emergenza 4/2 solenoid directional valve spool type, with emergency screw				
	EV104XM-C	30	250 (350)	295
Valvola elettrica direzionale 4/3 a cartuccia, tenuta a cassetto 4/3 solenoid directional valve spool type - cartridge type				
	EV10-4-3X-C	25	250 (350)	296
Valvola elettrica direzionale 4/3 a cartuccia, tenuta a cassetto, con vite emergenza 4/3 solenoid directional valve spool type with emergency screw - cartridge type				
	EV10-4-3MX-C	25	250 (350)	296
Bobina standard per elettrovalvole a tenuta Standard coil for poppet type solenoid cartridges				
	S1	-	-	297
Bobina standard per elettrovalvole a cassetto Standard coil for spool type solenoid cartridges				
	S2	-	-	298
Connettori elettrici DIN43650 Electrical connectors DIN43650				
	C1	-	-	299

Valvola elettrica direzionale 2/2 a cartuccia
2/2 solenoid directional valve, cartridge type
mod. EV-08-2X-C



EV0820-C	EV0821-C	EV0820M-C	EV0821M-C
EV0822-C	EV0823-C	EV0822M-C	EV0823M-C

Portata massima Max flow	40 l/min 10.5 gpm
Pressione massima Max pressure	EV-08-2X-C 250 bar 3600 psi EV-08-2X-C-Y (Su richiesta) (Upon request) 350 bar 5000 psi
Coppia di serraggio Installation torque	27 ÷ 30 Nm 20 ÷ 23 lbf ft
Dati e tarature ottenuti usando olio a 30 cSt a 50°C. Viscosità raccomandate 10 ÷ 420 cSt. Temperature di lavoro -20÷+90 °C. Filtrazione assoluta 25 µ. Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C (122 F). Recommended viscosity 10 ÷ 420 cSt, working temperature -20÷+90 °C (-4 F÷194 F). Absolute filtration 25 µ.	

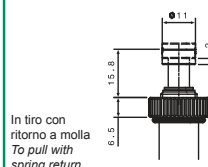


For flow diagram see
PRESSURE DROP SOLENOID VALVE (1)

Perdite interne: max. 5 gocce/minuto a 250 bar
Internal leakage: max. 5 drops/min at 250 bar

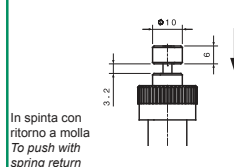
Emergenze disponibili su richiesta
Emergency available upon request

Normally closed



In tiro con
ritorno a molla
To pull with
spring return

Normally open



In spinta con
ritorno a molla
To push with
spring return

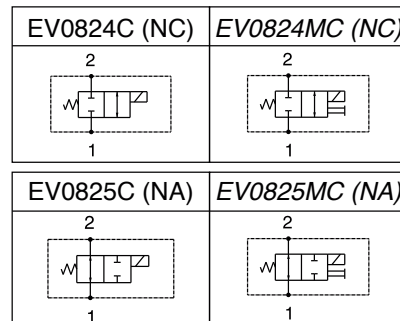
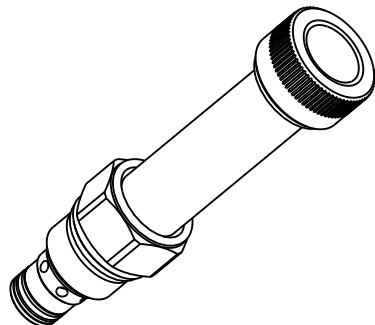
**
M standard emergency screw type
MT pull (only for normally closed)
MS push (only for normally open)

Sigla di ordinazione / Ordering code

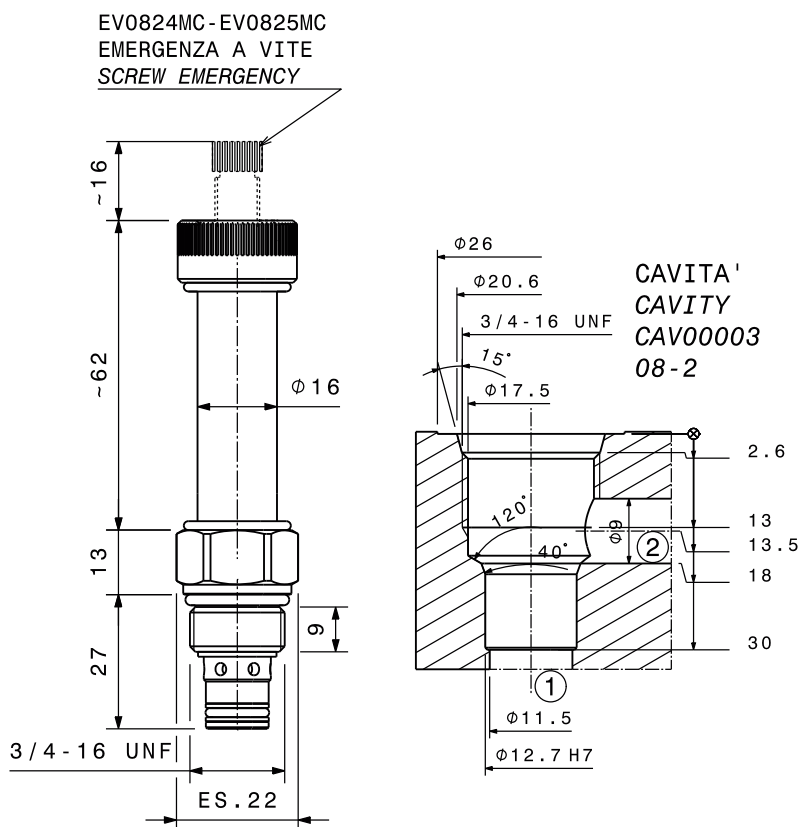
EV-08-20	C*	- Pressione massima 250 bar Max Pressure 250 bar Y Pressione massima 350 bar Max pressure 350 bar
Modello/Type		
EV0820 EV0821 EV0822 EV0823 EV0820M** EV0821M** EV0822M** EV0823M**		* Bobina venduta separatamente mod. S1 * Coil sold separately mod. S1

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.

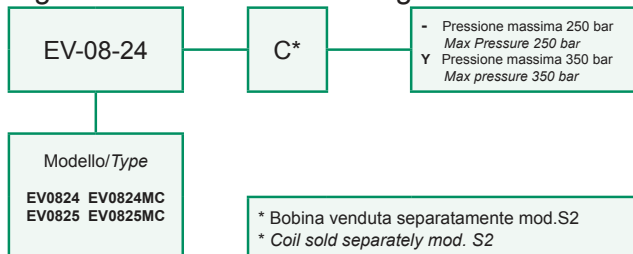
Valvola elettrica direzionale 2/2 con tenuta a cassetto, a cartuccia
2/2 solenoid directional valve, spool type - cartridge
mod. EV08-2X-C



Portata massima <i>Max flow</i>	20 l/min 5.3 gpm	
Pressione massima <i>Max pressure</i>	EV-08-2X-C	250 bar 3600 psi
	EV-08-2X-C-Y (Su richiesta) (Upon request)	350 bar 5000 psi
Coppia di serraggio <i>Installation torque</i>	27 ÷ 30 Nm 20 ÷ 22.5 lbf ft	
Dati e tarature ottenuti usando olio a 30 cSt a 50°C. Viscosità raccomandate 10 ÷ 420 cSt. Temperature di lavoro -20÷+90 °C. Filtrazione assoluta 25 µ. <i>Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C (122 F). Recommended viscosity 10 ÷ 420 cSt, working temperature -20÷+90 °C (-4 F÷194 F). Absolute filtration 25 µ.</i>		



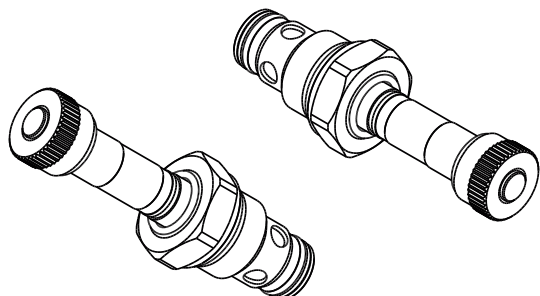
Sigla di ordinazione / Ordering code



For flow diagram see
PRESSURE DROP SOLENOID VALVE (2)

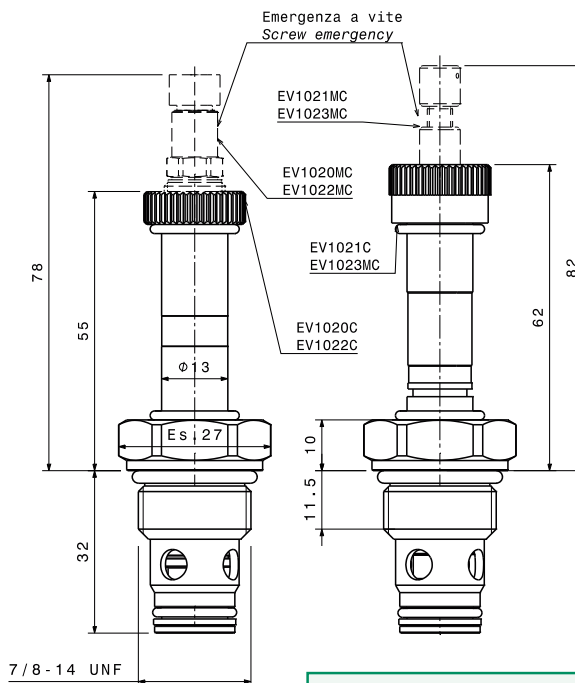
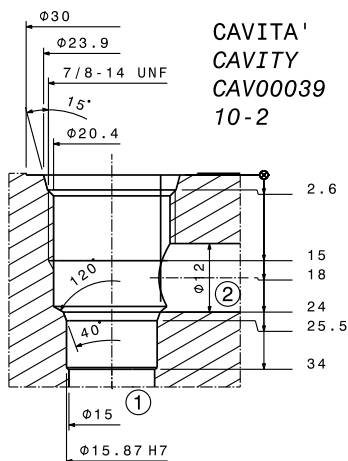
I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, **CBF** reserves the right to introduce modifications without notice.

Valvola elettrica direzionale 2/2 a cartuccia
2/2 solenoid directional valve, cartridge type
mod. EV-10-2X-C



EV1020-C	EV1021-C	EV1020M-C	EV1021M-C
EV1022-C	EV1023-C	EV1022M-C	EV1023M-C

Portata massima <i>Max flow</i>	70 l/min 18.5 gpm	
Pressione massima <i>Max pressure</i>	EV-10-2X-C	250 bar 3600 psi
	EV-10-2X-C-Y (Su richiesta) (Upon request)	350 bar 5000 psi
Coppia di serraggio <i>Installation torque</i>	45 ÷ 50 Nm 33 ÷ 37 lbf ft	
Dati e tarature ottenuti usando olio a 30 cSt a 50°C. Viscosità raccomandate 10 + 420 cSt. Temperature di lavoro -20+90 °C. Filtrazione assoluta 25 µ. Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C (122 F). Recommended viscosity 10 ÷ 420 cSt, working temperature -20+90 °C (-4 F+194 F). Absolute filtration 25 µ.		

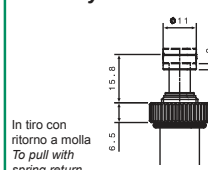


For flow diagram see
PRESSURE DROP SOLENOID VALVE (3)

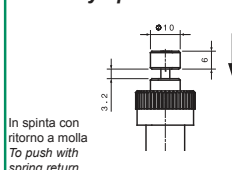
Perdite interne: max. 5 gocce/minuto a 250 bar
Internal leakage: max. 5 drops/min at 250 bar

Emergenze disponibili su richiesta
Emergency available upon request

Normally closed



Normally open



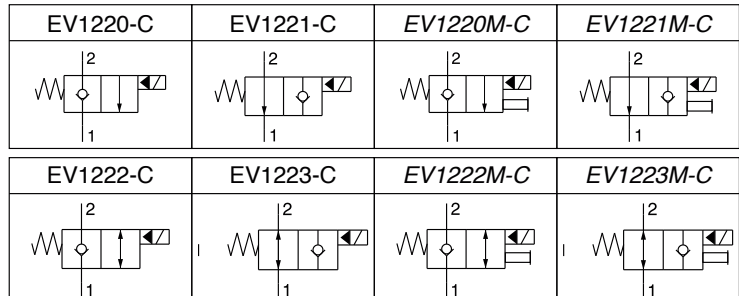
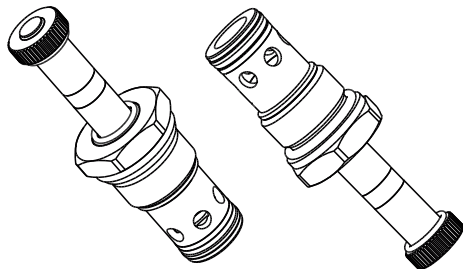
**
M standard emergency screw type
MT pull (only for normally closed)
MS push (only for normally open)

Sigla di ordinazione / Ordering code

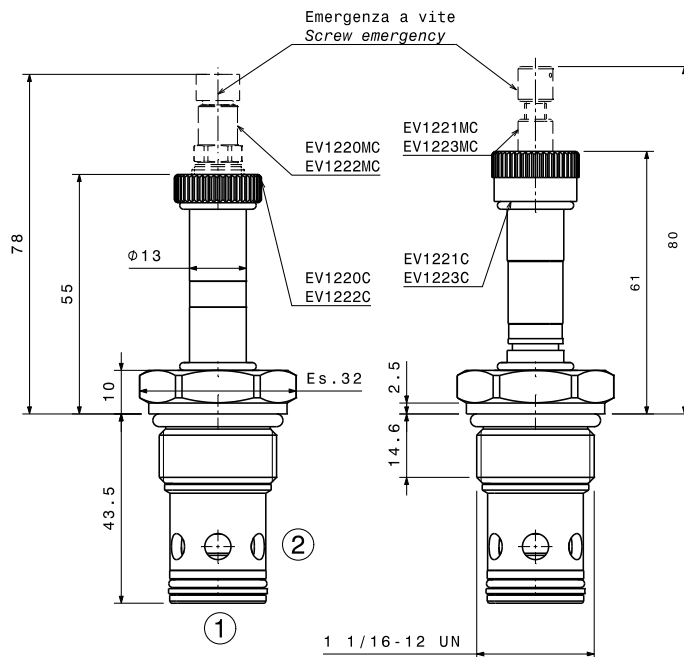
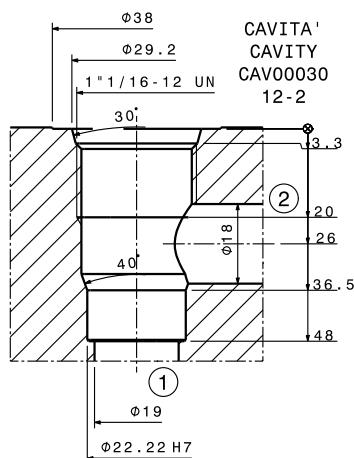
EV-10-20	C*	- Pressione massima 250 bar Max Pressure 250 bar Y Pressione massima 350 bar Max pressure 350 bar
Modello/Type		
EV1020 EV1021		
EV1022 EV1023		
EV1020M** EV1021M**		
EV1022M** EV1023M**		
	* Bobina venduta separatamente mod. S1 * Coil sold separately mod. S1	

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 elettrica direzionale 2/2 a cartuccia
2/2 solenoid directional valve, cartridge type
mod. EV-12-2X-C



Portata massima <i>Max flow</i>	100 l/min 26 gpm	
Pressione massima <i>Max pressure</i>	EV-12-2X-C	250 bar 3600 psi
	EV-12-2X-C-Y (Su richiesta) (Upon request)	350 bar 5000 psi
Coppia di serraggio <i>Installation torque</i>	80 ÷ 100 Nm 60 ÷ 75 lbf ft	
Dati e tarature ottenuti usando olio a 30 cSt a 50°C. Viscosità raccomandate 10 + 420 cSt. Temperature di lavoro -20+90 °C. Filtrazione assoluta 25 µ. <i>Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C (122 F). Recommended viscosity 10 ÷ 420 cSt, working temperature -20+90 °C (-4 F+194 F). Absolute filtration 25 µ.</i>		

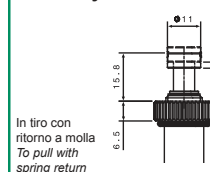


For flow diagram see
PRESSURE DROP SOLENOID VALVE (4)

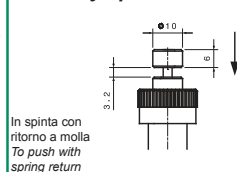
Perdite interne: max. 5 gocce/minuto a 250 bar
Internal leakage: max. 5 drops/min at 250 bar

Emergenze disponibili su richiesta
Emergency available upon request

Normally closed

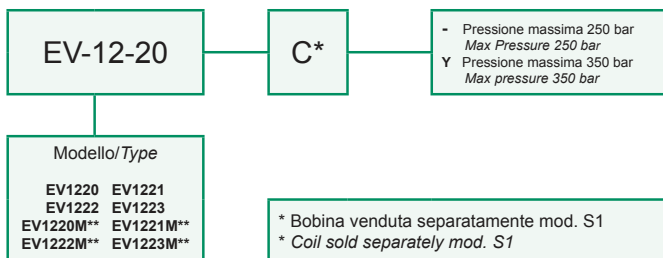


Normally open



**
M standard emergency screw type
MT pull (only for normally closed)
MS push (only for normally open)

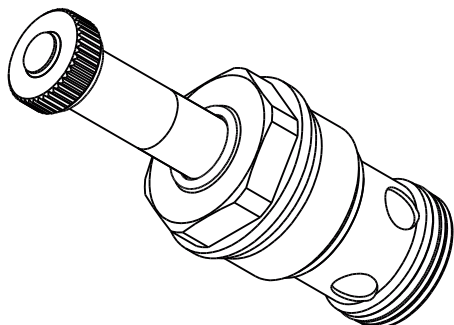
Sigla di ordinazione / Ordering code



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 elettrica direzionale 2/2 a cartuccia
2/2 solenoid directional valve, cartridge type

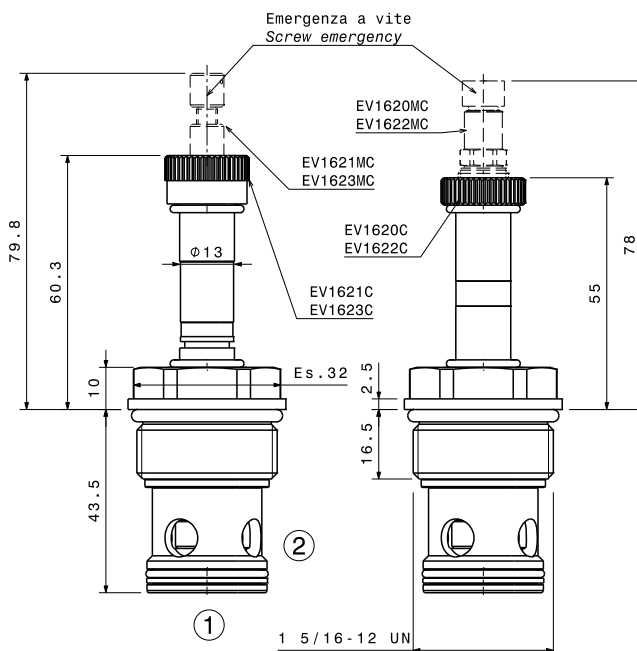
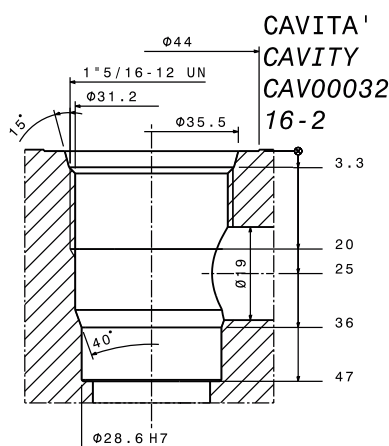
mod. EV-16-2X-C



EV1620-C	EV1621-C	EV1620M-C	EV1621M-C
EV1622-C	EV1623-C	EV1622M-C	EV1623M-C

Portata massima Max flow	150 l/min 40 gpm
Pressione massima Max pressure	EV-16-2X-C 250 bar 3600 psi EV-16-2X-C-Y (Su richiesta) (Upon request) 350 bar 5000 psi
Coppia di serraggio Installation torque	180 ÷ 210 Nm 130 ÷ 150 lbf ft

Dati e tarature ottenuti usando olio a 30 cSt a 50°C.
Viscosità raccomandate 10 ÷ 420 cSt. Temperature di lavoro -20÷+90 °C. Filtrazione assoluta 25 µ.
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C (122 F). Recommended viscosity 10 ÷ 420 cSt, working temperature -20÷+90 °C (-4 F÷194 F). Absolute filtration 25 µ.



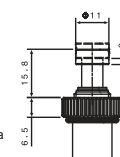
For flow diagram see
PRESSURE DROP SOLENOID VALVE (5)

Perdite interne: max. 5 gocce/minuto a 250 bar
Internal leakage: max. 5 drops/min at 250 bar

Emergenze disponibili su richiesta
Emergency available upon request

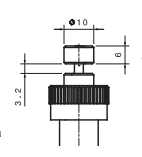
Normally closed

In tiro con
ritorno a molla
To pull with
spring return



Normally open

In spinta con
ritorno a molla
To push with
spring return



**
M standard emergency screw type
MT pull (only for normally closed)
MS push (only for normally open)

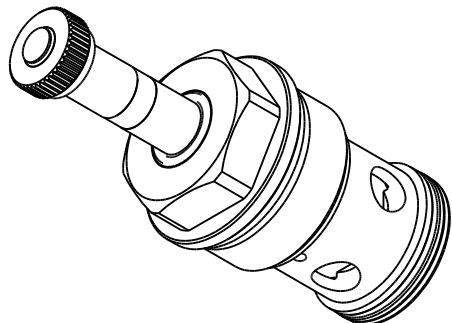
Sigla di ordinazione / Ordering code

EV1620	C*	- Pressione massima 250 bar Max Pressure 250 bar Y Pressione massima 350 bar Max pressure 350 bar
Modello/Type		
EV1620 EV1621		
EV1622 EV1623		
EV1620M** EV1621M**		
EV1622M** EV1623M**		

* Bobina venduta separatamente mod. S1
* Coil sold separately mod. S1

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Valvola elettrica direzionale 2/2 a cartuccia
2/2 solenoid *directional valve, cartridge type*
mod. EV-20-2X-C

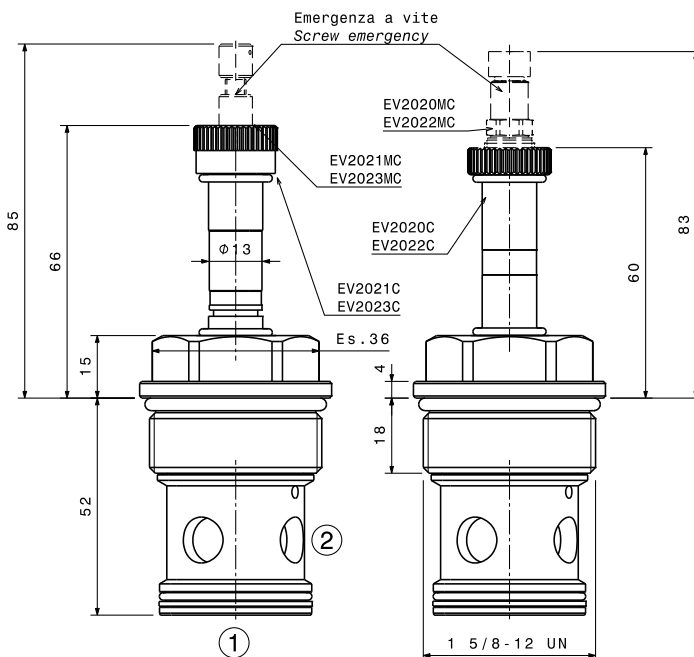
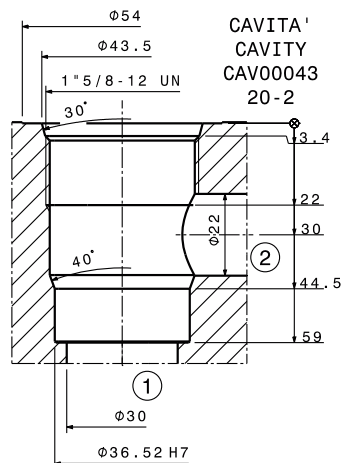


EV2020-C	EV2021-C	EV2020M-C	EV2021M-C
EV2022-C	EV2023-C	EV2022M-C	EV2023M-C

Portata massima <i>Max flow</i>	200 l/min <i>53 gpm</i>	
Pressione massima <i>Max pressure</i>	EV-20-2X-C	250 bar <i>3600 psi</i>
	EV-20-2X-C-Y (Su richiesta) (Upon request)	350 bar <i>5000 psi</i>
Coppia di serraggio <i>Installation torque</i>	230 ÷ 250 Nm <i>170 ÷ 190 lbf ft</i>	

Dati e tarature ottenuti usando olio a 30 cSt a 50°C.
 Viscosità raccomandate 10 ÷ 420 cSt. Temperature di lavoro -20÷+90 °C. Filtrazione assoluta 25 µ.

Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C (122 F). Recommended viscosity 10 ÷ 420 cSt, working temperature -20÷+90 °C (-4 F÷194 F). Absolute filtration 25 µ.



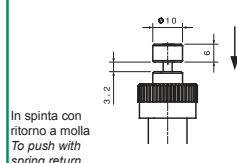
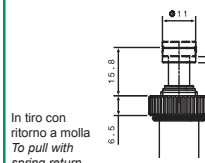
For flow diagram see
PRESSURE DROP SOLENOID VALVE (6)

Perdite interne: max. 5 gocce/minuto a 250 bar
Internal leakage: max. 5 drops/min at 250 bar

Emergenze disponibili su richiesta
Emergency available upon request

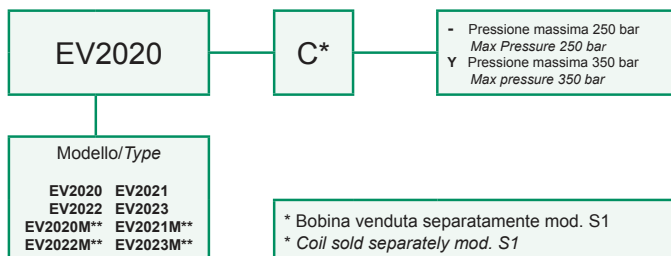
Normally closed

Normally open



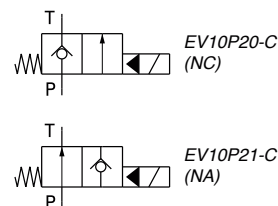
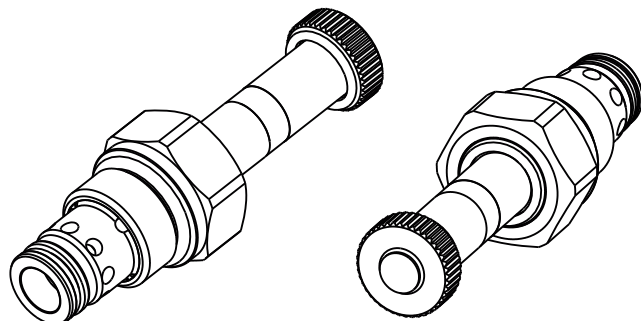
M standard emergency screw type
MT pull (only for normally closed)
MS push (only for normally open)

Sigla di ordinazione / Ordering code

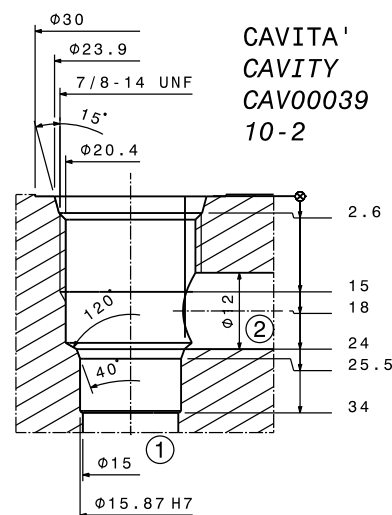
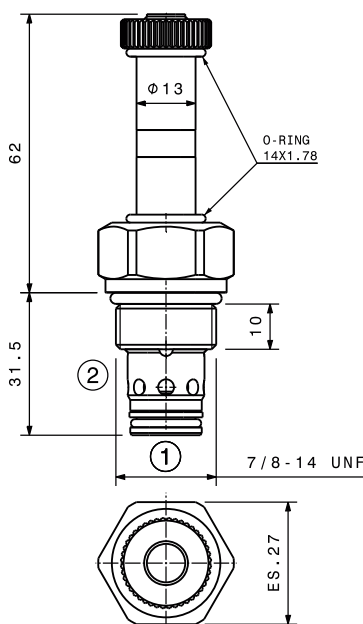


I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
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Valvola elettrica di messa a scarico 2/2 a cartuccia
2/2 solenoid operated unloading valve, cartridge type
mod. EV-10P2X-C



Portata massima <i>Max flow</i>	70 l/min 18.5 gpm	
Pressione massima <i>Max pressure</i>	EV-10-P2X-C	250 bar 3600 psi
	EV-10-P2X-C-Y (Su richiesta) (Upon request)	350 bar 5000 psi
Pressione apertura <i>Cracking pressure</i>	2 bar 29 psi	
Coppia di serraggio <i>Installation torque</i>	45 ÷ 50 Nm 33 ÷ 37 lbf ft	
Dati e tarature ottenuti usando olio a 30 cSt a 50°C. Viscosità raccomandate 10 ÷ 420 cSt. Temperature di lavoro -20÷+90 °C. Filtrazione assoluta 25 µ. Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C (122 F). Recommended viscosity 10 ÷ 420 cSt, working temperature -20÷+90 °C (-4 F÷194 F). Absolute filtration 25 µ.		



Sigla di ordinazione / Ordering code

EV10P20	C*	- Pressione massima 250 bar Max Pressure 250 bar Y Pressione massima 350 bar Max pressure 350 bar
Modello/Type EV10P20 (NC) EV10P21 (NA)	* Bobina venduta separatamente mod. S1 * Coil sold separately mod. S1	

Emergenze disponibili su richiesta
 Emergency available upon request

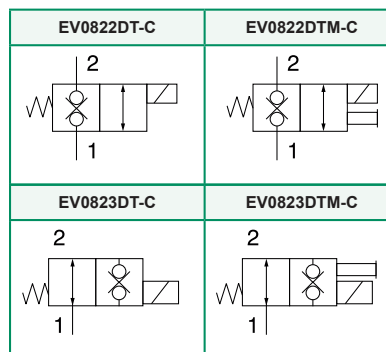
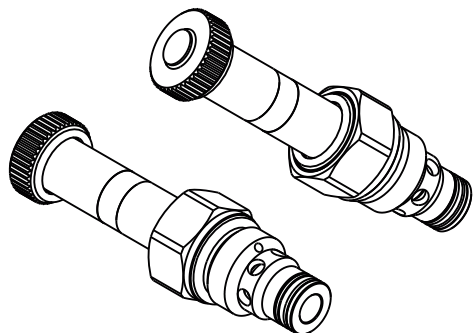
Normally closed In tiro con ritorno a molla To pull with spring return	Normally open In spinta con ritorno a molla To push with spring return
---	---

M standard emergency screw type
MT pull (only for normally closed)
MS push (only for normally open)

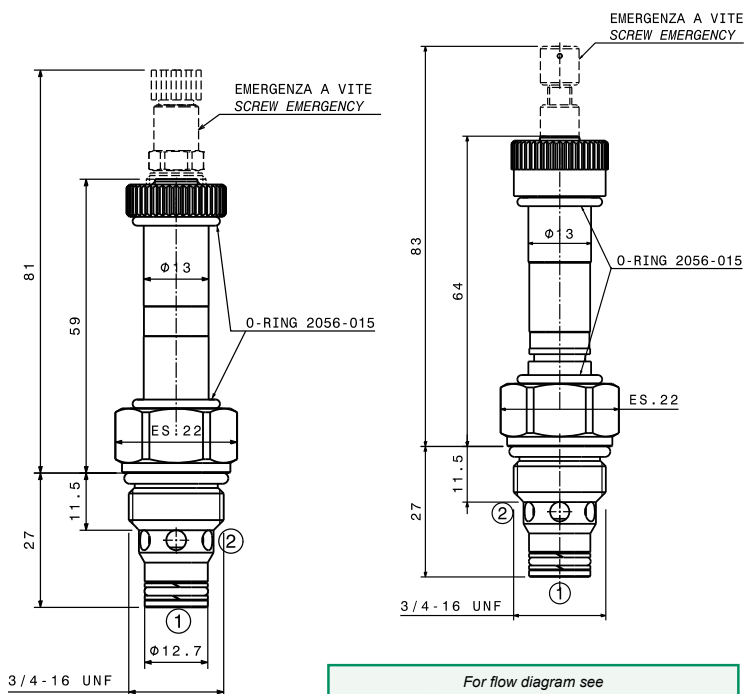
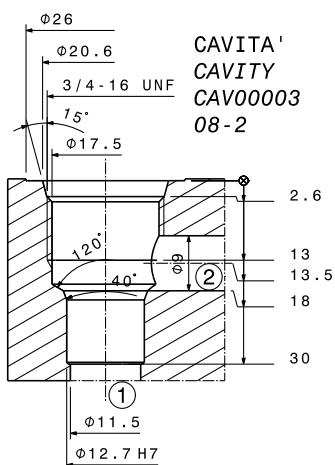
I dati non sono impegnativi, CBF si riserva di apportare modifiche senza preavviso.
 The specifications are not binding, CBF reserves the right to introduce modifications without notice.

Valvola elettrica direzionale 2/2 a doppia tenuta
2/2 solenoid directional valve, bidirectional blocking

mod. EV-08-2X-DT-C



Portata massima <i>Max flow</i>	40 l/min 10.5 gpm	
Pressione massima <i>Max pressure</i>	EV-08-22-DT-C	250 bar 3600 psi
	EV-08-22-DT-C-Y (Su richiesta) (Upon request)	350 bar 5000 psi
Coppia di serraggio <i>Installation torque</i>	27 ÷ 30 Nm 20 ÷ 23 lbf ft	
Dati e tarature ottenuti usando olio a 30 cSt a 50°C. Viscosità raccomandate 10 ÷ 420 cSt. Temperature di lavoro -20÷+90 °C. Filtrazione assoluta 25 µ. <i>Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C (122 F). Recommended viscosity 10 ÷ 420 cSt, working temperature -20÷+90 °C (-4 F÷194 F). Absolute filtration 25 µ.</i>		

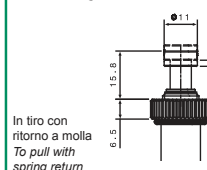


For flow diagram see
PRESSURE DROP SOLENOID VALVE (7)

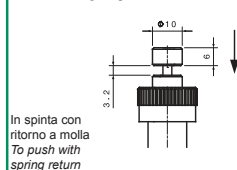
Perdite interne: max. 5 gocce/minuto a 250 bar
Internal leakage: max. 5 drops/min at 250 bar

Emergenze disponibili su richiesta
Emergency available upon request

Normally closed



Normally open



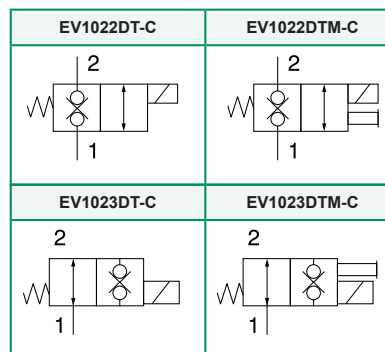
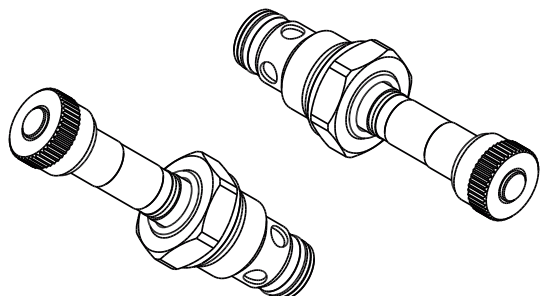
**
M standard emergency screw type
MT pull (only for normally closed)
MS push (only for normally open)

Sigla di ordinazione / Ordering code

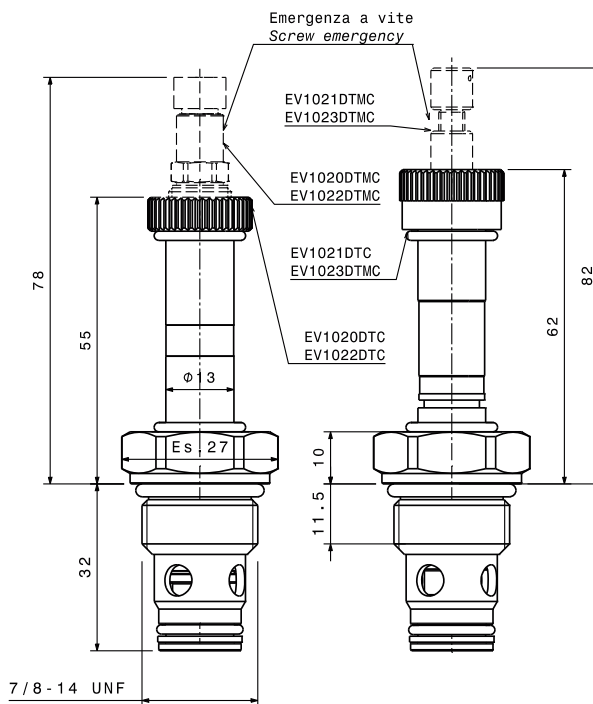
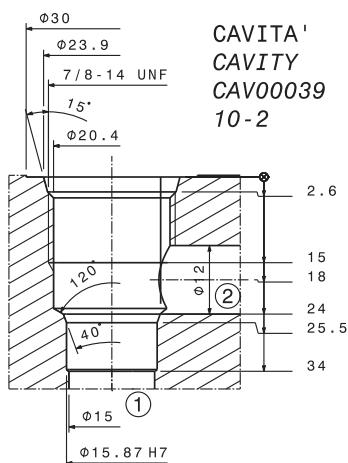
EV0822DT	C*	- Pressione massima 250 bar Max Pressure 250 bar - Y Pressione massima 350 bar Max pressure 350 bar
Modello/Type		
EV0822DT EV0823DT EV0822DTM** EV0823DTM**	* Bobina venduta separatamente mod. S1 * Coil sold separately mod. S1	

I dati non sono impegnativi, CBF si riserva di apportare modifiche senza preavviso.
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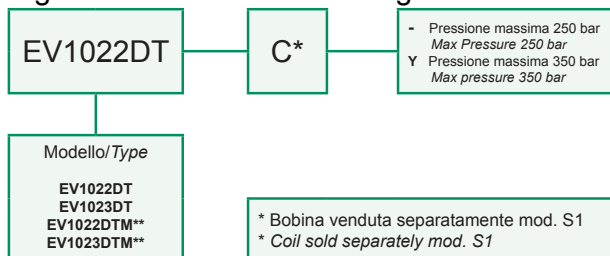
Valvola elettrica direzionale 2/2 a doppia tenuta
2/2 solenoid directional valve, bidirectional blocking
mod. EV-10-2X-DT-C



Portata massima <i>Max flow</i>	70 l/min 18.5 gpm	
Pressione massima <i>Max pressure</i>	EV-10-2*-DT-C	250 bar 3600 psi
	EV-10-2*-DT-C-Y (Su richiesta) (Upon request)	350 bar 5000 psi
Coppia di serraggio <i>Installation torque</i>	45 ÷ 50 Nm 33 ÷ 37 lbf ft	
Dati e tarature ottenuti usando olio a 30 cSt a 50°C. Viscosità raccomandate 10 + 420 cSt. Temperature di lavoro -20++90 °C. Filtrazione assoluta 25 µ. Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C (122 F). Recommended viscosity 10 ÷ 420 cSt, working temperature -20++90 °C (-4 F÷194 F). Absolute filtration 25 µ.		



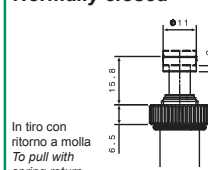
Sigla di ordinazione / Ordering code



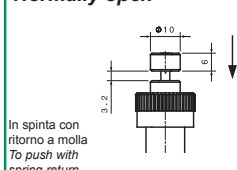
For flow diagram see
PRESSURE DROP SOLENOID VALVE (3)

Emergenze disponibili su richiesta
Emergency available upon request

Normally closed



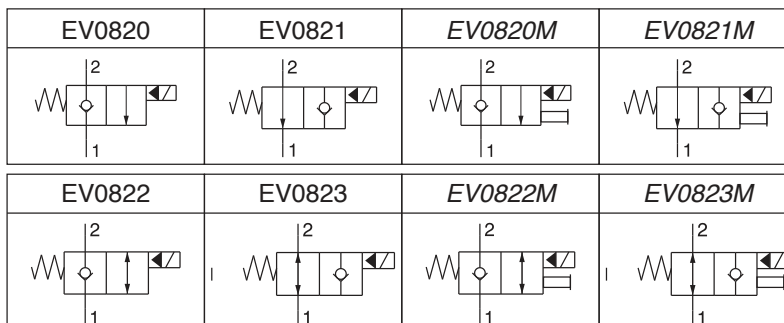
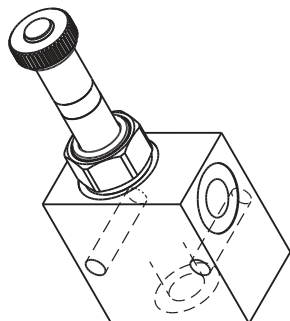
Normally open



**
M standard emergency screw type
MT pull (only for normally closed)
MS push (only for normally open)

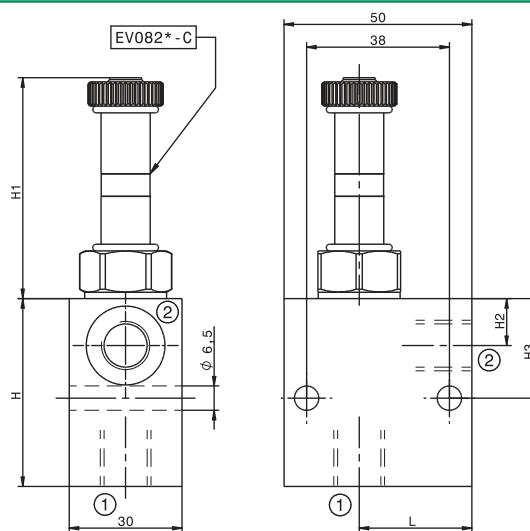
I dati non sono impegnativi, CBF si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

Valvola elettrica direzionale 2/2
 2/2 solenoid directional valve
 mod. EV-08-2X



Portata massima Max flow	40 l/min 10.5 gpm	
Pressione massima Max pressure bar/psi	EV-08-2*-**	250 bar 3600 psi
	EV-08-2*-**-Y (Su richiesta) (Upon request)	350 bar 5000 psi

Modello Type	② ①	H	H1	H2	H3	L
EV0820-14	G1/4	50	59	12.5	26.5	30
EV0820-38	G3/8	60	59	15	36.5	32
EV0820-12	G1/2	60	59	15	36.5	31
EV0821-14	G1/4	50	64	12.5	26.5	30
EV0821-38	G3/8	60	64	15	36.5	32
EV0821-12	G1/2	60	64	15	36.5	31
EV0822-14	G1/4	50	59	12.5	26.5	30
EV0822-38	G3/8	60	59	15	36.5	32
EV0822-12	G1/2	60	59	15	36.5	31
EV0823-14	G1/4	50	64	12.5	26.5	30
EV0823-38	G3/8	60	64	15	36.5	32
EV0823-12	G1/2	60	64	15	36.5	31
EV0820M-14	G1/4	50	81	12.5	26.5	30
EV0820M-38	G3/8	60	81	15	36.5	32
EV0820M-12	G1/2	60	81	15	36.5	31
EV0821M-14	G1/4	50	84	12.5	26.5	30
EV0821M-38	G3/8	60	84	15	36.5	32
EV0821M-12	G1/2	60	84	15	36.5	31
EV0822M-14	G1/4	50	81	12.5	26.5	30
EV0822M-38	G3/8	60	81	15	36.5	32
EV0822M-12	G1/2	60	81	15	36.5	31
EV0823M-14	G1/4	50	84	12.5	26.5	30
EV0823M-38	G3/8	60	84	15	36.5	32
EV0823M-12	G1/2	60	84	15	36.5	31

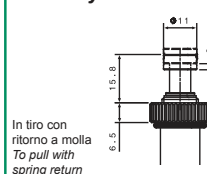


For flow diagram see
 PRESSURE DROP SOLENOID VALVE (1)

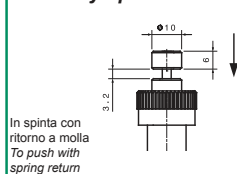
Perdite interne: max. 5 gocce/minuto a 250 bar
 Internal leakage: max. 5 drops/min at 250 bar

Emergenze disponibili su richiesta
 Emergency available upon request

Normally closed



Normally open



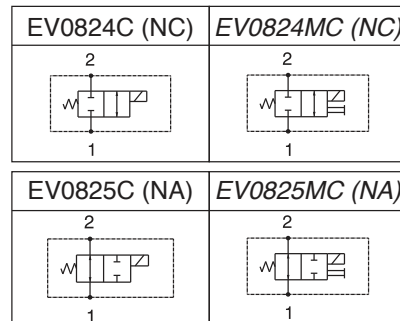
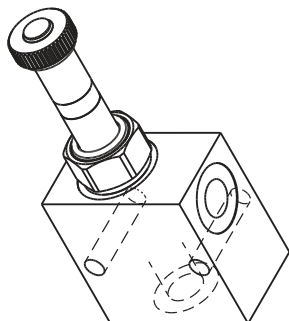
**
 M standard emergency screw type
 MT pull (only for normally closed)
 MS push (only for normally open)

Sigla di ordinazione / Ordering code

EV0820	14	-	- *
Modello / Type	Filettature / Port thread	Materiale / Material	- Pressione massima 250 bar Max Pressure 250 bar
EV0820 EV0821 EV0822 EV0823 EV0820M** EV0821M** EV0822M** EV0823M**	14 G1/4 38 G3/8 12 G1/2	- Alluminio/Aluminium A Acciaio/Steel (su richiesta / upon request)	Y Pressione massima 350 bar Max pressure 350 bar
* Bobina venduta separatamente mod. S1 * Coil sold separately mod. S1			

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.

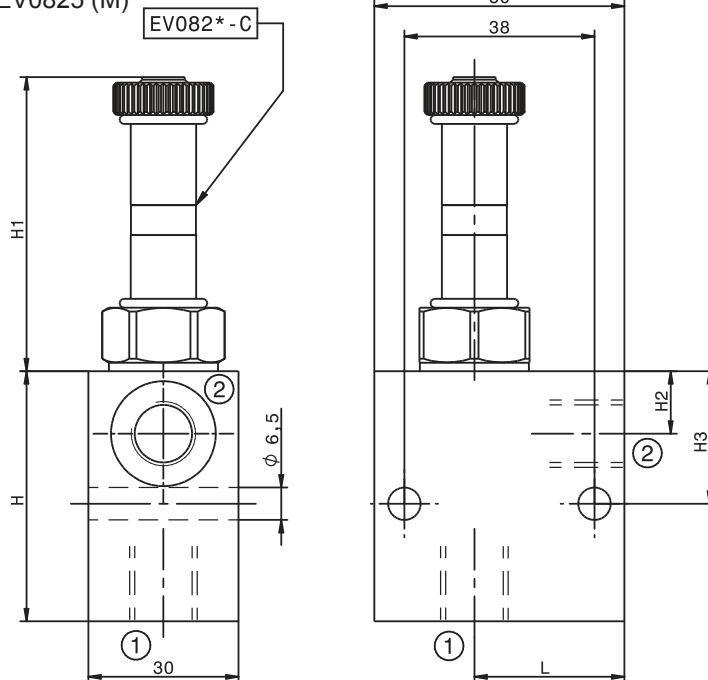
Valvola elettrica direzionale 2/2, tenuta a cassetto
2/2 solenoid directional valve, spool type
mod. EV-08-2X



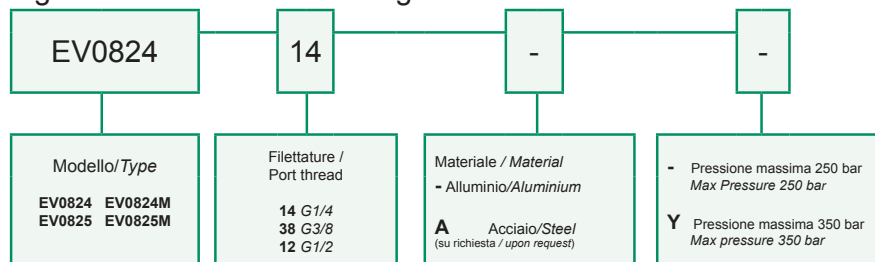
Portata massima Max flow	20 l/min 5.3 gpm	
Pressione massima Max pressure bar/psi	EV-08-2*-**	250 bar 3600 psi
	EV-08-2*-**-Y (Su richiesta) (Upon request)	350 bar 5000 psi

Modello Type	② ①	H	H1	H2	H3	L
EV0824-14	G1/4	50	59	12.5	26.5	30
EV0824-38	G3/8	60	59	15	36.5	32
EV0824-12	G1/2	60	59	15	36.5	31
EV0825-14	G1/4	50	64	12.5	26.5	30
EV0825-38	G3/8	60	64	15	36.5	32
EV0825-12	G1/2	60	64	15	36.5	31
EV0824M-14	G1/4	50	81	12.5	26.5	30
EV0824M-38	G3/8	60	81	15	36.5	32
EV0824M-12	G1/2	60	81	15	36.5	31
EV0825M-14	G1/4	50	84	12.5	26.5	30
EV0825M-38	G3/8	60	84	15	36.5	32
EV0825M-12	G1/2	60	84	15	36.5	31

EV0824 (M)
EV0825 (M)



Sigla di ordinazione / Ordering code

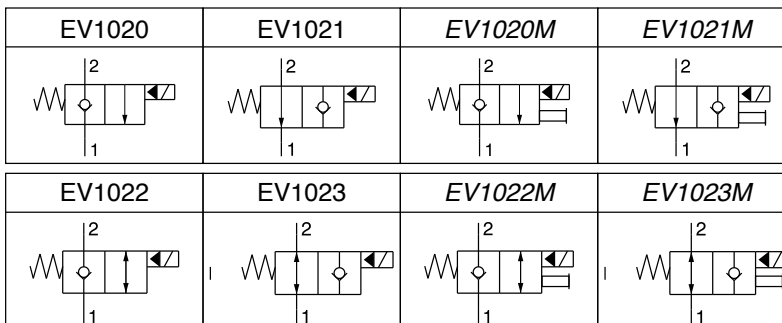
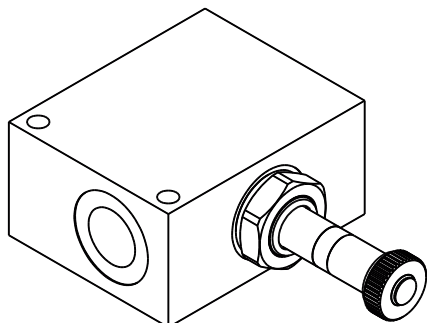


For flow diagram see
PRESSURE DROP SOLENOID VALVE (2)

* Bobina venduta separatamente mod. S2
* Coil sold separately mod. S2

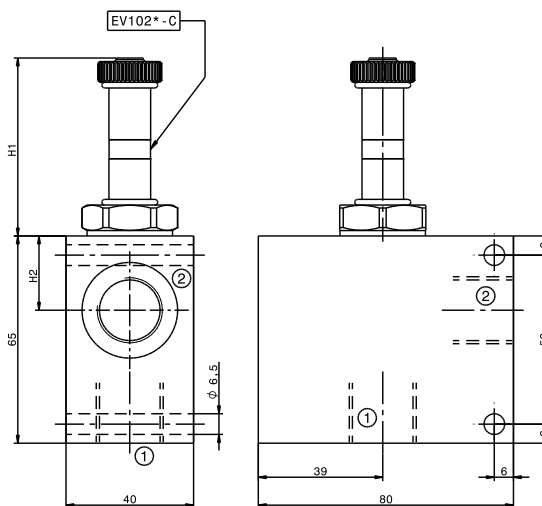
I dati non sono impegnativi, CBF si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

Valvola elettrica direzionale 2/2
 2/2 solenoid directional valve
 mod. EV-10-2X



Portata massima Max flow	70 l/min 18.5 gpm	
Pressione massima Max pressure	EV-10-2*-**	250 bar 3600 psi
	EV-10-2*-**-Y (Su richiesta) (Upon request)	350 bar 5000 psi

Modello Type	② ①	H1	H2
EV1020-12	G1/2	56	23.5
EV1020-34	G3/4	56	25
EV1021-12	G1/2	61	23.5
EV1021-34	G3/4	61	25
EV1022-12	G1/2	56	23.5
EV1022-34	G3/4	56	25
EV1023-12	G1/2	61	23.5
EV1023-34	G3/4	61	25
EV1020M-12	G1/2	78	23.5
EV1020M-34	G3/4	78	25
EV1021M-12	G1/2	81	23.5
EV1021M-34	G3/4	81	25
EV1022M-12	G1/2	78	23.5
EV1022M-34	G3/4	78	25
EV1023M-12	G1/2	81	23.5
EV1023M-34	G3/4	81	25

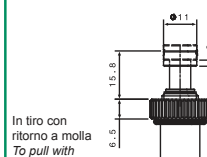


For flow diagram see
 PRESSURE DROP SOLENOID VALVE (3)

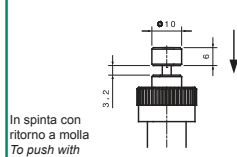
Perdite interne: max. 5 gocce/minuto a 250 bar
 Internal leakage: max. 5 drops/min at 250 bar

Emergenze disponibili su richiesta
 Emergency available upon request

Normally closed

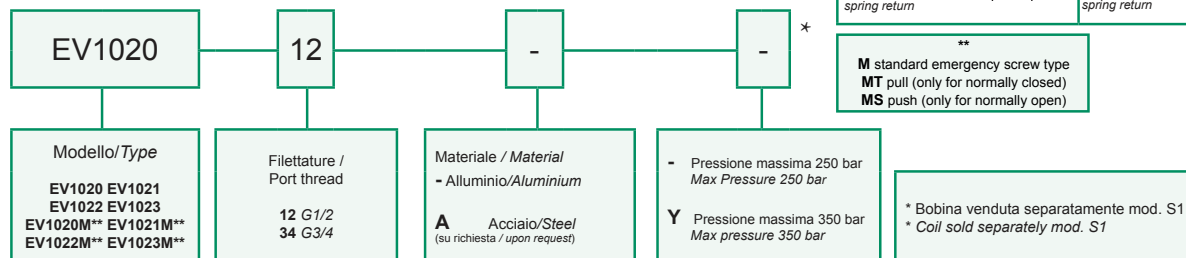


Normally open



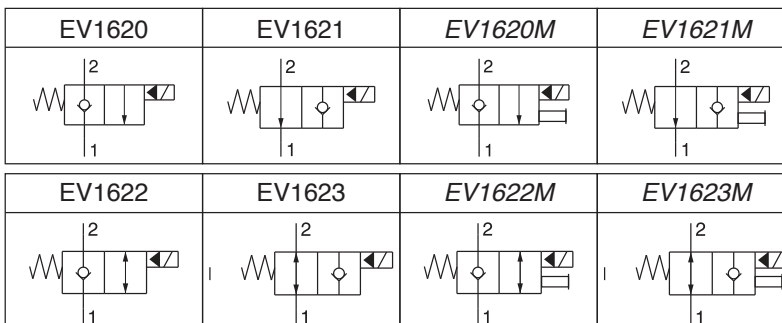
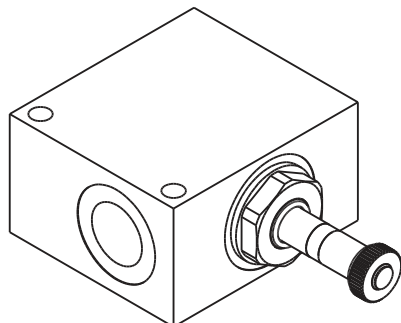
**
 M standard emergency screw type
 MT pull (only for normally closed)
 MS push (only for normally open)

Sigla di ordinazione / Ordering code



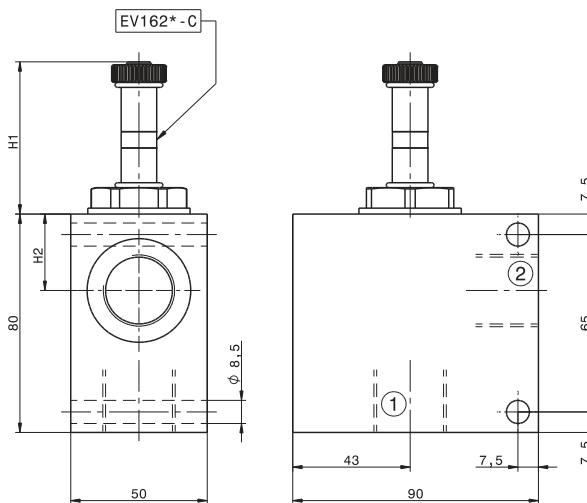
I dati non sono impegnativi, CBF si riserva di apportare modifiche senza preavviso.
 The specifications are not binding, CBF reserves the right to introduce modifications without notice.

Valvola elettrica direzionale 2/2
2/2 solenoid directional valve
mod. EV-16-2X



Portata massima Max flow	150 l/min 40 gpm	
Pressione massima Max pressure	EV-16-2*-**	250 bar 3600 psi
	EV-16-2*-**-Y (Su richiesta) (Upon request)	350 bar 5000 psi

Modello Type	② ①	H1	H2
EV1620-34 EV1620-10	G3/4 G1	56 56	28 31
EV1621-34 EV1621-10	G3/4 G1	61 61	28 31
EV1622-34 EV1622-10	G3/4 G1	56 56	28 31
EV1623-34 EV1623-10	G3/4 G1	61 61	28 31
EV1620M-34 EV1620M-10	G3/4 G1	78 78	28 31
EV1621M-34 EV1621M-10	G3/4 G1	81 81	28 31
EV1622M-34 EV1622M-10	G3/4 G1	78 78	28 31
EV1623M-34 EV1623M-10	G3/4 G1	81 81	28 31

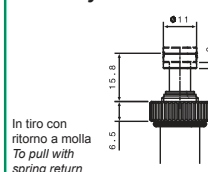


For flow diagram see
PRESSURE DROP SOLENOID VALVE (5)

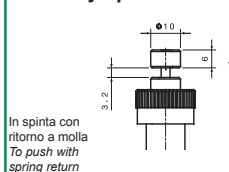
Perdite interne: max. 5 gocce/minuto a 250 bar
Internal leakage: max. 5 drops/min at 250 bar

Emergenze disponibili su richiesta
Emergency available upon request

Normally closed

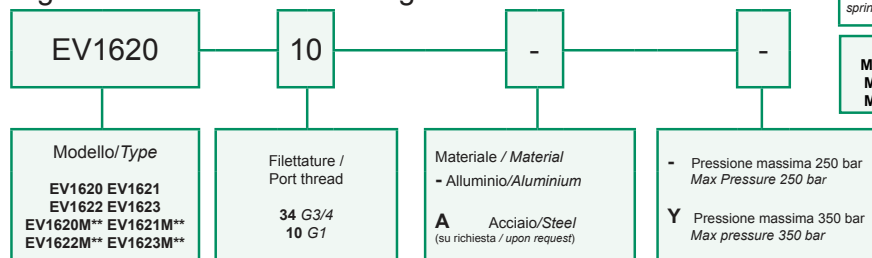


Normally open



**
M standard emergency screw type
MT pull (only for normally closed)
MS push (only for normally open)

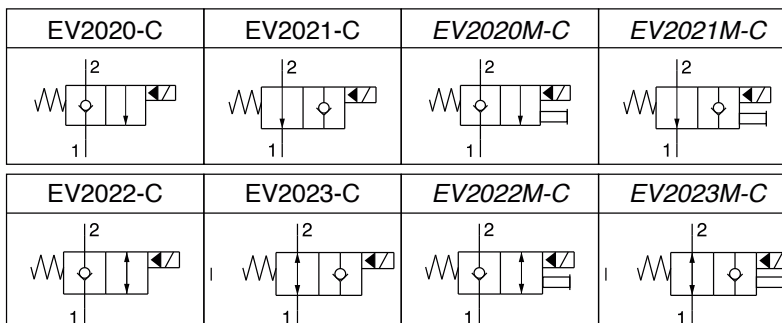
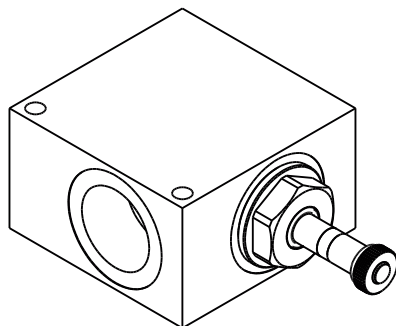
Sigla di ordinazione / Ordering code



* Bobina venduta separatamente mod. S1
* Coil sold separately mod. S1

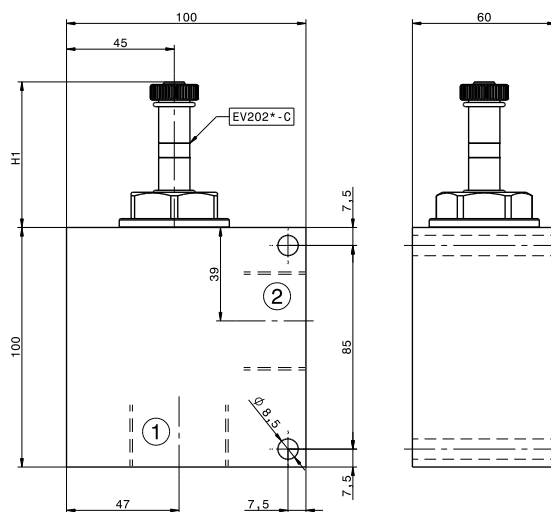
I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
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Valvola elettrica direzionale 2/2
2/2 solenoid directional valve
mod. EV-20-2X



Portata massima <i>Max flow</i>	200 l/min 53 gpm	
Pressione massima <i>Max pressure</i>	EV-20-2*-**	250 bar 3600 psi
	EV-20-2*-**Y (Su richiesta) (Upon request)	350 bar 5000 psi

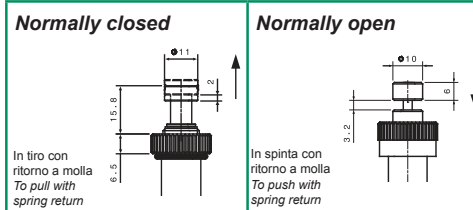
Modello Type	② ①	H1
EV2020-10 EV2020-114 EV2020-112	G1" G1"-1/4 G1"-1/2	61
EV2021-10 EV2021-114 EV2021-112	G1" G1"-1/4 G1"-1/2	66
EV2022-10 EV2022-114 EV2022-112	G1" G1"-1/4 G1"-1/2	61
EV2023-10 EV2023-114 EV2023-112	G1" G1"-1/4 G1"-1/2	66
EV2020M-10 EV2020M-114 EV2020M-112	G1" G1"-1/4 G1"-1/2	83
EV2021M-10 EV2021M-114 EV2021M-112	G1" G1"-1/4 G1"-1/2	85
EV2022M-10 EV2022M-114 EV2022M-112	G1" G1"-1/4 G1"-1/2	83
EV2023M-10 EV2023M-114 EV2023M-112	G1" G1"-1/4 G1"-1/2	85



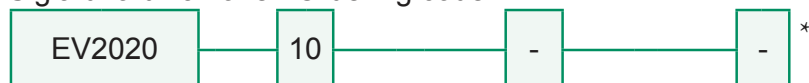
For flow diagram see
PRESSURE DROP SOLENOID VALVE (6)

Perdite interne: max. 5 gocce/minuto a 250 bar
Internal leakage: max. 5 drops/min at 250 bar

Emergenze disponibili su richiesta
Emergency available upon request



Sigla di ordinazione / Ordering code



M standard emergency screw type
MT pull (only for normally closed)
MS push (only for normally open)

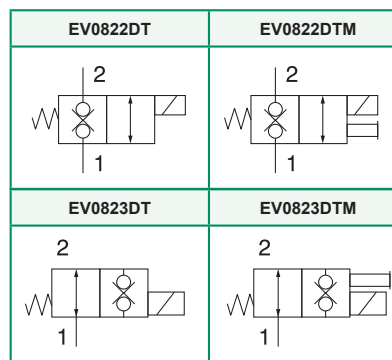
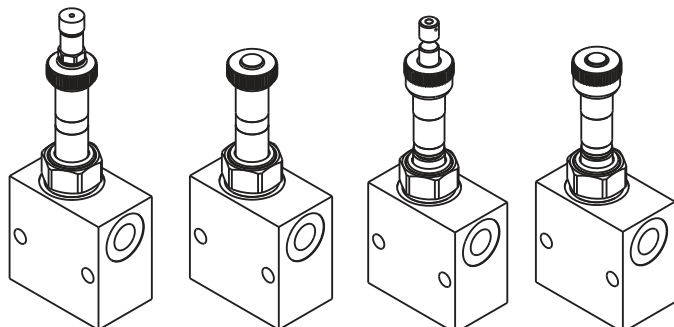
Modello/Type EV2020 EV2021 EV2022 EV2023 EV2020M EV2021M EV2022M EV2023M	Filettature / Port thread 10 G1 114 G1-1/4 112 G1-1/2	Materiale / Material - Alluminio/Aluminium A Acciaio/Steel (su richiesta / upon request)	- Pressione massima 250 bar Max Pressure 250 bar Y Pressione massima 350 bar Max pressure 350 bar
--	---	--	--

* Bobina venduta separatamente mod. S1
* Coil sold separately mod. S1

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 elettrica direzionale 2/2 a doppia tenuta normalmente chiusa
2/2 solenoid directional valve, bidirectional blocking

mod. EV-08-2X-DT



Portata massima Max flow	40 l/min 10.5 gpm	
Pressione massima Max pressure	EV-08-22-DT-**-	250 bar 3600 psi
	EV-08-22-DT-**-Y (Su richiesta) (Upon request)	350 bar 5000 psi

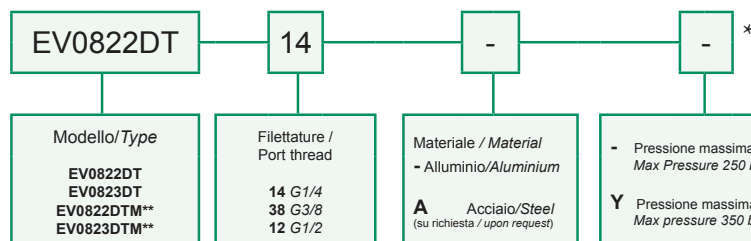
Dati e tarature ottenuti usando olio a 30 cSt a 50°C.
Viscosità raccomandate 10 + 420 cSt. Temperature di lavoro -20++90 °C. Filtrazione assoluta 25 µ.
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C (122 F). Recommended viscosity 10 + 420 cSt, working temperature -20++90 °C (-4 F+194 F). Absolute filtration 25 µ.

Modello Type	Attacchi Ports	H	H1	H2	H3	L
EV0822DT14	G1/4	50	59	12.5	26.5	20
EV0822DT38	G3/8	60	59	15	36.5	18
EV0822DT12	G1/2	60	59	15	36.5	18
EV0822DTM14	G1/4	50	81	12.5	26.5	20
EV0822DTM38	G3/8	60	81	15	36.5	18
EV0822DTM12	G1/2	60	81	15	36.5	18
EV0823DT14	G1/4	50	64	12.5	26.5	20
EV0823DT38	G3/8	60	64	15	36.5	18
EV0823DT12	G1/2	60	64	15	36.5	18
EV0823DTM14	G1/4	50	83	12.5	26.5	20
EV0823DTM38	G3/8	60	83	15	36.5	18
EV0823DTM12	G1/2	60	83	15	36.5	18

Perdite interne: max. 5 gocce/minuto a 250 bar
Internal leakage: max. 5 drops/min at 250 bar

**
M standard emergency screw type
MT pull (only for normally closed)
MS push (only for normally open)

Sigla di ordinazione / Ordering code



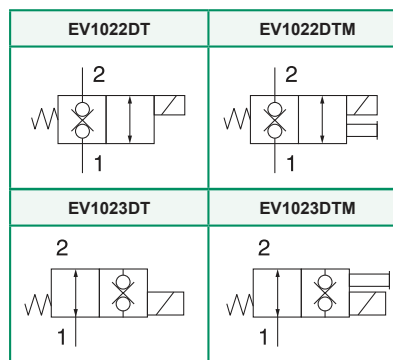
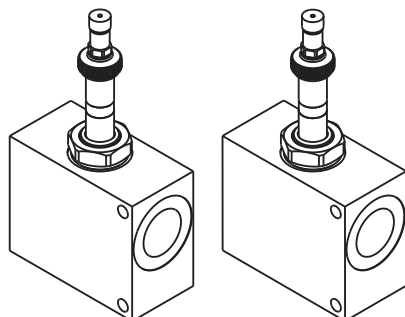
For flow diagram see
PRESSURE DROP SOLENOID VALVE (7)

* Bobina venduta separatamente mod. S1
* Coil sold separately mod. S1

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 elettrica direzionale 2/2 a doppia tenuta
2/2 solenoid directional valve, bidirectional blocking

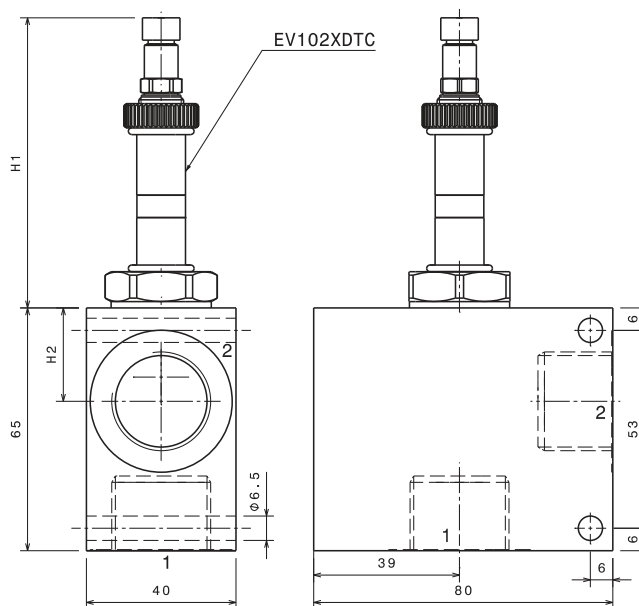
mod. EV-10-2X-DT



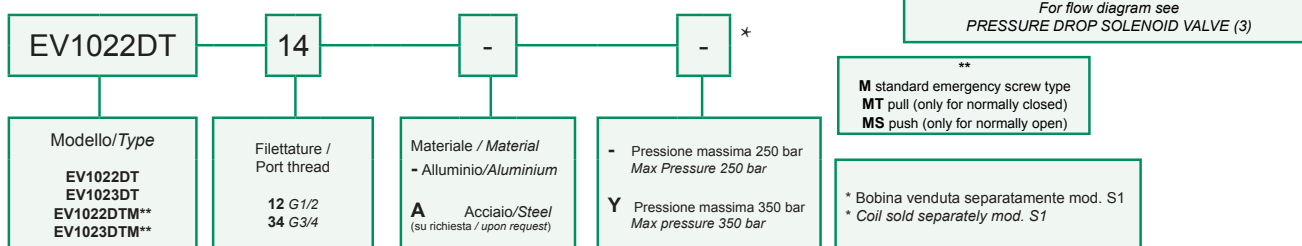
Portata massima Max flow	70 l/min 18.5 gpm	
Pressione massima Max pressure	EV-10-2*-DT-**-	250 bar 3600 psi
	EV-10-2*-DT-**-Y (Su richiesta) (Upon request)	350 bar 5000 psi

Dati e tarature ottenuti usando olio a 30 cSt a 50°C.
Viscosità raccomandate 10 ÷ 420 cSt. Temperature di lavoro -20÷+90 °C. Filtrazione assoluta 25 µ.
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C (122 F). Recommended viscosity 10 ÷ 420 cSt, working temperature -20÷+90 °C (-4 F÷194 F). Absolute filtration 25 µ.

Modello Type		H1	H2
EV1020DT-12	G1/4	56	23.5
EV1020DT-34	G3/4	56	25
EV1021DT-12	G1/2	61	23.5
EV1021DT-34	G3/4	61	25
EV1022DT-12	G1/2	56	23.5
EV1022DT-34	G3/4	56	25
EV1023DT-12	G1/2	61	23.5
EV1023DT-34	G3/4	61	25
EV1020DTM-12	G1/2	78	23.5
EV1020DTM-34	G3/4	78	25
EV1021DTM-12	G1/2	81	23.5
EV1021DTM-34	G3/4	81	25
EV1022DTM-12	G1/2	78	23.5
EV1022DTM-34	G3/4	78	25
EV1023DTM-12	G1/2	81	23.5
EV1023DTM-34	G3/4	81	25



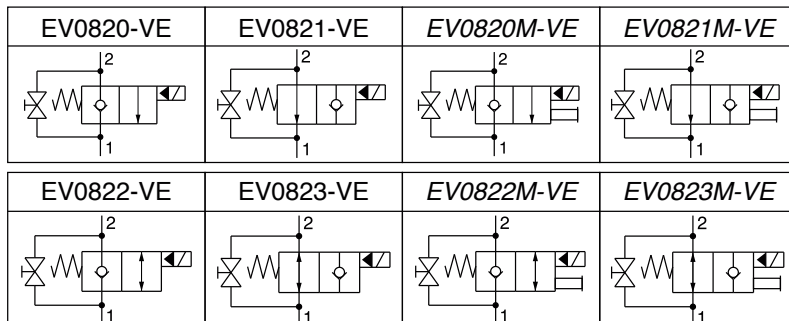
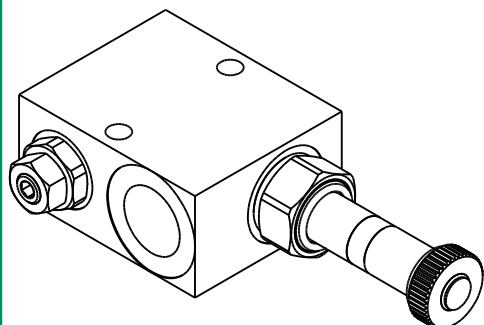
Sigla di ordinazione / Ordering code



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.

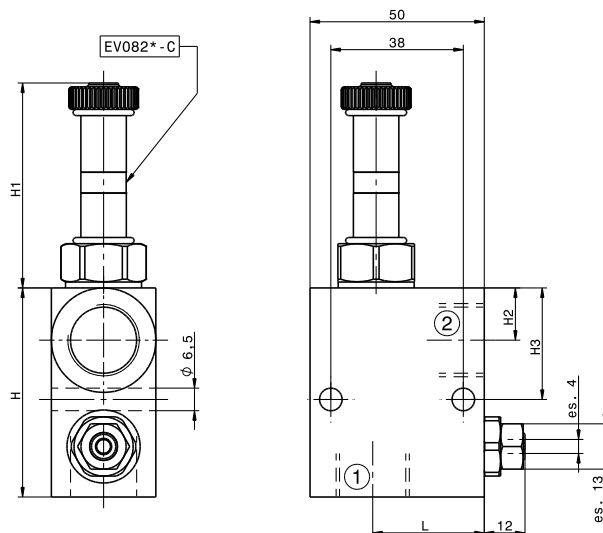
Valvola elettrica direzionale 2/2 con vite di emergenza
2/2 solenoid directional valve with emergency screw

mod. EV-08-2X-VE



Portata massima Max flow	40 l/min 10.5 gpm	
Pressione massima Max pressure	EV-08-2X-**-VE	250 bar 3600 psi
	EV-08-2X-**-VE-Y (Su richiesta) (Upon request)	350 bar 5000 psi

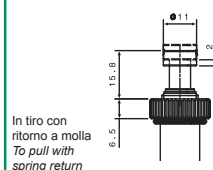
Modello Type	② ①	H	H1	H2	H3	L
EV0820-14-VE	G1/4	50	59	12.5	26	31
EV0820-38-VE	G3/8	60	59	15	32	32
EV0820-12-VE	G1/2	60	59	15	32	32
EV0821-14-VE	G1/4	50	64	12.5	26	31
EV0821-38-VE	G3/8	60	64	15	32	32
EV0821-12-VE	G1/2	60	64	15	32	32
EV0822-14-VE	G1/4	50	59	12.5	26	31
EV0822-38-VE	G3/8	60	59	15	32	32
EV0822-12-VE	G1/2	60	59	15	32	32
EV0823-14-VE	G1/4	50	64	12.5	26	31
EV0823-38-VE	G3/8	60	64	15	32	32
EV0823-12-VE	G1/2	60	64	15	32	32
EV0820M-14-VE	G1/4	50	81	12.5	26	31
EV0820M-38-VE	G3/8	60	81	15	32	32
EV0820M-12-VE	G1/2	60	81	15	32	32
EV0821M-14-VE	G1/4	50	84	12.5	26	31
EV0821M-38-VE	G3/8	60	84	15	32	32
EV0821M-12-VE	G1/2	60	84	15	32	32
EV0822M-14-VE	G1/4	50	81	12.5	26	31
EV0822M-38-VE	G3/8	60	81	15	32	32
EV0822M-12-VE	G1/2	60	81	15	32	32
EV0823M-14-VE	G1/4	50	84	12.5	26	31
EV0823M-38-VE	G3/8	60	84	15	32	32
EV0823M-12-VE	G1/2	60	84	15	32	32



Perdite interne: max. 5 gocce/minuto a 250 bar
Internal leakage: max. 5 drops/min at 250 bar

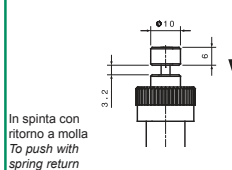
Emergenze disponibili su richiesta
Emergency available upon request

Normally closed



In tiro con
ritorno a molla
To pull with
spring return

Normally open



In spinta con
ritorno a molla
To push with
spring return

Sigla di ordinazione / Ordering code

EV0820 - 14 - VE - - *

**
M standard emergency screw type
MT pull (only for normally closed)
MS push (only for normally open)

Modello / Type
EV0820 EV0821
EV0822 EV0823
EV0820M** EV0821M**
EV0822M** EV0823M**

Filettature / Port thread
14 G1/4
38 G3/8
12 G1/2

Materiale / Material
- Alluminio/Aluminium
A Acciaio/Steel (su richiesta / upon request)

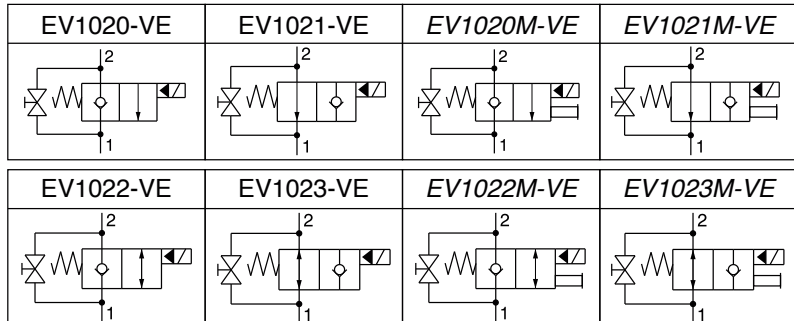
- Pressione massima 250 bar Max Pressure 250 bar
Y Pressione massima 350 bar Max pressure 350 bar

For flow diagram see
PRESSURE DROP SOLENOID VALVE (1)

* Bobina venduta separatamente mod. S1
* Coil sold separately mod. S1

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.

A technical line drawing of a rectangular electronic component, likely a relay or solenoid. It features two connectors on the front face: a smaller one on the left and a larger one on the right. The larger connector has a threaded body and a black, ribbed cylindrical cap. The component has mounting holes on its top and front faces.



Technical drawing of the EV102*-C valve assembly, showing front, side, and top views with dimensions.

Front View (Left):

- Overall height: $H1$
- Overall width: 80
- Top flange diameter: $\varnothing 65$
- Top flange thickness: $es. 4$
- Body diameter: $es. 13$
- Bottom flange diameter: $\varnothing 12$
- Bottom flange thickness: 39
- Mounting hole diameter: $\varnothing 6$
- Mounting hole offset from center: 6
- Mounting hole offset from corner: 6

Side View (Right):

- Overall height: $H2$
- Overall width: 40
- Top flange diameter: $\varnothing 40$
- Top flange thickness: 6
- Body diameter: $\varnothing 13$
- Bottom flange diameter: $\varnothing 12$
- Bottom flange thickness: 6
- Mounting hole diameter: $\varnothing 6$
- Mounting hole offset from center: 6
- Mounting hole offset from corner: 6

Top View (Bottom):

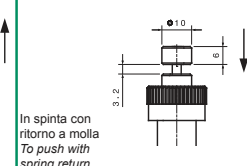
- Overall width: 80
- Overall height: 53
- Mounting hole diameter: $\varnothing 6.5$
- Mounting hole offset from center: 6
- Mounting hole offset from corner: 6

Labels:

- EV102*-C
- 1
- 2

Perdite interne: max. 5 gocce/minuto a 250 bar
Internal leakage: max. 5 drops/min at 250 bar

Emergenze disponibili su richiesta
Emergency available upon request



EV1020 — 12 — VE — - — - ×

M standard emergency screw type
MT pull (only for normally closed)
MS push (only for normally open)

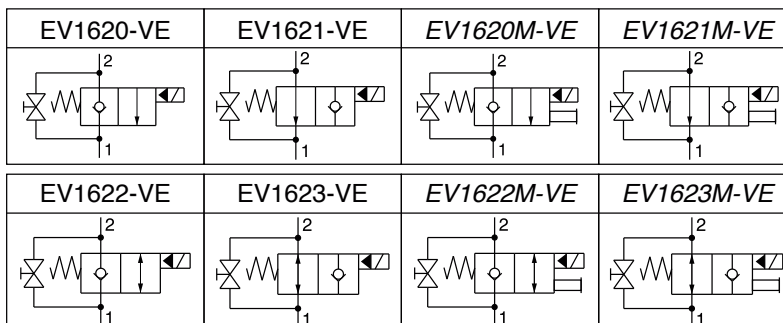
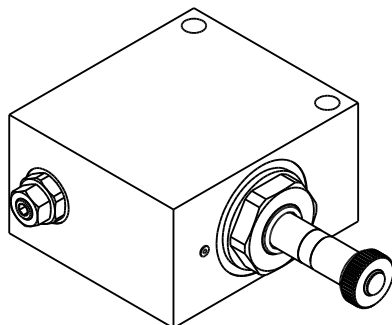
For flow diagram see
PRESSURE DROP SOLENOID VALVE (3)

* Bobina venduta separatamente mod. S1
* Coil sold separately mod. S1

Aggiornamento / Update 04-03-2020

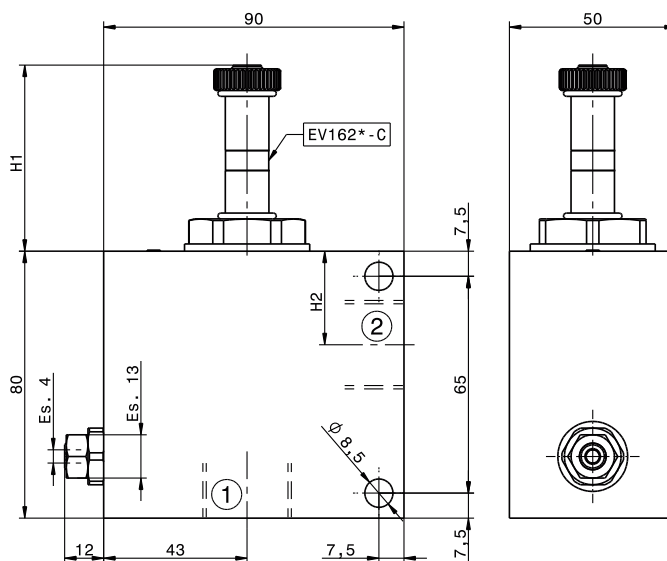
Valvola elettrica direzionale 2/2 con vite di emergenza
2/2 solenoid directional valve with emergency screw

mod. EV-16-2X-VE



Portata massima <i>Max flow</i>	150 l/min 40 gpm	
Pressione massima <i>Max pressure</i>	EV-16-2X-**-VE-Y	250 bar 3600 psi
	EV-16-2X-**-VE-Y (Su richiesta) (Upon request)	300 bar 4300 psi
Dati e tarature ottenuti usando olio a 30 cSt a 50°C. Viscosità raccomandate 10 ÷ 420 cSt. Temperature di lavoro -20÷+90 °C. Filtrazione assoluta 25 µ. <i>Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C (122 F). Recommended viscosity 10 ÷ 420 cSt, working temperature -20÷+90 °C (-4 F÷194 F). Absolute filtration 25 µ.</i>		

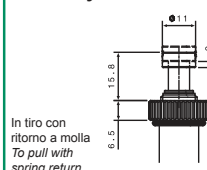
Modello Type	② ①	H1	H2
EV1620-34-VE	G3/4	56	28
EV1620-10-VE	G1	56	31
EV1621-34-VE	G3/4	61	28
EV1621-10-VE	G1	61	31
EV1622-34-VE	G3/4	56	28
EV1622-10-VE	G1	56	31
EV1623-34-VE	G3/4	61	28
EV1623-10-VE	G1	61	31
EV1620M-34-VE	G3/4	78	28
EV1620M-10-VE	G1	78	31
EV1621M-34-VE	G3/4	81	28
EV1621M-10-VE	G1	81	31
EV1622M-34-VE	G3/4	78	28
EV1622M-10-VE	G1	78	31
EV1623M-34-VE	G3/4	81	28
EV1623M-10-VE	G1	81	31



Perdite interne: max. 5 gocce/minuto a 250 bar
Internal leakage: max. 5 drops/min at 250 bar

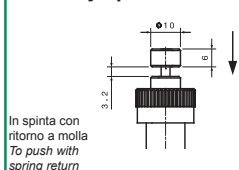
Emergenze disponibili su richiesta
Emergency available upon request

Normally closed



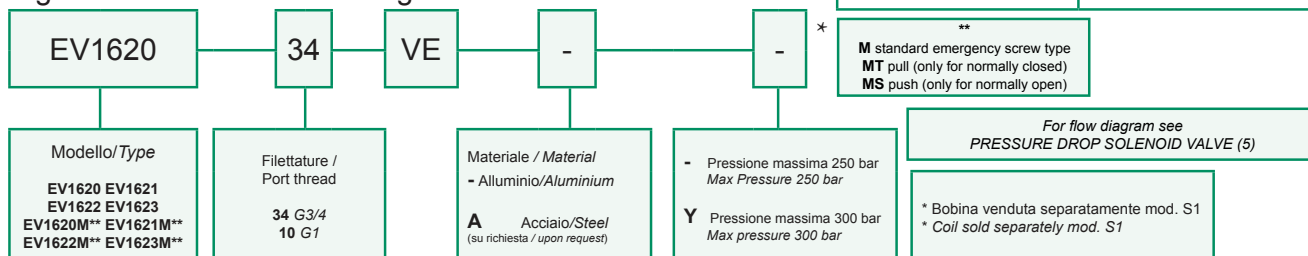
In tiro con
ritorno a molla
*To pull with
spring return*

Normally open



In spinta con ritorno a molla
To push with spring return

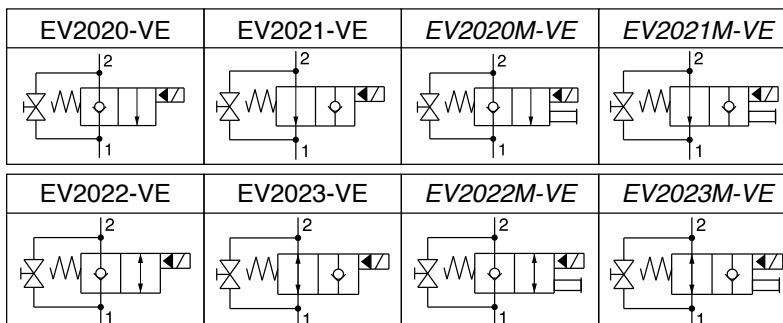
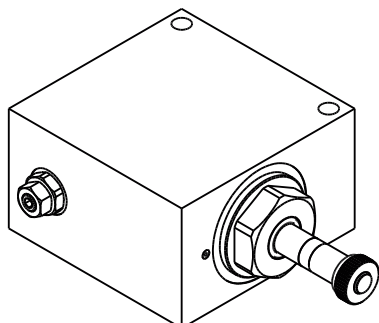
Sigla di ordinazione / Ordering code



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.*

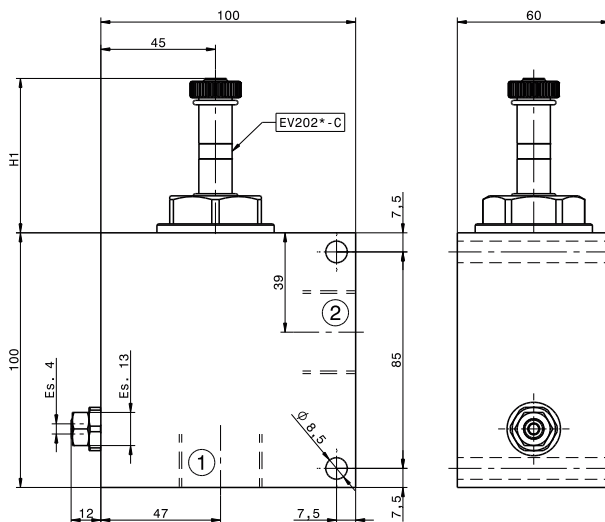
Valvola elettrica direzionale 2/2 con vite di emergenza
2/2 solenoid directional valve with emergency screw

mod. EV-20-2X-VE



Portata massima Max flow	200 l/min 53 gpm	
Pressione massima Max pressure	EV-20-2*-**-VE	250 bar 3600 psi
	EV-20-2*-**-VE-Y (Su richiesta) (Upon request)	300 bar 4300 psi

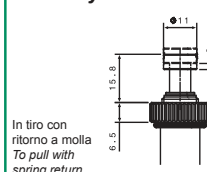
Modello Type	② ①	H1
EV2020-10-VE EV2020-114-VE EV2020-112-VE	G1" G1"-1/4 G1"-1/2	61
EV2021-10-VE EV2021-114-VE EV2021-112-VE	G1" G1"-1/4 G1"-1/2	66
EV2022-10-VE EV2022-114-VE EV2022-112-VE	G1" G1"-1/4 G1"-1/2	61
EV2023-10-VE EV2023-114-VE EV2023-112-VE	G1" G1"-1/4 G1"-1/2	66
EV2020M-10-VE EV2020M-114-VE EV2020M-112-VE	G1" G1"-1/4 G1"-1/2	83
EV2021M-10-VE EV2021M-114-VE EV2021M-112-VE	G1" G1"-1/4 G1"-1/2	85
EV2022M-10-VE EV2022M-114-VE EV2022M-112-VE	G1" G1"-1/4 G1"-1/2	83
EV2023M-10-VE EV2023M-114-VE EV2023M-112-VE	G1" G1"-1/4 G1"-1/2	85



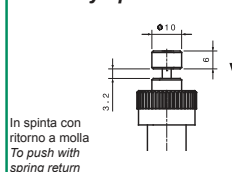
Perdite interne: max. 5 gocce/minuto a 250 bar
Internal leakage: max. 5 drops/min at 250 bar

Emergenze disponibili su richiesta
Emergency available upon request

Normally closed



Normally open



Sigla di ordinazione / Ordering code



Modello / Type
EV2020 EV2021 EV2022 EV2023 EV2020M** EV2021M** EV2022M** EV2023M**

Filettature /
Port thread
10 G1
114 G1-1/4
112 G1-1/2

Materiale / Material
~ Alluminio/Aluminium

A Acciaio/Steel
(su richiesta / upon request)

- Pressione massima 250 bar
Max Pressure 250 bar

Y Pressione massima 300 bar
Max pressure 300 bar

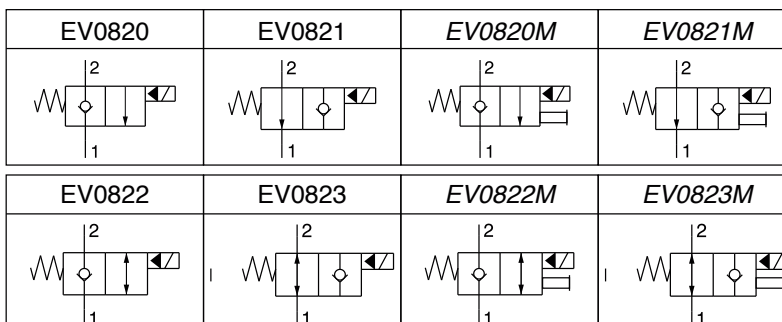
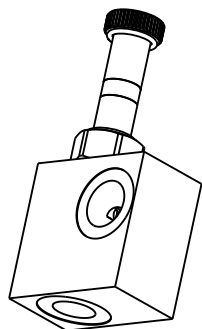
**
M standard emergency screw type
MT pull (only for normally closed)
MS push (only for normally open)

For flow diagram see
PRESSURE DROP SOLENOID VALVE (6)

* Bobina venduta separatamente mod. S1
* Coil sold separately mod. S1

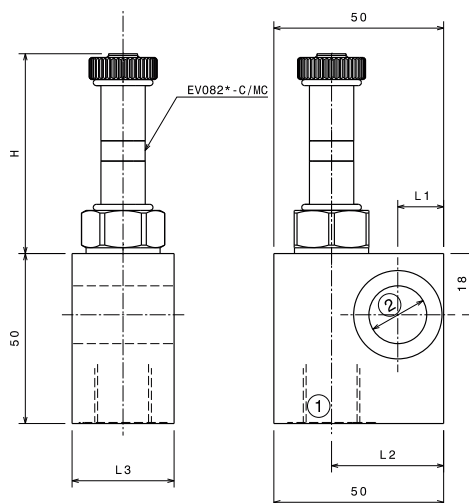
I dati non sono impegnativi, CBF si riserva di apportare modifiche senza preavviso.
The specifications are not binding, CBF reserves the right to introduce modifications without notice.

Valvola elettrica direzionale 2/2 a cartuccia, flangiabile con vite cava
 2/2 solenoid directional valve, nipple screw flangeable
 mod. EV-08-2X-VC



Portata massima Max flow	40 l/min 10.5 gpm	
Pressione massima Max pressure	EV-08-2*-VC-**	250 bar 3600 psi
	EV-08-2*-VC-**-Y (Su richiesta) (Upon request)	350 bar 5000 psi

Modello Type	①	②	H	L1	L2	L3
EV0820-VC-38	G3/8	Ø 17	59	13.5	33	30
EV0821-VC-38	G3/8	Ø 17	64	13.5	33	30
EV0822-VC-38	G3/8	Ø 17	59	13.5	33	30
EV0823-VC-38	G3/8	Ø 17	64	13.5	33	30
EV0820M-VC-38	G3/8	Ø 17	81	13.5	33	30
EV0821M-VC-38	G3/8	Ø 17	84	13.5	33	30
EV0822M-VC-38	G3/8	Ø 17	81	13.5	33	30
EV0823M-VC-38	G3/8	Ø 17	84	13.5	33	30
EV0820-VC-12	G1/2	Ø 21	59	15	35	35
EV0821-VC-12	G1/2	Ø 21	64	15	35	35
EV0822-VC-12	G1/2	Ø 21	59	15	35	35
EV0823-VC-12	G1/2	Ø 21	64	15	35	35
EV0820M-VC-12	G1/2	Ø 21	81	15	35	35
EV0821M-VC-12	G1/2	Ø 21	84	15	35	35
EV0822M-VC-12	G1/2	Ø 21	81	15	35	35
EV0823M-VC-12	G1/2	Ø 21	84	15	35	35

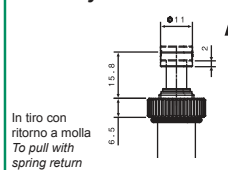


For flow diagram see
 PRESSURE DROP SOLENOID VALVE (1)

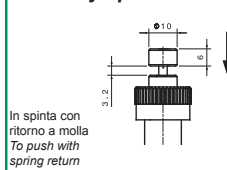
Perdite interne: max. 5 gocce/minuto a 250 bar
 Internal leakage: max. 5 drops/min at 250 bar

Emergenze disponibili su richiesta
 Emergency available upon request

Normally closed

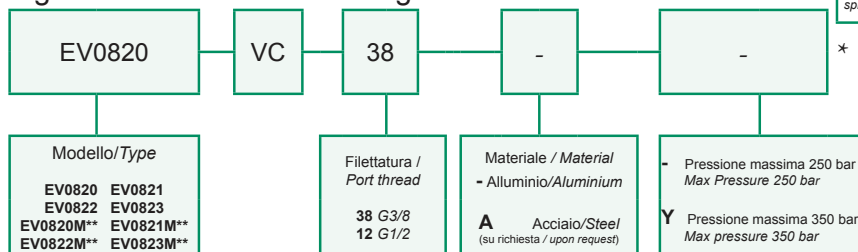


Normally open



**
 M standard emergency screw type
 MT pull (only for normally closed)
 MS push (only for normally open)

Sigla di ordinazione / Ordering code



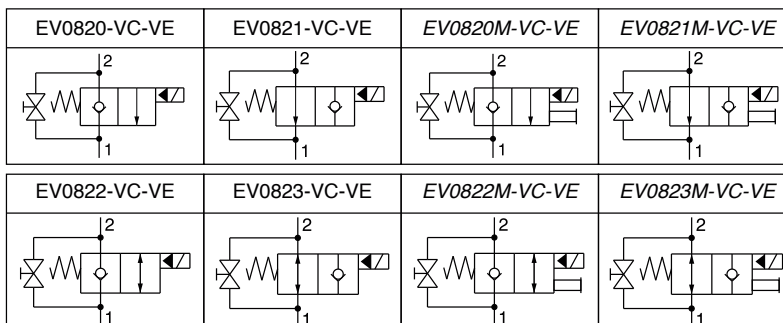
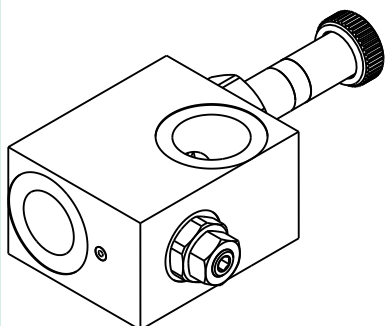
Vite cava
 disponibile a
 richiesta
 Nipple screw
 available upon
 request

Modello Type	Codice di ordinazione Ordering Code
EV082X-VC-38	KITV0002
EV082X-VC-12	KITV0003

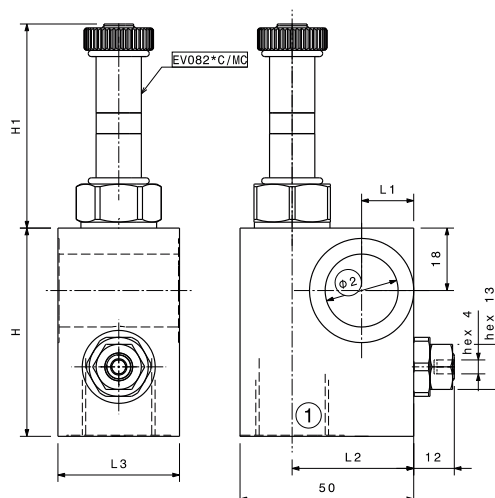
* Bobina venduta separatamente mod. S1
 * Coil sold separately mod. S1

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.

mod. EV-08-2X-VC-VE



Modello <i>Type</i>	1	2	H	H1	L1	L2	L3
EV0820-VC-38-VE	G3/8	Ø 17	55	59	13.5	33	30
EV0821-VC-38-VE	G3/8	Ø 17	55	64	13.5	33	30
EV0822-VC-38-VE	G3/8	Ø 17	55	59	13.5	33	30
EV0823-VC-38-VE	G3/8	Ø 17	55	64	13.5	33	30
EV0820M-VC38-VE	G3/8	Ø 17	55	81	13.5	33	30
EV0821M-VC-38-VE	G3/8	Ø 17	55	84	13.5	33	30
EV0822M-VC-38-VE	G3/8	Ø 17	55	81	13.5	33	30
EV0823M-VC-38-VE	G3/8	Ø 17	55	84	13.5	33	30
EV0820-VC-12-VE	G1/2	Ø 21	60	59	15	35	35
EV0821-VC-12-VE	G1/2	Ø 21	60	64	15	35	35
EV0822-VC-12-VE	G1/2	Ø 21	60	59	15	35	35
EV0823-VC-12-VE	G1/2	Ø 21	60	64	15	35	35
EV0820M-VC-12-VE	G1/2	Ø 21	60	81	15	35	35
EV0821M-VC-12-VE	G1/2	Ø 21	60	84	15	35	35
EV0822M-VC-12-VE	G1/2	Ø 21	60	81	15	35	35
EV0823M-VC-12-VE	G1/2	Ø 21	60	84	15	35	35



In spinta con ritorno a molla
To push with spring return

M standard emergency screw type

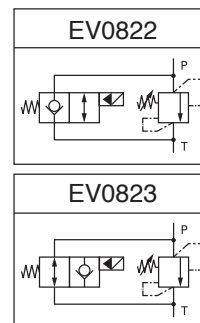
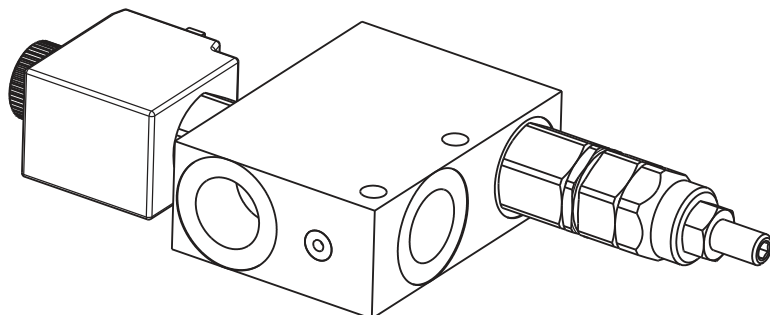
MT pull (only for normally closed)

MS push (only for normally open)

EV0820	VC	38	VE	-	-	Vite cava disponibile a richiesta Nipple screw available upon request	Modello Type	Codice di ordinazione Ordering Code
Modello/Type	Filettatura / Port thread	Materiale / Material			EV082X-VC-38		KITV0002	
EV0820 EV0821 EV0822 EV0823 EV0820M** EV0821M** EV0822M** EV0823M**	38 G3/8 12 G1/2	A Alluminio/ Aluminium Acciaio/Steel (su richiesta / upon request)		Y Pressione massima 350 bar Max pressure 350 bar	EV082X-VC-12		KITV0003	
						* Bobina venduta separatamente mod. S1 * Coil sold separately mod. S1		

Aggiornamento / Update 04-03-2020

Valvola limitatrice di pressione con bypass elettrico
Single relief valve with electric bypass
mod. EV082X-VLP40



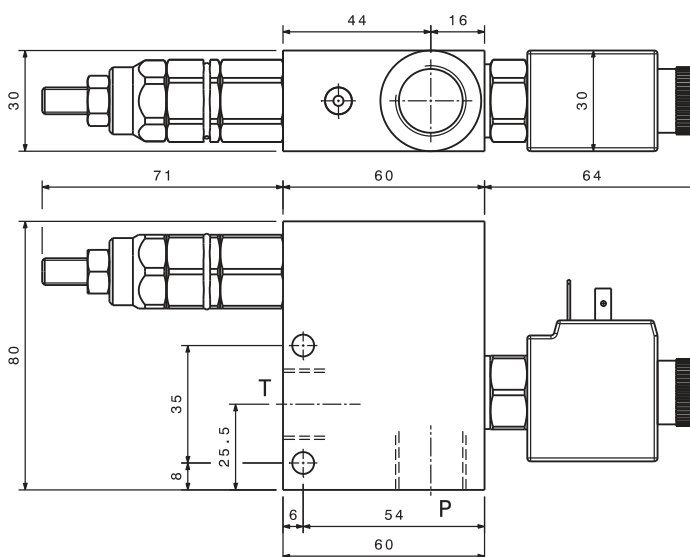
Modello Type	P,T	Pressione max Max pressure	Portata max Max. flow
EV082X-VLP40-38	3/8" GAS	300 bar 4300 psi	40 l/min 10.5 gpm
EV082X-VLP40-12	1/2" GAS	300 bar 4300 psi	40 l/min 10.5 gpm

Taratura / Setting		
Codice Code	Taratura standard Standard setting (Q=5 l/min)	Campo di taratura Adj. Pressure range
00	40 bar 580 psi	5÷40 bar 72.5÷580 psi
01	80 bar 1160 psi	20÷100 bar 290÷1450 psi
02	180 bar 2600 psi	40÷250 bar 580÷3600 psi
03	250 bar 3600 psi	60÷350 bar 870÷5000 psi

Regolazioni Adjustments			
A	B	C	D
ES. 4 ES. 13 max. 50	Ø 40 max. 30 ES. 13	62 max. 30	ES. 14 ES. 13
Vite esterna esagono incassato Leakproof hex socket screw	Volantino e dado Handknob and locknut	Piombatura Sealing cap	Cappello Cap

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



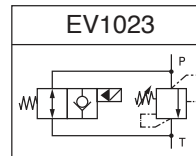
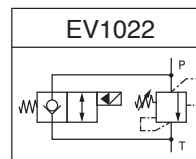
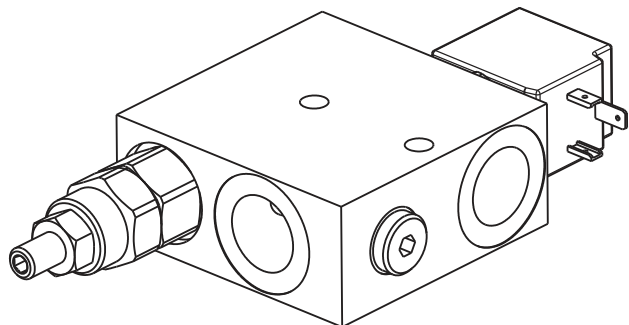
Tensione Voltage	12 V CC-DC 24 V CC-DC 110 V CC-DC 220 V CC-DC 24V RAC* 110V RAC* 220V RAC*
*da usare per alimentazione in corrente alternata raddrizzata *use only with rectified alternate current	
Connettore Connector	DIN43650

Sigla di ordinazione / Ordering code

EV08	22	VLP40-38	02	A	12V CC-DC
Modello Type	Schema /Scheme 22, 23	Modello Type	Codice taratura Setting code 00, 01, 02, 03	Codice regolazione Adjustment code A, B, C, D	Tensione Voltage

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 limitatrice di pressione con bypass elettrico
 Single relief valve with electric bypass
 mod. EV102X-VLP80



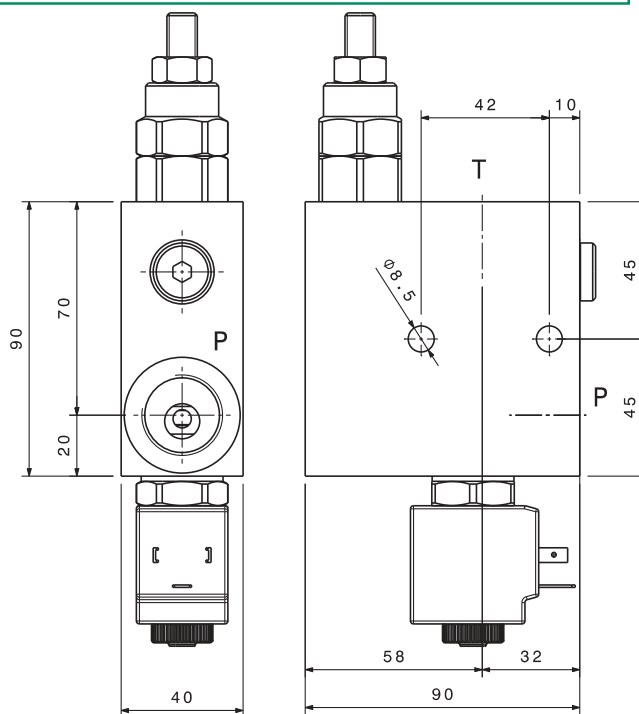
Modello Type	P,T	Pressione max Max pressure	Portata max Max. flow
EV102X-VLP80-34	3/4" GAS	300 bar 4300 psi	70 l/min 18.5 gpm

Taratura Setting		
Codice Code	Taratura standard Standard setting (Q=5 l/min)	Campo di taratura Adj. Pressure range
00	40 bar 580 psi	5÷40 bar 72.5÷580 psi
01	80 bar 1160 psi	20÷100 bar 290÷1450 psi
02	180 bar 2600 psi	40÷250 bar 580÷3600 psi
03	250 bar 3600 psi	60÷350 bar 870÷5000 psi

Regolazioni Adjustments			
A Vite esterna esagono incassato Leakproof hex socket screw	B Volantino e dado Handknob and locknut	C Piombatura Sealing cap	D Cappellotto Cap

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



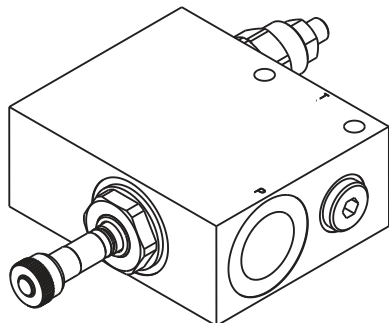
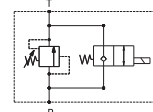
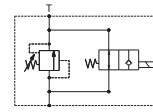
Tensione Voltage	12 V CC-DC 24 V CC-DC 110 V CC-DC 220 V CC-DC 24V RAC* 110V RAC* 220V RAC*
*da usare per alimentazione in corrente alternata raddrizzata *use only with rectified alternate current	
Connettore Connector	DIN43650

Sigla di ordinazione / Ordering code

EV10	22	VLP80-34	02	A	12V CC-DC
Modello Type	Schema /Scheme 22, 23	Modello Type	Codice taratura Setting code 00, 01, 02, 03	Codice regolazione Adjustment code A, B, C, D	Tensione Voltage

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 limitatrice di pressione con bypass elettrico
Single relief valve pressure with electric bypass
mod. EV162X-VLP130


EV1622VLP130

EV1623VLP130


Modello Type	P,T	Pressione max Max pressure	Portata max Max. flow
EV162X- VLP130C-10	1" GAS	300 bar 4300 psi	130 l/min 18.5 gpm
EV162X- VLP130-34	3/4" GAS	300 bar 4300 psi	130 l/min 18.5 gpm

Taratura / Setting

Codice Code	Taratura standard Standard setting (Q=5 l/min)	Campo di taratura Adj. Pressure range
00	40 bar 580 psi	5÷40 bar 72.5÷580 psi
01	80 bar 1160 psi	20÷100 bar 290÷1450 psi
02	180 bar 2600 psi	40÷250 bar 580÷3600 psi
03	250 bar 3600 psi	60÷350 bar 870÷5000 psi

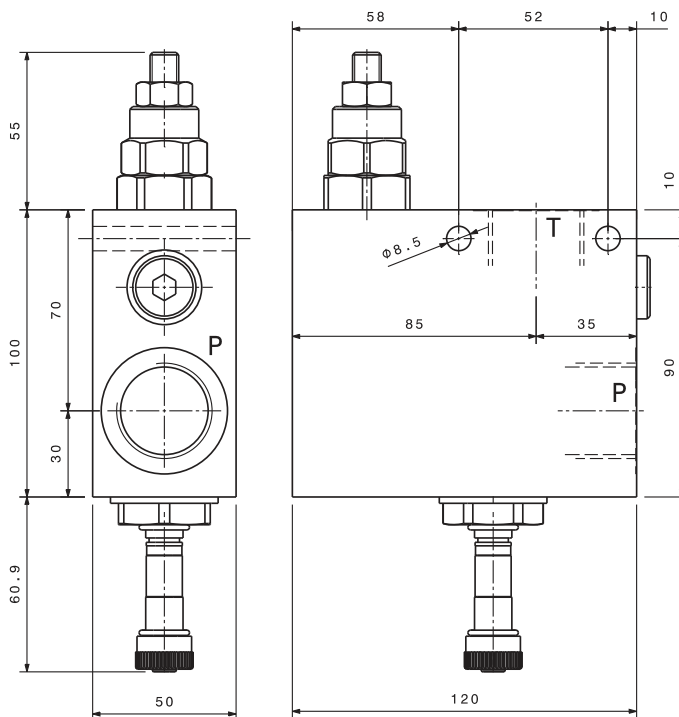
**Regolazioni
Adjustments**

A Vite esterna esagono incassato Leakproof hex socket screw	B Volantino e dado Handknob and locknut	C Piombatura Sealing cap	D Cappellotto Cap
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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

*Bobina venduta separatamente mod. S1
 *Coil sold separately mod. S1



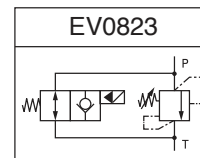
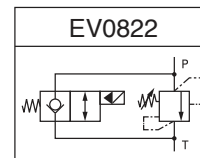
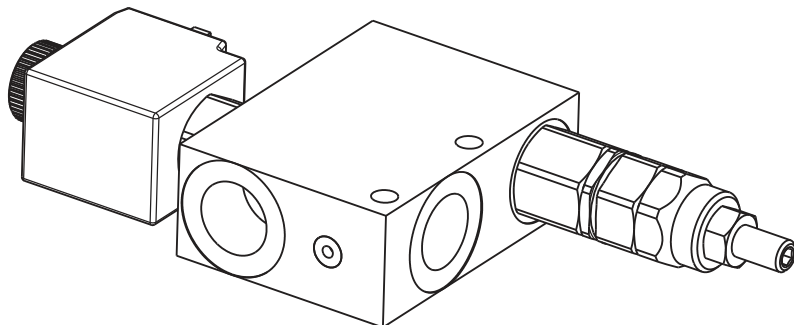
Sigla di ordinazione / Ordering code

EV16	22	VLP130-10	02	A
Modello Type	Schema / Scheme 22, 23	Modello Type	Codice taratura Setting code 00, 01, 02, 03	Codice regolazione Adjustment code A, B, C, D

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 limitatrice di pressione compensata con bypass elettrico
 Single relief valve pressure compensated with electric bypass

mod. EV082X-VLP40CC



Modello Type	P,T	Pressione max Max pressure	Portata max Max. flow
EV082X- VLP40CC-38	3/8" GAS	300 bar 4300 psi	40 l/min 10.5 gpm
EV082X- VLP40CC-12	1/2" GAS	300 bar 4300 psi	40 l/min 10.5 gpm

Taratura / Setting

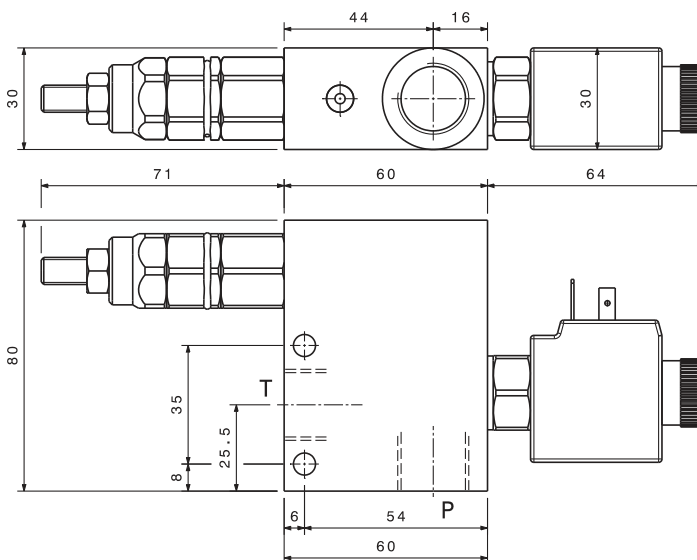
Codice Code	Taratura standard Standard setting (Q=5 l/min)	Campo di taratura Adj. Pressure range
00	40 bar 580 psi	5÷40 bar 72.5÷580 psi
01	80 bar 1160 psi	20÷100 bar 290÷1450 psi
02	180 bar 2600 psi	40÷250 bar 580÷3600 psi
03	250 bar 3600 psi	60÷350 bar 870÷5000 psi

Regolazioni
Adjustments

A Vite esterna esagono incassato Leakproof hex socket screw	B Volantino e dado Handknob and locknut	C Piombatura Sealing cap	D Cappellotto Cap
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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



Tensione Voltage	12 V CC-DC 24 V CC-DC 110 V CC-DC 220 V CC-DC 24V RAC* 110V RAC* 220V RAC*
*da usare per alimentazione in corrente alternata raddrizzata *use only with rectified alternate current	
Connettore Connector	DIN43650

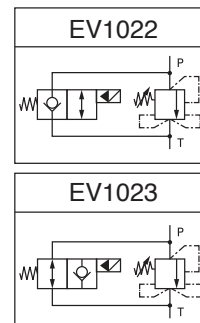
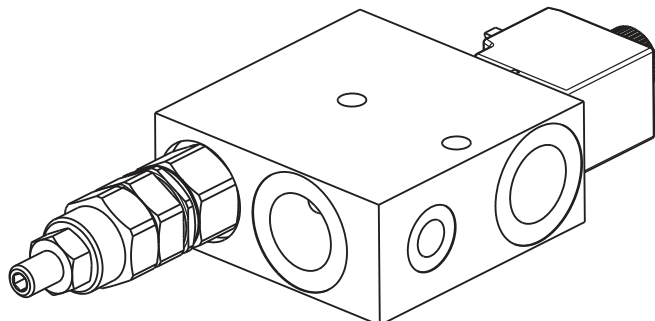
Sigla di ordinazione / Ordering code

EV08	22	VLP40CC-38	02	A	12V CC-DC
Modello Type	Schema / Scheme 22, 23	Modello Type	Codice taratura Setting code 00, 01, 02, 03	Codice regolazione Adjustment code A, B, C, D	Tensione Voltage

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 limitatrice di pressione compensata con bypass elettrico
Single relief valve pressure compensated with electric bypass

mod. EV102X-VLP80CC



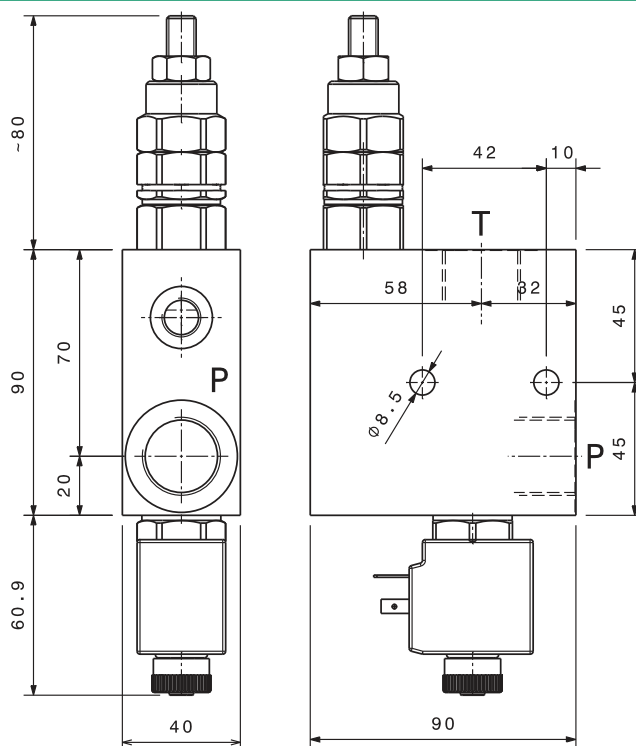
Modello Type	P,T	Pressione max Max pressure	Portata max Max. flow
EV102X- VLP80CC-34	3/4"GAS	300 bar 4300 psi	70 l/min 18.5 gpm

Taratura / Setting		
Codice Code	Taratura standard Standard setting (Q=5 l/min)	Campo di taratura Adj. Pressure range
00	40 bar 580 psi	5÷40 bar 72.5÷580 psi
01	80 bar 1160 psi	20÷100 bar 290÷1450 psi
02	180 bar 2600 psi	40÷250 bar 580÷3600 psi
03	250 bar 3600 psi	60÷350 bar 870÷5000 psi

Regolazioni Adjustments			
A Vite esterna esagono incassato Leakproof hex socket screw	B Volantino e dado Handknob and locknut	C Piomatura Sealing cap	D Cappellotto Cap

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



Tensione Voltage	12 V CC-DC 24 V CC-DC 110 V CC-DC 220 V CC-DC 24V RAC* 110V RAC* 220V RAC*
*da usare per alimentazione in corrente alternata raddrizzata *use only with rectified alternate current	
Connettore Connector	DIN43650

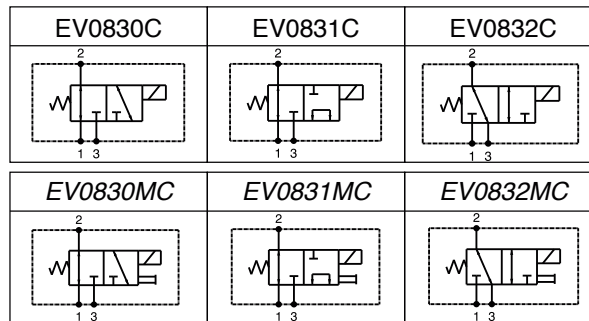
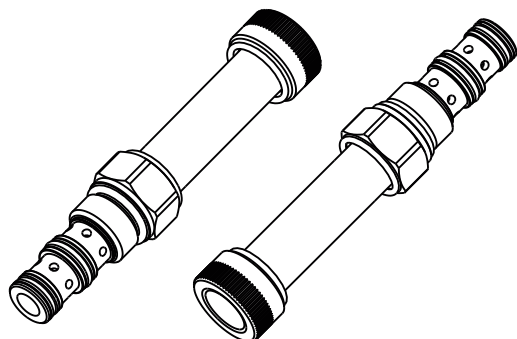
Sigla di ordinazione / Ordering code

EV10	22	VLP80CC-34	02	A	12V CC-DC
Modello Type	Schema /Scheme 22, 23	Modello Type	Codice taratura Setting code 00, 01, 02, 03	Codice regolazione Adjustment code A, B, C, D	Tensione Voltage

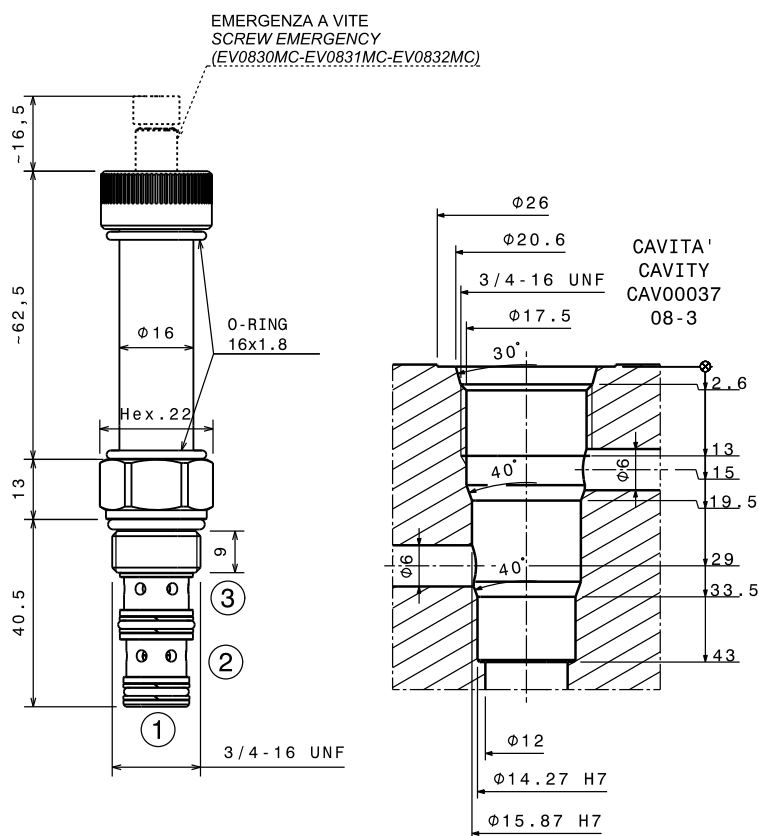
I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, **CBF** reserves the right to introduce modifications without notice.

Valvola elettrica direzionale 3/2 a cartuccia , tenuta a cassetto
3/2 solenoid directional valve spool type, cartridge type

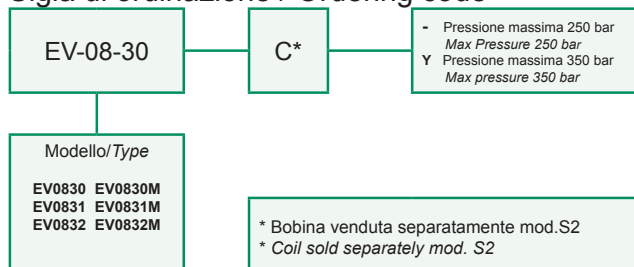
mod. EV-08-3X-C



Portata massima <i>Max flow</i>	20 l/min 5.3 gpm	
Pressione massima <i>Max pressure</i>	EV-08-3X-C	250 bar 3600 psi
	EV-08-3X-C-Y (Su richiesta) (Upon request)	350 bar 5000 psi
Coppia di serraggio <i>Installation torque</i>	27 ÷ 30 Nm 20 ÷ 22.5 lbf ft	
Dati e tarature ottenuti usando olio a 30 cSt a 50°C. Viscosità raccomandate 10 ÷ 420 cSt. Temperature di lavoro -20÷+90 °C. Filtrazione assoluta 25 µ. <i>Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C (122 F). Recommended viscosity 10 ÷ 420 cSt, working temperature -20÷+90 °C (-4 F÷194 F). Absolute filtration 25 µ.</i>		



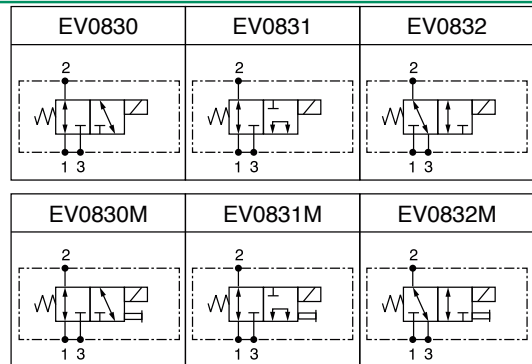
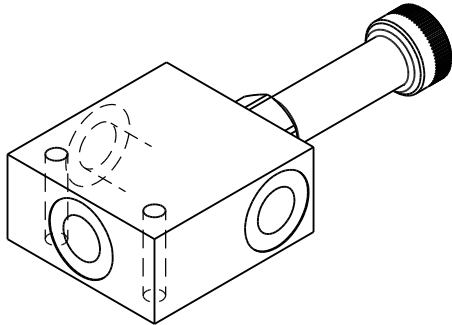
Sigla di ordinazione / Ordering code



For flow diagram see
PRESSURE DROP SOLENOID VALVE (8)

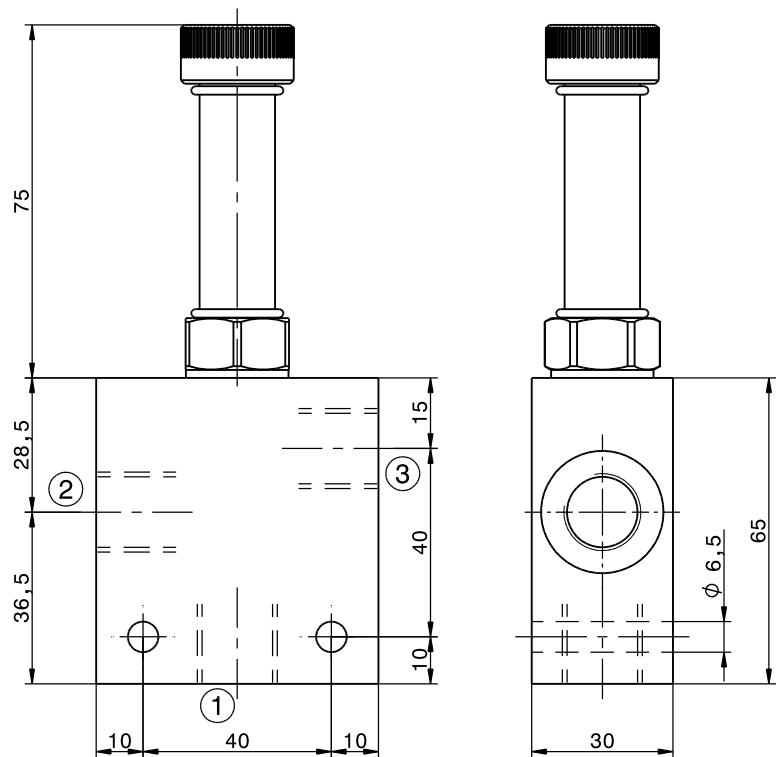
I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, **CBF** reserves the right to introduce modifications without notice.

Valvola elettrica direzionale 3/2, tenuta a cassetto
3/2 solenoid directional valve, spool type
mod. EV-08-3X

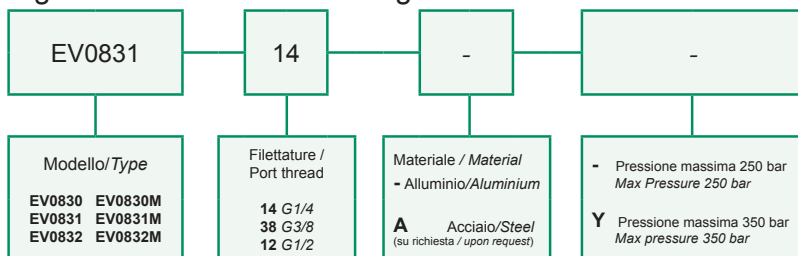


Portata massima Max flow	20 l/min 5.3 gpm	
Pressione massima Max pressure bar/psi	EV-08-3X-**	250 bar 3600 psi
	EV-08-3X-**-Y (Su richiesta) (Upon request)	350 bar 5000 psi

Modello Type	Attacchi Ports
EV0830-14 EV0830-38 EV0830-12	G1/4 G3/8 G1/2
EV0831-14 EV0831-38 EV0831-12	G1/4 G3/8 G1/2
EV0832-14 EV0832-38 EV0832-12	G1/4 G3/8 G1/2
EV0830M-14 EV0830M-38 EV0830M-12	G1/4 G3/8 G1/2
EV0831M-14 EV0831M-38 EV0831M-12	G1/4 G3/8 G1/2
EV0832M-14 EV0832M-38 EV0832M-12	G1/4 G3/8 G1/2



Sigla di ordinazione / Ordering code



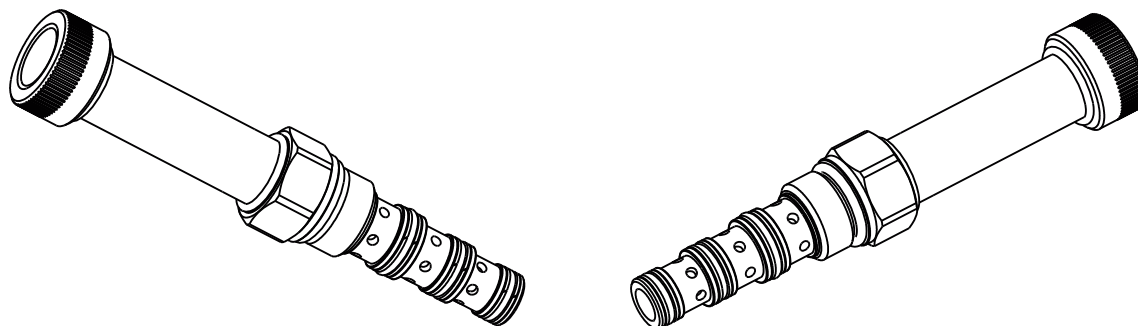
For flow diagram see
PRESSURE DROP SOLENOID VALVE (8)

* Bobina venduta separatamente mod. S2
* Coil sold separately mod. S2

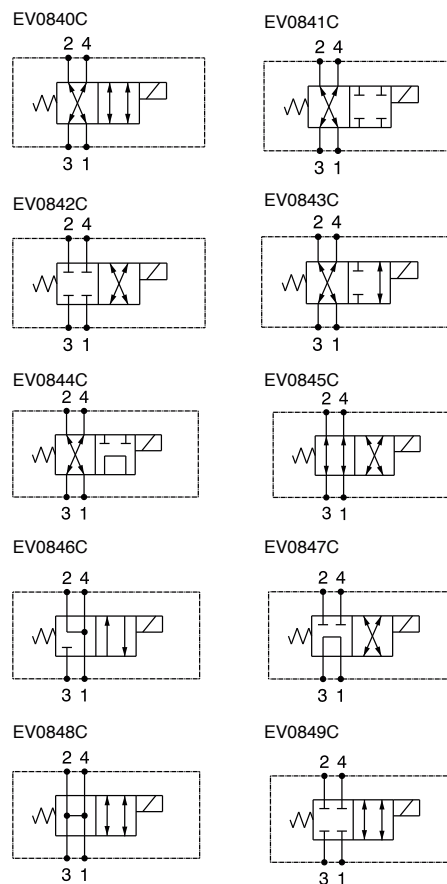
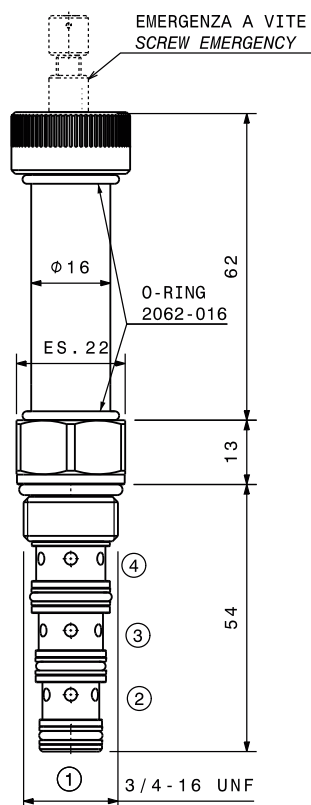
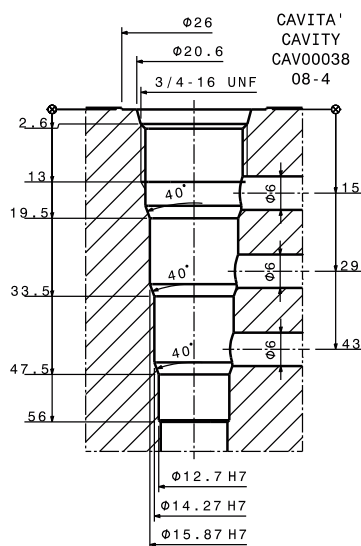
I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, **CBF** reserves the right to introduce modifications without notice.

Valvola elettrica direzionale 4/2 a cartuccia, tenuta a cassetto
 4/2 solenoid directional valve, spool type - cartridge

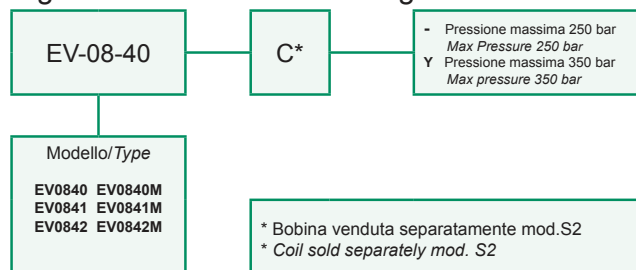
mod. EV-08-4X-C



Portata massima Max flow	20 l/min 5.3 gpm	
Pressione massima Max pressure	EV-08-4X-C	250 bar 3600 psi
	EV-08-4X-C-Y (Su richiesta) (Upon request)	350 bar 5000 psi
Coppia di serraggio Installation torque	27 ÷ 30 Nm 20 ÷ 22.5 lbf ft	



Sigla di ordinazione / Ordering code



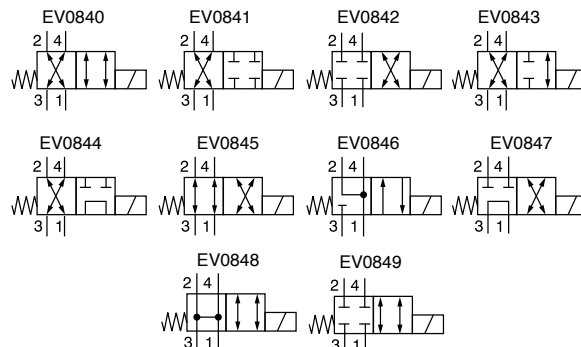
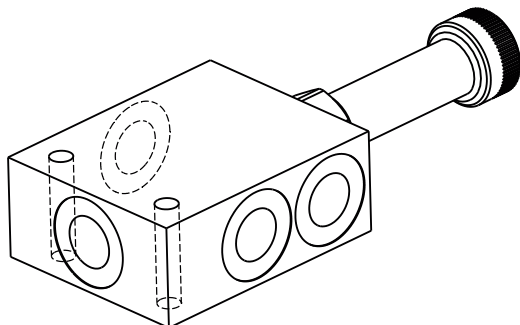
For flow diagram see
 PRESSURE DROP SOLENOID VALVE (9)

Dati e tarature ottenuti usando olio a 30 cSt a 50°C.
 Viscosità raccomandate 10 ÷ 420 cSt. Temperature di lavoro -20÷+90 °C. Filtrazione assoluta 25 µ.
 Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C (122 F). Recommended viscosity 10 ÷ 420 cSt, working temperature -20÷+90 °C (-4 F÷194 F). 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.

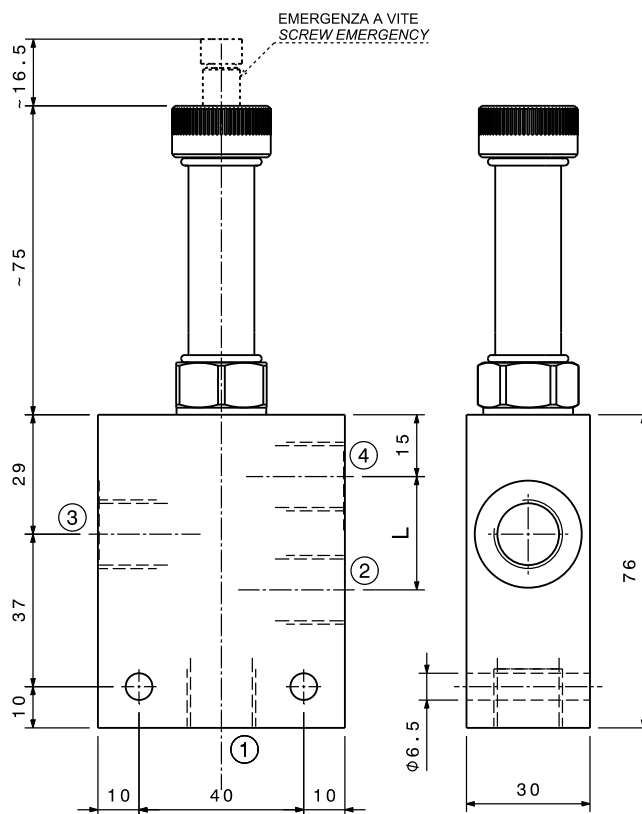
Valvola elettrica direzionale 4/2, tenuta a cassetto
4/2 solenoid directional valve, spool type

mod. EV-08-4X

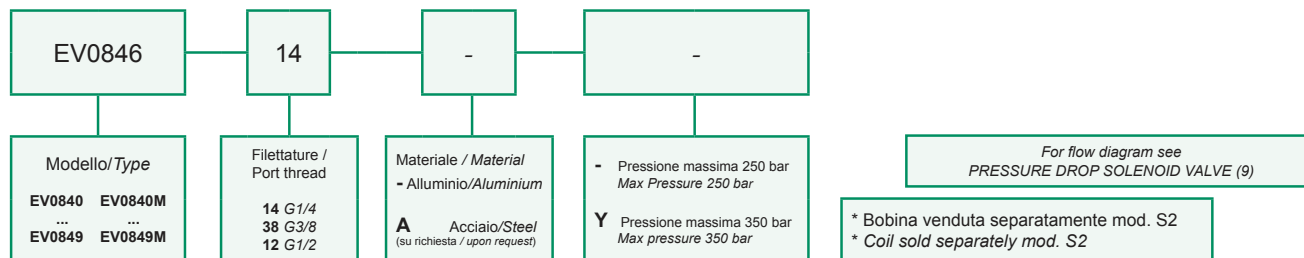


Portata massima Max flow	20 l/min 5.3 gpm	
Pressione massima Max pressure bar/psi	EV-08-4X-**	250 bar 3600 psi
	EV-08-4X**-Y (Su richiesta) (Upon request)	350 bar 5000 psi

Modello Type	Attacchi Ports	L (mm)
EV084X*-14	G1/4	27.5
EV084X*-38	G3/8	27.5
EV084X*-12	G1/2	31
EV084X*M-14	G1/4	27.5
EV084X*M-38	G3/8	27.5
EV084X*M-12	G1/2	31
X* = 0 ÷ 9 vedi schemi idraulici see hydraulic diagrams		
M versione con vite d'emergenza emergency screw version		

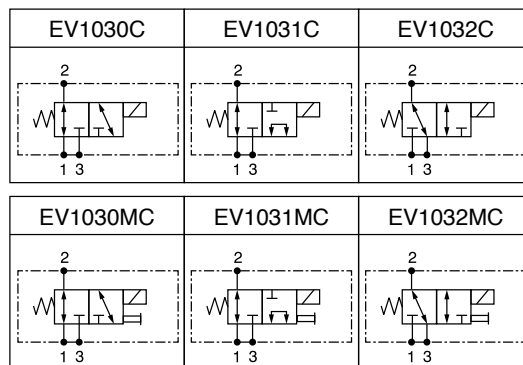
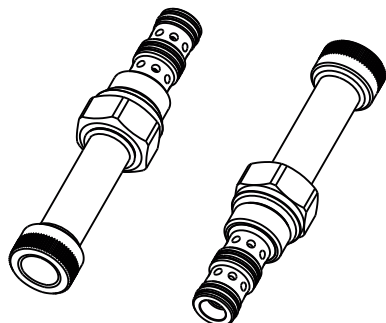


Sigla di ordinazione / Ordering code



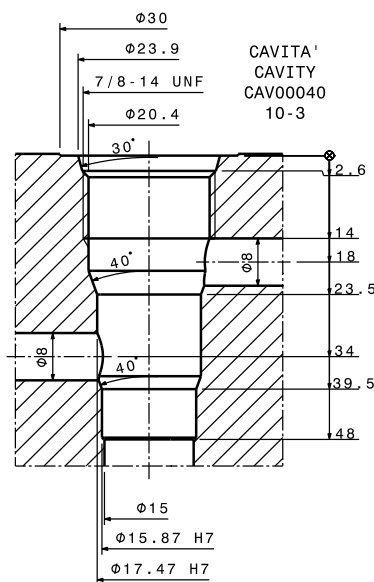
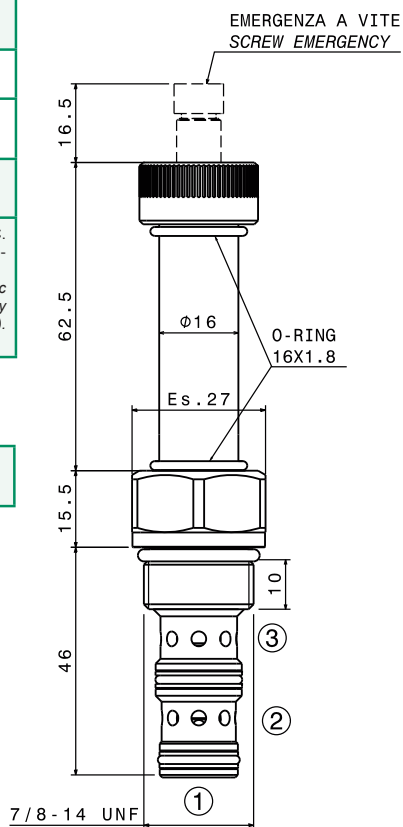
I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, **CBF** reserves the right to introduce modifications without notice.

Valvola elettrica direzionale 3/2 a cartuccia
3/2 solenoid directional valve, cartridge type
mod. EV-10-3X-C



Portata massima <i>Max flow</i>	30 l/min 7.9 gpm	
Pressione massima <i>Max pressure</i>	EV-10-3X-C	250 bar 3600 psi
	EV-10-3X-C-Y (Su richiesta) (Upon request)	350 bar 5000 psi
Coppia di serraggio <i>Installation torque</i>	35 ÷ 40 Nm 26 ÷ 30 lbf ft	
Dati e tarature ottenuti usando olio a 30 cSt a 50°C. Viscosità raccomandate 10 + 420 cSt. Temperature di lavoro -20++90 °C. Filtrazione assoluta 25 µ. <i>Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C (122 F). Recommended viscosity 10 + 420 cSt, working temperature -20++90 °C (-4 F÷194 F). Absolute filtration 25 µ.</i>		

M versione con vite d'emergenza
emergency screw version



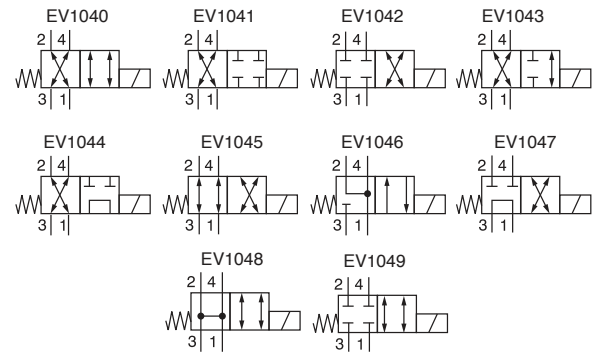
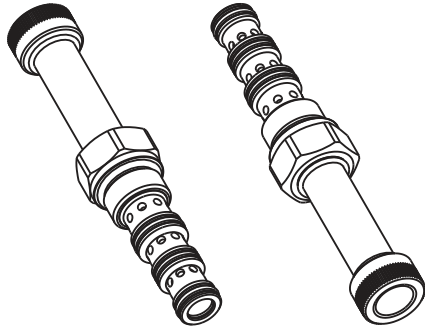
Sigla di ordinazione / Ordering code

EV-10-30	C*	- Pressione massima 250 bar Max Pressure 250 bar Y Pressione massima 350 bar Max pressure 350 bar
Modello/Type	EV1030 EV1030M EV1031 EV1031M EV1032 EV1032M	
	* Bobina venduta separatamente mod.S2 * Coil sold separately mod. S2	

For flow diagram see
PRESSURE DROP SOLENOID 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.

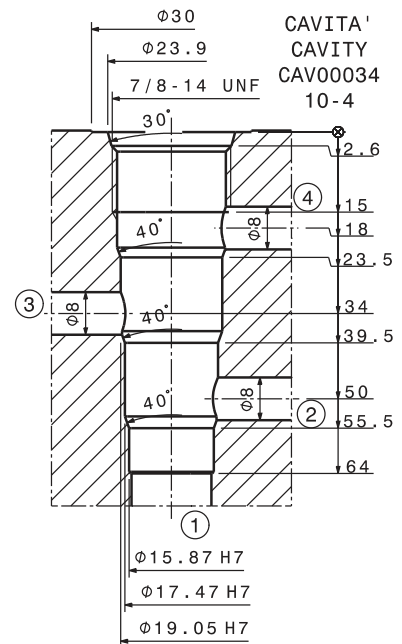
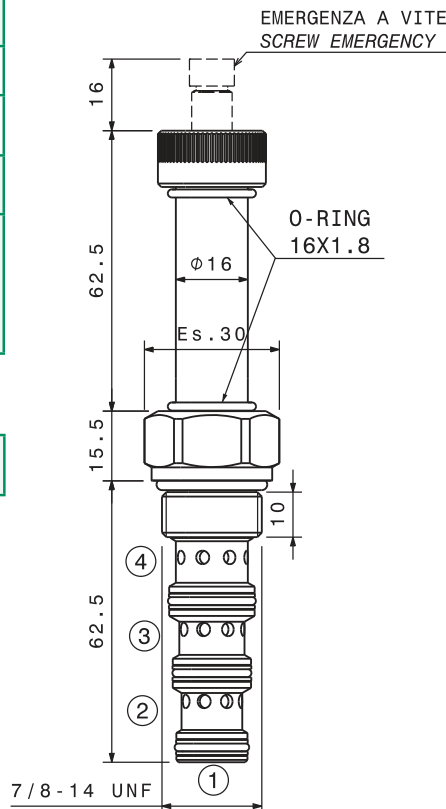
Valvola elettrica direzionale 4/2 a cartuccia
4/2 solenoid directional valve, cartridge type
mod. EV-10-4X-C



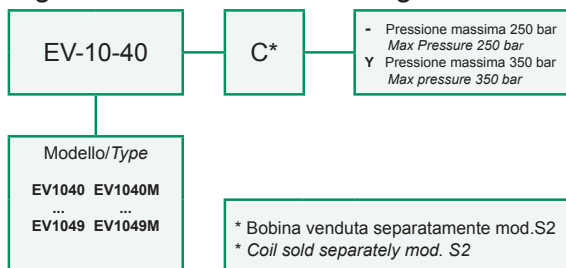
Portata massima Max flow	30 l/min 7.9 gpm	
Pressione massima Max pressure	EV-10-4X-C	250 bar 3600 psi
	EV-10-4X-C-Y (Su richiesta) (Upon request)	350 bar 5000 psi
Coppia di serraggio Installation torque	35 ÷ 40 Nm 26 ÷ 30 lbf ft	

Dati e tarature ottenuti usando olio a 30 cSt a 50°C.
Viscosità raccomandate 10 ÷ 420 cSt. Temperature di lavoro -20÷+90 °C. Filtrazione assoluta 25 µ.
Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C (122 F). Recommended viscosity 10 ÷ 420 cSt, working temperature -20÷+90 °C (-4 F÷194 F). Absolute filtration 25 µ.

M versione con vite d'emergenza
emergency screw version

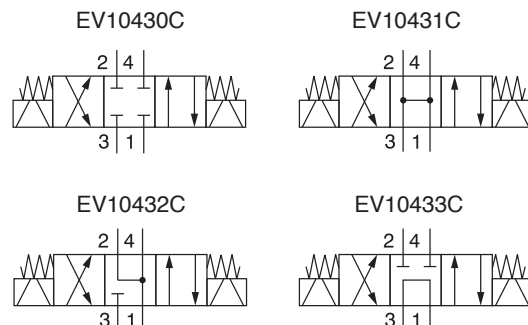
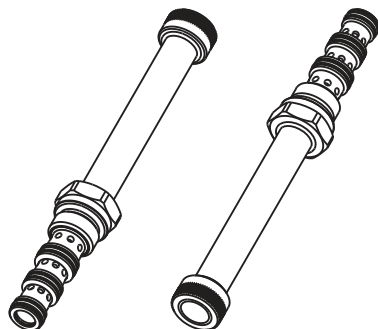


Sigla di ordinazione / Ordering code



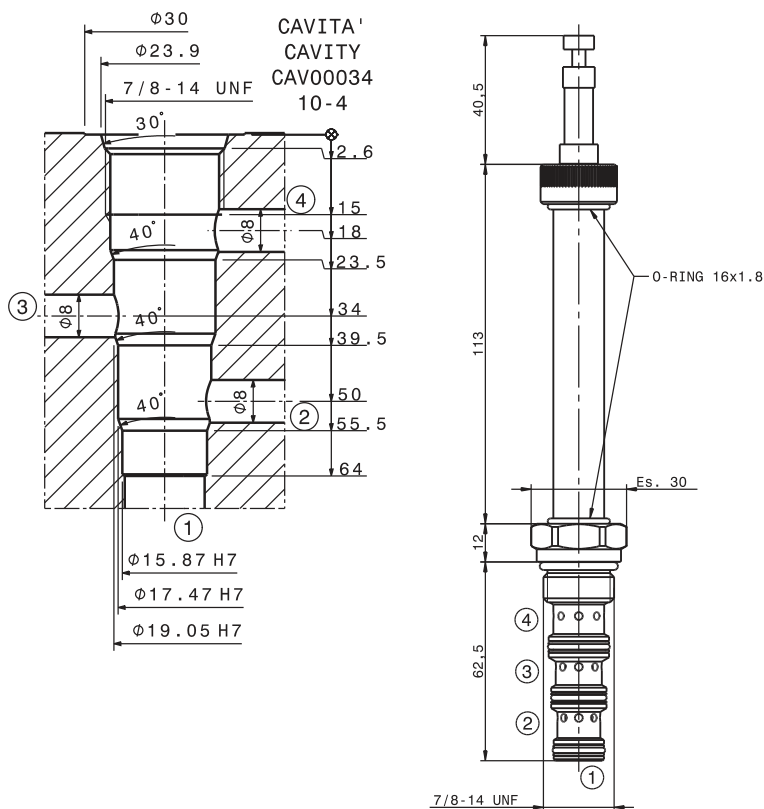
I dati non sono impegnativi, **CBF** si riserva di apportare modifiche senza preavviso.
The specifications are not binding, **CBF** reserves the right to introduce modifications without notice.

Valvola elettrica direzionale 4/3 a cartuccia
 4/3 solenoid directional valve, cartridge type
 mod. EV-10-4-3X-C



Portata massima <i>Max flow</i>	25 l/min 6.6 gpm	
Pressione massima <i>Max pressure</i>	EV-10-4-3-X-C	250 bar 3600 psi
	EV-10-4-3-X-C-Y (Su richiesta) (Upon request)	350 bar 5000 psi
Coppia di serraggio <i>Installation torque</i>	35 ÷ 40 Nm 26 ÷ 30 lbf ft	
Dati e tarature ottenuti usando olio a 30 cSt a 50°C. Viscosità raccomandate 10 ÷ 420 cSt. Temperature di lavoro -20÷+90 °C. Filtrazione assoluta 25 µ. <i>Performances and calibrations are carried out by using hydraulic oil with 30 cSt viscosity at 50°C (122 F). Recommended viscosity 10 ÷ 420 cSt, working temperature -20÷+90 °C (-4 F÷194 F). Absolute filtration 25 µ.</i>		

M versione con vite d'emergenza
 emergency screw version



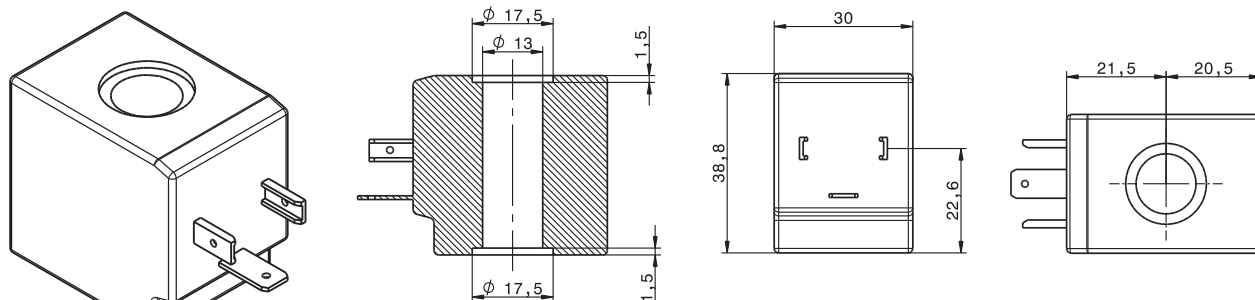
Sigla di ordinazione / Ordering code

EV-10-430	C*	- Pressione massima 250 bar Max Pressure 250 bar - Y Pressione massima 350 bar Max pressure 350 bar
Modello/Type		
EV10430 EV10430M		
... ..		
EV10433 EV10433M		
	* Bobina venduta separatamente mod.S2 * Coil sold separately mod. S2	

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 The specifications are not binding, **CBF** reserves the right to introduce modifications without notice.

Bobina standard per elettrovalvole a tenuta
Standard coil for poppet type solenoid cartridges

mod. S1



SEZIONE A-A

Descrizione tecnica
Technical Description

Potenza <i>Power</i>	Potenza assorbita in CC 18 W <i>DC absorbed power 18 W</i>
Funzionamento <i>Operation</i>	ED 100% alla potenza e temperature indicate <i>ED 100% at the shiwed power and temperatures</i>
Limiti temperatura ambiente <i>Environment temperature limits</i>	-30°C +50°C
Isolamento <i>Insulation</i>	Classe "F" 155°C (su richiesta Classe "H" 180°C) <i>Class "F" 155°C (On request Class "H" 180°C)</i>
Isolamento filo di rame <i>Copper wire insulation</i>	Classe "H" (200°C) <i>Class "H" wire (200°C)</i>
Protezione <i>Protection</i>	IP54 (IEC 60529) utilizzando l'apposito connettore, Montando opportune guarnizioni la protezione può diventare IP65 <i>IP54 (IEC 60529) with the appropriate connector, With appropriate gaskets the protection becomes IP65</i>
Caratteristiche costruttive <i>Construction characteristics</i>	Circuito magnetico rivestito in nylon caricato fibra di vetro; Altri materiali termoplastici disponibili su richiesta; Particolari metallici protetti contro l'ossidazione <i>Magnetic circuit encapsulated with fibre-glass reinforced nylon; Other thermoplastic materials on request Metallic parts protected against oxidation</i>

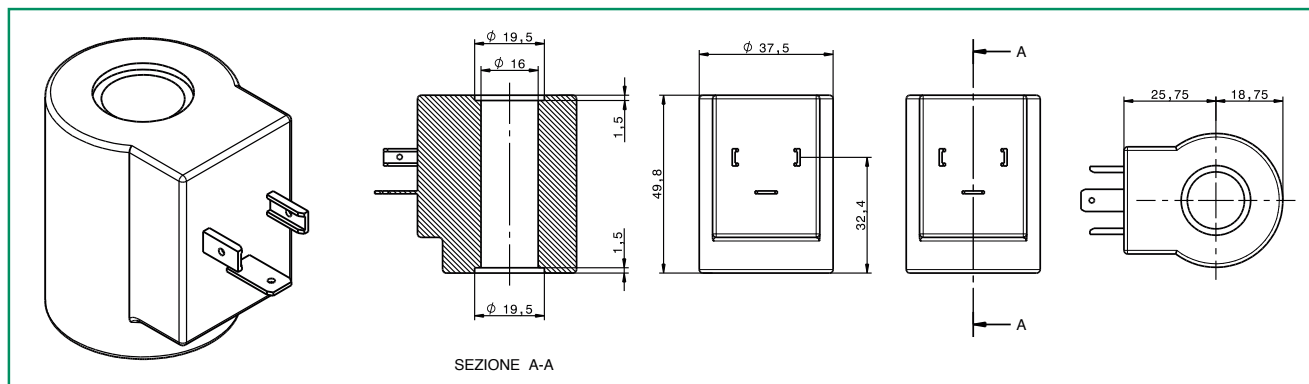
Su richiesta *On request*

Model Type						
Tensione Voltage	DIN 43650	Cavetti 500mm <i>Wires 500mm</i>	Cavo bipolare 600 mm <i>Bipolar wire 600 mm</i>	Kostal	AMP	Deutsch
12V CC-DC	AC000046	-	-	-	-	-
24V CC-DC	AC000051	-	-	-	-	-
110V CC-DC	AC000043	-	-	-	-	-
220V CC-DC	AC000047	-	-	-	-	-
24V RAC*	AC000159	-	-	-	-	-
110V RAC*	AC000044	-	-	-	-	-
220V RAC*	AC000048	-	-	-	-	-
Altre su richiesta <i>Other on request</i>	*da usare per alimentazione in corrente alternata raddrizzata <i>*use only with rectified alternate current</i>					

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Bobina standard per elettrovalvole a cassetto
Standard coil for spool type solenoid cartridges

mod. S2



Descrizione tecnica
Technical Description

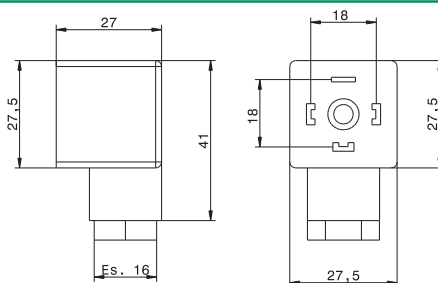
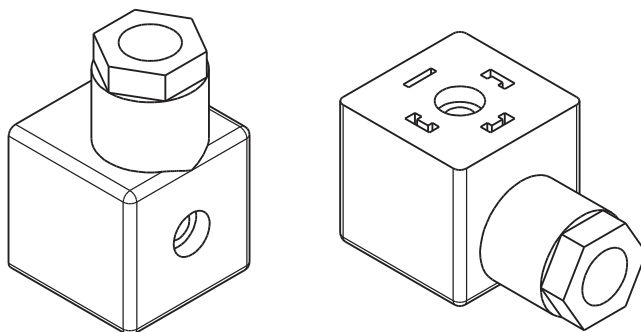
Potenza Power	Potenza assorbita in CC 26 W DC absorbed power 26 W
Funzionamento Operation	ED 100% alla potenza e temperature indicate ED 100% at the shiwed power and temperatures
Limiti temperatura ambiente Environment temperature limits	-30°C +50°C
Isolamento Insulation	Classe "F" 155°C - Classe "H" 180°C Class "F" 155°C - Class "H" 180°C
Isolamento filo di rame Copper wire insulation	Classe "H" (200°C) Class "H" wire (200°C)
Protezione (*DIN43650) Protection (*DIN43650)	IP54 (IEC 60529) utilizzando l'apposito connettore, Montando opportune guarnizioni la protezione può diventare IP65 IP54 (IEC 60529) with the appropriate connector, With appropriate gaskets the protection becomes IP65
Caratteristiche costruttive Construction characteristics	Circuito magnetico rivestito in nylon caricato fibra di vetro; Altri materiali termoplastici disponibili su richiesta; Particolari metallici protetti contro l'ossidazione Magnetic circuit encapsulated with fibre-glass reinforced nylon; Other thermoplastic materials on request Metallic parts protected against oxidation

Su richiesta On request

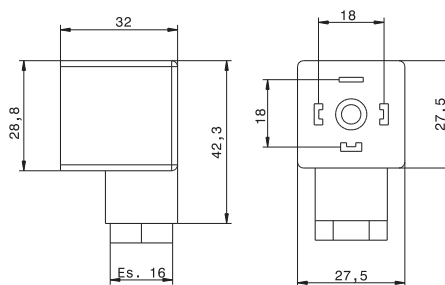
Model Type			non disponibile not available			non disponibile not available
Tensione Voltage	DIN 43650	Cavetti 500mm Wires 500mm	Cavo bipolare 600 mm Bipolar wire 600 mm	Kostal	AMP	Deutsch
12V CC-DC	AC000166	-	-	-	-	-
24V CC-DC	AC000167	-	-	-	-	-
24V RAC*	-	-	-	-	-	-
110V RAC*	AC000165	-	-	-	-	-
220V RAC*	-	-	-	-	-	-
230V RAC*	-	-	-	-	-	-
Altre su richiesta Other on request	*da usare per alimentazione in corrente alternata raddrizzata *use only with rectified alternate current					

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Connettori elettrici DIN43650
Electrical connectors DIN43650
mod. C1



Scatola esterna Housing	Tensione nominale (max) Max voltage	Portata massima contatti Max current	Portata nominale contatti Operating current	Codice Code
Nero Black	250 V AC / 300 V DC	16 A	10 A	AC000002



Schema Scheme	Descrizione Description	Tensione Voltage	Codice Code
	Varistore di protezione contro le sovratensioni Varistor protection against overvoltage	24V	-
		48V	-
		110V	-
		250V	-
	Raddrizzatore a ponte corrente max. 1A. Da usare con bobine RAC Bridge rectifier, max. current 1A. To use with RAC coil	250V	AC000003
	Raddrizzatore a ponte, corrente max: 1A (3A) + VDR (varistore) Bridge rectifier, max current: 1A (3A) + VDR (varistor)	24V	-
		48V	-
		110V	-
		250V	-

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