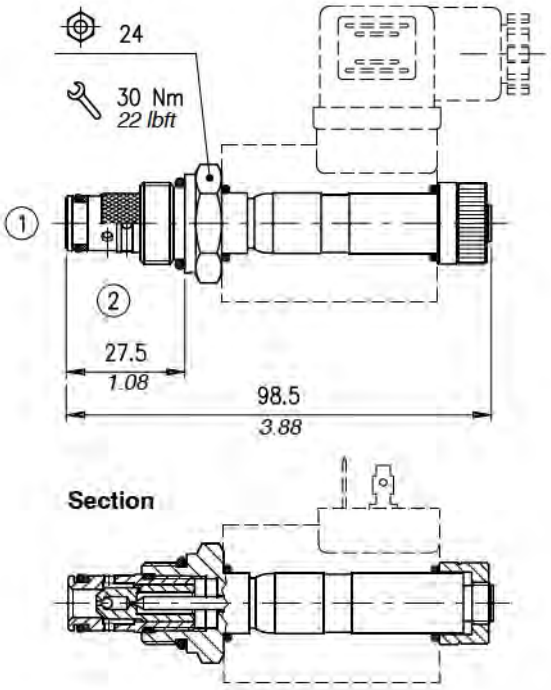
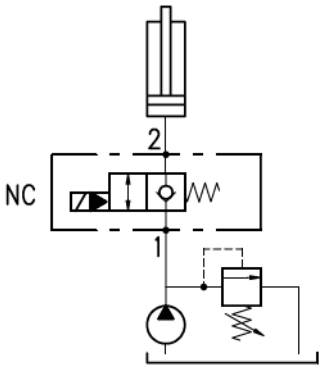
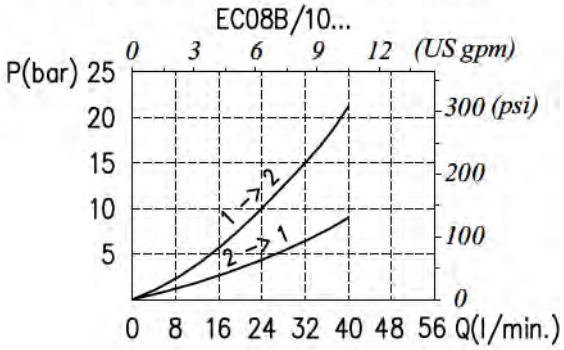
Dimensions and hydraulic circuit



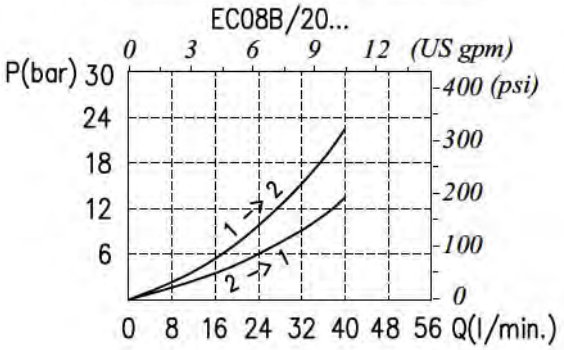


Rating diagrams

Typical pressure drop vs. flow characteristics



Typical pressure drop vs. flow characteristics



Order code

EC 08B / ☐ -0 -☐ -☐

Assembly scheme

1)NA Normally opened
2)NC Normally closed

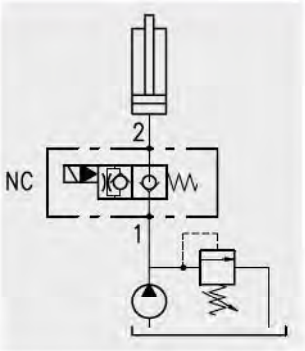
Manual override option
(see page 163)

N) No emergency
P) Button
T) Screw

Seals

B) Buna
V) Viton

Operation



With the NA (normally Opened) valve version and dropped out solenoid, the oil flow is free from 2 to 1 and is restricted by a 0,4mm (0.016 in) large hole in the opposite direction from 1 to 2. When the solenoid is energized the flow is stopped from 2 to 1 and is free from 1 to 2.
With the NC (normally closed) valve version and dropped out solenoid, the oil flow is stopped from 2 to 1 and is free from 1 to 2. When the solenoid is energized the flow is free from 2 to 1 and is restricted by a 0,4 mm (0.016 in) large hole in the opposite direction (from 1 to 2).

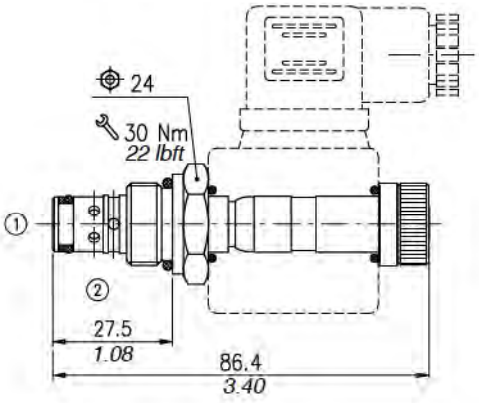
Performance

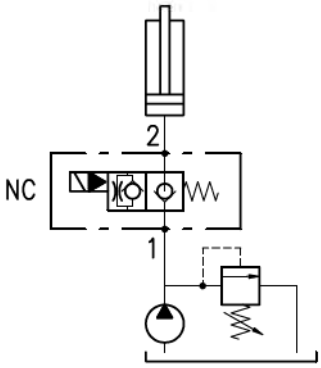
Cartridges

Type	Maximum flow		Maximum pressure		Solenoids	*Oil leaks from E to U	Weight		Cavities and tools
	l/min	*US gpm*	bar	*psi*			kg	*lb*	
EC08A	20	*5.3*	210	*3050*	BE see page 154	0.10 cm³/min. *- 61x10⁻⁴ in³/min.* (2 drops) at 210 bar *- 3050 psi*	0,12	*0.26*	see cavity SAE 8-2 page 171

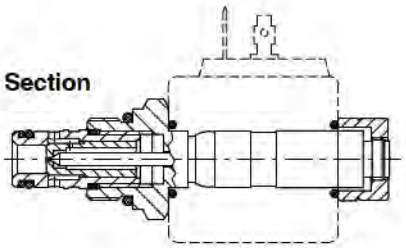
*With oil viscosity of 46 cst

Dimensions and hydraulic circuit



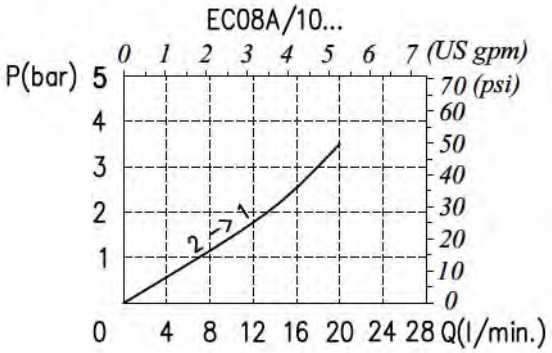


Section

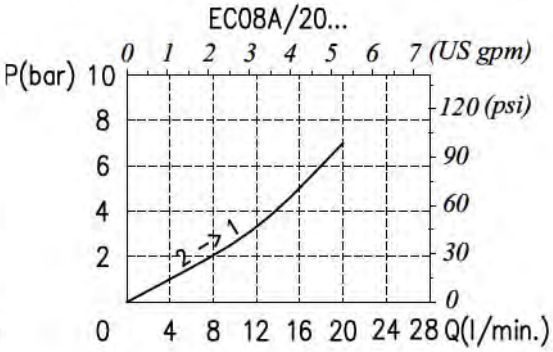


Rating diagrams

Typical pressure drop vs. flow characteristics



Typical pressure drop vs. flow characteristics



Order code

EC 08A / □ -0 -□ -□

Assembly scheme

1)NA Normally opened
2)NC Normally closed

Manual override option
(see page 163)

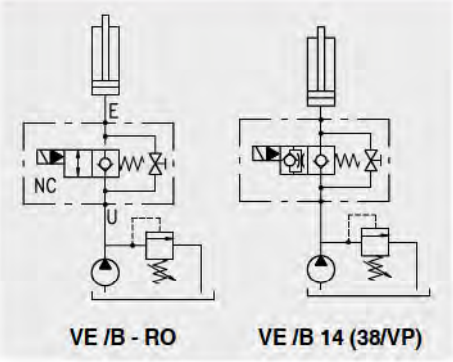
N) No emergency
P) Button
T) Screw

Seals

B) Buna
V) Viton

Operation

With the NA (normally opened) valve version and dropped out solenoid, the oil flow is free from E to U and is restricted by a 0.4 mm -0.016 in- large hole in the opposite direction. When the solenoid is energized the flow is stopped from E to U and is free from U to E.
With the NC (normally closed) valve version and dropped out solenoid, the oil flow is stopped from E to U and is free from U to E. When the solenoid is energized the flow is free from E to U and is restricted by a 0.4 mm -0.016 in- large hole in the opposite direction.



VE /B - RO VE /B 14 (38/VP)

Performance

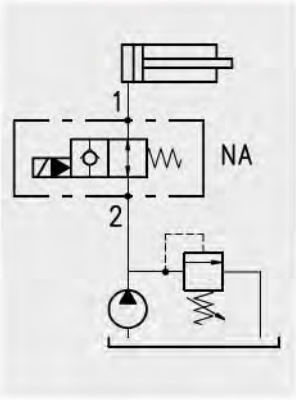
Body valves

Type	Maximum flow		Maximum pressure		Solenoids	*Oil leaks from E to U	Weight		Cartridge used
	l/min	*US gpm*	bar	*psi*			kg	*lb*	
VE /B 14 (38/VP)	20	*5.3*	210 (both with aluminium and steel body)	*3050*	BE see page154	0.10 cm³/min. - *61x10⁻⁴ in³/min.* (2 drops) at 210 bar - *3050 psi*	0,32 aluminium 0,69 steel	*0.70* *1,52* 	EC08A see page 16
VE/B 38	40	*10.5*	210 aluminium body 350 steel body	*3050 aluminium body* *5100 steel body*	BT see page 155		0,34 aluminium 0,71 steel	*0.75* *1.56* 	EC08B see page 14
VE/B 12	60	*16*					0,78 aluminium 1,59 steel	*1.72* *3.50* 	VSE /P /2-70 see page 12
VE/B 34	75	*20*					0,76 aluminium 1,55 steel	*1.67* *3.42* 	VSE /P /2-70 see page 12
VE/B 100	160	*42*					1,15 aluminium 2,45 steel	*2.53* *5.40* 	VSE /P /2-150 see page 13
VE/B/RO 38	40	*10.5*					0,41 aluminium 0.79 steel	*0.90* *1.74* 	EC08B see page 14
VE /B /RO 14 (38/VP)	20	*5.3*	210 (both with aluminium and steel body)	*3050*	BE see page154		0,39 aluminium 0,76 steel	*0.86* *1.67* 	EC08A see page 16

*with oil viscosity of 46 cst

Operation

With the NA (normally opened) valve version and deenergized solenoid, the oil flow is free from 1 to 2 and vice versa. When the solenoid is energized the flow is stopped from 2 to 1 and is free from 1 to 2.
With the NC (normally closed) valve version and deenergized solenoid, the oil flow is stopped from 2 to 1 and is free from 1 to 2. When the solenoid is energized the flow is free from 1 to 2 and vice versa.



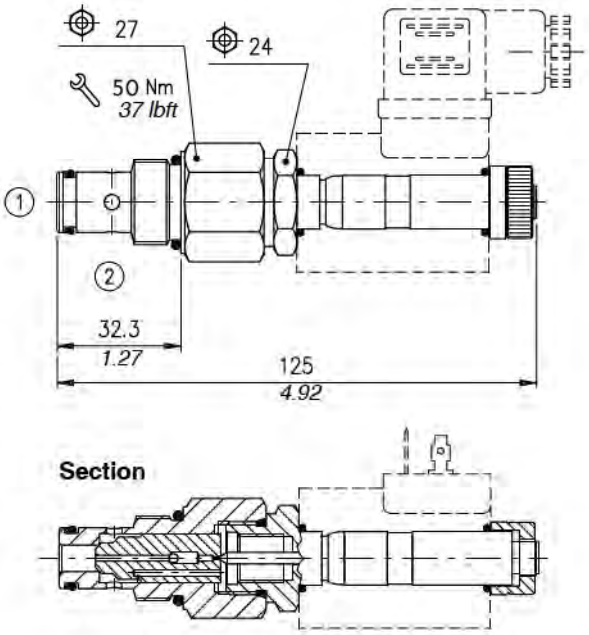
Performance

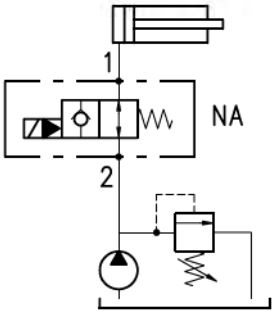
Cartridges

Type	Maximum flow		Maximum pressure		Solenoids	*Oil leaks from E to U	Weight		Cavities and tools
	l/min	*US gpm*	bar	*psi*			kg	*lb*	
EC10A	50	*13*	350	*5100*	BT see page 155	0.10 cm³/min. - *61x10⁻⁴ in³/min.* (2 drops) at 210 bar - *3050 psi*	0,24	*0.53*	See cavity SAE 10-2 page 171
EC12A	70	*18*	350	*5100*		0.25 cm³/min. - *15x10⁻³ in³/min.* (5 drops) at 210 bar - *3050 psi*	0,30	*0.66*	See cavity SAE 12-2 page 171
EC16A	150	*40*	350	*5100*			0,30	*0.66*	See cavity SAE 16-2 page 171

*with oil viscosity of 46 cst

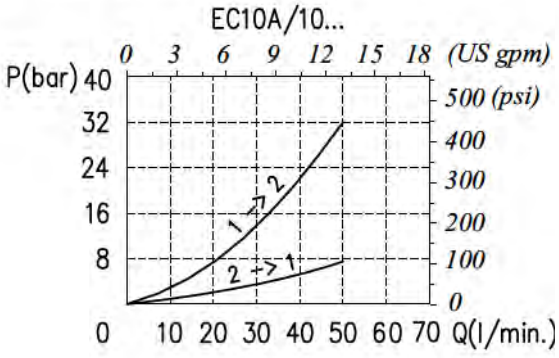
Dimensions and hydraulic circuit



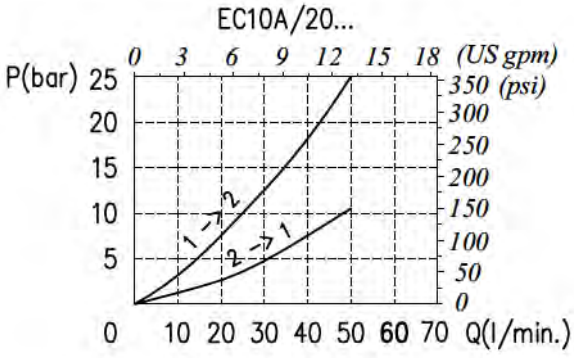


Rating diagrams

Typical pressure drop vs. flow characteristics



Typical pressure drop vs. flow characteristics



Order code

EC 10A / □ -0 -□ -□

Assembly scheme

1) NA Normally opened
2) NC Normally closed

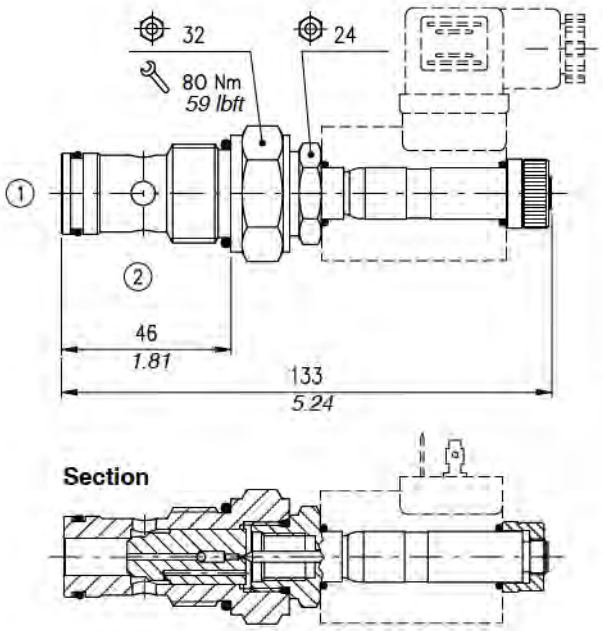
Manual override option
(see page 163)

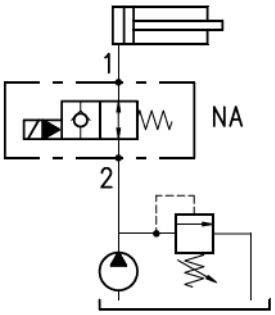
N) No emergency
P) Button (only for **NA**)
T) Screw

Seals

B) Buna
V) Viton

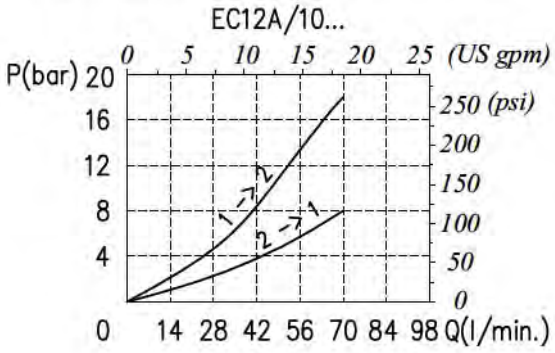
Dimensions and hydraulic circuit



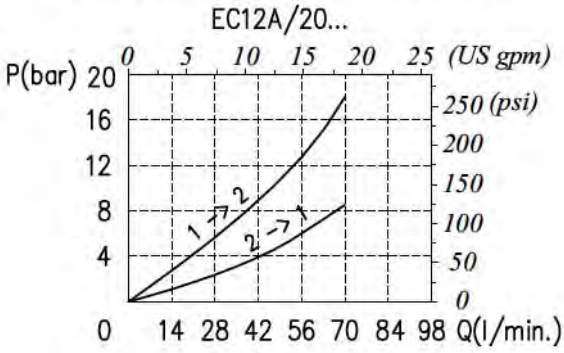


Rating diagrams

Typical pressure drop vs. flow characteristics



Typical pressure drop vs. flow characteristics



Order code

EC 12A / □ -0 -□ -□

Assembly scheme

1) **NA** Normally opened
2) **NC** Normally closed

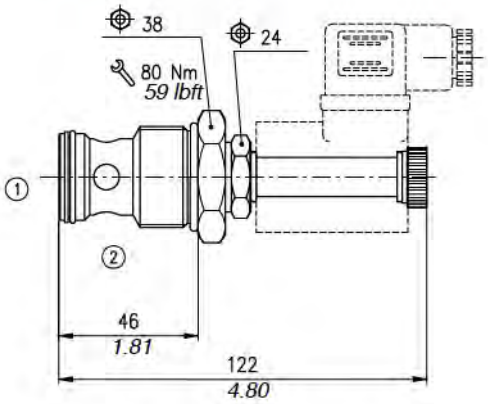
Manual override option
(see page 163)

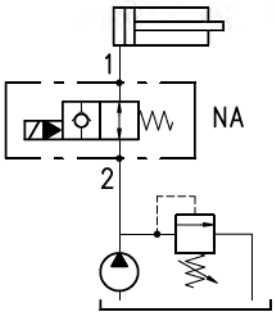
N) No emergency
P) Button (only for **NA**)
T) Screw

Seals

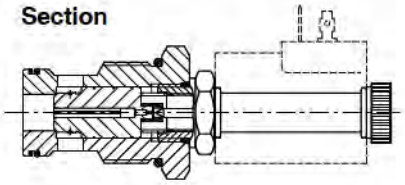
B) Buna
V) Viton

Dimensions and hydraulic circuit



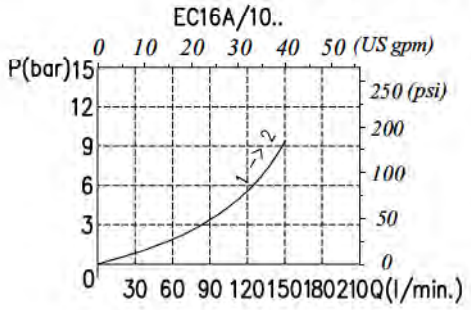


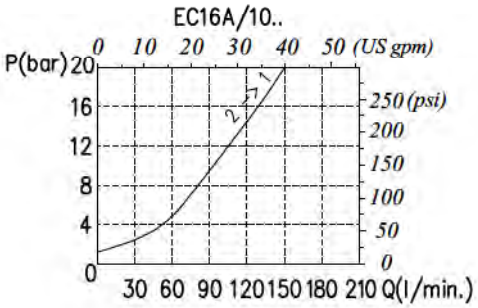
Section

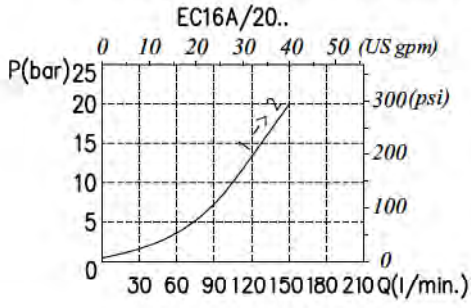


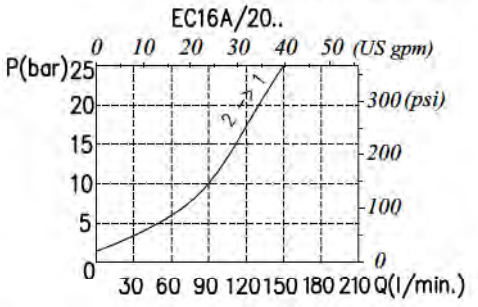
Rating diagrams

Typical pressure drop vs. flow characteristics









Order code

EC 16A / □ -0 -□ -□

Assembly scheme

1) **NA** Normally opened
2) **NC** Normally closed

Manual override option
(see page 163)

N) No emergency
P) Button (only for **NA**)
T) Screw

Seals

B) Buna
V) Viton