

EC..M type
directional solenoid valves - 2 way / 2 positions

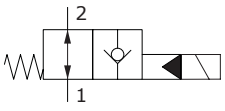
- Pilot operated
- Poppet type
- Oil leakage free from port 2 to port 1
- Normally open and closed configurations
- From SAE08 to SAE16 cavities

Technical specifications and diagrams are measured with mineral oil of 46 cSt viscosity at 40°C *(104°F)* temperature.

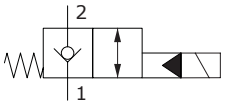
		EC08M	EC10M	EC12M	EC16M
Nominal flow		40 l/min *(10.5 US gpm)*	70 l/min *(18.5 US gpm)*	150 l/min *(40 US gpm)*	150 l/min *(40 US gpm)*
Max. pressure		380 bar *(5500 psi)*			
Oil leakage	at 210 bar *(3050 psi)*	0.25 cm³/min *(0.015 in³/min)*	0.25 cm³/min *(0.015 in³/min)*	0.25 cm³/min *(0.015 in³/min)*	0.25 cm³/min *(0.015 in³/min)*
Fluid		mineral based oil			
Viscosity		10-200 cSt			
Max level of contamination		18/16/13 ISO4406			
Fluid temperature	*with NBR seals* *with FPM seals*	from -20°C *(-4°F)* to 80°C *(176°F)* from -20°C *(-4°F)* to 100°C *(212°F)*			
Environmental temp. for working conditions		from -20°C *(-4°F)* to 50°C *(122°F)*			
Cavity		SAE 08/2	SAE 10/2	SAE 12/2	SAE 16/2
Coil type*		BER			
Nominal voltages		12 VDC - 24 VDC ± 10%			
Power rating		19.2 W (12 VDC - 24 VDC)			
Weight		0.135 kg *(0.30 lb)*	0.170 kg *(0.37 lb)*	0.230 kg *(0.51 lb)*	0.315 kg *(0.69 lb)*

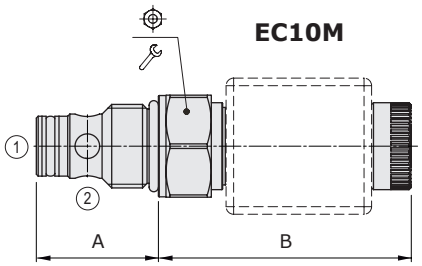
*NOTE - For different conditions, please contact Walvoil Sales Dpt. - *For coils further features see from page 206.*

Normally open configuration



Normally closed configuration



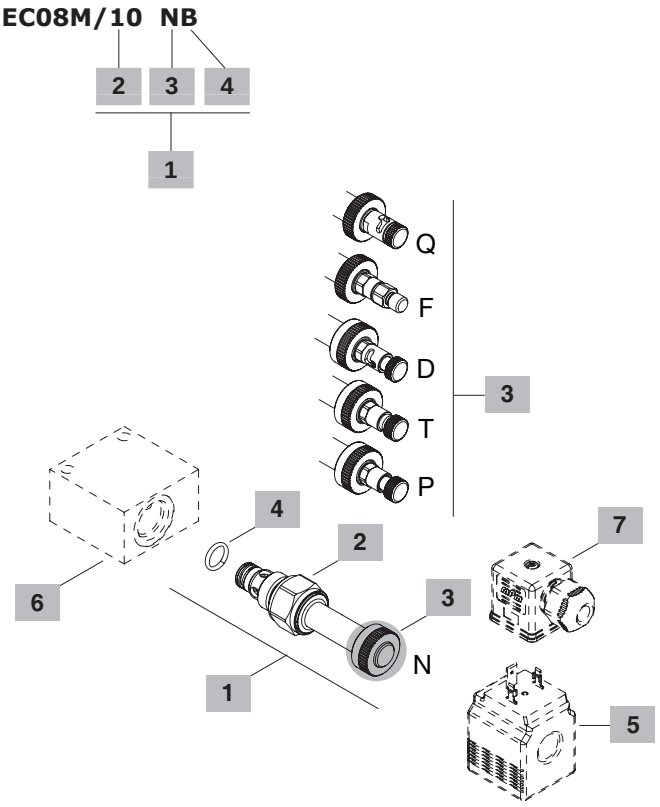


Valve type		A mm	A in	B mm	B in		Nm	lbft
EC08M/	10NB	28	*1.10*	67.2	*2.64*	24	30	*22*
	20NB	28	*1.10*	63.3	*2.49*	24	30	*22*
EC10M/	10NB	32.3	*1.27*	66.9	*2.63*	27	50	*37*
	20NB	32.3	*1.27*	63	*2.48*	27	50	*37*
EC12M/	10NB	45	*1.77*	61.1	*2.40*	32	80	*59*
	20NB	45	*1.77*	57.2	*2.25*	32	80	*59*
EC16M/	10NB	46	*1.81*	61.2	*2.41*	38	80	*59*
	20NB	46	*1.81*	57.3	*2.26*	38	80	*59*

For dimensions with different type of emergency see page 213

Ordering codes and description composition

EC08M/10 NB



1 Cartucce

TYPE	CODE	DESCRIPTION
SAE cavity 08/2		
EC08M/10NB	0EC08002031	Normally open (N.O.) without emergency
EC08M/10PB	0EC08002033	(N.O.) push button emergency
EC08M/10TB	0EC08002034	(N.O.) screw type emergency
EC08M/10DB	0EC08002035	(N.O.) push type with detent emergency
EC08M/20NB	0EC08002032	Normally closed (N.C.) without emergency
EC08M/20FB	0EC08002036	(N.C.) pull button emergency
EC08M/20TB	0EC08002037	(N.C.) screw type emergency
EC08M/20QB	0EC08002038	(N.C.) pull type with detent emergency
SAE cavity 10/2		
EC10M/10NB	0EC10002012	Normally open (N.O.) without emergency
EC10M/10PB	0EC10002014	(N.O.) push button emergency
EC10M/10TB	0EC10002015	(N.O.) screw type emergency
EC10M/10DB	0EC10002016	(N.O.) push type with detent emergency
EC10M/20NB	0EC10002013	Normally closed (N.C.) without emergency
EC10M/20FB	0EC10002017	(N.C.) pull button emergency
EC10M/20TB	0EC10002018	(N.C.) screw type emergency
EC10M/20QB	0EC10002019	(N.C.) pull type with detent emergency
SAE cavity 12/2		
EC12M/10NB	0EC12002007	Normally open (N.O.) without emergency
EC12M/10PB	0EC12002009	(N.O.) push button emergency
EC12M/10TB	0EC12002010	(N.O.) screw type emergency
EC12M/10DB	0EC12002011	(N.O.) push type with detent emergency
EC12M/20NB	0EC12002008	Normally closed (N.C.) without emergency
EC12M/20FB	0EC12002012	(N.C.) pull button emergency
EC12M/20TB	0EC12002013	(N.C.) screw type emergency
EC12M/20QB	0EC12002014	(N.C.) pull type with detent emergency
SAE cavity 16/2		
EC16M/10NB	0EC16002020	Normally open (N.O.) without emergency
EC16M/10PB	0EC16002022	(N.O.) push button emergency
EC16M/10TB	0EC16002023	(N.O.) screw type emergency
EC16M/10DB	0EC16002024	(N.O.) push type with detent emergency
EC16M/20NB	0EC16002021	Normally closed (N.C.) without emergency
EC16M/20FB	0EC16002025	(N.C.) pull button emergency
EC16M/20TB	0EC16002026	(N.C.) screw type emergency
EC16M/20QB	0EC16002027	(N.C.) pull type with detent emergency

2 Spool

TYPE	DESCRIPTION
1	Normally open configuration
2	Normally closed configuration

3 Emergency

TYPE	DESCRIPTION
N	Without emergency
P	Push button type (N.O.)
T	Screw type
D	Push type with detent (N.O.)
F	Pull button type (N.C.)
Q	Pull type with detent (N.C.)

4 Seals

TYPE	DESCRIPTION
B	**NBR (Buna)** o-ring seals, std configuration
V	**FPM (Viton)** o-ring seals, contact Sales Dept

5 Coil

TYPE	CODE	DESCRIPTION
BER 12VDC	4SLE001200	12VDC-ISO4400 coil

For complete coils list see from page 206

6 Valve body

TYPE	CODE	DESCRIPTION
SAE 08/2-G 3/8	3CC0820C11	Aluminium body for cavity 08 valve, G3/8 std thread
SAE 10/2-G 3/8	3CC1020C11	Aluminium body for cavity 10 valve, G3/8 std thread
SAE 12/2-G 1/2	3CC1220D11	Aluminium body for cavity 12 valve, G1/2 std thread
SAE 16/2-G 3/4	3CC1620E11	Aluminium body for cavity 16 valve, G3/4 std thread

Note: aluminium body can stand up to 210 bar *(3050 psi)*

For steel bodies or different threading see from page 215

7 Connettore

TYPE	CODE	DESCRIPTION
ISO4400	4CN1009995	Connector

For complete connectors list see from page 206