

EW..M type directional solenoid valves – 2 way/2 positions

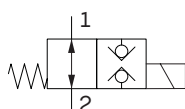
- Poppet type
- Direct acting with on-off solenoid
- With check in both directions
- Normally open and closed configurations
- Different types of emergencies available
- From SAE08 to SAE10 cavities

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

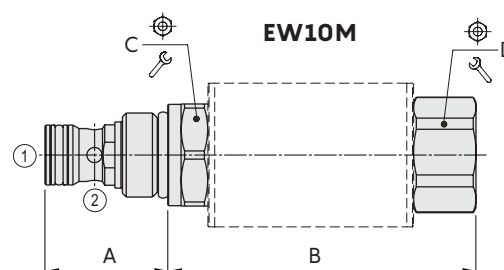
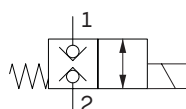
	EW08M	EW10M
Nominal flow	20 l/min (5.28 US gpm)	40 l/min (10.57 US gpm)
Max. pressure	250 bar (3600 psi)	350 bar (5100 psi)
Oil leakage	at 210 bar (5100 psi) 0.25 cm³/min (0.015 in³/min)	
Fluid	mineral based or synthetic hydraulic fluid with lubricating properties	
Viscosity	10–200 cSt	
Max level of contamination	18/16/13 ISO4406	
Fluid temperature	with NBR seals+Polyurethane with FPM seals	from -25°C (-13°F) to 90°C (194°F) from -20°C (-4°F) to 110°C (230°F)
Environmental temp. for working conditions	from -20°C (-4°F) to 60°C (140°F)	
Cavity	SAE 8/2	SAE 10/2
Coil type*	BER	BH
Nominal voltages	12VDC – 24VDC ± 10%	
Power rating	19 W (12VDC – 24VDC)	33 W
Weight	0.15 kg (0.33 lb)	0.30 kg (0.66 lb)

NOTE – For different conditions, please contact Walvoil Sales Dpt. – *For coils further features see from page 201.

Normally open configuration

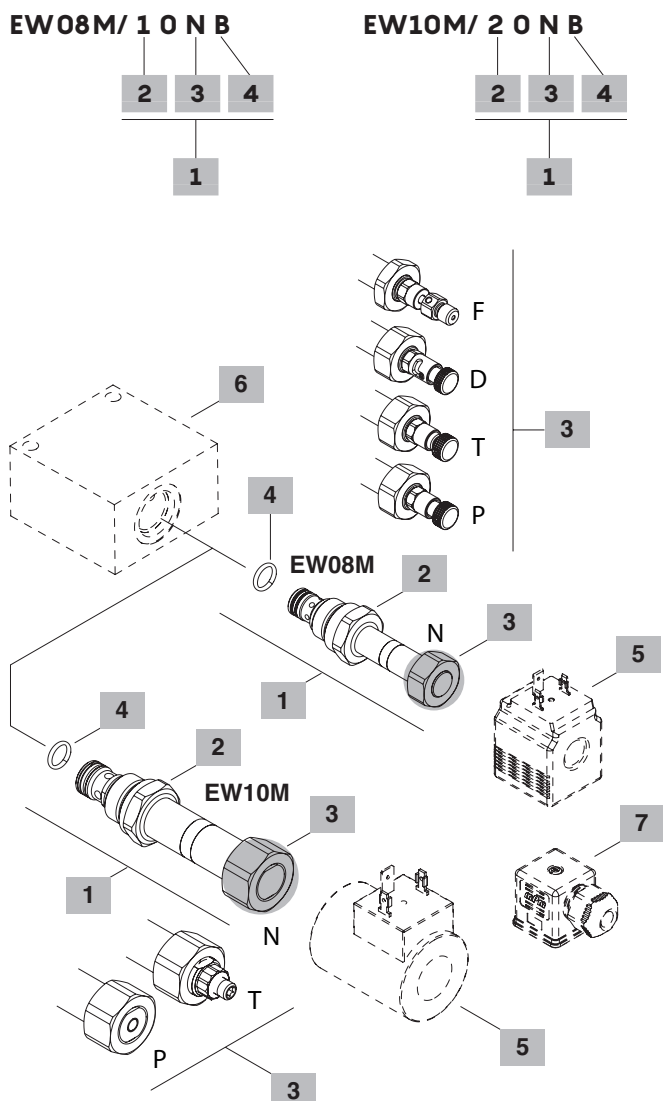


Normally closed configuration



Valve type	A		B										C				D	
			N without emergency	T screw		P push button		D push type with detent		F pull button								
	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	Nm	lbft	Nm	lbft		
EW08M/1	28	1.10	60.2	2.41	74.7	2.94	-	-	-	-	88.2	3.47	24	30	22	22	5	3.7
EW08M/2	28	1.10	62.5	2.46	85.4	3.36	85.4	3.36	88.1	3.47	-	-	24	30	22	22	5	3.7
EW10M	32.5	1.28	81.5	3.21	95.3	3.75	81.5	3.21	-	-	-	-	27	50	37	28	5	3.7

Ordering codes and description composition



1 Cartridges

TYPE	CODE	DESCRIPTION
SAE cavity 08/2		
EW08M/10NB	0EW08002014	Normally open (N.O.) without emergency
EW08M/10FB	0EW08002015	(N.O.) pull button emergency
EW08M/10TB	0EW08002016	(N.O.) screw type emergency
EW08M/20NB	0EW08002018	Normally closed (N.C.) without emergency
EW08M/20PB	0EW08002019	(N.C.) push button emergency
EW08M/20TB	0EW08002020	(N.C.) screw type emergency
EW08M/20DB	0EW08002021	(N.C.) push type with detent emergency
SAE cavity 10/2		
EW10M/20NB	0EW10002008	Normally closed (N.C.) without emergency
EW10M/20TB	0EW10002009	(N.C.) screw type emergency
EW10M/20PB	0EW10002010	(N.C.) push button 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.C.)
T	Screw type (N.C. - N.O. for EW08M / N.C. for EW10M)
D	Push type with detent (N.C.)
F	Pull button type (N.O.)

4 Seals

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

5 Coils

TYPE	CODE	DESCRIPTION
BER12VDC	4SLE001200A	12VDC-ISO4400 coil for EW08M
BH12VDC	4SLD001200A	12VDC-ISO4400 coil for EW10M

For complete coils list see page 201

6 Valve body

TYPE	CODE	DESCRIPTION
SAE08/2-G 3/8	3CC0820C11	Aluminium body for cavity 08 valve, G 3/8 std thread
SAE10/2-G 3/8	3CC1020C11	Aluminium body for cavity 10 valve, G 3/8 std thread

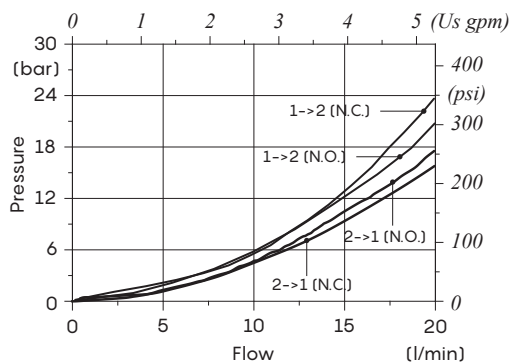
Note: aluminium body can stand up to 210 bar (3050 psi)
For steel bodies or different threading see from page 208

7 Connector

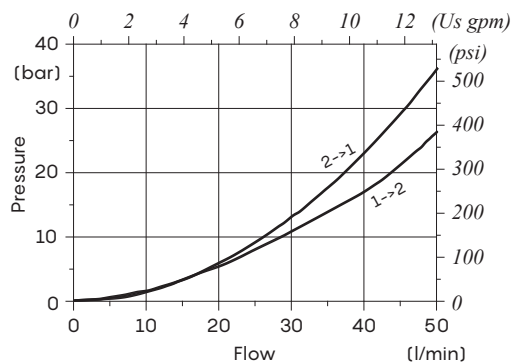
TYPE	CODE	DESCRIPTION
ISO4400	4CN1009995B	Connector

For complete connectors list see from page 201

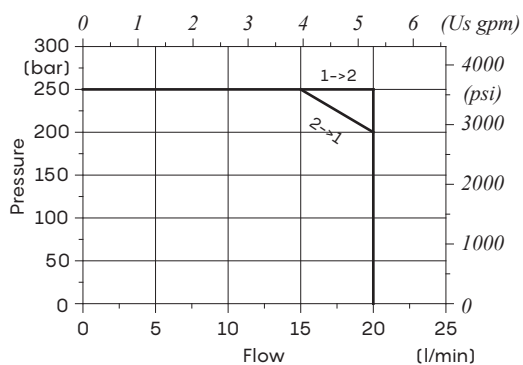
EW08M pressure drop vs. flow



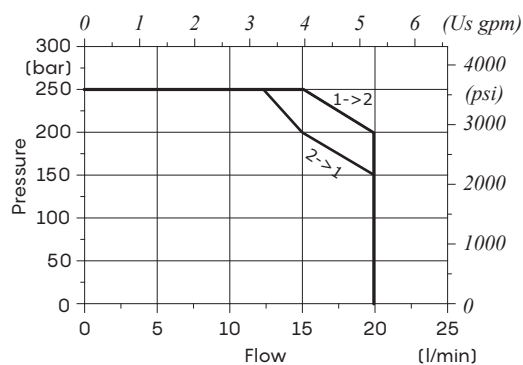
EW10M pressure drop vs. flow (N.C.)



EW08M performance limit (N.O.)



EW08M performance limit (N.C.)



EW10M performance limit (N.C.)

