



EJ..M type directional solenoid valves – 3 way / 2 positions

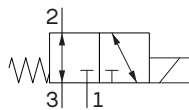
- Spool type
- Direct acting with on-off solenoid
- Different types of emergencies available
- From SAE08 to SAE12 cavities

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

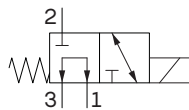
		EJ08M	EJ10M	EJ12M
Max. flow		25 l/min (6.6 US gpm)	40 l/min (10.5 US gpm)	60 l/min (15.8 US gpm)
Max. pressure		250 bar (3600 psi)		
Oil leakage	at 210 bar (3050 psi)	40 cm³/min (2.44 in³/min)	80 cm³/min (4.88 in³/min)	400 cm³/min (24.4 in³/min)
Fluid	mineral based or synthetic hydraulic fluid with lubricating 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 08/3	SAE 10/3	SAE 12/3
Coil type*		BER	BC	BH
Nominal voltages	12VDC - 24VDC ±10%			
Power rating		19 W (12VDC - 24VDC)	26 W (12VDC - 24VDC)	33 W
Weight		0.125 kg (0.27 lb)	0.300 kg (0.661 lb)	0.434 kg (0.956 lb)

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

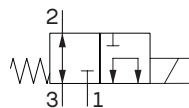
Spool 1



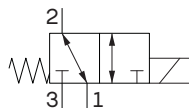
Spool 2



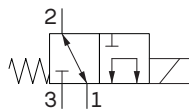
Spool 3 (only EJ08M)



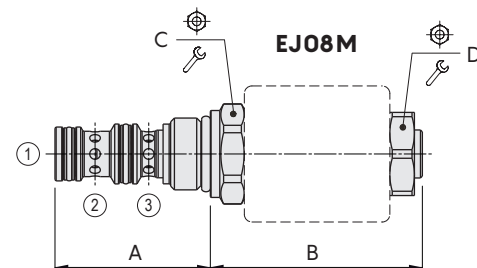
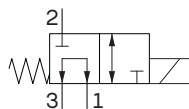
Spool 4



Spool 5



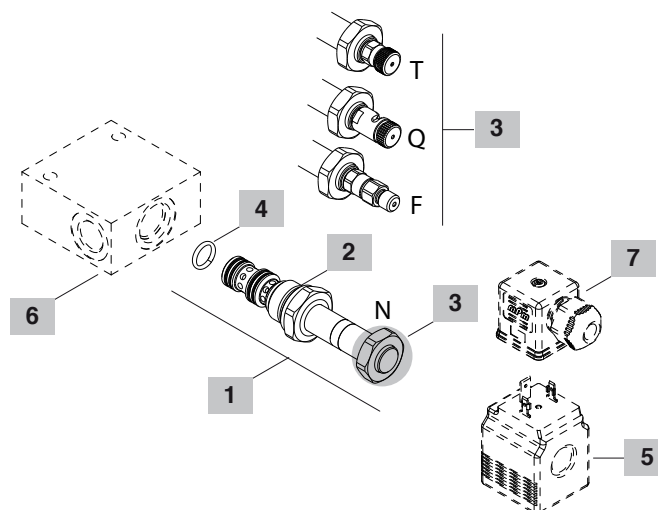
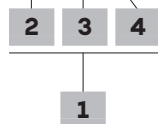
Spool 6



Valve type	A		B N without emergency		C		D	
	mm	in	mm	in	Nm	lbft	Nm	lbft
EJ08M	41.1	1.62	56.1	2.21	24	30	22	5
EJ10M	47	1.85	68	2.68	27	50	37	-
EJ12M	73.5	2.89	85.5	3.37	32	85	63	28

Ordering codes and description composition

EJ08M/ 1 0 N B



1 Cartridges

TYPE	CODE	DESCRIPTION
SAE cavity 08/3		
EJ08M/10NB	0EJ08002030	Without emergency, spool 1
EJ08M/20NB	0EJ08002031	Without emergency, spool 2
EJ08M/30NB	0EJ08002032	Without emergency, spool 3
EJ08M/40NB	0EJ08002033	Without emergency, spool 4
EJ08M/50NB	0EJ08002034	Without emergency, spool 5
SAE cavity 10/3		
EJ10M/10NB	0EJ10002018	Without emergency, spool 1
EJ10M/20NB	0EJ10002019	Without emergency, spool 2
EJ10M/40NB	0EJ10002021	Without emergency, spool 4
EJ10M/50NB	0EJ10002022	Without emergency, spool 5
EJ10M/60NB	0EJ10002023	Without emergency, spool 6
SAE cavity 12/3		
EJ12M/10NB	0EJ12002011	Without emergency, spool 1
EJ12M/20NB	0EJ12002012	Without emergency, spool 2
EJ12M/40NB	0EJ12002013	Without emergency, spool 4
EJ12M/50NB	0EJ12002014	Without emergency, spool 5

2 Spool

TYPE	DESCRIPTION
1	Spool 1
2	Spool 2
3	Spool 3
4	Spool 4
5	Spool 5
6	Spool 6

3 Emergency

TYPE	DESCRIPTION
N	Without emergency
F	Pull button type
Q	Pull type with detent
T	Screw type

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 EJ08M
BC12VDC	4SL8000120	12VDC-ISO4400 coil for EJ10M
BH12VDC	4SLD001200A	12VDC-ISO4400 coil for EJ12M

For complete coils list see page 201

6 Valve body

TYPE	CODE	DESCRIPTION
SAE08/3-SAE8	3CC0830K11	Aluminium body for cavity 08 valve, SAE8 std thread
SAE10/3-SAE8	3CC1030K11	Aluminium body for cavity 10 valve, SAE8 std thread
SAE12/3-SAE10	3CC1230L11	Aluminium body for cavity 12 valve, SAE10 std thread

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

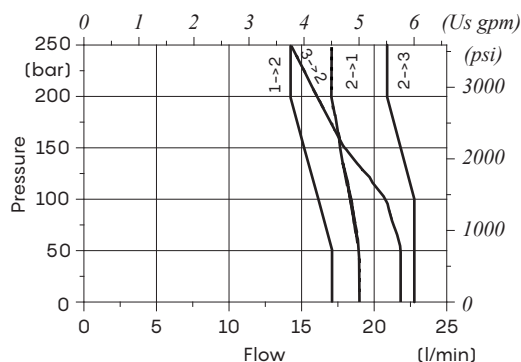
7 Connector

TYPE	CODE	DESCRIPTION
ISO4400	4CN1009995B	Connector

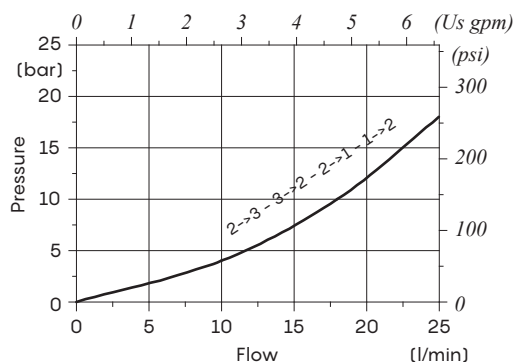
For complete connectors list see from page 201

Rating diagrams

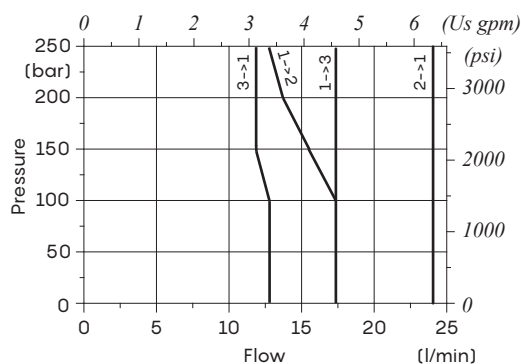
**EJ08M performance limit
spool 1**



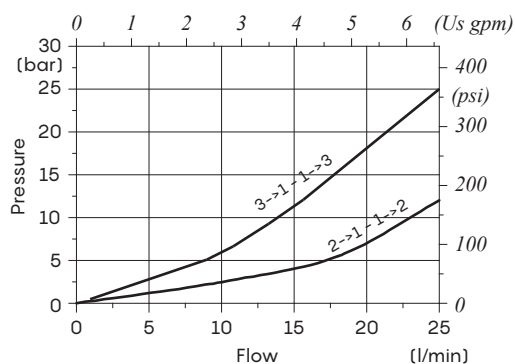
**EJ08M pressure drop vs. flow
spool 1**



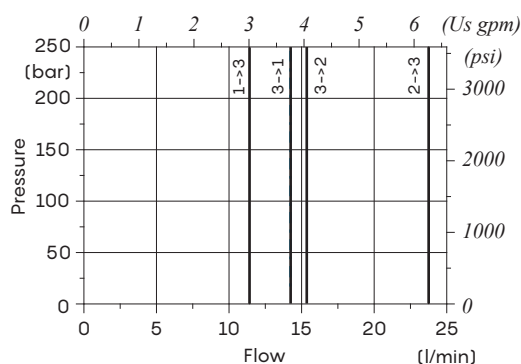
**EJ08M performance limit
spool 2**



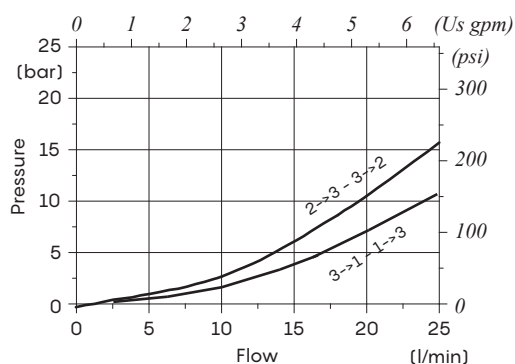
**EJ08M pressure drop vs. flow
spool 2**



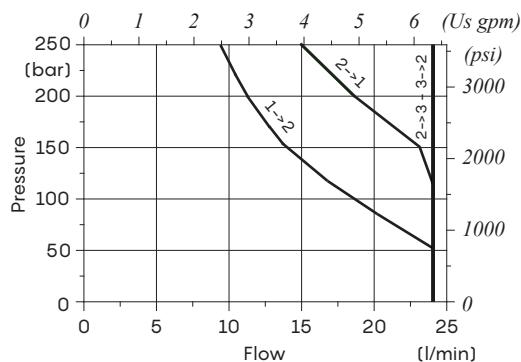
**EJ08M performance limit
spool 3**



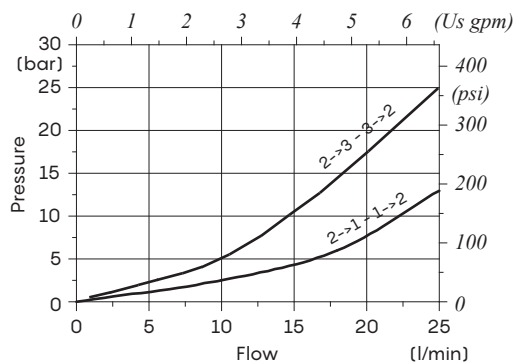
**EJ08M pressure drop vs. flow
spool 3**



**EJ08M performance limit
spool 4**

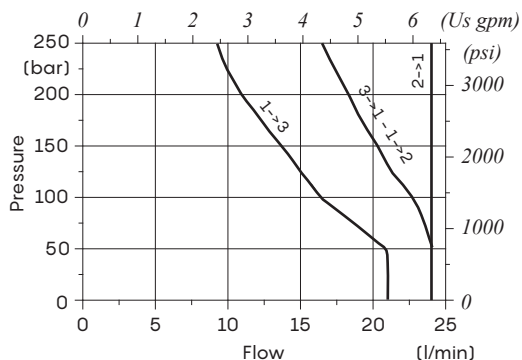


**EJ08M pressure drop vs. flow
spool 4**

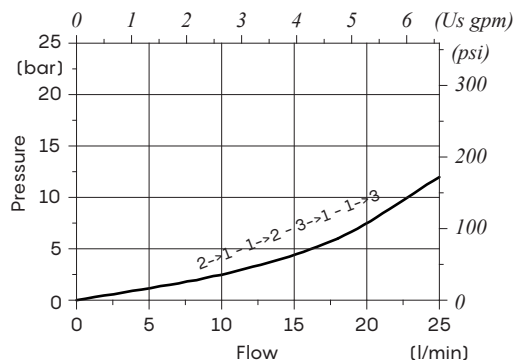


Rating diagrams

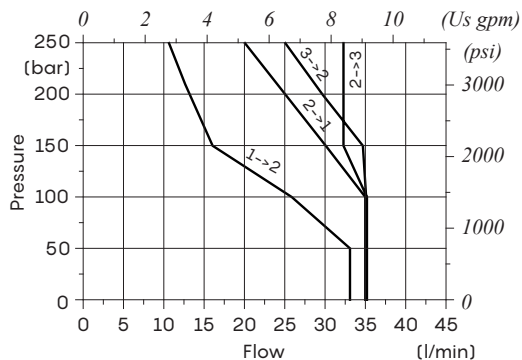
EJ08M performance limit
spool 5



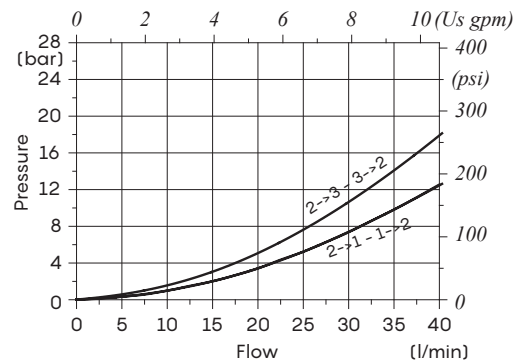
EJ08M pressure drop vs. flow
spool 5



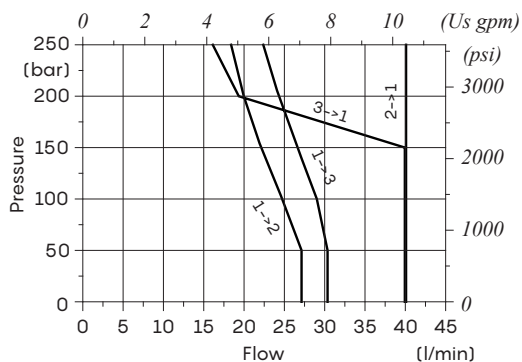
EJ10M performance limit
spool 1



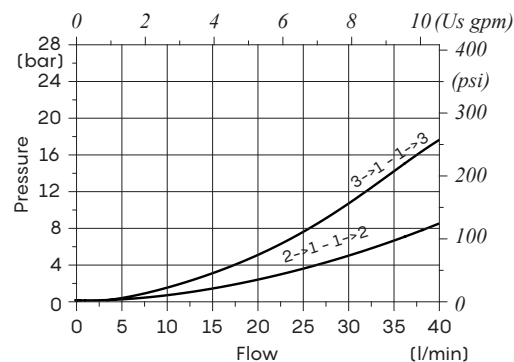
EJ10M pressure drop vs. flow
spool 1



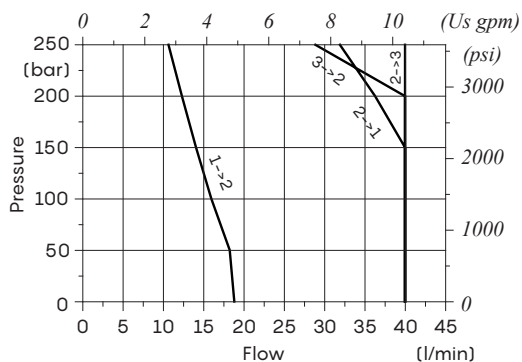
EJ10M performance limit
spool 2



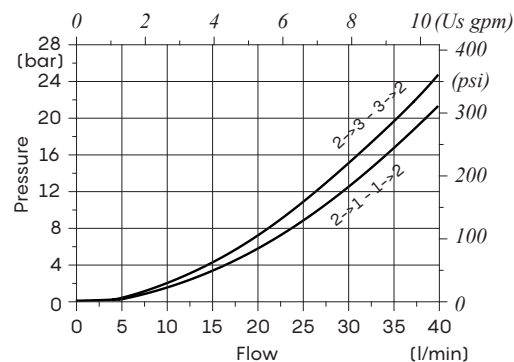
EJ10M pressure drop vs. flow
spool 2



EJ10M performance limit
spool 4

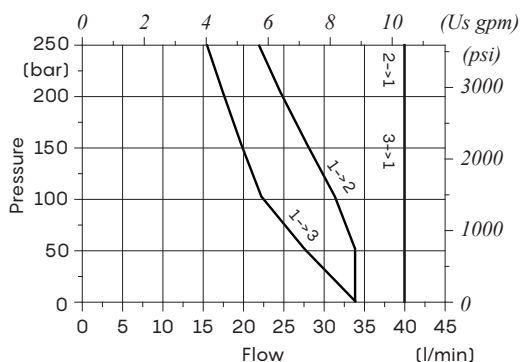


EJ10M pressure drop vs. flow
spool 4

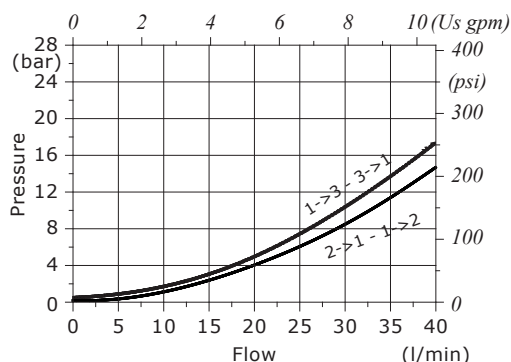


Rating diagrams

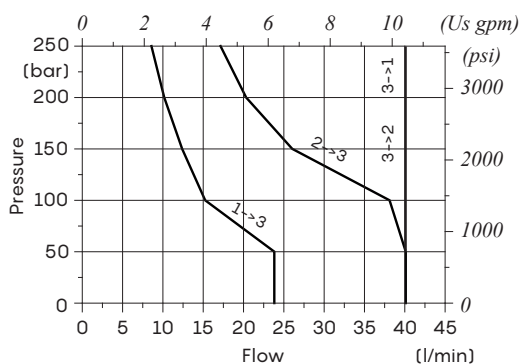
EJ10M performance limit
spool 5



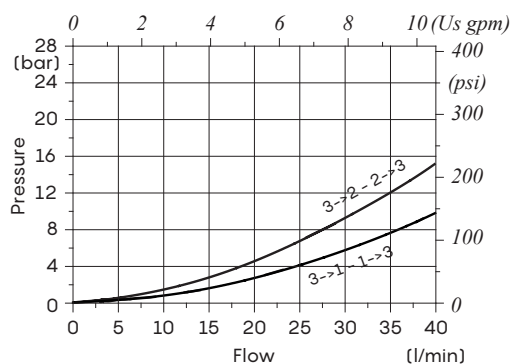
EJ10M pressure drop vs. flow
spool 5



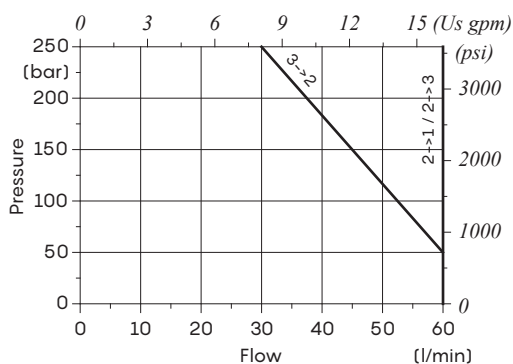
EJ10M performance limit
spool 6



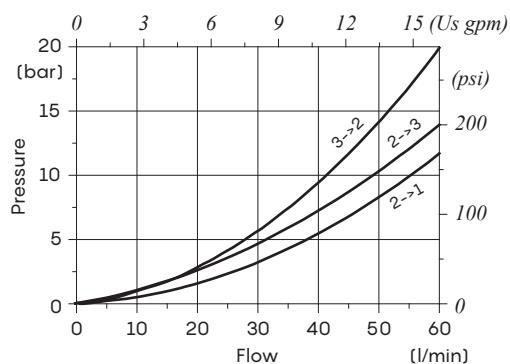
EJ10M pressure drop vs. flow
spool 6



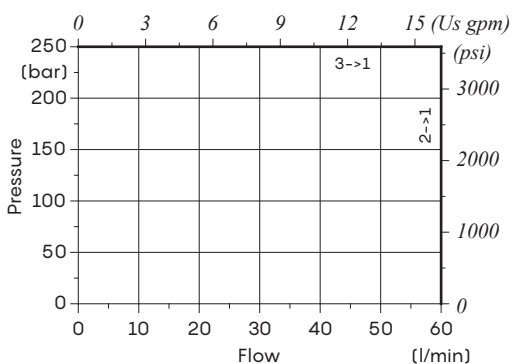
EJ12M performance limit
spool 1



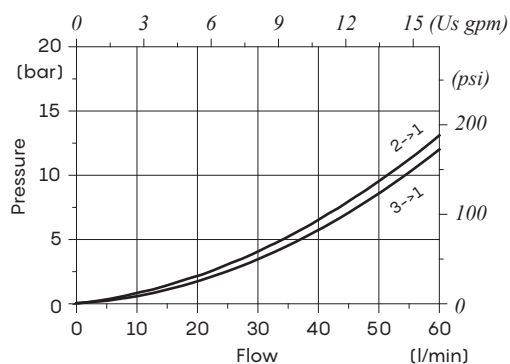
EJ12M pressure drop vs. flow
spool 1



EJ12M performance limit
spool 2



EJ12M pressure drop vs. flow
spool 2



Rating diagrams

