



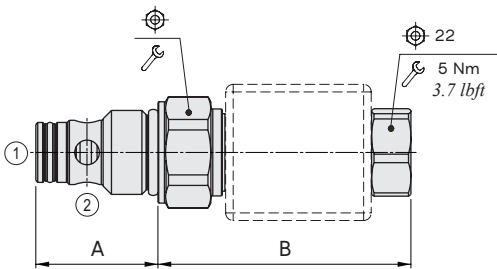
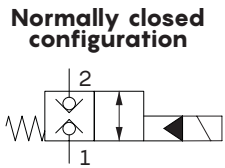
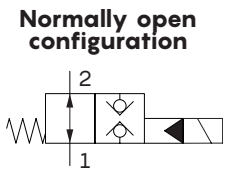
EH..M type
directional solenoid valves – 2 way / 2 positions

- Poppet type
- Piloted acting with on-off solenoid
- With check in both directions
- Normally open and closed configurations
- Different types of emergencies available
- From SAE08 to SAE16 cavities

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

		EH08M	EH10M	EH12M	EH16M
Max. 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)	0.50 cm³/min (0.030 in³/min)		1 cm³/min (0.061 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 08/2	SAE 10/2	SAE 12/2	SAE 16/2
Coil type*		BER			
Nominal voltages		12VDC - 24VDC ±10%			
Power rating		19 W (12VDC - 24VDC)			
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 201.

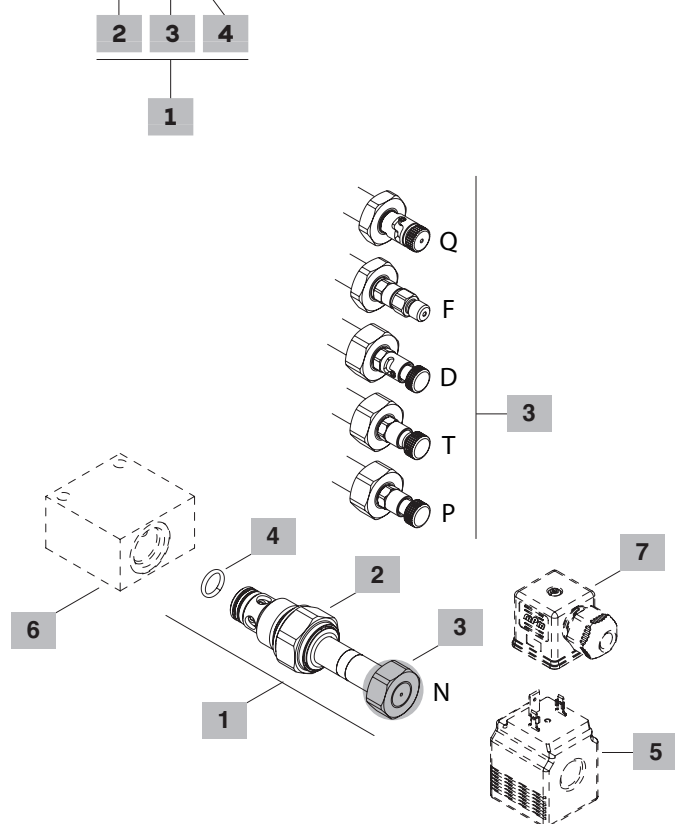


Valve type	A		B		N without emergency		Nm	lbf ft
	mm	in	mm	in	mm	in		
EH10M/1	32.3	1.27	66.9	2.63	27	50	37	

For dimensions with different type of emergency see list page 155

Ordering codes and description composition

EH08M/ 1 0 N B

**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)+Polyurethane o-ring seals, std configuration
V	FPM (Viton) o-ring seals, contact Sales Dept

1 Cartridges

TYPE	CODE	DESCRIPTION
SAE cavity 08/2		
EH08M/10NB	0EH08002000	Normally open (N.O.) without emergency
EH08M/10PB	0EH08002002	(N.O.) push button emergency
EH08M/10TB	0EH08002003	(N.O.) screw type emergency
EH08M/10DB	0EH08002004	(N.O.) push type with detent emergency
EH08M/20NB	0EH08002001	Normally closed (N.C.) without emergency
EH08M/20FB	0EH08002005	(N.C.) pull button emergency
EH08M/20TB	0EH08002006	(N.C.) screw type emergency
EH08M/20QB	0EH08002007	(N.C.) pull type with detent emergency
SAE cavity 10/2		
EH10M/10NB	0EH10002000	Normally open (N.O.) without emergency
EH10M/10PB	0EH10002002	(N.O.) push button emergency
EH10M/10TB	0EH10002003	(N.O.) screw type emergency
EH10M/10DB	0EH10002004	(N.O.) push type with detent emergency
EH10M/20NB	0EH10002001	Normally closed (N.C.) without emergency
EH10M/20FB	0EH10002005	(N.C.) pull button emergency
EH10M/20TB	0EH10002006	(N.C.) screw type emergency
EH10M/20QB	0EH10002007	(N.C.) pull type with detent emergency
SAE cavity 12/2		
EH12M/10NB	0EH12002000	Normally open (N.O.) without emergency
EH12M/10PB	0EH12002002	(N.O.) push button emergency
EH12M/10TB	0EH12002003	(N.O.) screw type emergency
EH12M/10DB	0EH12002004	(N.O.) push type with detent emergency
EH12M/20NB	0EH12002001	Normally closed (N.C.) without emergency
EH12M/20FB	0EH12002005	(N.C.) pull button emergency
EH12M/20TB	0EH12002006	(N.C.) screw type emergency
EH12M/20QB	0EH12002007	(N.C.) pull type with detent emergency
SAE cavity 16/2		
EH16M/10NB	0EH16002000	Normally open (N.O.) without emergency
EH16M/10PB	0EH16002002	(N.O.) push button emergency
EH16M/10TB	0EH16002003	(N.O.) screw type emergency
EH16M/10DB	0EH16002004	(N.O.) push type with detent emergency
EH16M/20NB	0EH16002001	Normally closed (N.C.) without emergency
EH16M/20FB	0EH16002005	(N.C.) pull button emergency
EH16M/20TB	0EH16002006	(N.C.) screw type emergency
EH16M/20QB	0EH16002007	(N.C.) pull type with detent emergency

5 Coil

TYPE	CODE	DESCRIPTION
BER12VDC	4SLE001200A	12VDC-ISO4400 coil

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
SAE12/2-G 1/2	3CC1220D11	Aluminium body for cavity 12 valve, G 1/2 std thread
SAE16/2-G 3/4	3CC1620E11	Aluminium body for cavity 16 valve, G 3/4 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

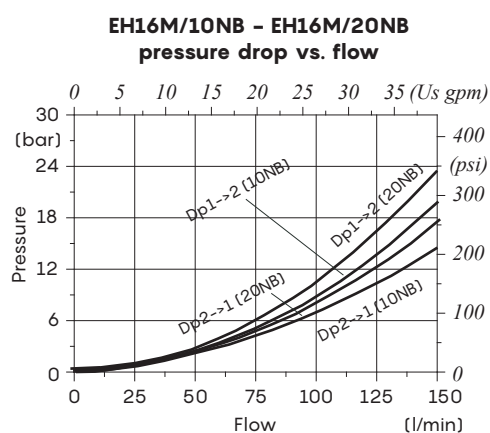
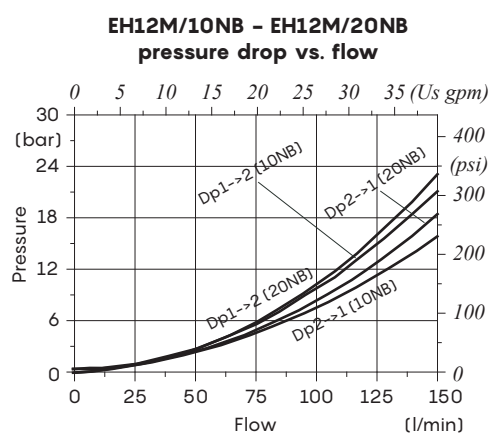
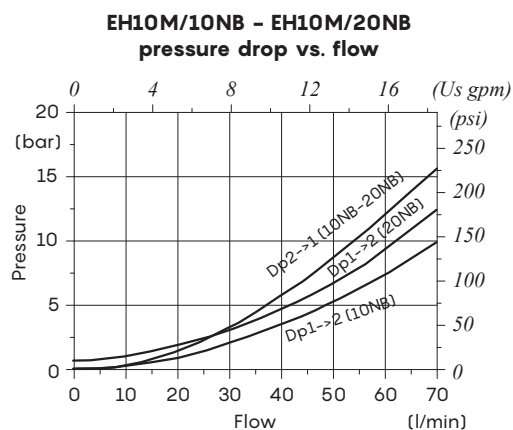
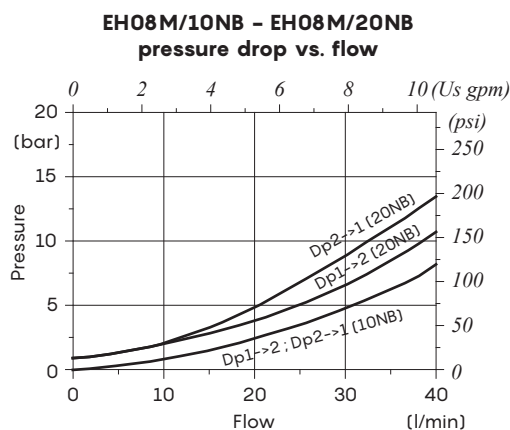
For complete connectors list see from page 201

Directional control valves

Directional solenoid valves - 2 way / 2 positions

EH..M type

Rating diagrams



Types and dimensions

Valve type	A		B														
	mm	in	N without emergency	T screw	P push button	D push type with detent	F pull button	Q pull type with detent									
EH08M/1	28	1.10	67.2	2.64	90.1	3.55	90.1	3.55	92.8	3.65	-	-	-	-	24	30	22
EH08M/2	28	1.10	63.1	2.48	77.8	3.06	-	-	-	-	91.3	3.59	84.4	3.32	24	30	22
EH10M/1	32.3	1.27	66.9	2.63	89.8	3.54	89.8	3.54	92.5	3.64	-	-	-	-	27	50	37
EH10M/2	32.3	1.27	63	2.48	77.5	3.05	-	-	-	-	90.8	3.57	84.1	3.31	27	50	37
EH12M/1	45	1.77	61.3	2.41	84.2	3.31	83.9	3.30	86.8	3.42	-	-	-	-	32	80	59
EH12M/2	45	1.77	57.1	2.25	73.7	2.9	-	-	-	-	85.1	3.35	78	3.07	32	80	59
EH16M/1	46	1.81	61.3	2.41	84	3.31	84.2	3.31	86	3.39	-	-	-	-	38	80	59
EH16M/2	46	1.81	57.1	2.25	71.6	2.82	-	-	-	-	85.3	3.36	78.3	3.08	38	80	59