



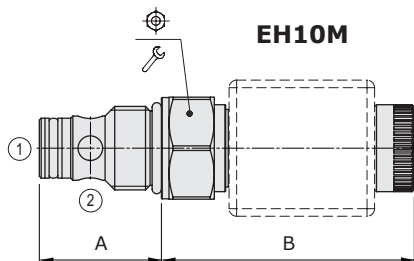
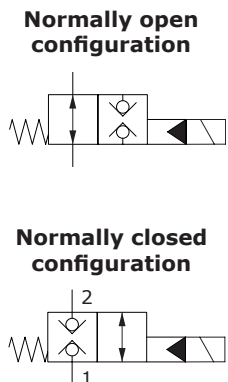
## EH..M type directional solenoid valves - 2 way / 2 positions

- Pilot operated
- Poppet type
- With check in both directions
- 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.

	<b>EH08M</b>	<b>EH10M</b>	<b>EH12M</b>	<b>EH16M</b>
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)	380 bar (5500 psi)	350 bar (5100 psi)	380 bar (5500 psi)
Oil leakage	at 210 bar (3050 psi)	0.50 cm <sup>3</sup> /min (0.030 in <sup>3</sup> /min)	0.50 cm <sup>3</sup> /min (0.030 in <sup>3</sup> /min)	1 cm <sup>3</sup> /min (0.061 in <sup>3</sup> /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	22.8 W (12 VDC) - 22.5 W (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)

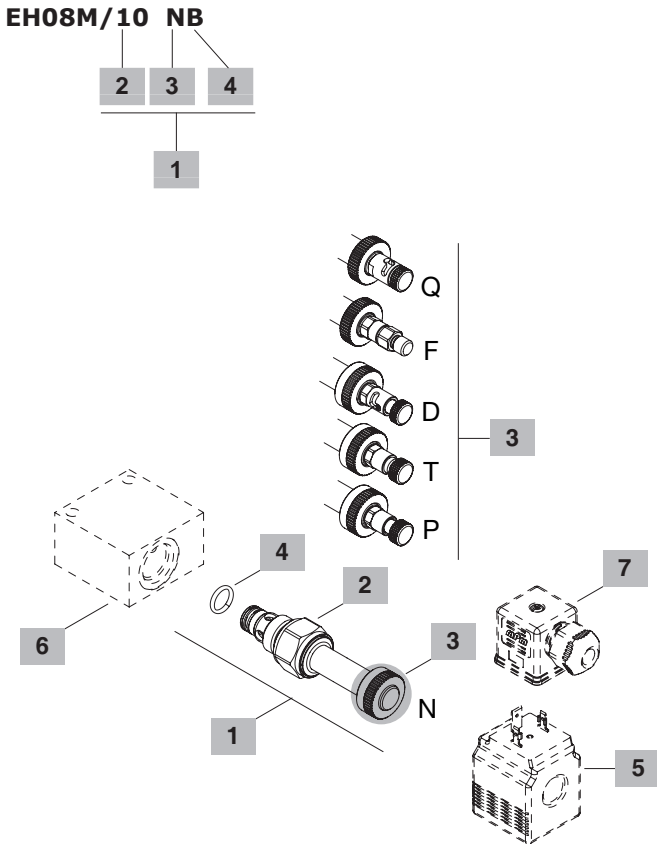
NOTE - For different conditions, please contact Walvoil Sales Dpt. - \*For coils further features see from page 206.



Valve type	A		B				Nm	lbft
	mm	in	mm	in				
EH08M/	10NB	28	1.10	67.2	2.64	24	30	22
	20NB	28	1.10	63.3	2.49	24	30	22
EH10M/	10NB	32.3	1.27	66.9	2.63	27	50	37
	20NB	32.3	1.27	63	2.48	27	50	37
EH12M/	10NB	45	1.77	61.1	2.40	32	80	59
	20NB	45	1.77	57.2	2.25	32	80	59
EH16M/	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



#### 2 Spool

TYPE	DESCRIPTION
<b>1</b>	Normally open configuration
<b>2</b>	Normally closed configuration

#### 3 Emergency

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

#### 4 Seals

TYPE	DESCRIPTION
<b>B</b>	<b>NBR (Buna)</b> o-ring seals, std configuration
<b>V</b>	<b>FPM (Viton)</b> o-ring seals, contact Sales Dept.

#### 1 Cartucce

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

#### 5 Coils

TYPE	CODE	DESCRIPTION
<b>BER 12VDC</b>	4SLE001200	12VDC-ISO4400 coil

For complete coils list see from page 206

#### 6 Valve body

TYPE	CODE	DESCRIPTION
<b>SAE 08/2-G 3/8</b>	3CC0820C11	Aluminium body for cavity 08 valve, G 3/8 std thread
<b>SAE 10/2-G 3/8</b>	3CC1020C11	Aluminium body for cavity 10 valve, G 3/8 std thread
<b>SAE 12/2-G 1/2</b>	3CC1220D11	Aluminium body for cavity 12 valve, G 1/2 std thread
<b>SAE 16/2-G 3/4</b>	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 215

#### 7 Connector

TYPE	CODE	DESCRIPTION
<b>ISO4400</b>	4CN1009995	Connector

For complete connectors list see from page 206

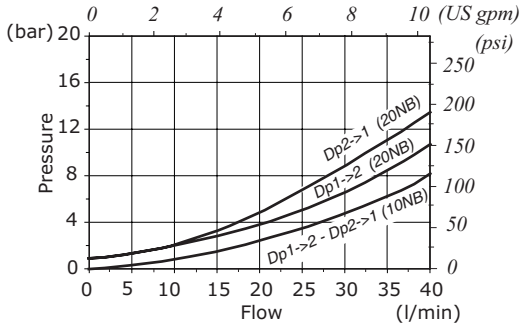
# Directional control valves

Directional solenoid valves - 2 way / 2 positions

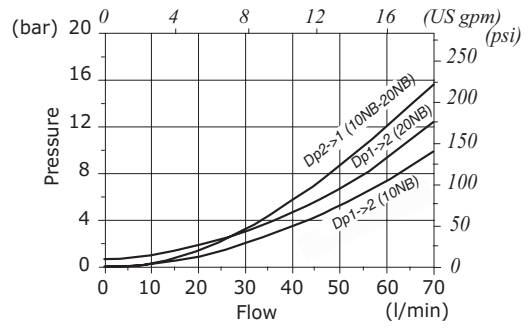
**EH..M type**

## Rating diagrams

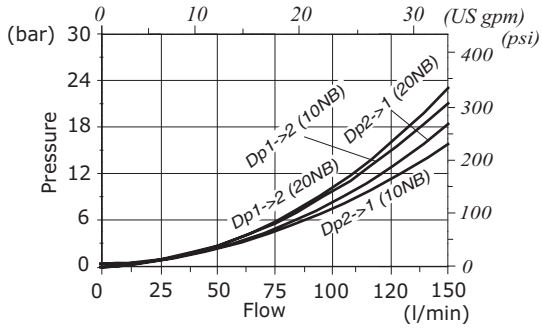
**EH08M/10NB - EH08M/20NB**  
pressure drop vs. flow



**EH10M/10NB - EH10M/20NB**  
pressure drop vs. flow



**EH12M/10NB - EH12M/20NB**  
pressure drop vs. flow



**EH16M/10NB - EH16M/20NB**  
pressure drop vs. flow

