



ET..X type directional solenoid valves – 4 way/3 positions

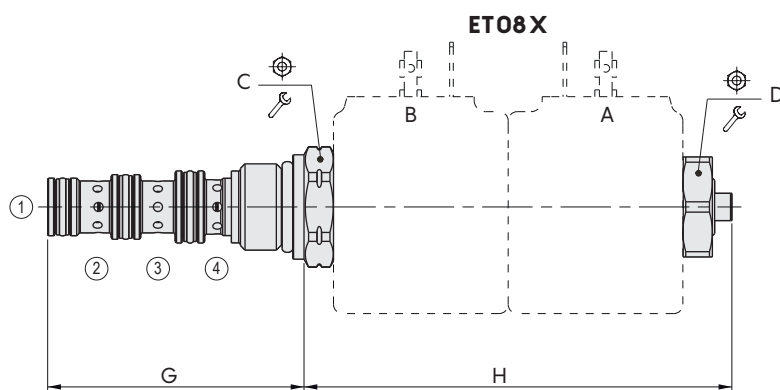
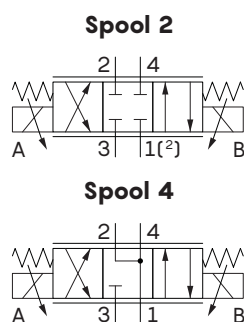
- Spool type
- Direct acting with proportional solenoid
- Different types of emergencies available
- Optimized linearity and hysteresis
- External zinc-plated and corrosion-proof components
- From SAE08 to SAE10 cavities

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

	ET08X	ET10X
Nominal flow	12 l/min (3.17 US gpm)	23 l/min (6.1 US gpm)
Max. pressure	250 bar (3600 psi)	
Oil leakage	at 210 bar (5100 psi) 80 cm ³ /min (4.88 in ³ /min)	200 cm ³ /min (12.20 in ³ /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 08/4	SAE 10/4
Coil type*	BER	BC
Nominal voltages	12VDC – 24VDC ± 10%	
Power rating	19 W (12VDC – 24VDC)	26 W (12VDC – 24VDC)
Weight	0.638 kg (1.41 lb)	0.720 kg (1.59 lb)

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

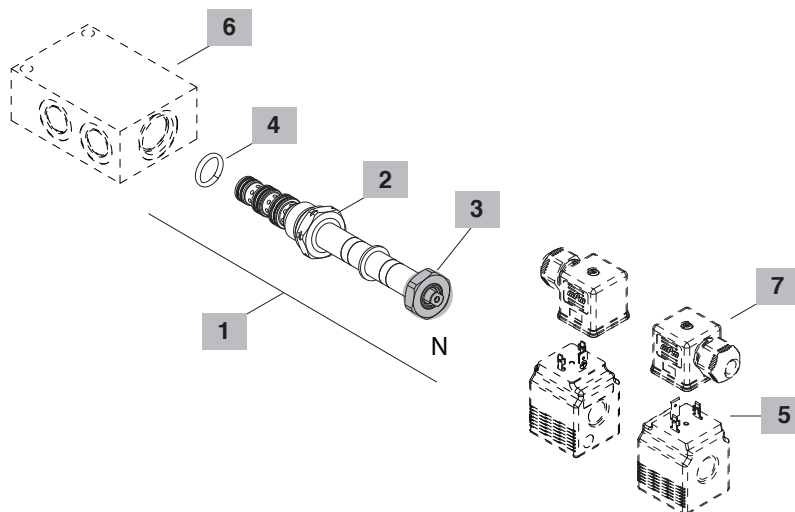
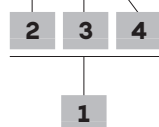
– (²) Port 1 may be fully pressurized, it's not intended for use as the valve's inlet.



Valve type	G		H N without emergency		C		D	
	mm	in	mm	in	Nm	lbf·ft	Nm	lbf·ft
ET08X	54	2.13	96.8	3.81	24	30	22	5±1 3.7
ET10X	62.4	2.46	117.8	4.64	27	50	37	23 5±1 3.7

Ordering codes and description composition

ET08X/ 2 0 N B



1 Cartridges

TYPE	CODE	DESCRIPTION
SAE cavity 08/4		
ET08X/20NB	OET08002035	Without emergency, spool 2
ET08X/40NB	OET08002036	Without emergency, spool 4
SAE cavity 10/4		
ET10X/20NB	OET10002058	Without emergency, spool 2
ET10X/40NB	OET10002059	Without emergency, spool 4

2 Spool

TYPE	DESCRIPTION
2	Spool 2
4	Spool 4

3 Emergency

TYPE	DESCRIPTION
N	Without emergency

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 ET08X
BC12VDC	4SL8000120	12VDC-ISO4400 coil for ET10X

For complete coils list see page 201

6 Valve body

TYPE	CODE	DESCRIPTION
SAE08/4-G 3/8	3CC0840C11	Aluminium body for cavity 08 valve, G 3/8 std thread
SAE10/4-G 3/8	3CC1040C11	Aluminium body for cavity 10 valve, G 3/8 std thread

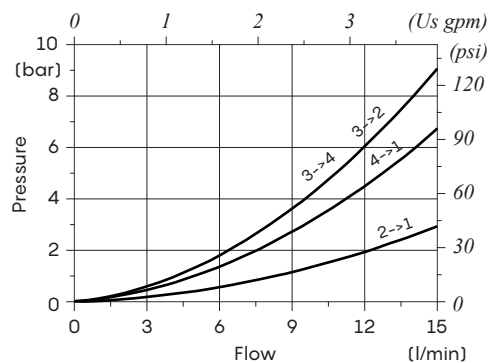
Note: aluminium body can stand up to 210 bar (3050 psi)
For steel bodies or different threading see from page 212

7 Connector

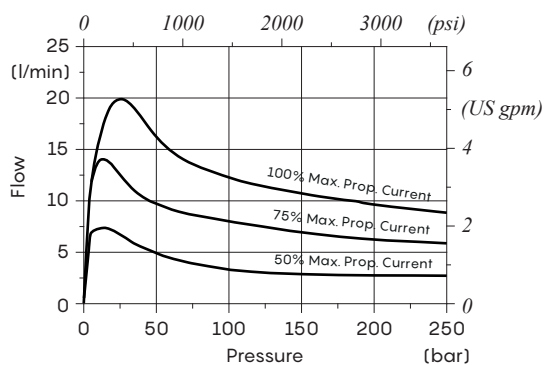
TYPE	CODE	DESCRIPTION
ISO4400	4CN1009995B	Connector

For complete connectors list see from page 201

ET08X pressure drop vs. flow
spool 2

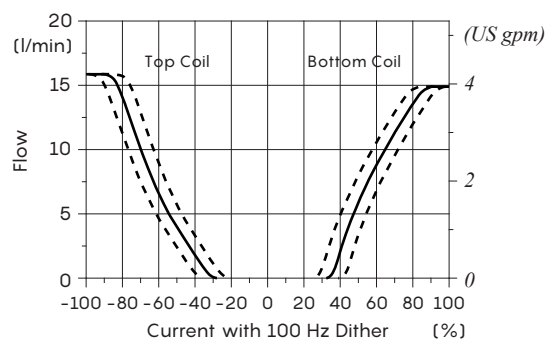


Pressure compensation
(inlet to work port - spool 2)

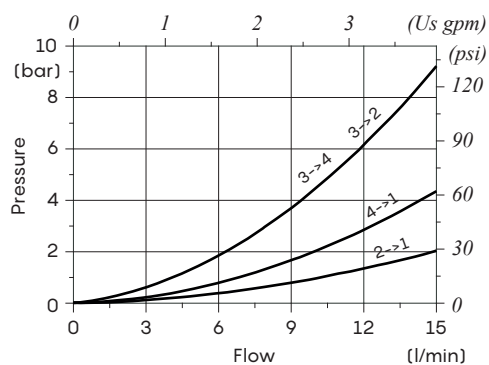


Flow vs. current

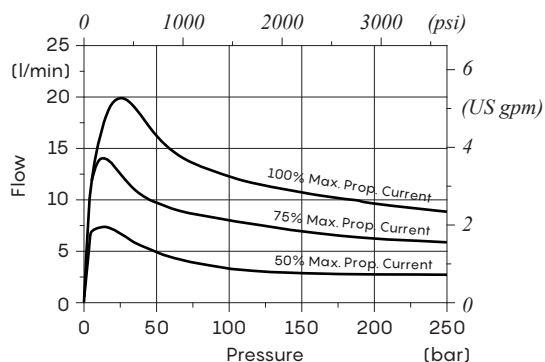
(with 10.5 bar/152 psi inline compensator- spool 2)



ET08X pressure drop vs. flow
spool 4

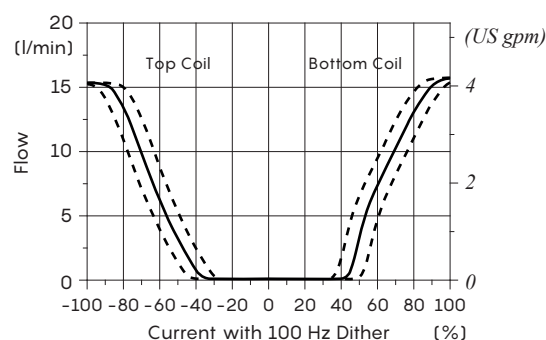


Pressure compensation
(inlet to work port - spool 4)

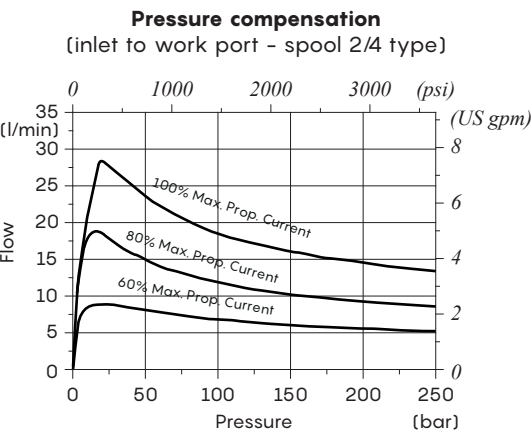
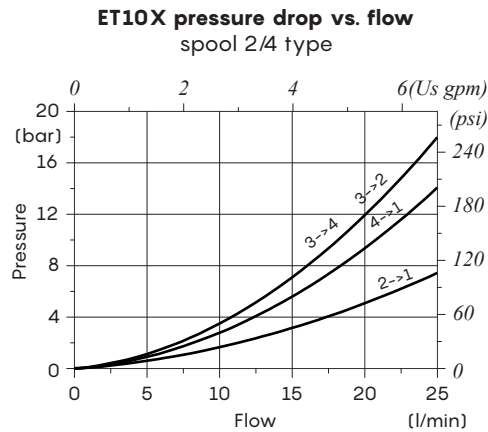


Flow vs. current

(with 10.5 bar/152 psi inline compensator- spool 4)



Rating diagrams



Flow vs. current
(with 10.5 bar/152 psi inline compensator- spool 2/4 type)

