



ER..L type directional solenoid valves – 4 way/2 positions

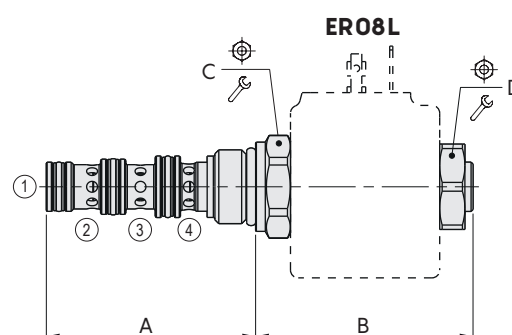
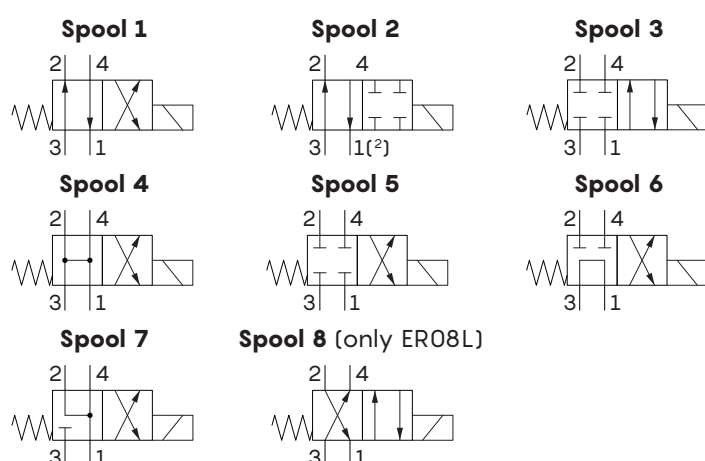
- Spool type
- Direct acting with on-off solenoid
- Different types of emergencies available
- External zinc-plated and corrosion-proof components
- Low pressure drop
- From SAE08 to SAE10 cavities

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

	ER08L	ER10L
Nominal flow	20 l/min (5.3 US gpm)	40 l/min (10.6 US gpm)
Max. pressure	250 bar (3600 psi)	
Oil leakage	at 210 bar (5100 psi) 40 cm ³ /min (2.44 in ³ /min)	80 cm ³ /min (4.88 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	0.372 kg (0.82 lb)	0.432 kg (0.95 lb)

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

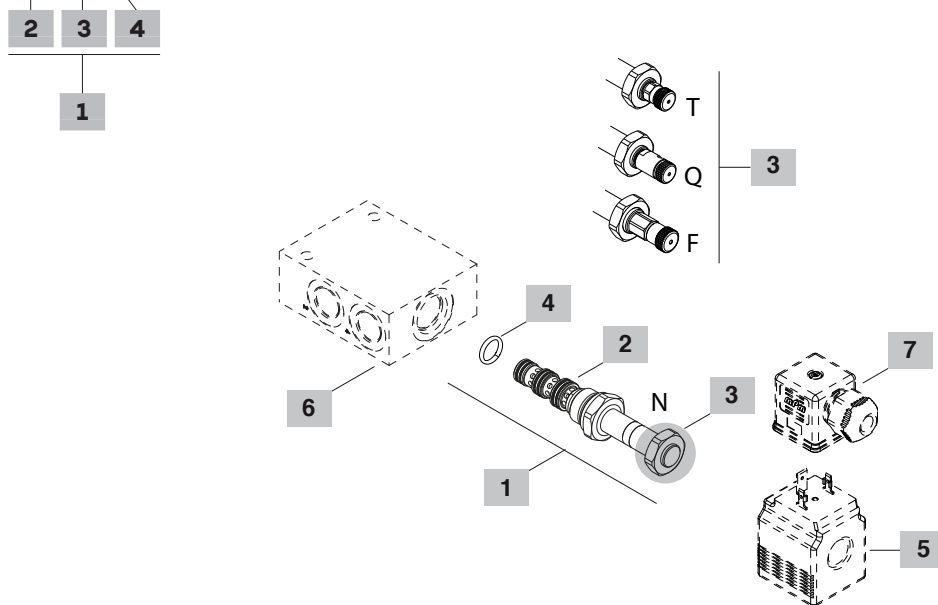
– (²) Port 1 may be fully pressurized, it's not intended for use as the valve's inlet.



Valve type	A		B								C		D	
			N without emergency		T screw type		F pull button		Q pull type with detent					
	mm	in	mm	in	mm	in	mm	in	mm	in	Nm	lbft	Nm	lbft
ER08L	54	2.13	56.1	2.21	71.1	2.8	84	3.31	77.2	3.04	24	30	22	5±1 3.7
ER10L	62.4	2.46	68	2.68	82.5	3.25	95.2	3.75	88.5	3.48	27	50	37	23 5±1 3.7

Ordering codes and description composition

ER08L/ 1 0 N B



1 Cartridges

TYPE	CODE	DESCRIPTION
<u>SAE cavity 08/4</u>		
ER08L/10NB	0ER08002036	Without emergency, spool 1
ER08L/20NB	0ER08002042	Without emergency, spool 2
ER08L/30NB	0ER08002043	Without emergency, spool 3
ER08L/40NB	0ER08002044	Without emergency, spool 4
ER08L/50NB	0ER08002039	Without emergency, spool 5
ER08L/60NB	0ER08002045	Without emergency, spool 6
ER08L/70NB	0ER08002046	Without emergency, spool 7
ER08L/80NB	0ER08002047	Without emergency, spool 8
ER08L/70QB	0ER08002041	Pull type with detent, spool 7
<u>SAE cavity 10/4</u>		
ER10L/10NB	0ER10002040	Without emergency, spool 1
ER10L/20NB	0ER10002047	Without emergency, spool 2
ER10L/30NB	0ER10002048	Without emergency, spool 3
ER10L/40NB	0ER10002044	Without emergency, spool 4
ER10L/50NB	0ER10002045	Without emergency, spool 5
ER10L/60NB	0ER10002042	Without emergency, spool 6
ER10L/70NB	0ER10002046	Without emergency, spool 7

2 Spool

TYPE	DESCRIPTION
1	Spool 1
2	Spool 2
3	Spool 3
4	Spool 4
5	Spool 5
6	Spool 6
7	Spool 7
8	Spool 8

3 Emergency

TYPE	DESCRIPTION
N	Without emergency
F	Pull screw button
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 ER08L
BC12VDC	4SL8000120	12VDC-ISO4400 coil for ER10L

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 1/2	3CC1040D11	Aluminium body for cavity 10 valve, G 3/8 std thread

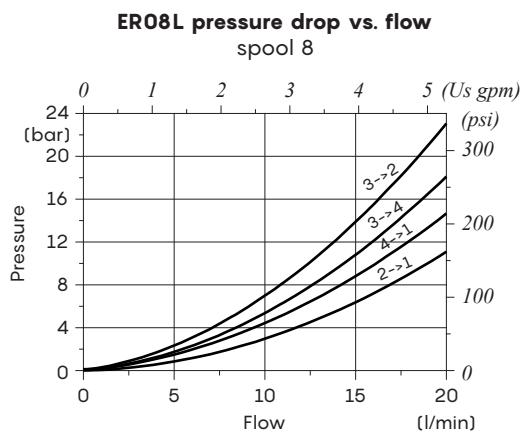
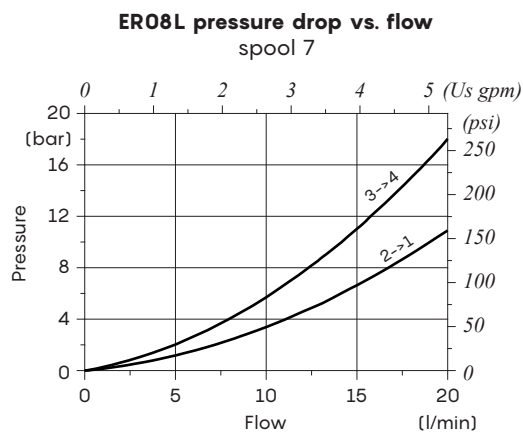
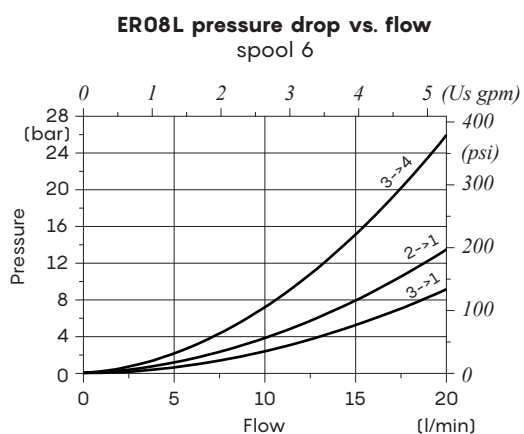
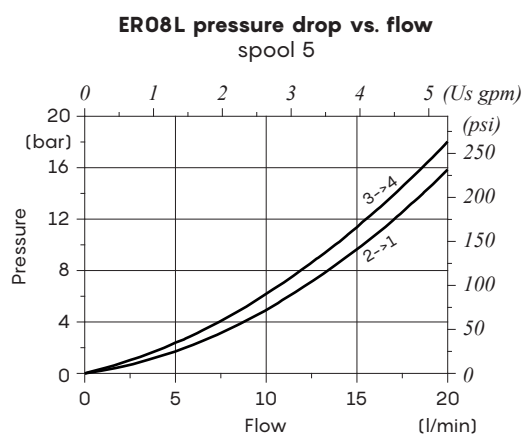
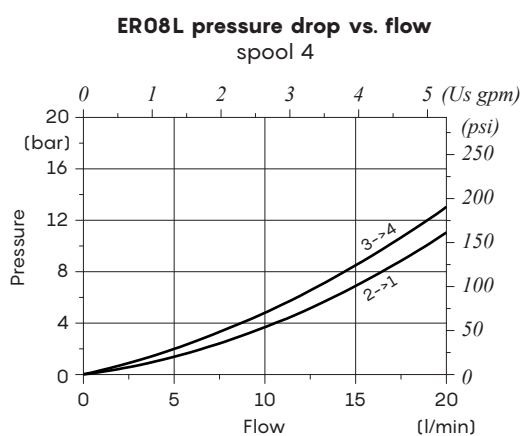
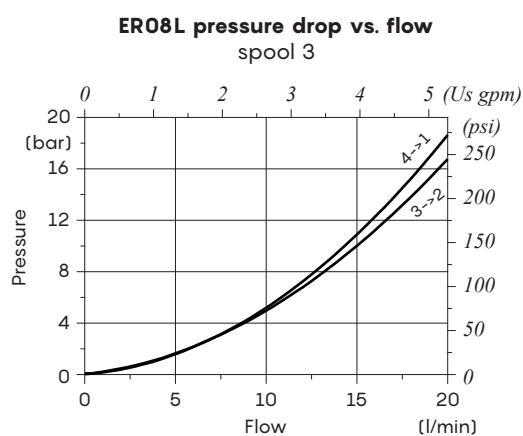
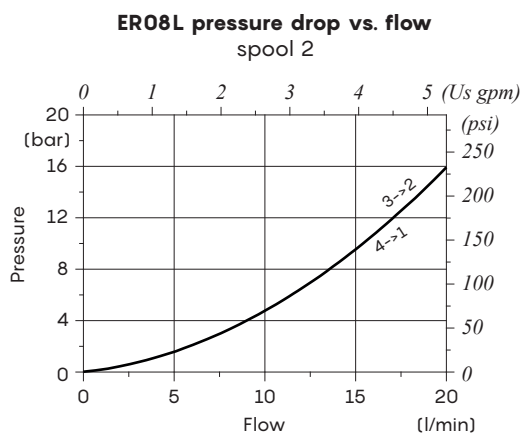
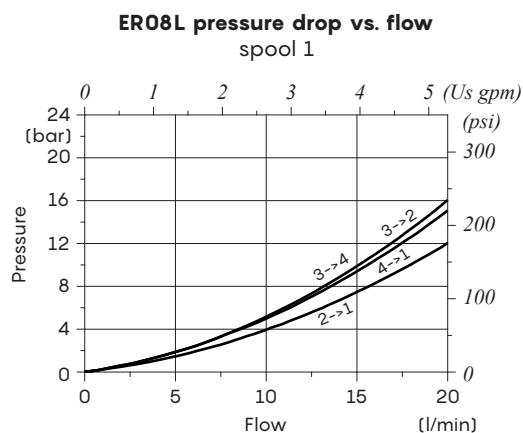
Note: aluminium body can stand up to 210 bar (3050 psi)
For steel bodies or different threading see from page 212

7 Connector

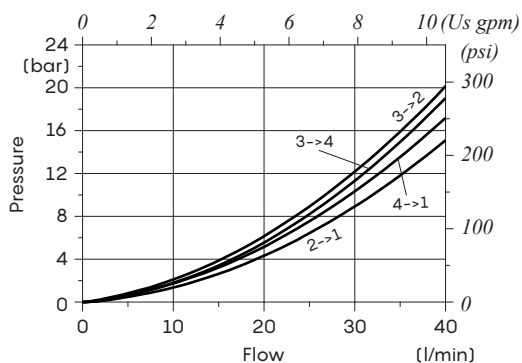
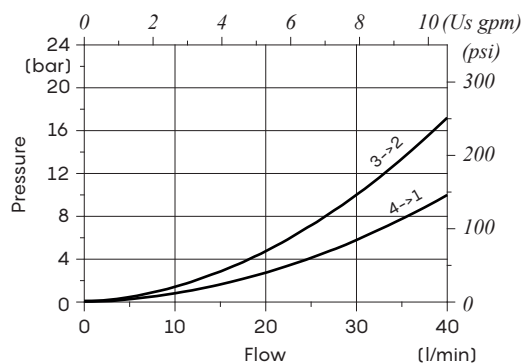
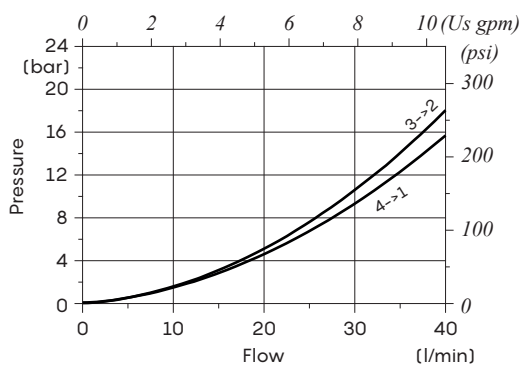
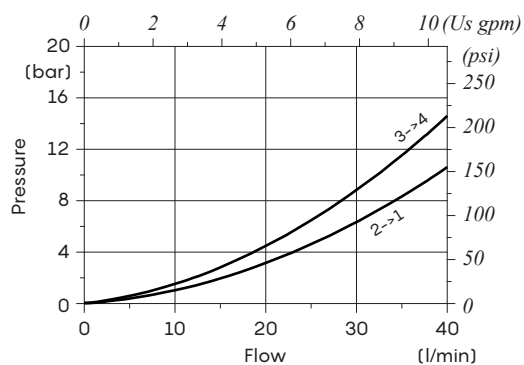
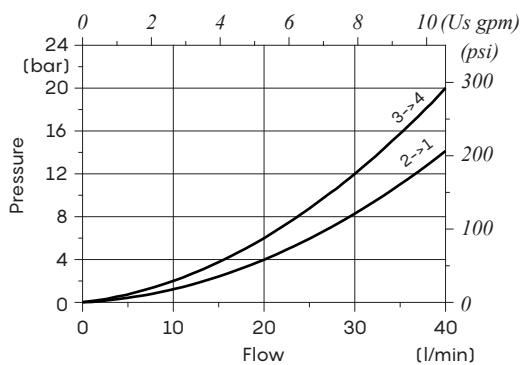
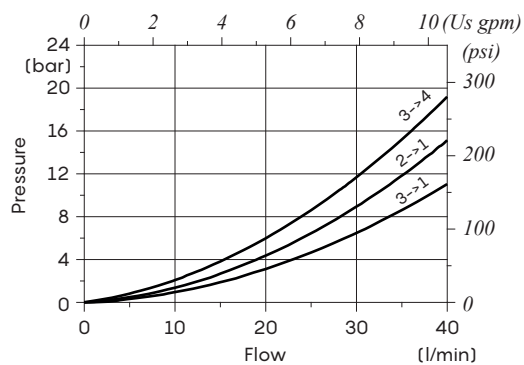
TYPE	CODE	DESCRIPTION
ISO4400	4CN1009995B	Connector

For complete connectors list see from page 201

Rating diagrams



Rating diagrams

ER10L pressure drop vs. flow
spool 1ER10L pressure drop vs. flow
spool 2ER10L pressure drop vs. flow
spool 3ER10L pressure drop vs. flow
spool 4ER10L pressure drop vs. flow
spool 5ER10L pressure drop vs. flow
spool 6ER10L pressure drop vs. flow
spool 7