



EK10X type directional solenoid valves – 5 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

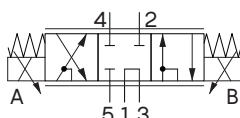
Technical specifications and diagrams are measured with mineral oil of 46 cSt viscosity at 40°C (104°F) temperature.

EK10X

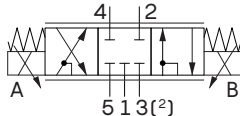
Nominal flow		23 l/min (6.1 US gpm)
Max. pressure		250 bar (3600 psi)
Oil leakage	at 210 bar (3050 psi)	200 cm ³ /min (12.2 in ³ /min)
Fluid		mineral based or synthetic hydraulic fluid with lubricating properties
Viscosity		10–200 cSt
Max level of contamination		18/16/13 ISO4406
Fluid temperature	with 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 10/5
Coil type*		BC
Nominal voltages		12VDC – 24 VDC ± 10%
Power rating		26 W (12VDC – 24VDC)
Weight		0.736 kg (1.62 lb)

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

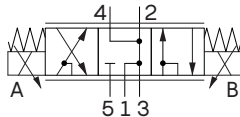
Spool 21



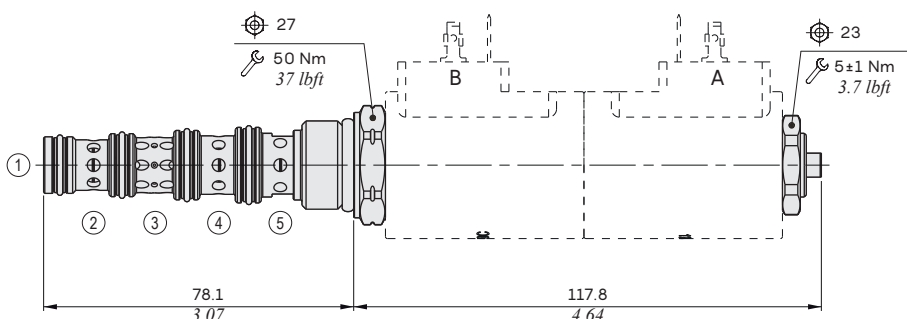
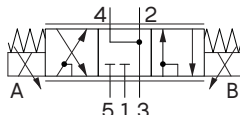
Spool 22



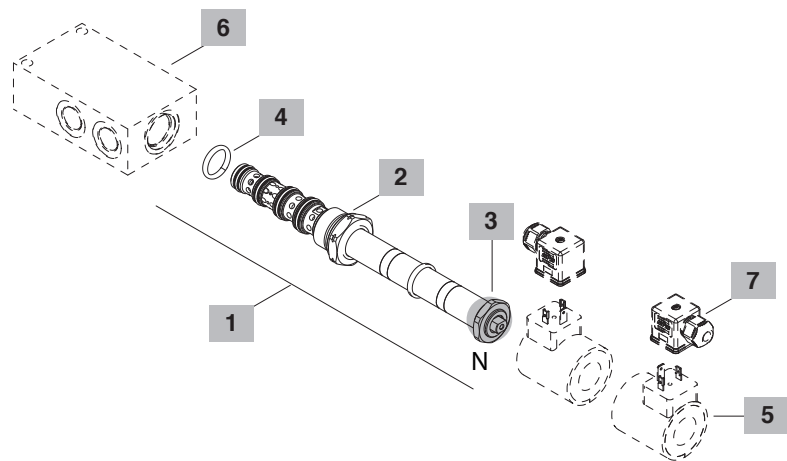
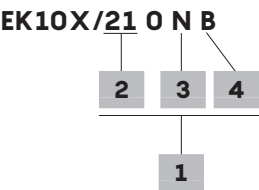
Spool 41



Spool 42



Ordering codes and description composition



1 Cartridges		
TYPE	CODE	DESCRIPTION
SAE cavity 10/5		
EK10X/210NB	OEK10002017	Without emergency, spool 21
EK10X/220NB	OEK10002015	Without emergency, spool 22
EK10X/410NB	OEK10002014	Without emergency, spool 41
EK10X/420NB	OEK10002002	Without emergency, spool 42

2 Spool	
TYPE	DESCRIPTION
21	Spool 21
22	Spool 22
41	Spool 41
42	Spool 42

3 Emergency	
TYPE	DESCRIPTION
N	Without emergency

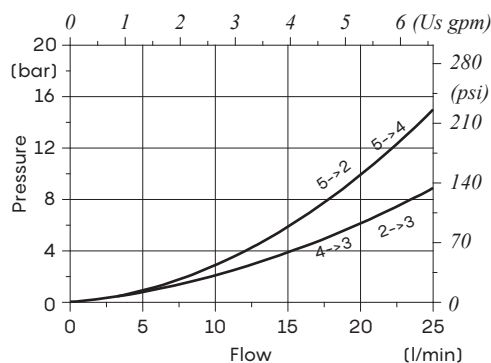
4 Seals	
TYPE	DESCRIPTION
B	NBR (Buna)+Polyurethane o-ring seals, std configuration
V	FPM (Viton) o-ring seals, contact Sales Dept

5 Coils		
TYPE	CODE	DESCRIPTION
BC12VDC	4SL8000120	12VDC-ISO4400 coil
For complete coils list see page 201		

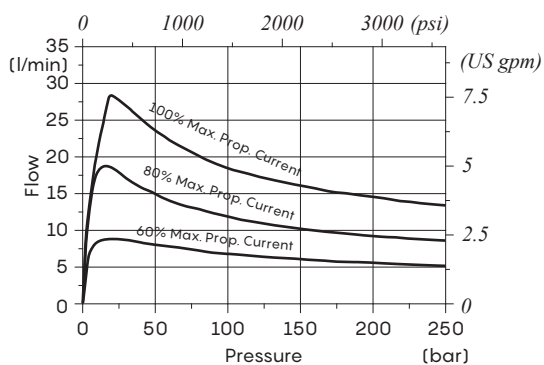
6 Valve body		
TYPE	CODE	DESCRIPTION
SAE10/5-G 3/8	3CC1050C11	Aluminium body for cavity 10 valve, G 3/8 std thread
Note: aluminium body can stand up to 210 bar (3050 psi)		
For steel bodies or different threading see from page 214		

7 Connector		
TYPE	CODE	DESCRIPTION
ISO4400	4CN1009995B	Connector
For complete connectors list see from page 201		

EK10X pressure drop vs. flow
spool 22

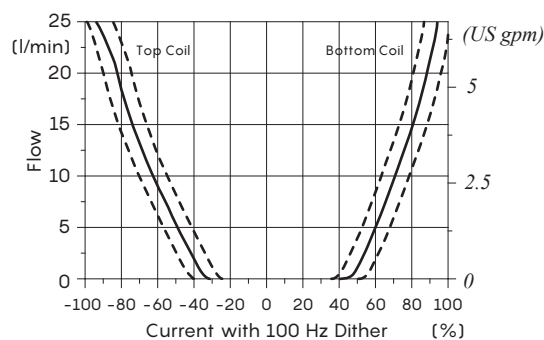


Pressure compensation
(inlet to work port - spool 22)

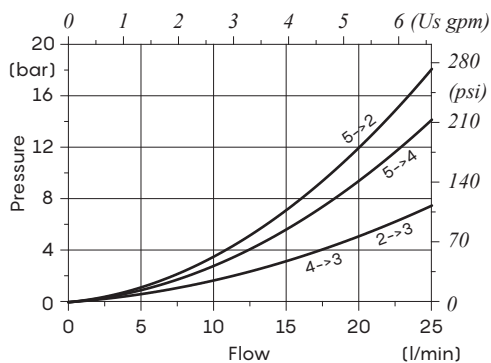


Flow vs. current

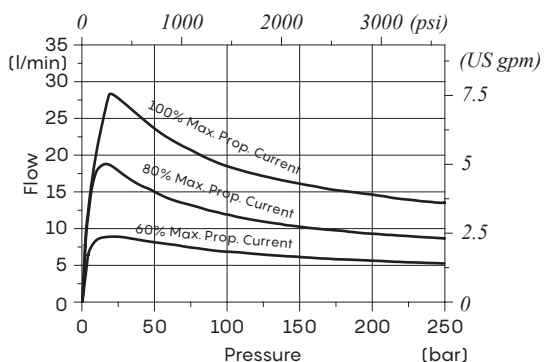
(with 10.5 bar/152 psi inline compensator- spool 22)



EK10X pressure drop vs. flow
spool 21-41-42



Pressure compensation
(inlet to work port - spool 21-41-42)



Flow vs. current

(with 10.5 bar/152 psi inline compensator- spool 21-41-42)

