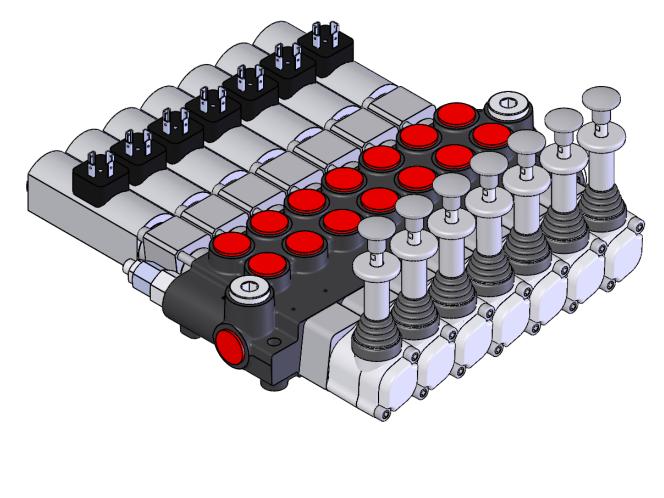


Monoblock directional control valve - double solenoid control



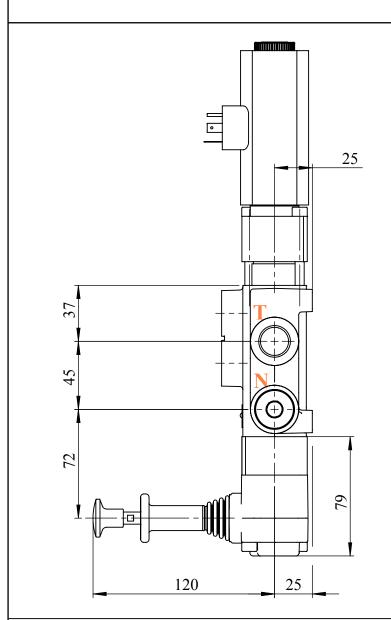
Model Z50A1ESD

Z50A1ESD is the new generation of our monoblock directional control valves - solenoid operated Z50ES and also offers perfect choice whether you are designing a new system or just simply trying to get more out of your current system. With two special spools and option of having 7 spool valve body configuration these valves can meet the specific needs of your application. Its new feature is that the control is achieved by double solenoid with spring return to neutral position, available with emergency manual override. Due to it's relation to the eariler Z50ES the bodies are interchangeble requiring only spool seals change.

Standard features

- Hydraulically balanced, hard chrome plated spool
- Fitted with main pressure relief valve and a load check valve
- Lever system which can be installed both up and down
- Flow capacity of 50 l/min
- In neutral position both work ports are blocked and the pump unloads to tank

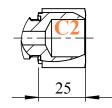
Max. flow		50 1/min	13.2 gpm
Operating pressure	at port P	250 bar	3600 psi
(max.)	at work ports A and B	300 bar	4300 psi
Back pressure (max.)	outlet port T	20 bar	150 psi
Internal leakage (standard) A(B)> T	p = 100 bar	$18 \text{ cm}^3 / \text{min}$	1,1 in ³ /min
Fluid		Mineral base oil	
Fluid temperature	with NRB (BUNA-N) seals	from -20°C to 80°C	from -4°F to 176°F
Viscosity	operating range	from 15 to 75 mm^2/s	from 15 to 75cSt
	min.	$12 \text{ mm}^2/\text{s}$	12 cSt
	max.	$400 \text{ mm}^2/\text{s}$	400 cSt
Max. contamination		-/19/16 – ISO	NAS 1638-class
level		4406	10
Ambient temperature for working conditions		from -40°C to 60°C	from -40°F to 140°F
Spool stroke		3,2 mm	0,12 in
Actuating force		<100 N	<25 lbs

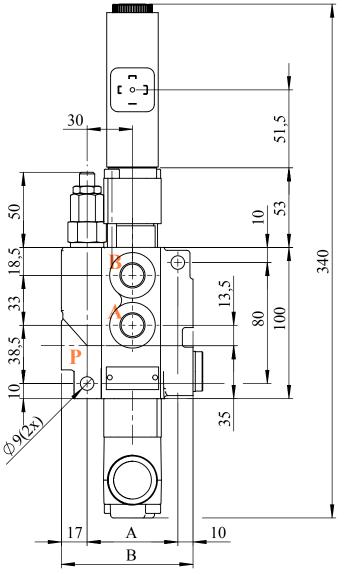


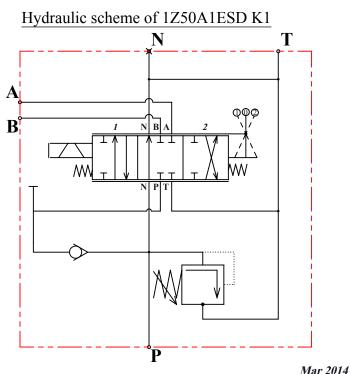
	A	В
Z50 A1ESD	60	85
02Z50 A1ESD	97	129
03Z50 A1ESD	132	164
04Z50 A1ESD	167	199
05Z50 A1ESD	202	234
06Z50 A1ESD	237	269
07Z50 A1ESD	272	304

*Spool to spool distance - 35 mm

Possible placement of a carry-over at N







Description example: Z50 / A / 1ESD K1 / G1/2-24VDC		
5 Solenoid (12 VDC or 24 VDC)		
Thread type (G1, G2, S, M1, M2)		
4 Lever system (Options - "K1" or "-" (endcap))		
3 Connection kit with spring return in neutral position		
2 Spool type (Spool options - "A" or "D")		
1 Valve body (1 to 7 sections)		
Availabe threads for that valve:		
BSP (order code G1/2) Working ports A, B: G 1/2METRIC (order code M) Working ports A, B: M18x1.5UN-UNF (order code S) Working ports A, B: 3/4-16UNFInlet port P:G 1/2Inlet port P:M22x1.5Inlet port P:Outlet port T:G 1/2Outlet port T:M22x1.5Inlet port P:7/8-14UNFPort N:G 1/2Port N:M22x1.5Port N:7/8-14UNF		
BSP (order code G)Working ports A, B:G 3/8Inlet port P:G 1/2Outlet port T:G 1/2Port N:G 1/2		

Γ

