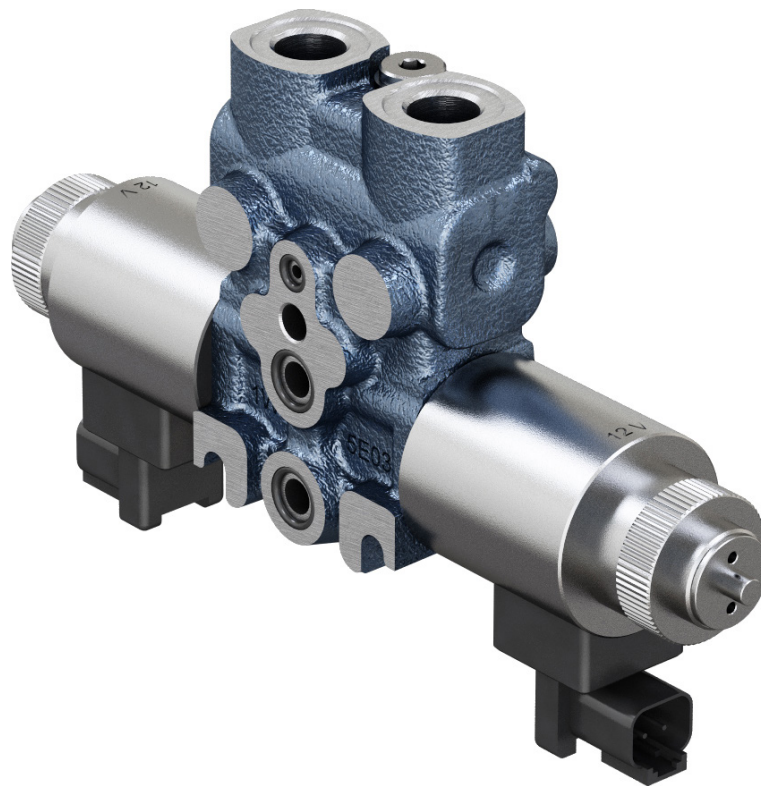
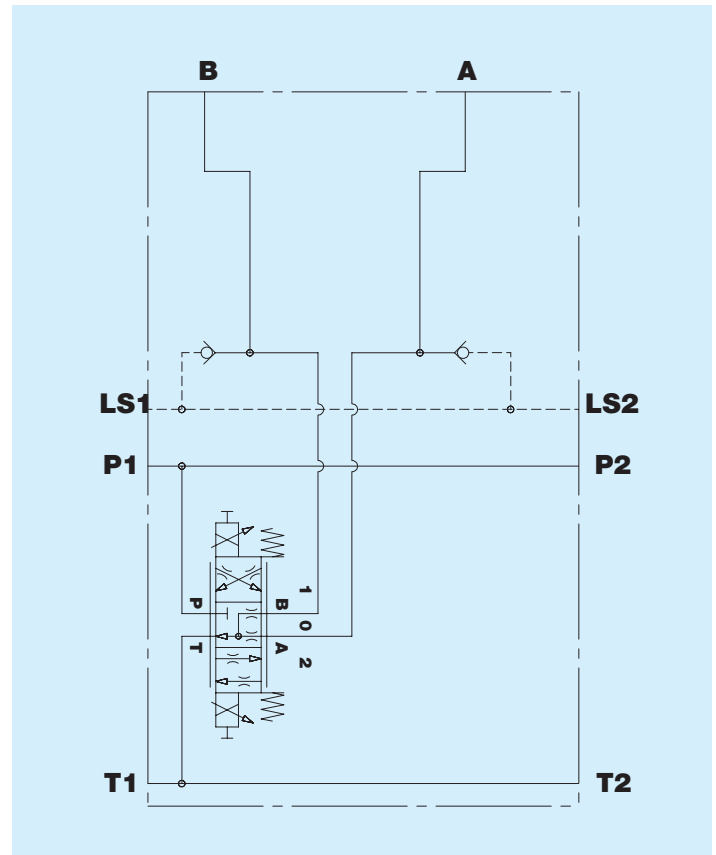


BW0511LP Large element 4/3 Proportional with Load Sensing Signal Interface IBW0511

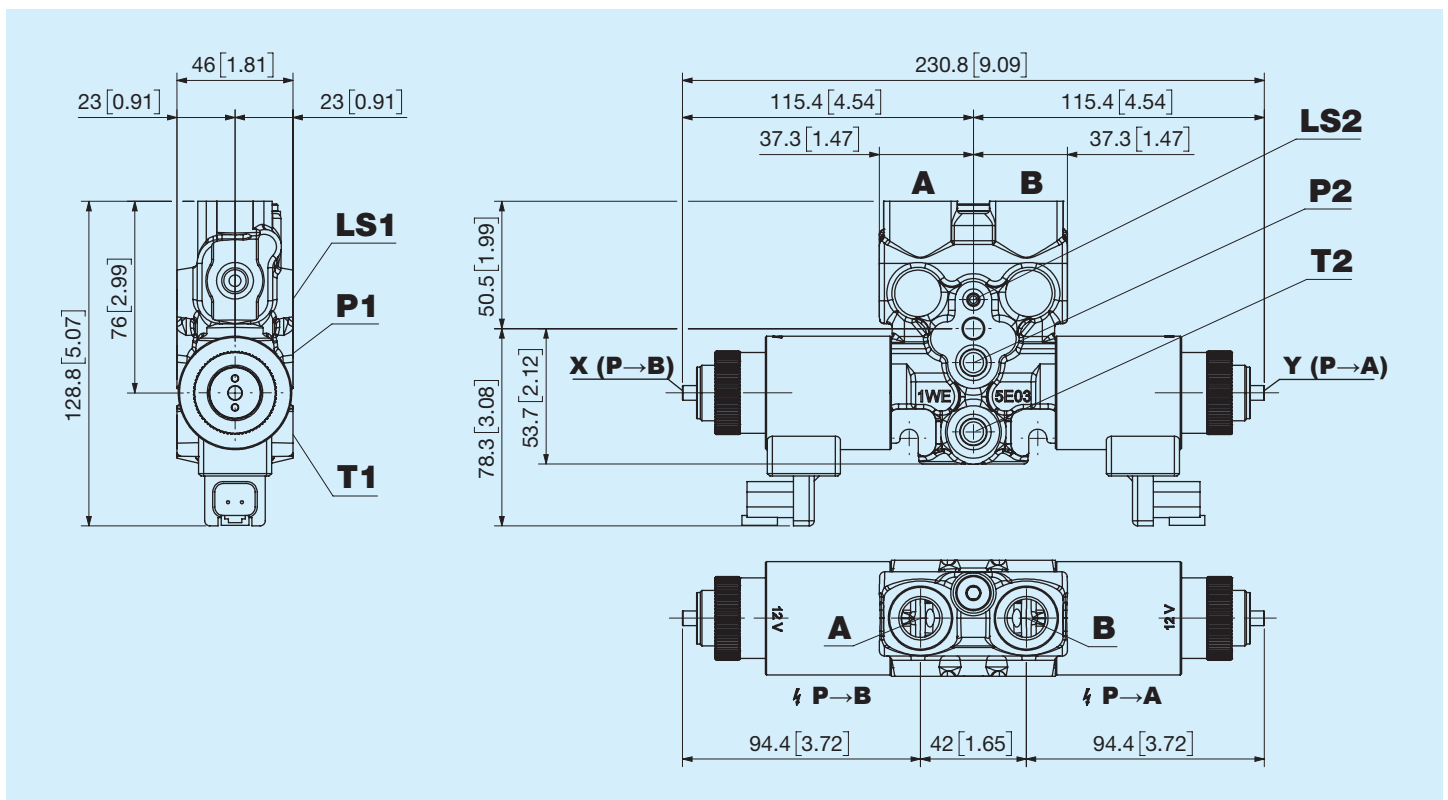


Before use, carefully read the GENERAL INSTRUCTIONS FOR USE OF DIRECTIONAL CONTROL VALVES

Nominal flow	37 l/min - $\Delta P=18$ bar 9.77 US gpm - $\Delta P=261$ psi
Nominal pressure	250 bar 3625 psi
Maximum tank pressure	50 bar 725 psi
Temperature range	-20°C +85°C NBR seals (max peak +100°C) -20°C + 130°C HNBR seals
Oil viscosity	from 15 mm²/s to 90 mm²/s (15 cSt to 90 cSt)
Fluid	Hydraulic fluids as defined in ISO 6743-4 standard
Weight	1.7 kg 3.75 lb
Interface	IBW0511
Hysteresis	<10%

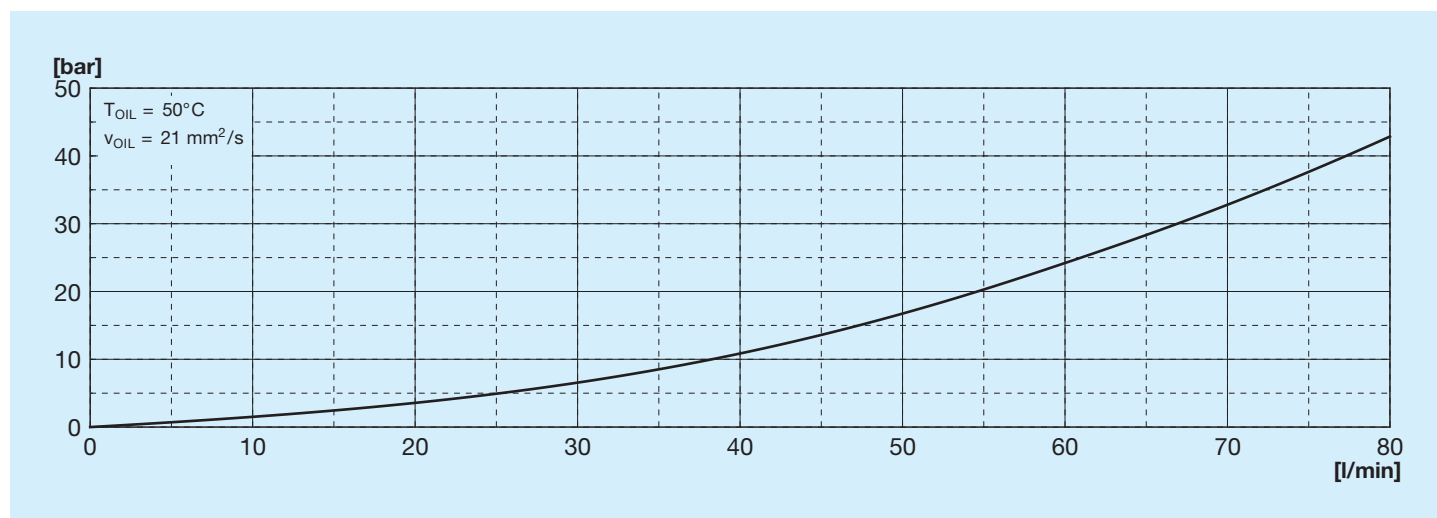


Dimensions

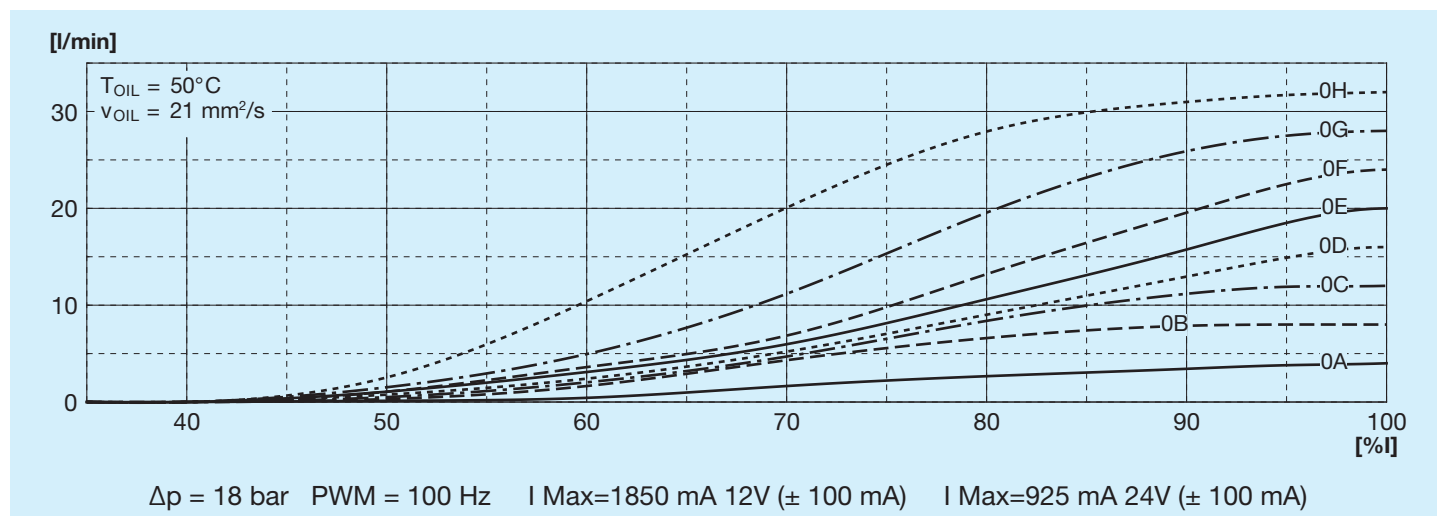


X - Y = Push type manual override

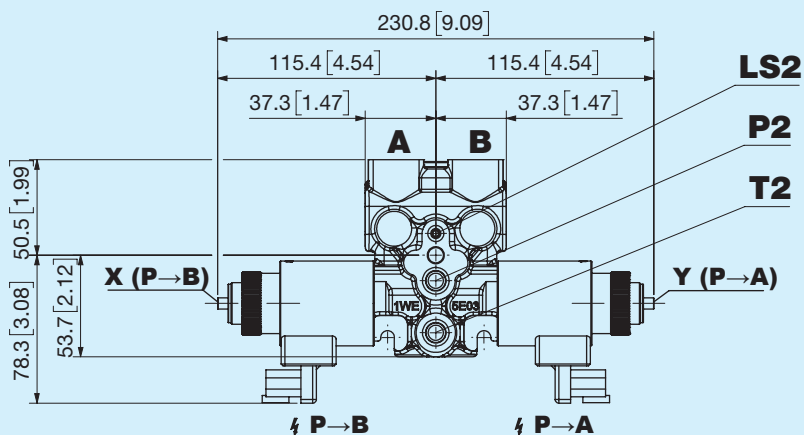
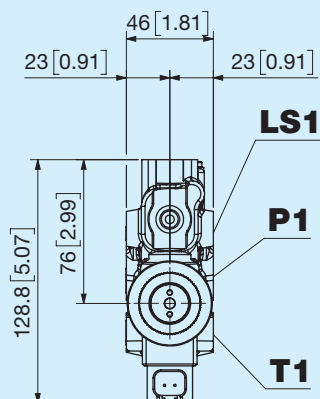
Flow curve B-T



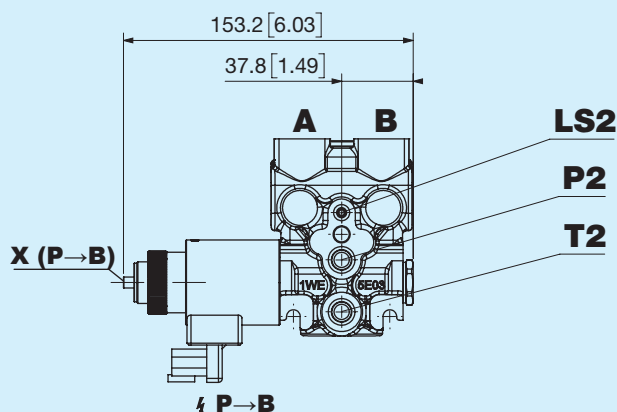
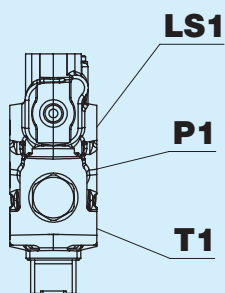
Flow curve Metering



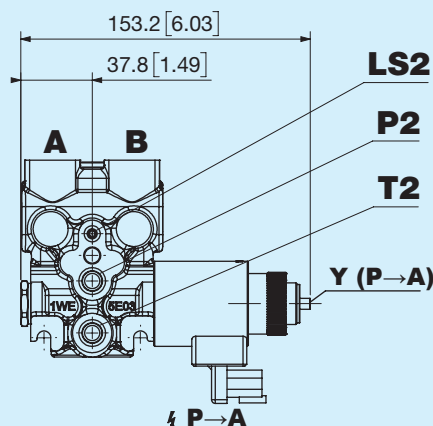
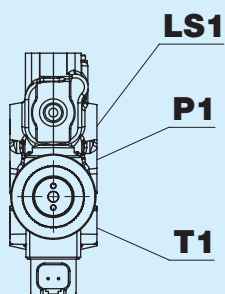
A Two coils, A and B port side



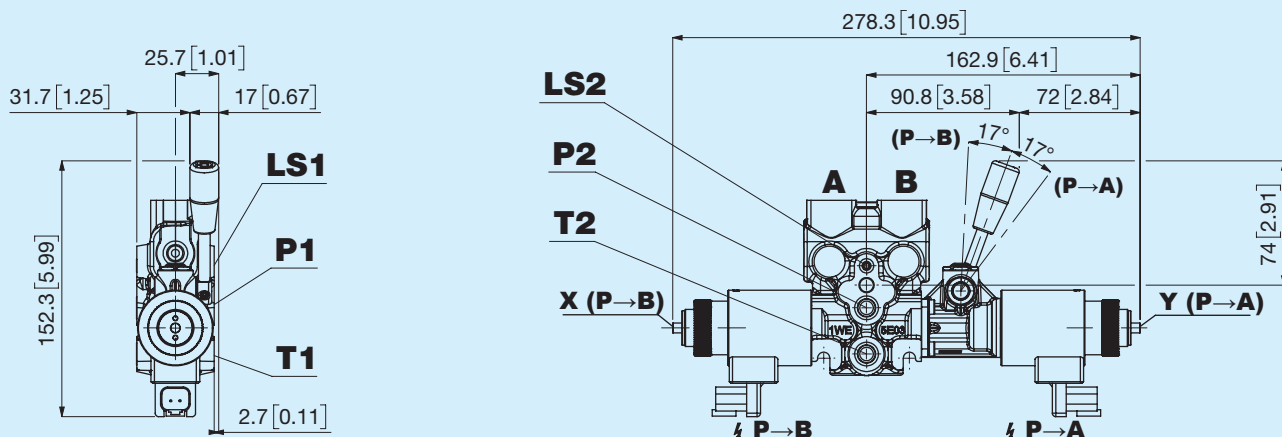
E One coil, A port side



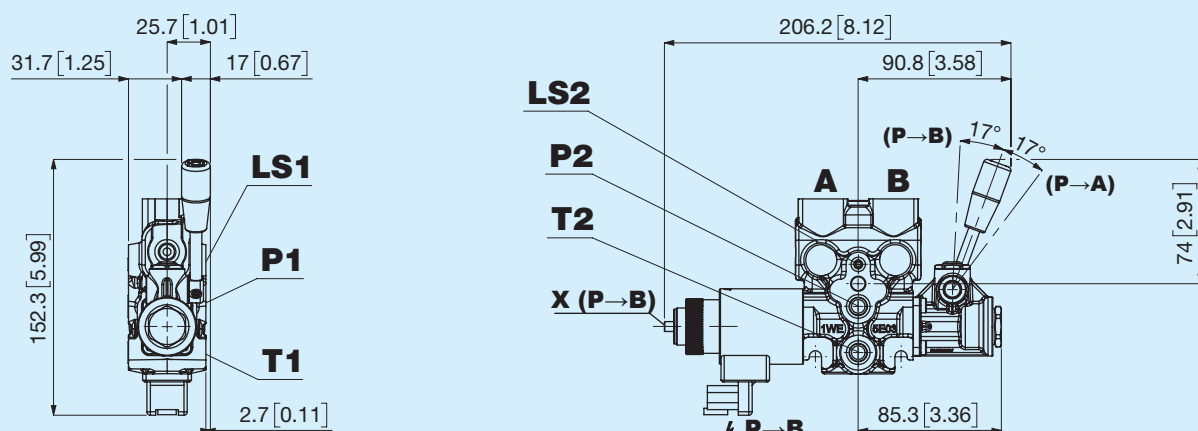
F One coil, B port side



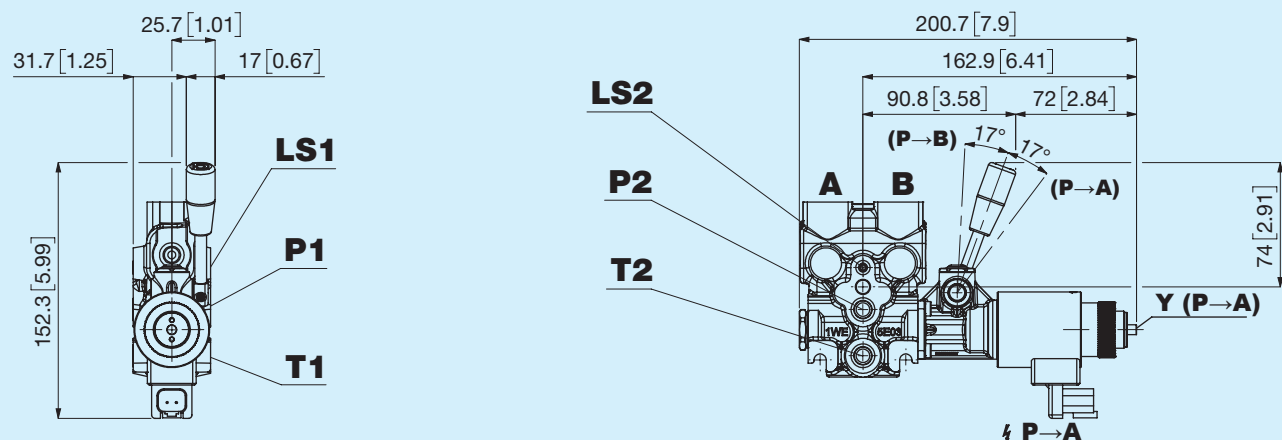
B Two coils, A and B port side and emergency lever



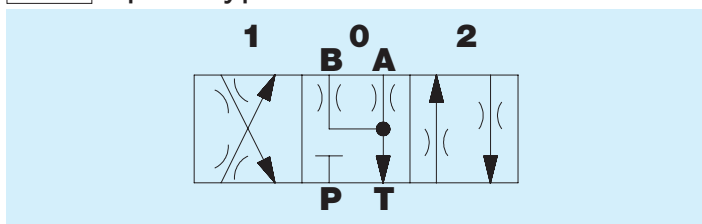
C One coil, A port side and emergency lever



D One coil, B port side and emergency lever



003 Spool type



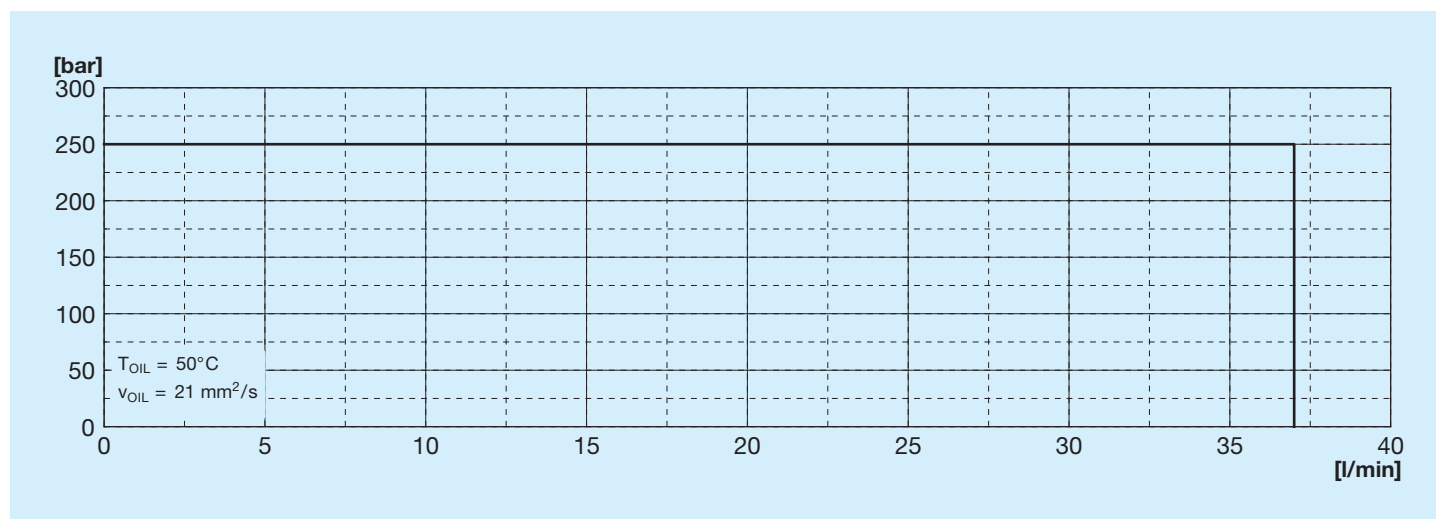
Positions

1	0	2
P→A B→T	B,A→T P—	P→B A→T

Flow rate

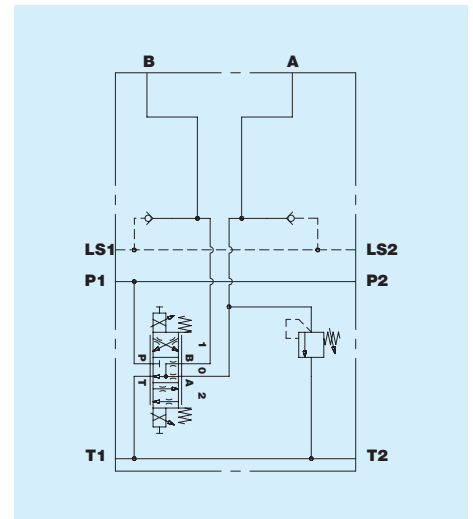
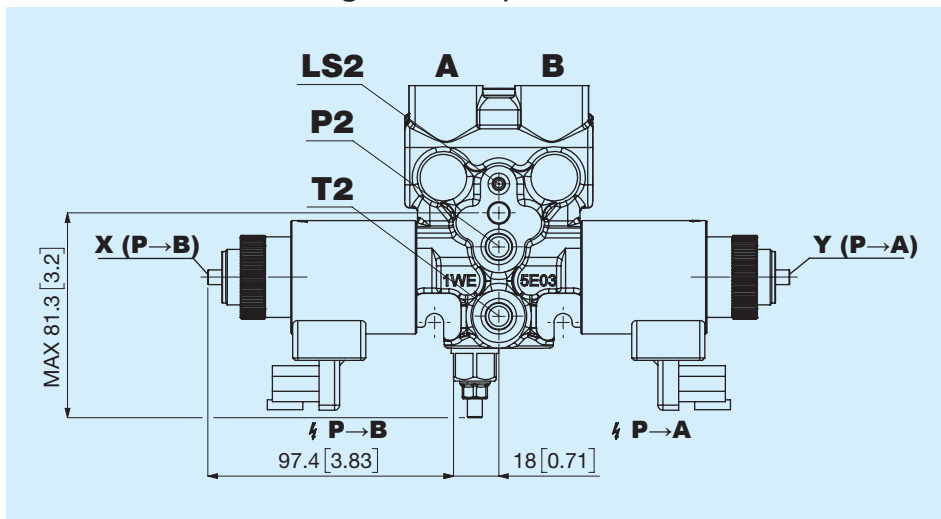
Model	l/min	US gpm
0A	5.5	1.45
0B	11	2.90
0C	16	4.22
0D	21	5.54
0E	26	6.87
0F	31	8.19
0G	37	9.77

Performance limits for spool type

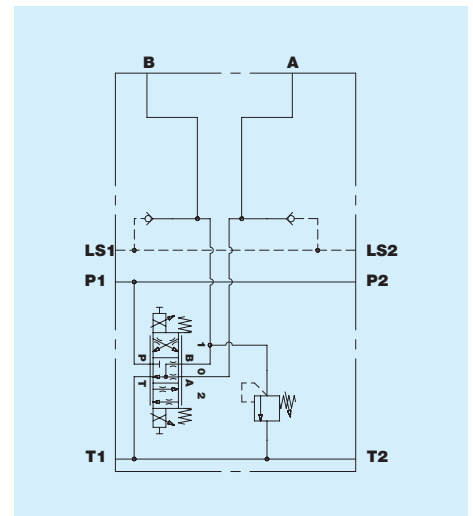
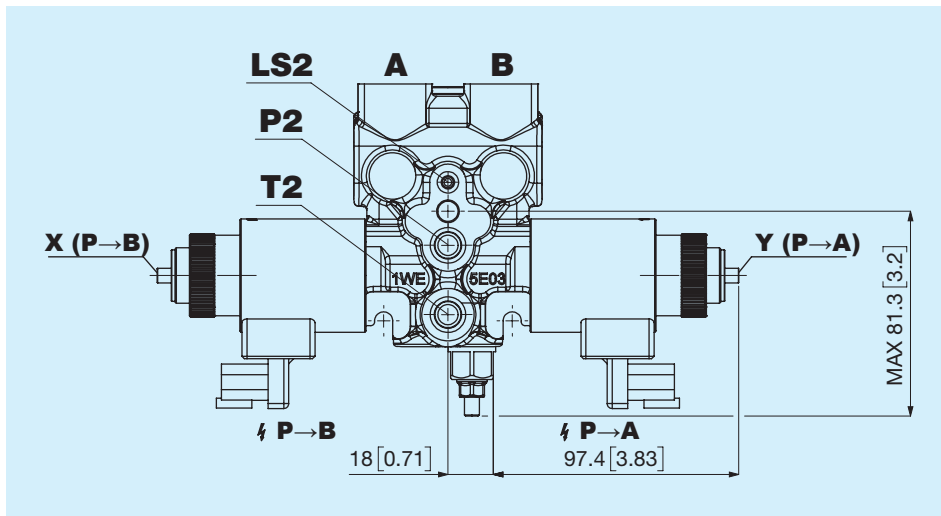


Model	Type	Torque Nm
A	3/8" GAS ISO 1179	40
C	M18x1.5 ISO 9974	40
W	M18x1.5 ISO 6149	40
E	3/4" 16 SAE ISO 11926	45

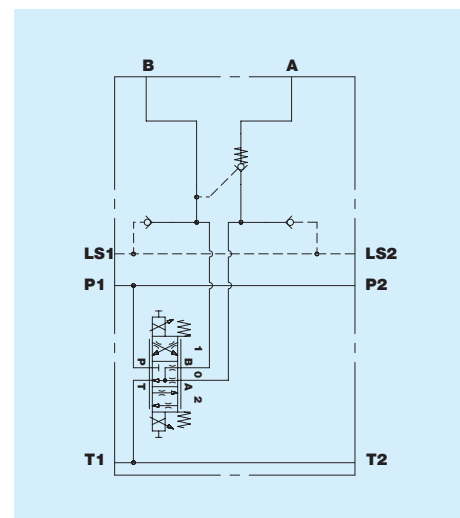
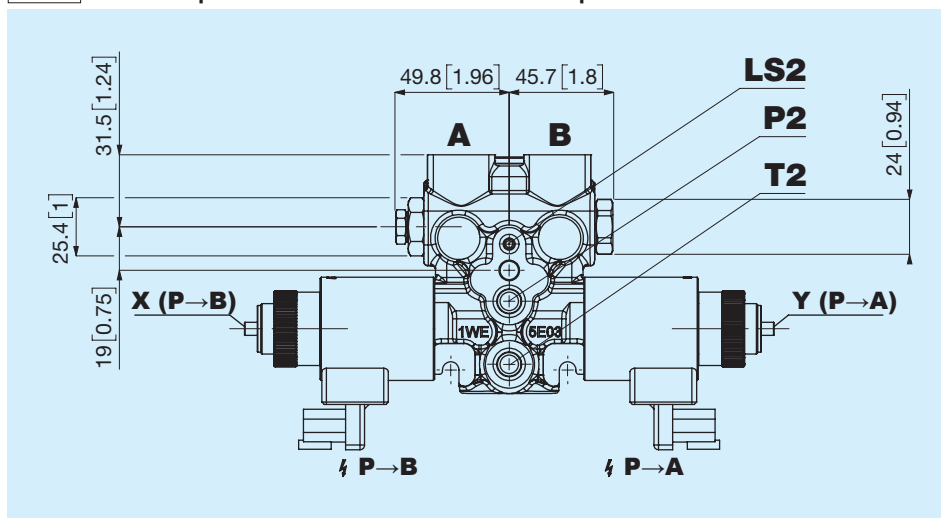
VL - Pressure limiting valve A port



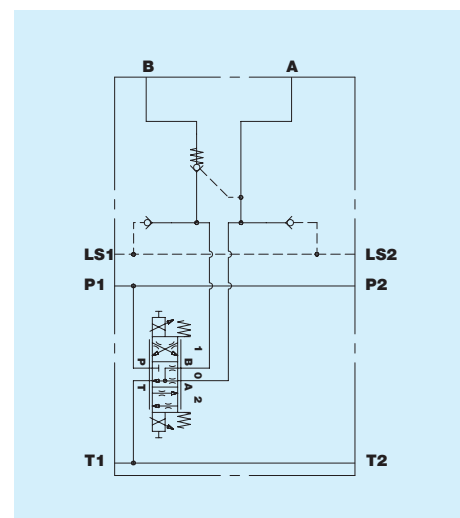
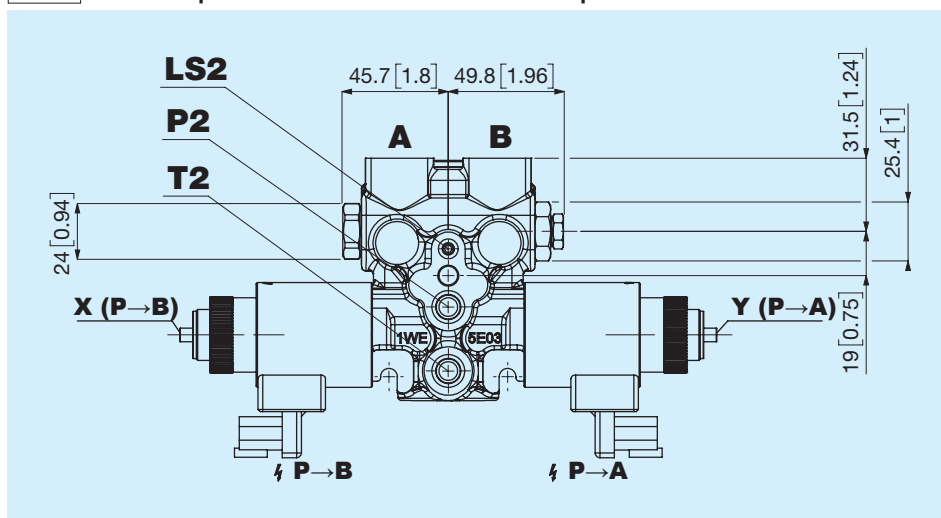
VL - Pressure limiting valve B port



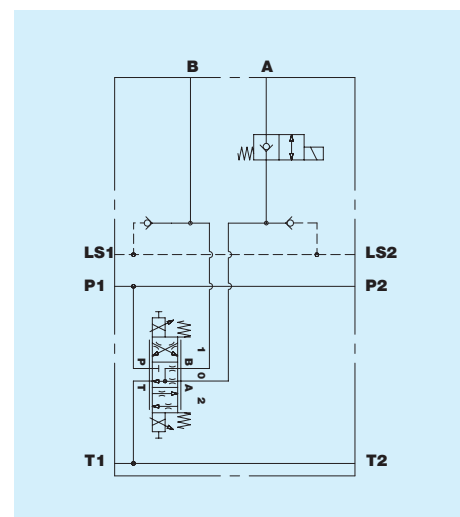
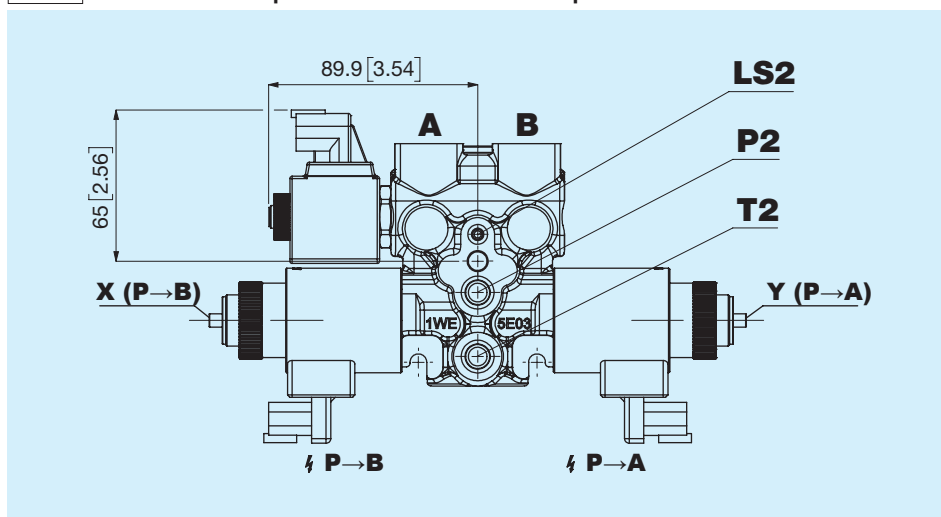
VB Pilot operated check valve A port



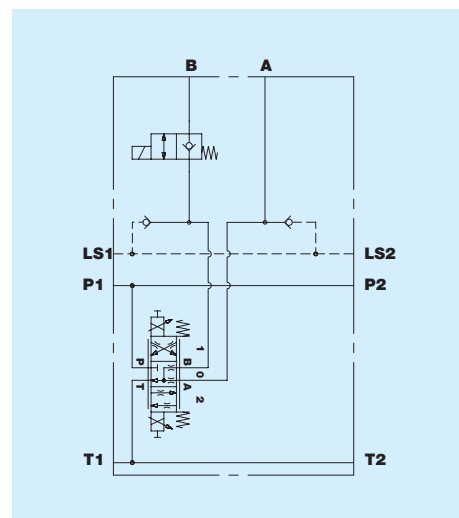
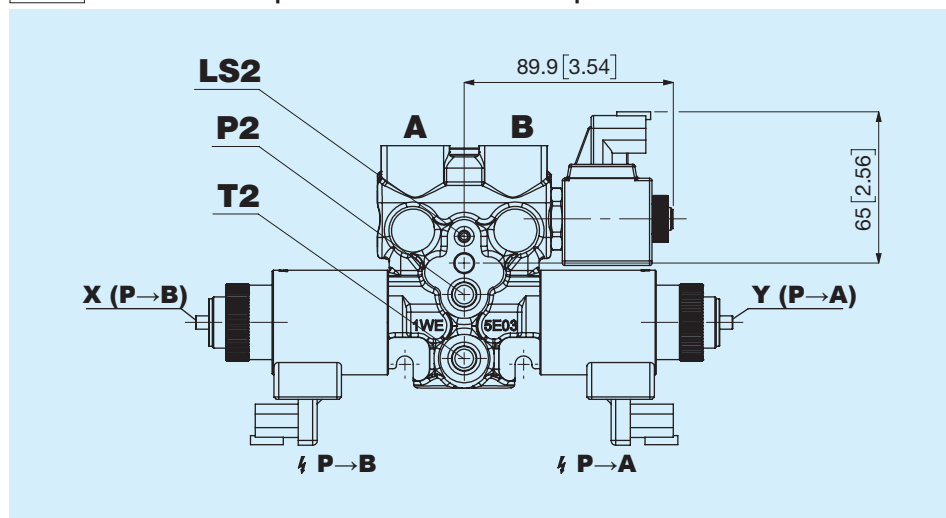
VB Pilot operated check valve B port



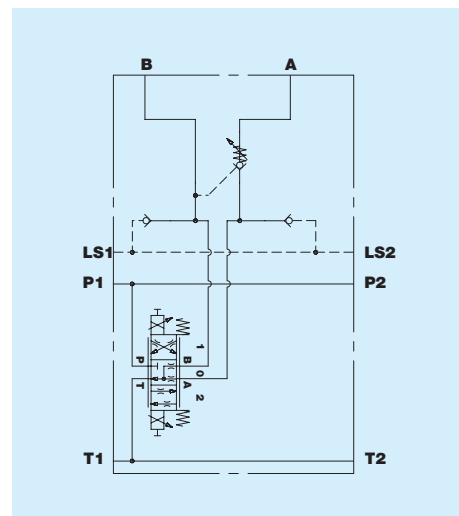
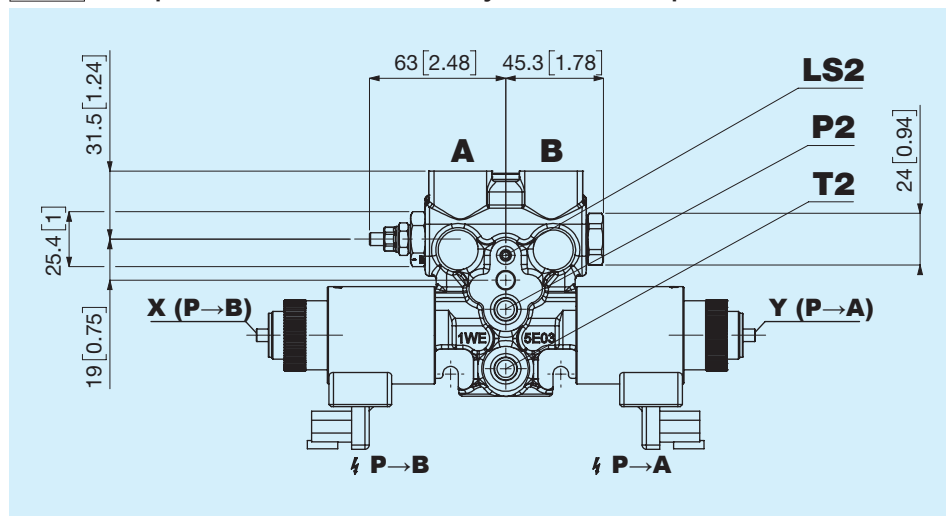
NE Solenoid operated valve 2/2 port A



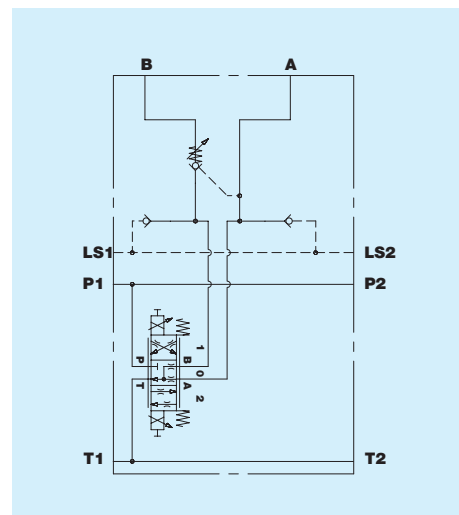
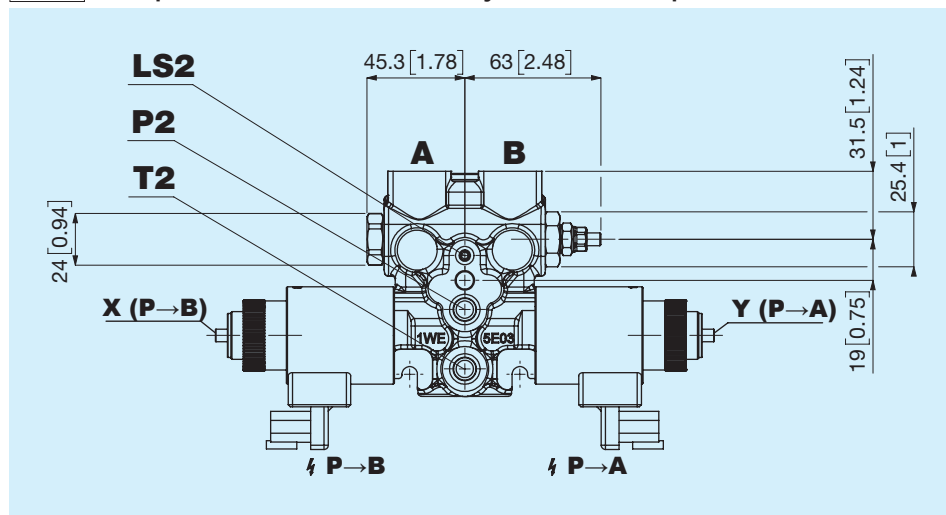
NE Solenoid operated valve 2/2 port B



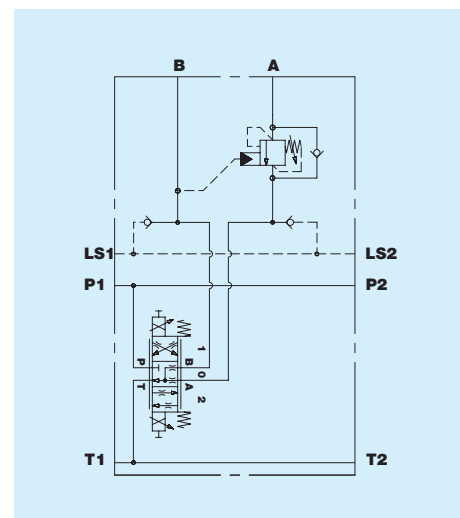
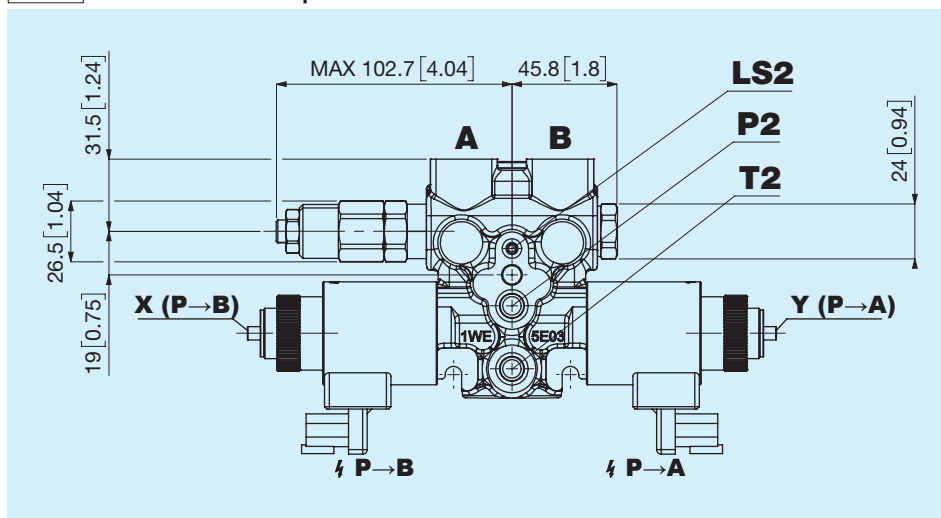
VG VB piloted with two-way restrictor port A



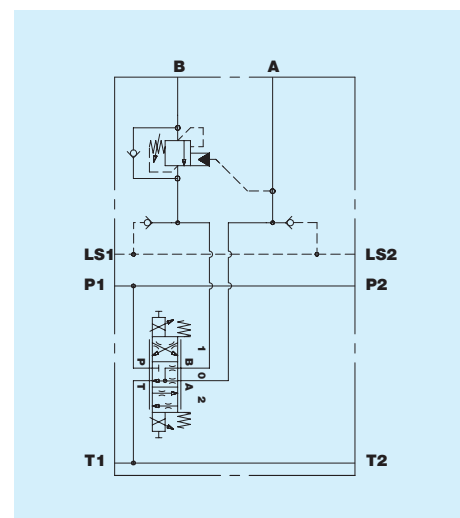
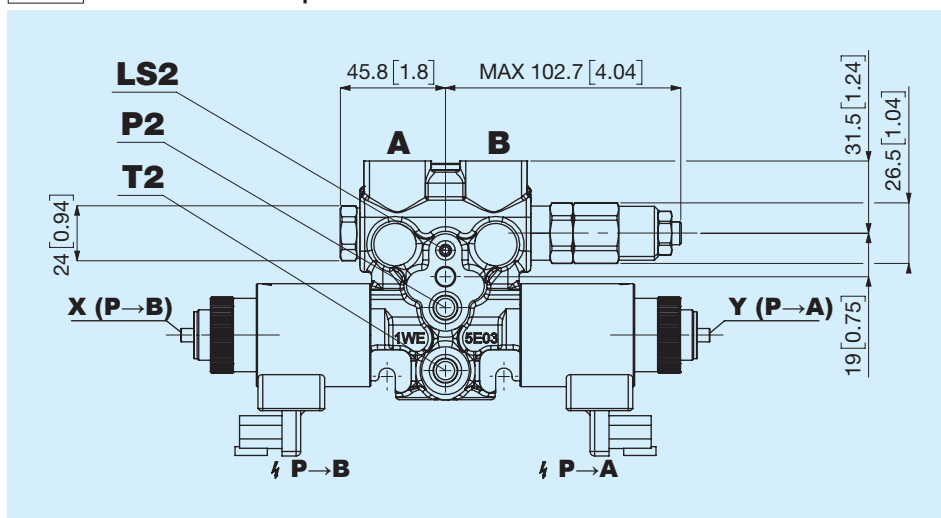
VG VB piloted with two-way restrictor port A



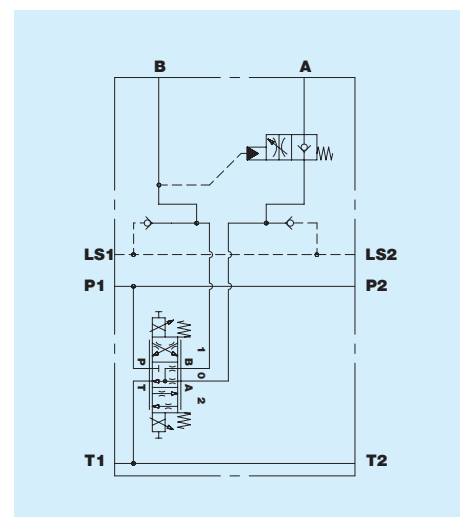
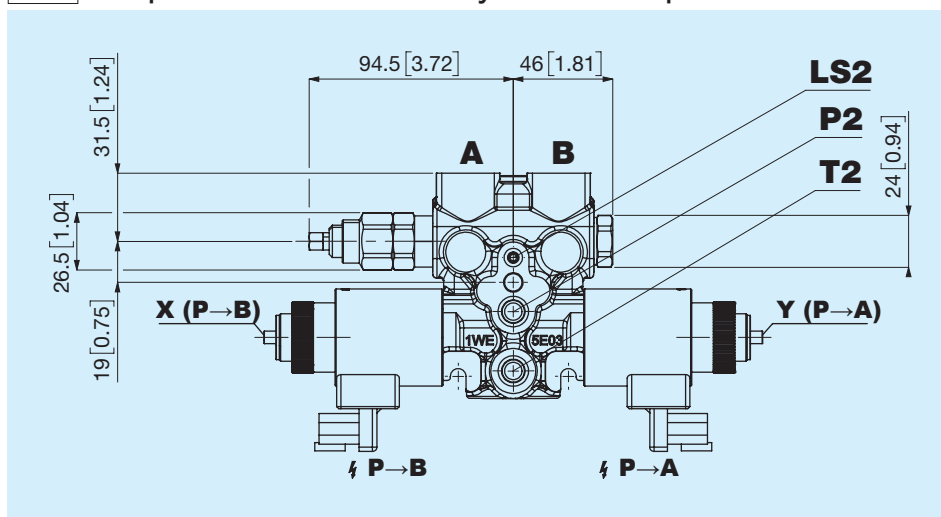
OV Over-centre port A



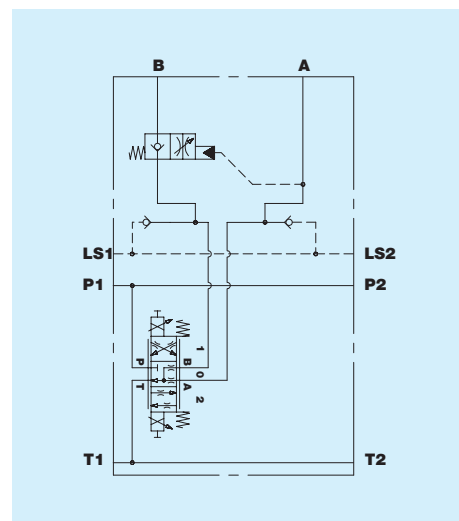
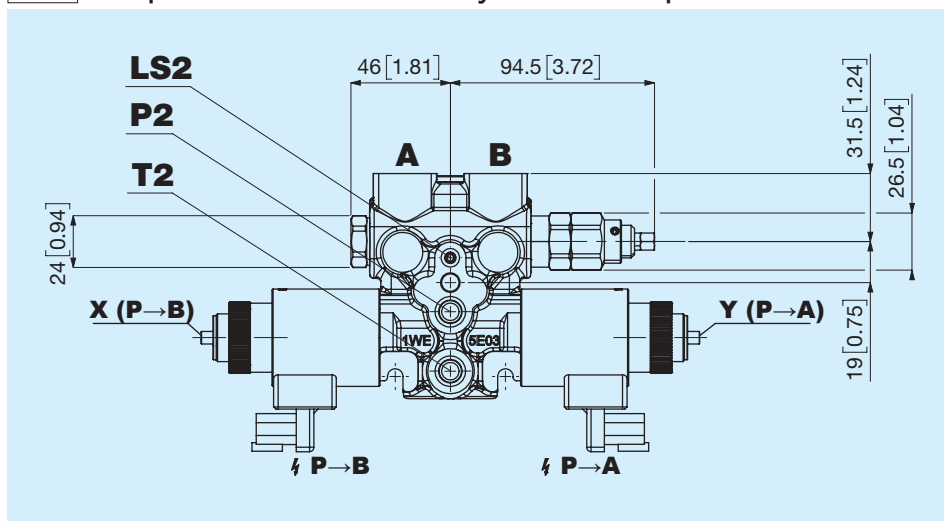
OV Over-centre port B



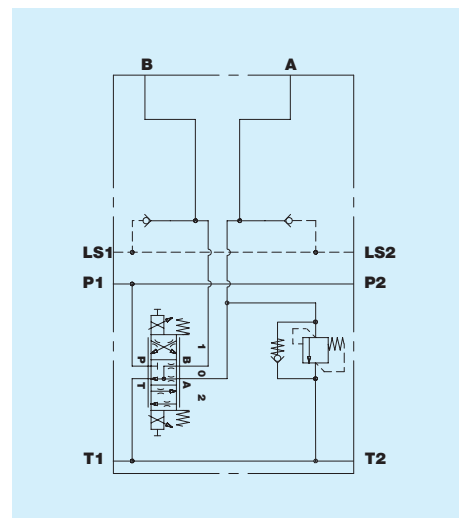
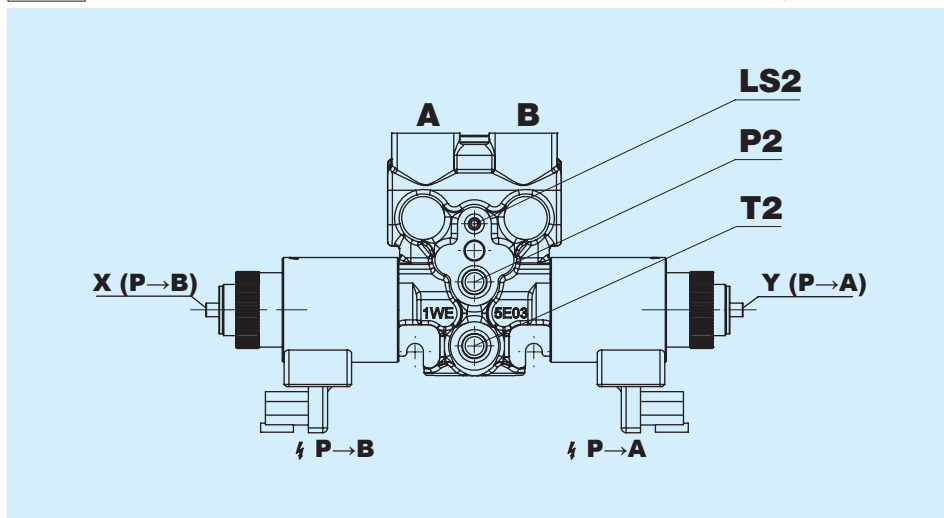
FP VB piloted with one-way restrictor port A



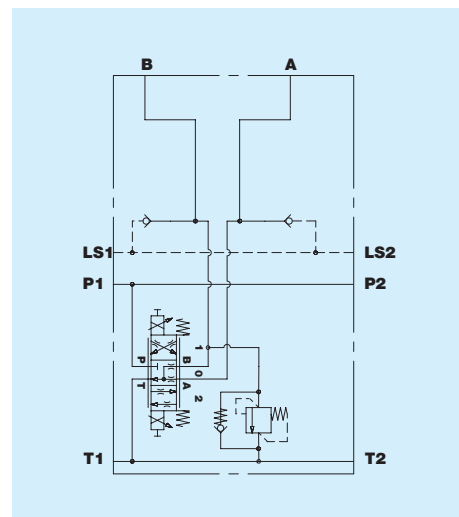
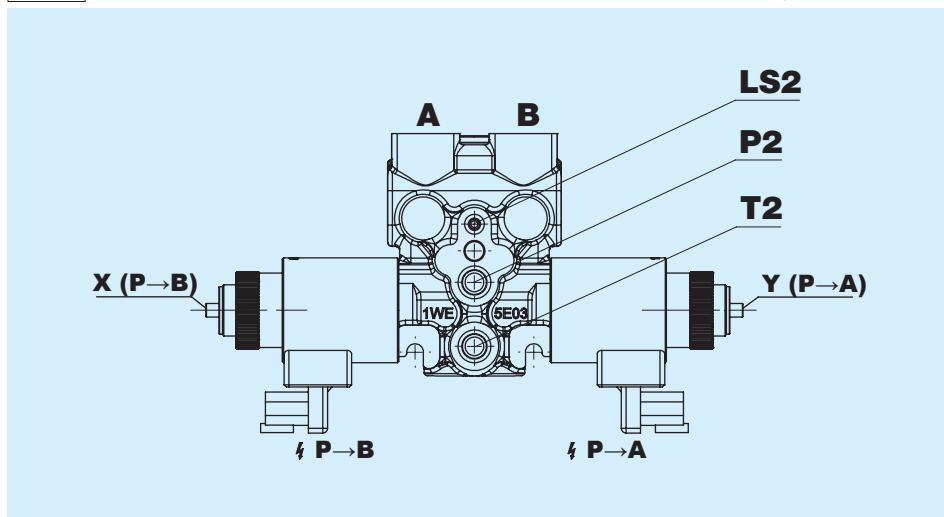
FP VB piloted with one-way restrictor port B



RC VL Internal pressure limiter and anticavitation cartridge port A



RC VL Internal pressure limiter and anticavitation cartridge port B



Possible valve combinations port A and B

Port A	Port B							
	NN	VL	VB	NE	VG	OV	FP	RC
NN	•	•	•	•	•	•	•	•
VL	•	•	•	•	•	•	•	
VB	•	•	•		•			
NE	•	•		•				•
VG	•	•	•		•			
OV	•	•				•		
FP	•	•					•	
RC	•			•				•

NN - None

VL - Pressure limiting valve

VB - Pilot operated check valve

NE - Solenoid operated valve 2/2

VG - Pilot operated check valve with two-way restrictor

OV - Over-centre

FP - Pilot operated check valve with one-way restrictor

RC - Internal pressure limiter and anticavitation cartridge

BW0511LP	1	2 3 4	5 6	7	8 9	10 11	12 13	14 15	16 17
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1	Configurations								
	A Two coils, A and B port side	F One coil, B port side	C One coil, A port side and emergency lever						
	E One coil, A port side	B Two coils, A and B port side and emergency lever	D One coil, B port side and emergency lever						
2 3 4	Spool types								
	003 Spool type								
5 6	Flow rate $\Delta P = 18$ bar								
	0A 5.5 l/min - 1.45 US gpm	0C 16 l/min - 4.22 US gpm	0E 26 l/min - 6.87 US gpm	0G 37 l/min - 9.77 US gpm					
	0B 11 l/min - 2.90 US gpm	0D 21 l/min - 5.54 US gpm	0F 31 l/min - 8.19 US gpm						
7	Thread Port A and B								
	A 3/8" GAS ISO 1179	C M18x1.5 ISO 9974	W M18x1.5 ISO 6149	E 3/4" 16 SAE ISO 11926					
8 9	VL Pressure limiting valve below port A								
	NN None	09 VL 90 bar	15 VL 150 bar	21 VL 210 bar					
	04 VL 40 bar	10 VL 100 bar	16 VL 160 bar	22 VL 220 bar					
	05 VL 50 bar	11 VL 110 bar	17 VL 170 bar	23 VL 230 bar					
	06 VL 60 bar	12 VL 120 bar	18 VL 180 bar						
	07 VL 70 bar	13 VL 130 bar	19 VL 190 bar						
	08 VL 80 bar	14 VL 140 bar	20 VL 200 bar						
10 11	VL Pressure limiting valve below port B								
	NN None	09 VL 90 bar	15 VL 150 bar	21 VL 210 bar					
	04 VL 40 bar	10 VL 100 bar	16 VL 160 bar	22 VL 220 bar					
	05 VL 50 bar	11 VL 110 bar	17 VL 170 bar	23 VL 230 bar					
	06 VL 60 bar	12 VL 120 bar	18 VL 180 bar						
	07 VL 70 bar	13 VL 130 bar	19 VL 190 bar						
	08 VL 80 bar	14 VL 140 bar	20 VL 200 bar						
12 13	Port A valve type								
	NN None	NE Solenoid operated valve 2/2	OV Over-centre	RC Internal pressure limiter and anticavitation cartridge					
	VB Pilot operated check valve	VG Pilot valve piloted with two-way restrictor	FP Pilot check valve with one-way restrictor						
14 15	OV/RC calibration pressure port A								
	NN None	09 90 bar	16 160 bar	23 230 bar					
	03 30 bar	10 100 bar	17 170 bar	24 240 bar					
	04 40 bar	11 110 bar	18 180 bar	25 250 bar					
	05 50 bar	12 120 bar	19 190 bar	26 260 bar					
	06 60 bar	13 130 bar	20 200 bar	27 270 bar					
	07 70 bar	14 140 bar	21 210 bar						
	08 80 bar	15 150 bar	22 220 bar						
16 17	Valve type port B								
	NN None	NE Solenoid operated valve 2/2	OV Over-centre	RC Internal pressure limiter and anticavitation cartridge					
	VB Pilot operated check valve	VG Pilot valve piloted with two-way restrictor	FP Pilot check valve with one-way restrictor						

18	19	20	21

18	19

OV/RC calibration pressure port B

NN None	09 90 bar	16 160 bar	23 230 bar
03 30 bar	10 100 bar	17 170 bar	24 240 bar
04 40 bar	11 110 bar	18 180 bar	25 250 bar
05 50 bar	12 120 bar	19 190 bar	26 260 bar
06 60 bar	13 130 bar	20 200 bar	27 270 bar
07 70 bar	14 140 bar	21 210 bar	
08 80 bar	15 150 bar	22 220 bar	

20

Voltage and connector

A 12V DIN 43650	B 24V DIN 43650	G 12V Deutsch	H 24V Deutsch
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21

External treatment

A External treatment	N None
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