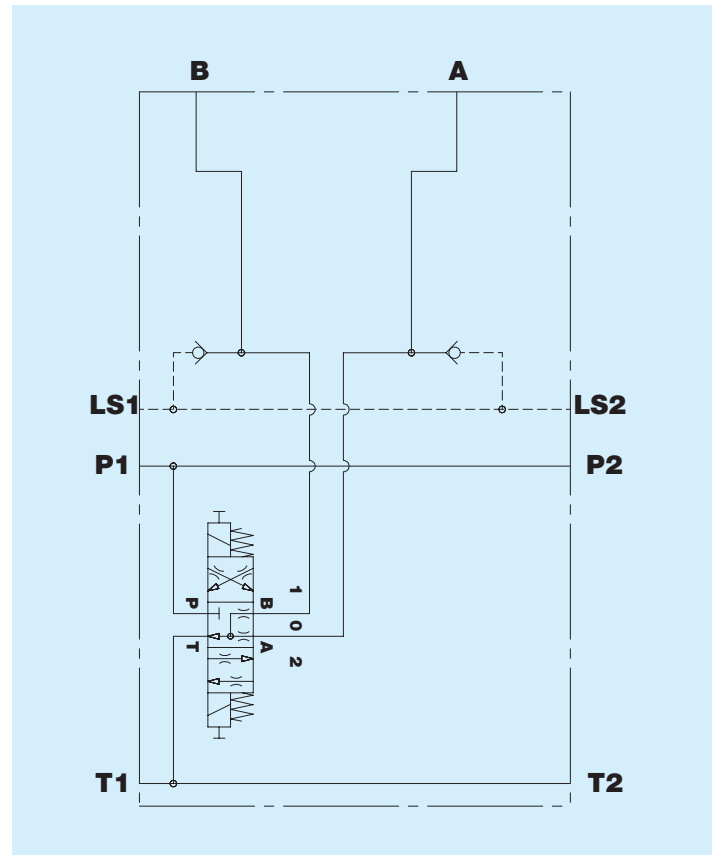


**BW0511BO - Element 4/3 ON - OFF with Top ports
with Load sensing signal
Interface IBW0511**

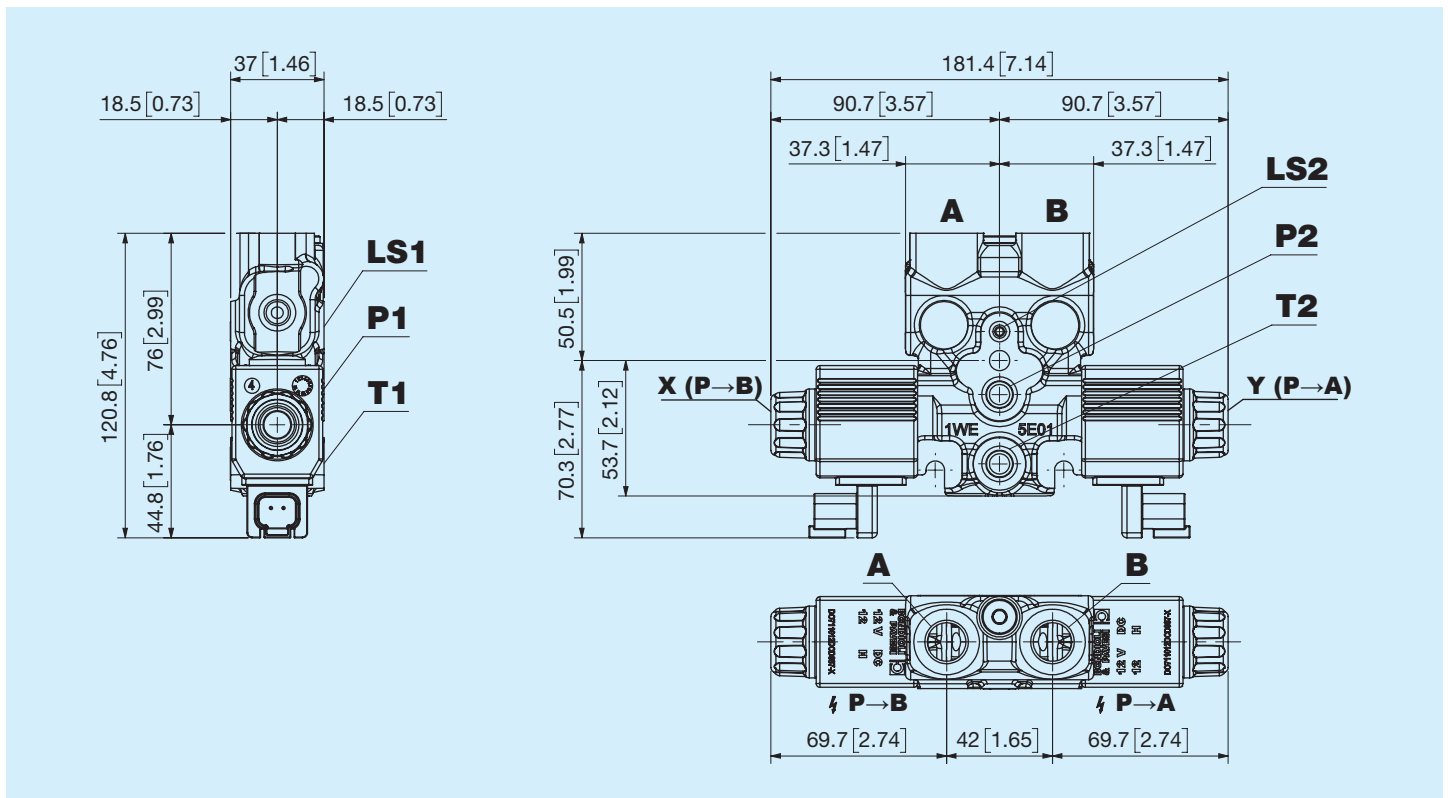


Before use, carefully read the GENERAL INSTRUCTIONS FOR USE OF DIRECTIONAL CONTROL VALVES

Nominal flow	42 l/min - $\Delta P=18$ bar 11,1 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 mm ² /s to 90 mm ² /s (15 cSt to 90 cSt)
Fluid	Hydraulic fluids as defined in ISO 6743-4 standard
Weight	1.6 kg 3.5 lb
Interface	IBW0511

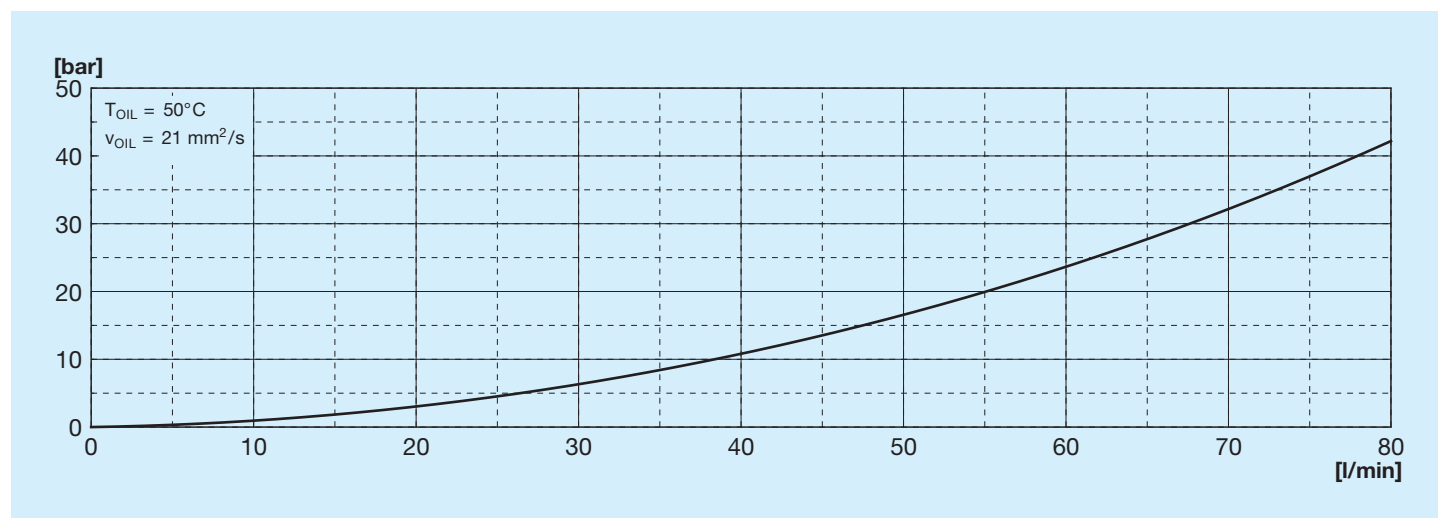


Dimensions

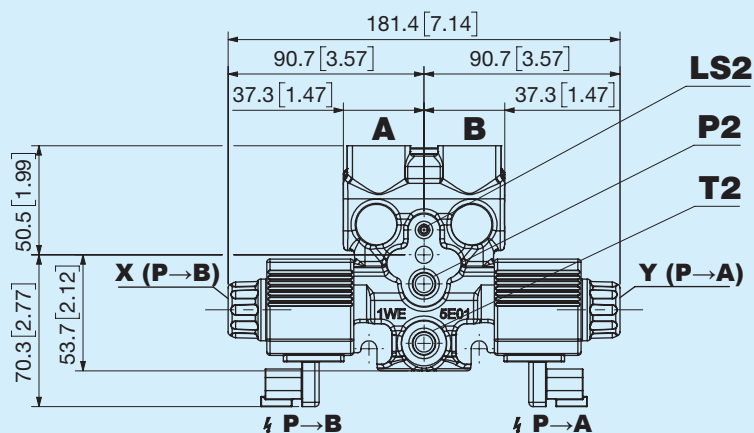
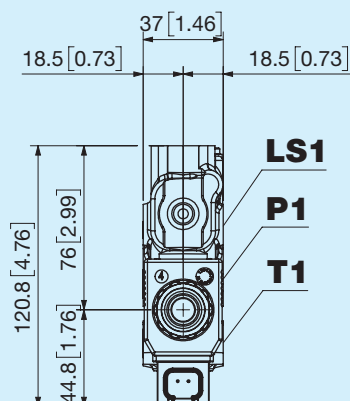


X - Y = Push type manual override

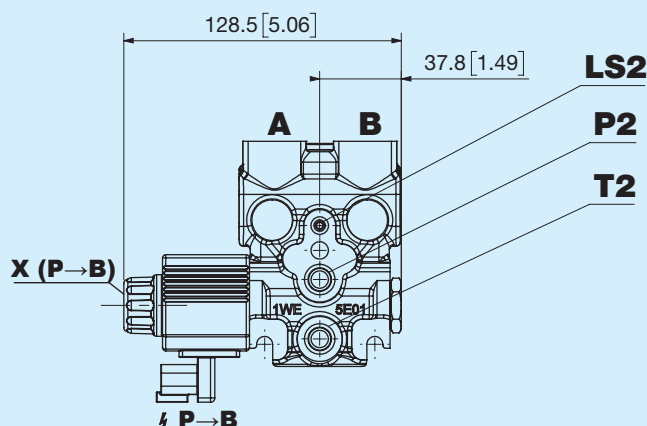
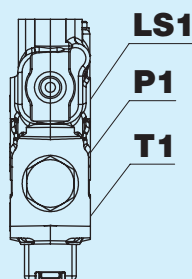
A/B-T flow curve



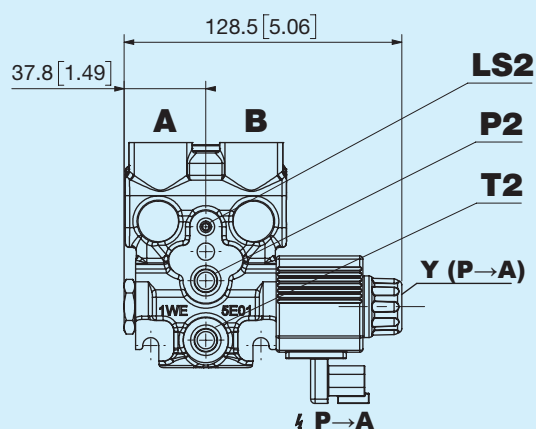
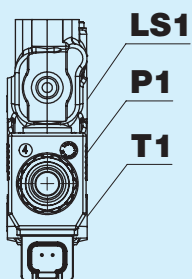
A Two coils, A and B port side



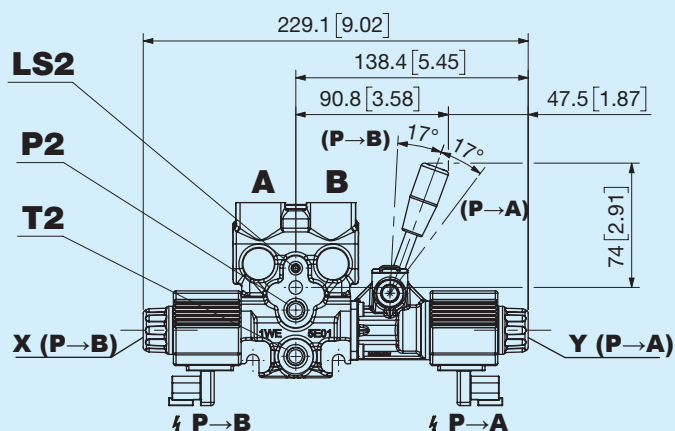
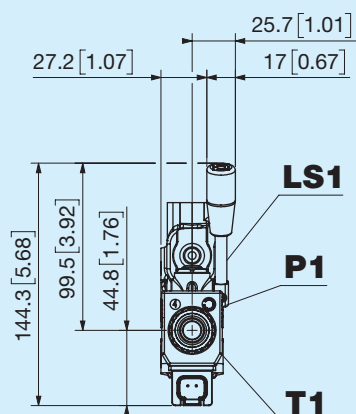
E One coil, A port side



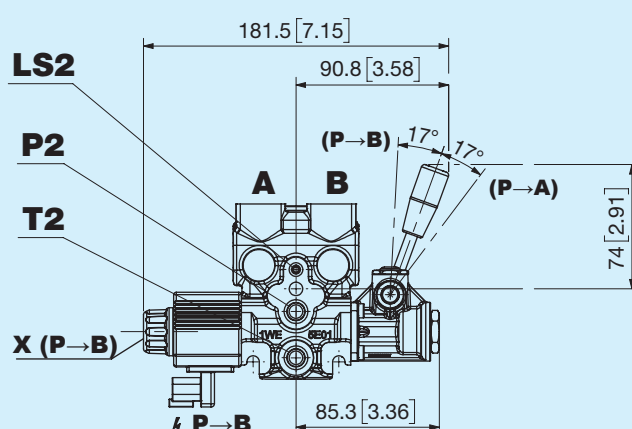
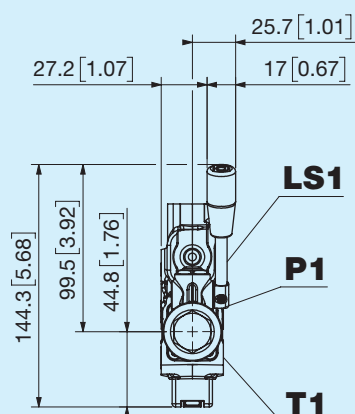
F One coil, B port side



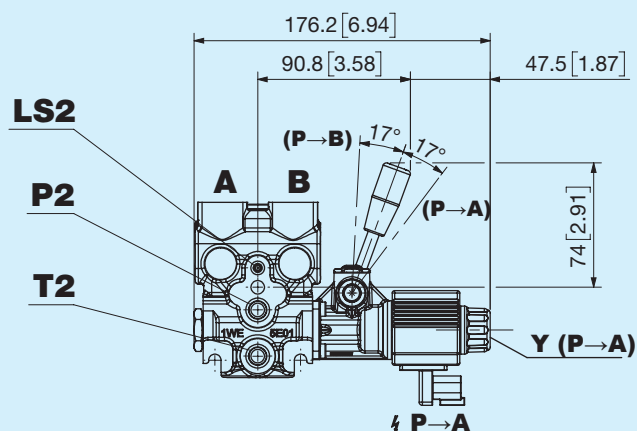
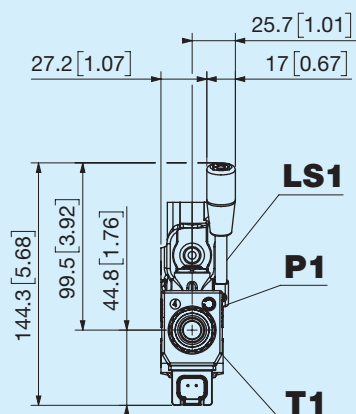
B Two coils, A and B port side and emergency lever



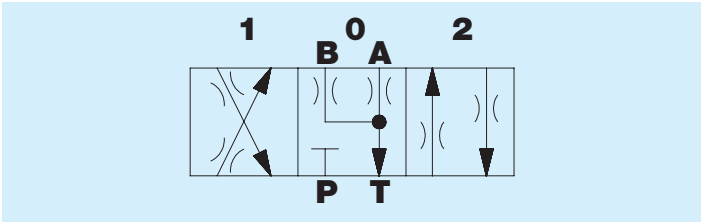
C One coil, A port side and emergency lever



D One coil, B port side and emergency lever



003 Spool type



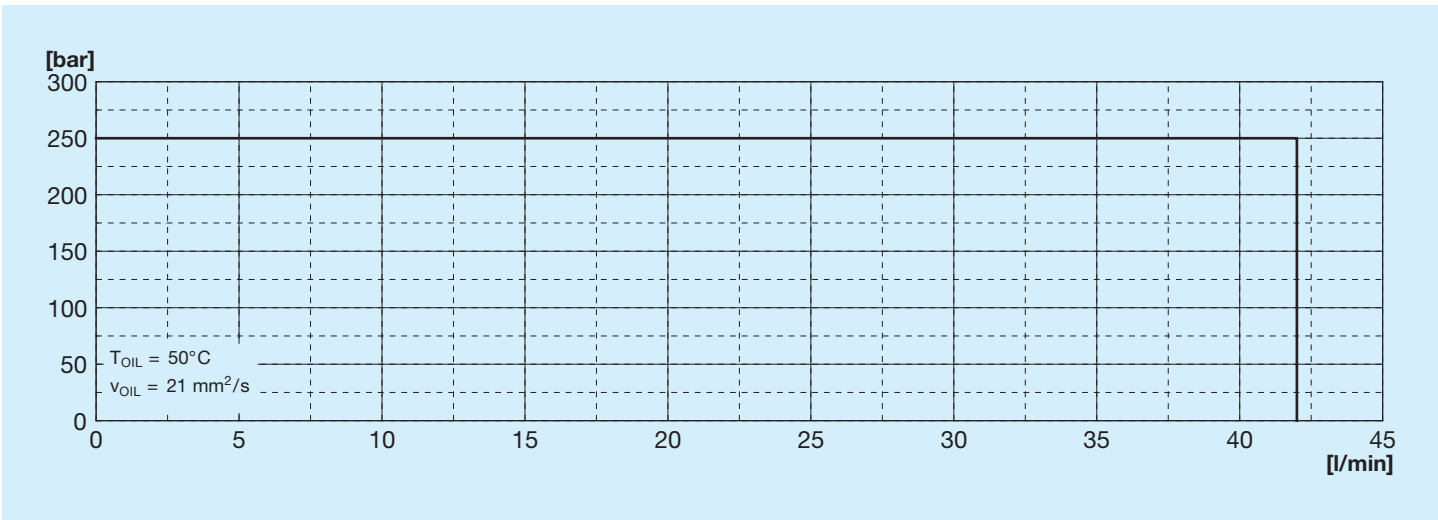
Positions

1	0	2
P→A B→T	B,A→T P—	P→B A→T

Flow rate

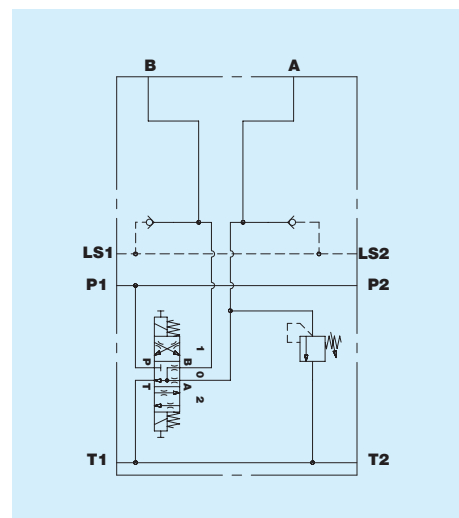
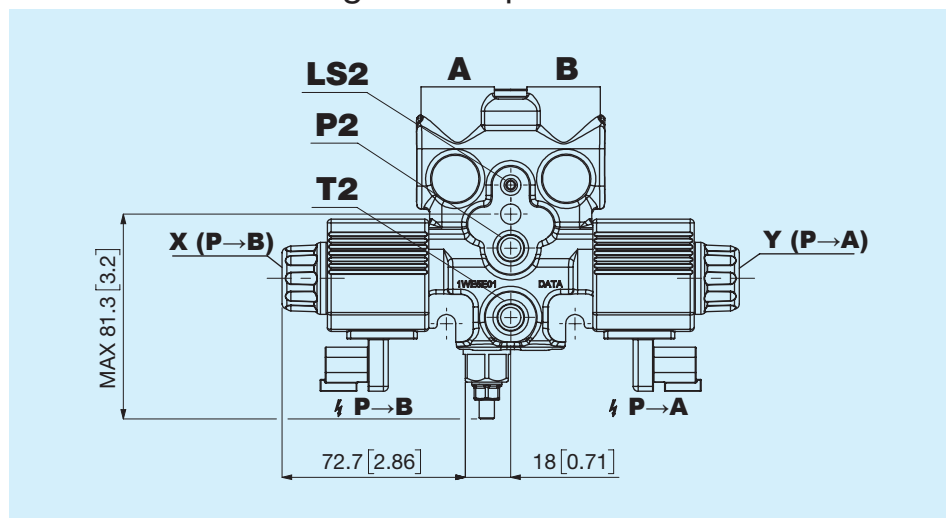
Model	l/min	US gpm
0A	4	1,06
0B	9	2,37
0C	13	3,43
0D	17	4,49
0E	21	5,54
0F	26	6,87
0G	31	8,19
0H	37	9,77
0I	42	11,1

Performance limits for Spool type

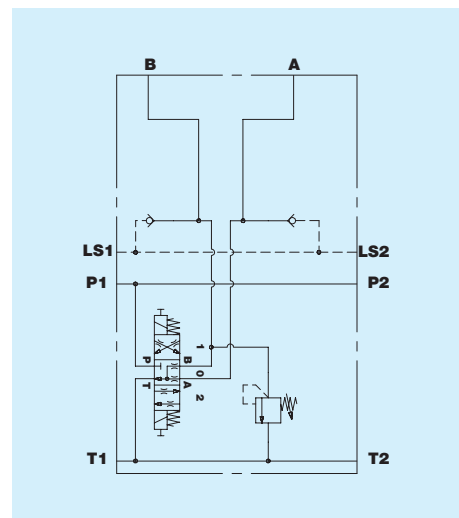
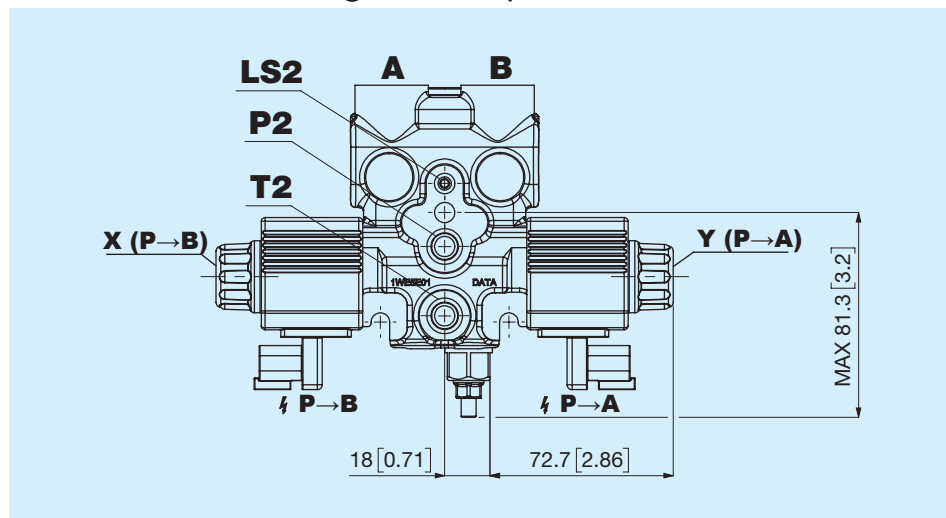


Model	Type	Torque Nm
A	3/8" GAS ISO 1179	40
C	M18x1.5 ISO 9974	40
W	M18x1.5 ISO 6149	40
E	3/4" 16 SAE ISO 11926	45

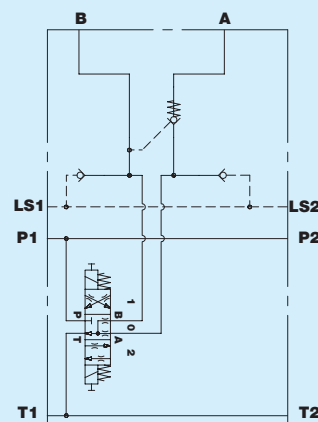
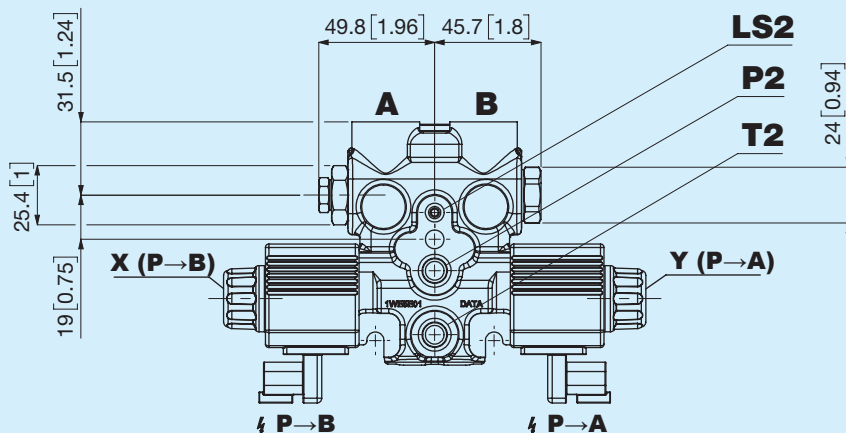
VL - Pressure limiting valve A port



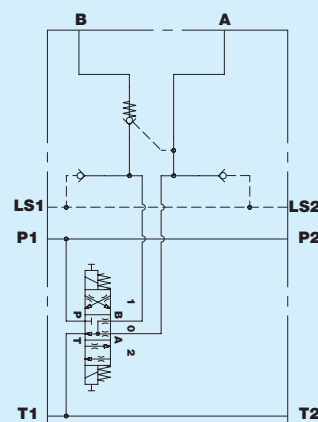
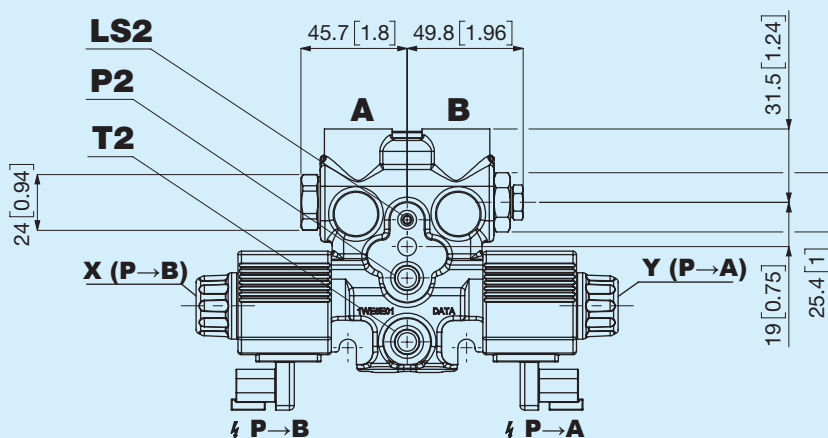
VL - Pressure limiting valve B port



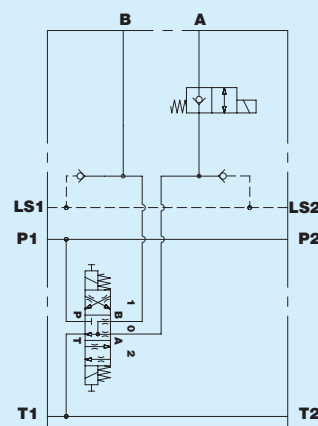
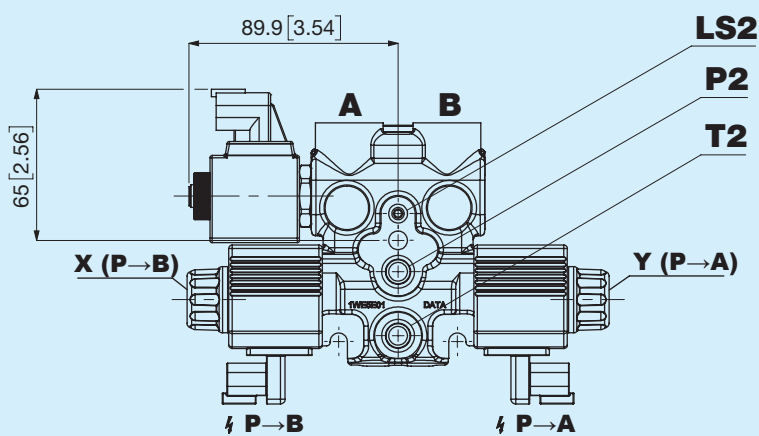
VB Pilot check valve A port



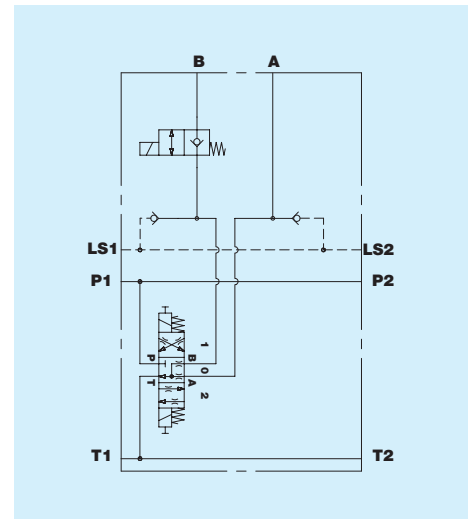
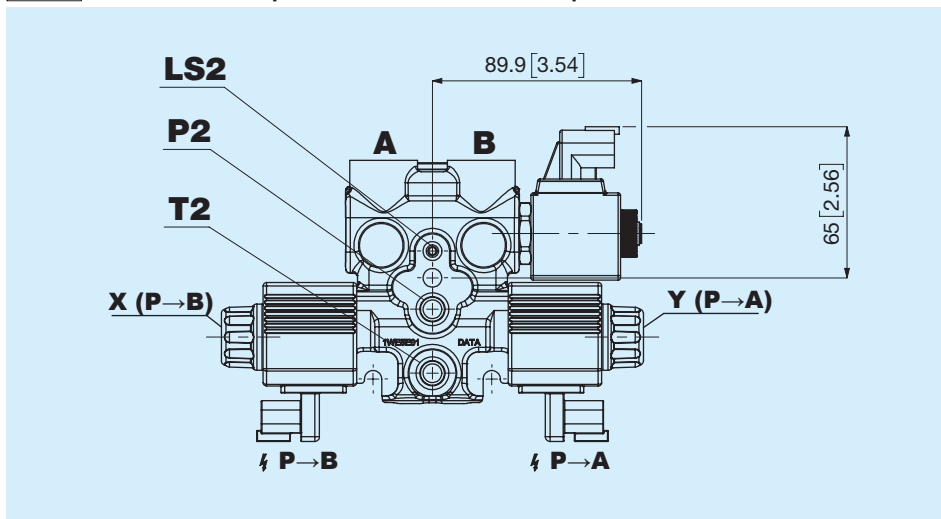
VB Pilot check valve B port



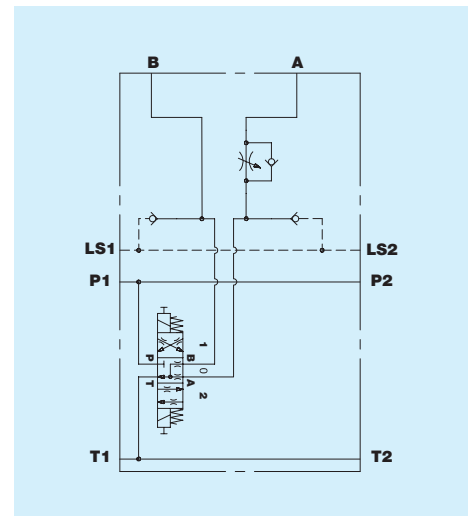
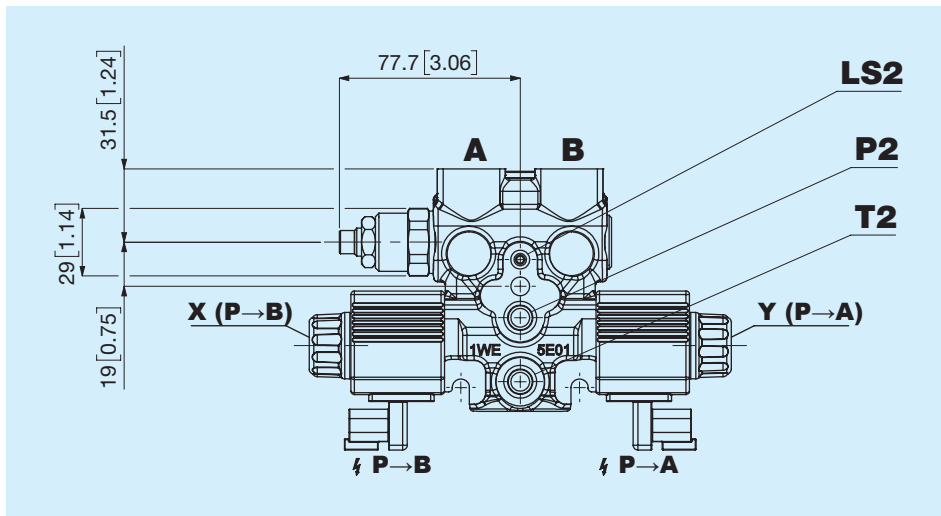
NE Solenoid operated valve 2/2 port A



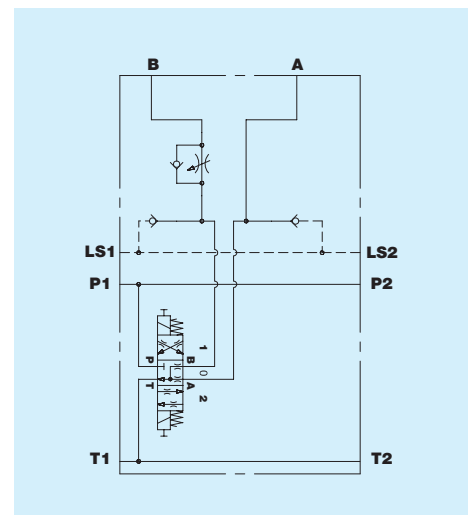
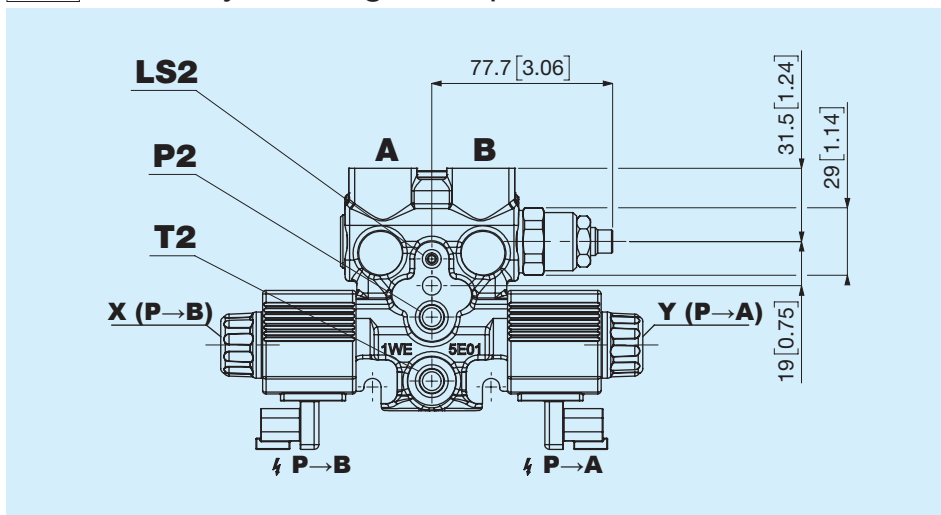
NE Solenoid operated valve 2/2 port B



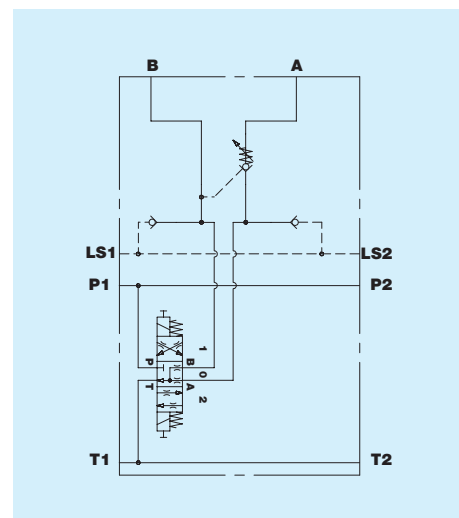
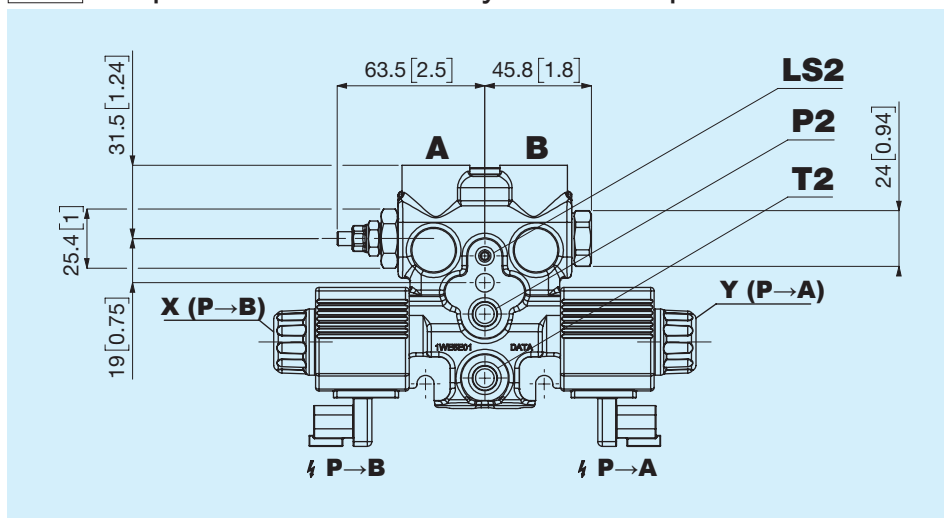
FC One-way flow regulator port A



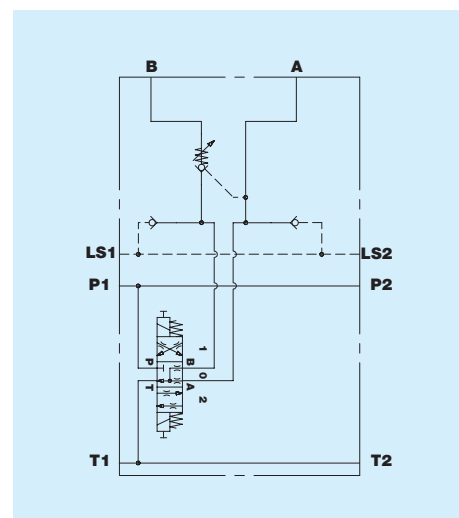
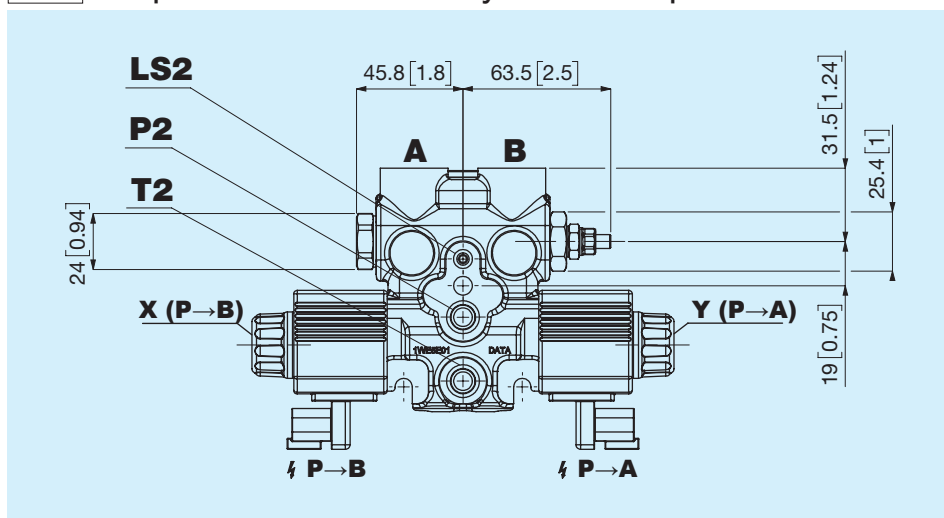
FC One-way flow regulator port B



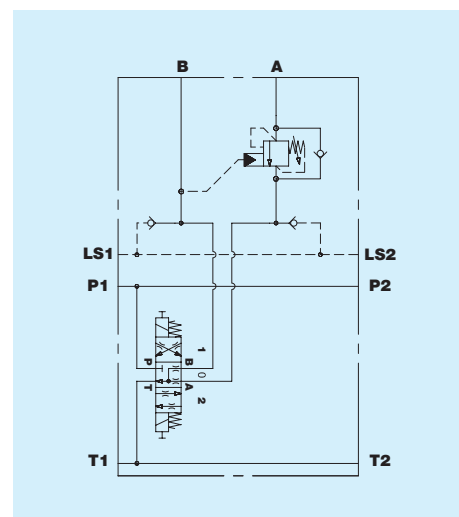
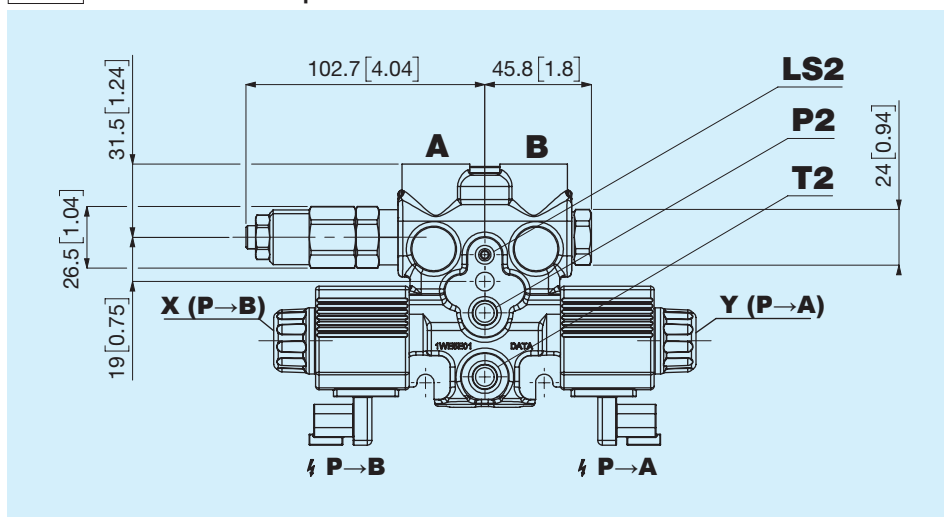
VG VB piloted with two-way restrictor port A



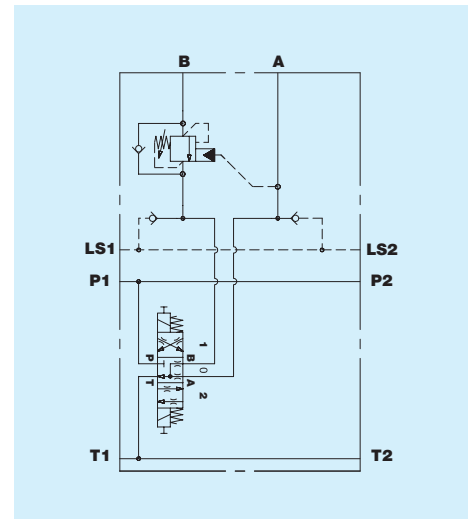
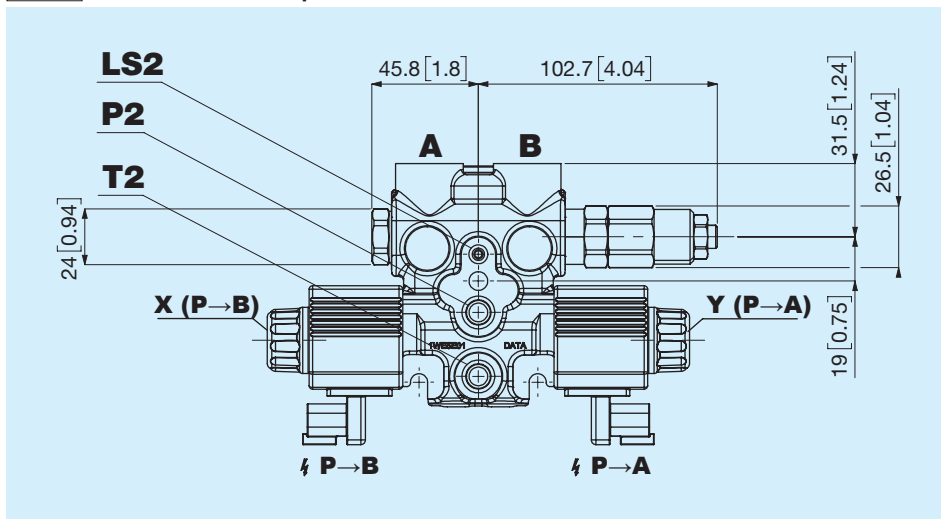
VG VB piloted with two-way restrictor port A



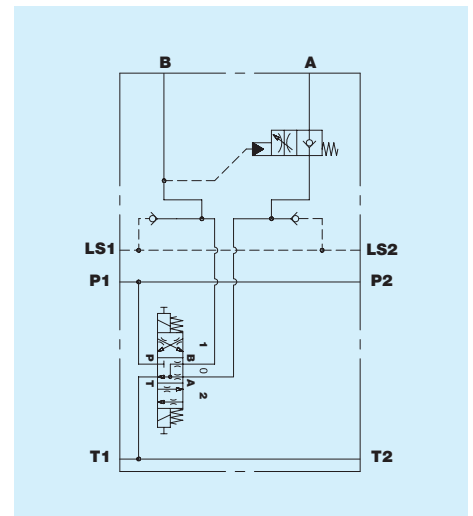
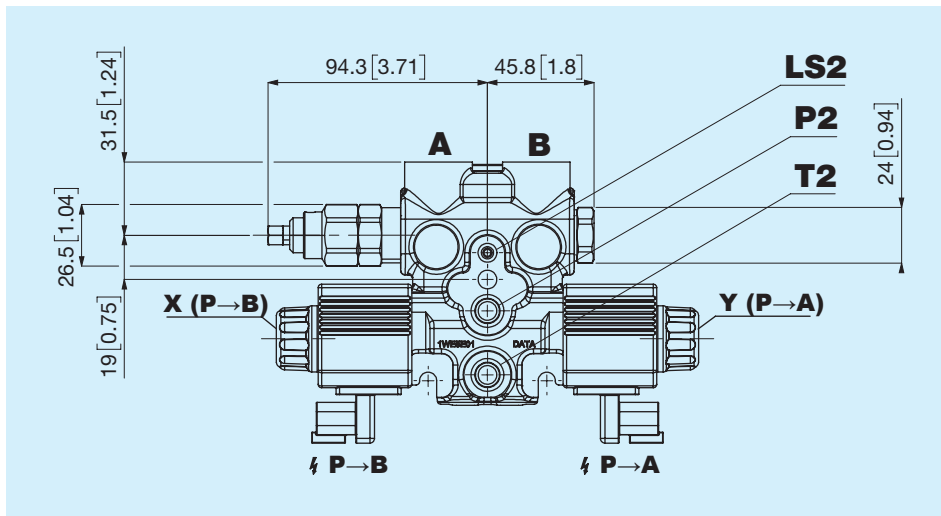
OV Over-center port A



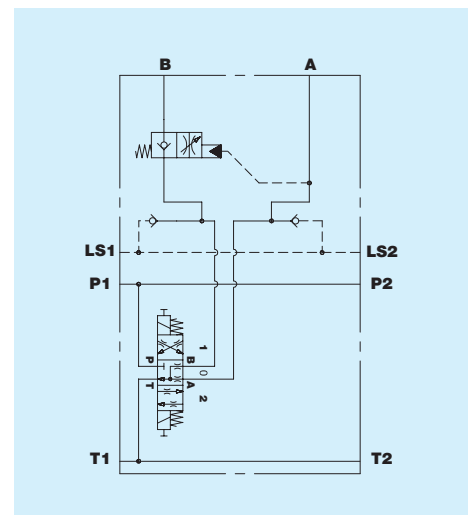
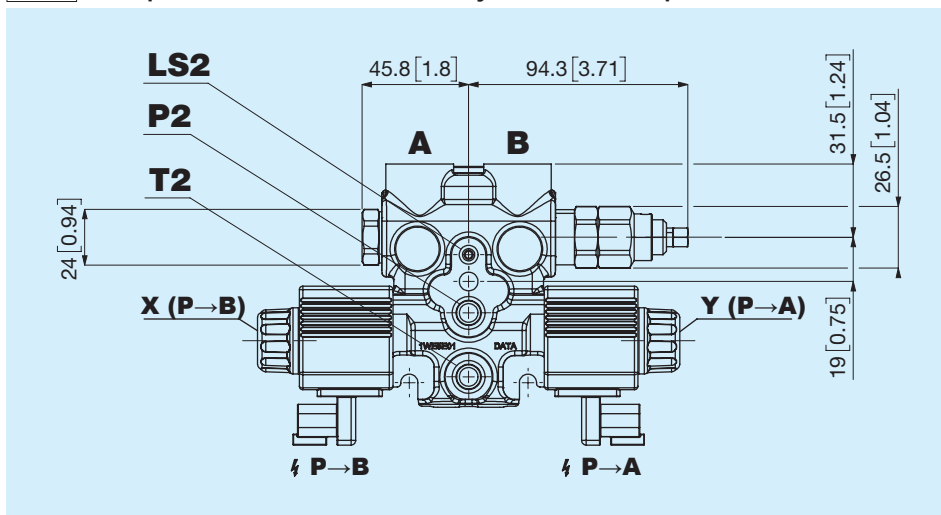
OV Over-center port B



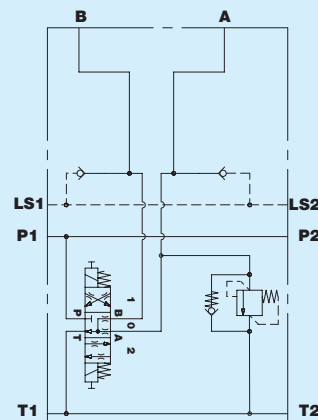
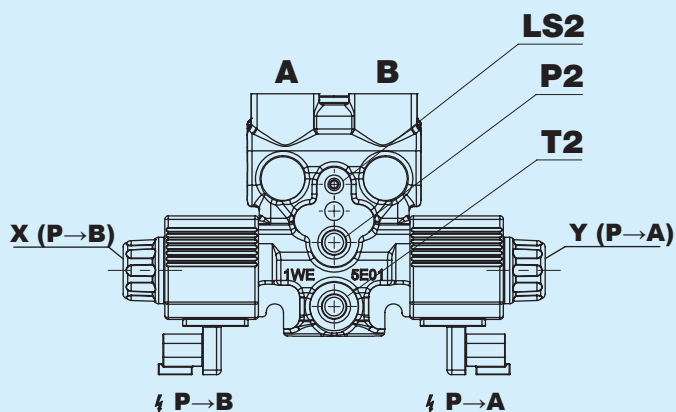
FP VB piloted with one-way restrictor port A



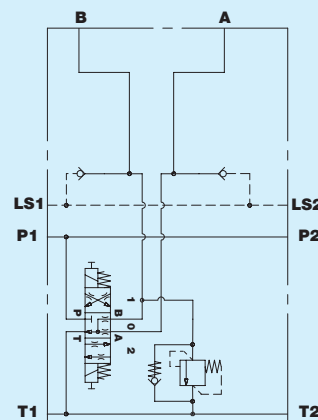
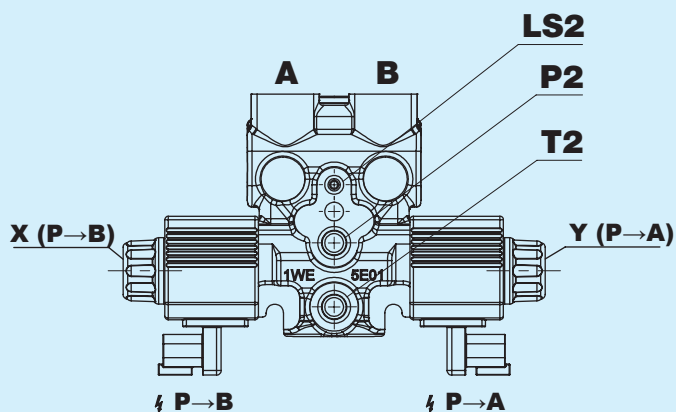
FP VB piloted with one-way restrictor port B



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	FC	VG	OV	FP	RC
NN	•	•	•	•	•	•	•	•	•
VL	•	•	•	•	•	•	•	•	
VB	•	•	•			•			
NE	•	•		•	•				•
FC	•	•		•	•				•
VG	•	•	•			•			
OV	•	•					•		
FP	•	•						•	
RC	•			•	•				•

NN - None

FC - One-way flow regulator

VG - Pilot check valve with two-way restrictor

VB - Pilot check valve

NE - Solenoid operated valve 2/2

OV - Over-center

FP - Pilot check valve with one-way restrictor

VL - Pressure limiting valve

RC - Internal pressure limiter and anticavitation cartridge

1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17	
BW0511BO																																	

1		Configurations	
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	
2 3 4		Spool types	
003		Spool type	
5 6		Flow rate $\Delta P = 18$ bar	
0A		4 l/min - 1.06 US gpm	
0B		9 l/min - 2.37 US gpm	
0C		13 l/min - 3.43 US gpm	
0D		17 l/min - 4.49 US gpm	
0E		21 l/min - 5.54 US gpm	
0F		26 l/min - 6.87 US gpm	
0G		31 l/min - 8.19 US gpm	
0H		37 l/min - 9.77 US gpm	
0I		42 l/min - 11.1 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	
04		VL 40 bar	
05		VL 50 bar	
06		VL 60 bar	
07		VL 70 bar	
08		VL 80 bar	
09		VL 90 bar	
10		VL 100 bar	
11		VL 110 bar	
12		VL 120 bar	
13		VL 130 bar	
14		VL 140 bar	
15		VL 150 bar	
16		VL 160 bar	
17		VL 170 bar	
18		VL 180 bar	
19		VL 190 bar	
20		VL 200 bar	
21		VL 210 bar	
22		VL 220 bar	
23		VL 230 bar	
10 11		VL Pressure limiting valve below port B	
NN		None	
04		VL 40 bar	
05		VL 50 bar	
06		VL 60 bar	
07		VL 70 bar	
08		VL 80 bar	
09		VL 90 bar	
10		VL 100 bar	
11		VL 110 bar	
12		VL 120 bar	
13		VL 130 bar	
14		VL 140 bar	
15		VL 150 bar	
16		VL 160 bar	
17		VL 170 bar	
18		VL 180 bar	
19		VL 190 bar	
20		VL 200 bar	
21		VL 210 bar	
22		VL 220 bar	
23		VL 230 bar	
12 13		Port A valve type	
NN		None	
FC		One-way flow regulator	
VB		Pilot check valve	
VG		Pilot valve piloted with two-way restrictor	
FP		Pilot check valve with one-way restrictor	
NE		Solenoid operated valve 2/2	
OV		Over-center	
RC		Internal pressure limiter and anticavitation cartridge	
14 15		OV/RC calibration pressure port A	
NN		None	
03		30 bar	
04		40 bar	
05		50 bar	
06		60 bar	
07		70 bar	
08		80 bar	
09		90 bar	
10		100 bar	
11		110 bar	
12		120 bar	
13		130 bar	
14		140 bar	
15		150 bar	
16		160 bar	
17		170 bar	
18		180 bar	
19		190 bar	
20		200 bar	
21		210 bar	
22		220 bar	
23		230 bar	
24		240 bar	
25		250 bar	
26		260 bar	
27		270 bar	
16 17		Valve type port B	
NN		None	
FC		One-way flow regulator	
VB		Pilot check valve	
VG		Pilot valve piloted with two-way restrictor	
FP		Pilot check valve with one-way restrictor	
NE		Solenoid operated valve 2/2	
OV		Over-center	
RC		Internal pressure limiter and anticavitation cartridge	

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 coating

A External coating	N None
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