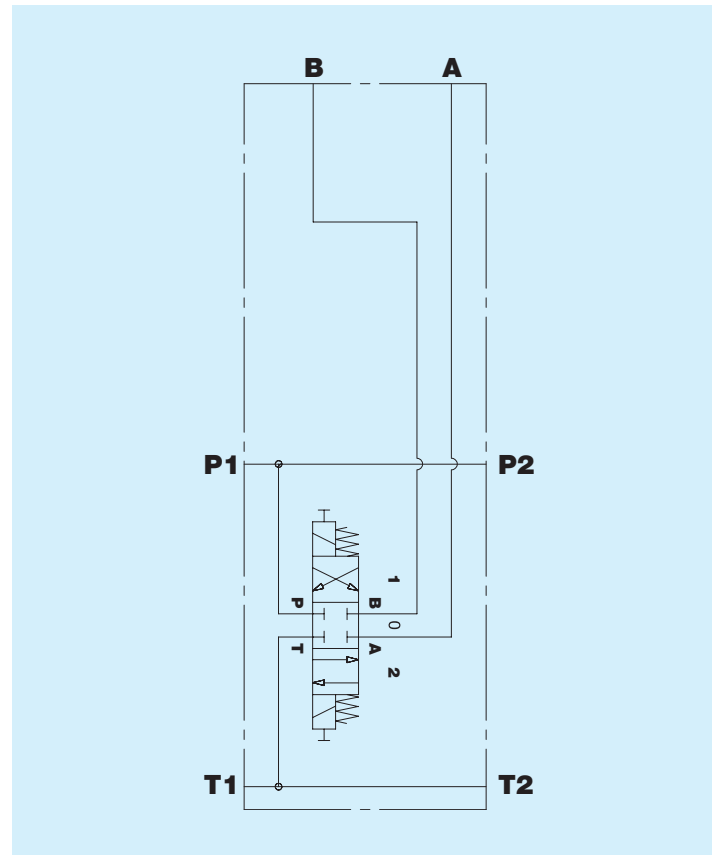


Element 4/3 ON - OFF with Top ports BW0500BO
Interface IBW0500

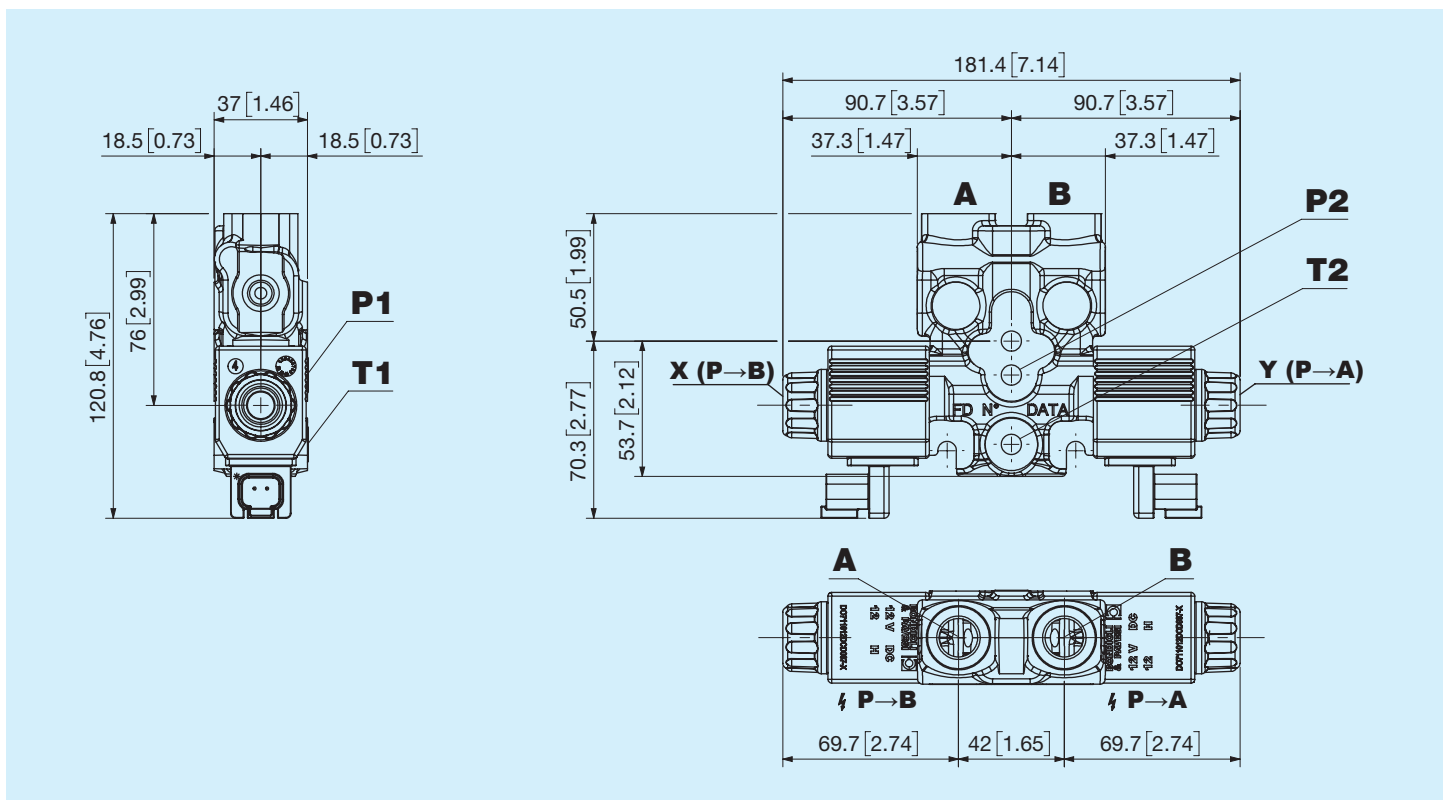


Before use, carefully read the GENERAL INSTRUCTIONS FOR USE OF DIRECTIONAL CONTROL VALVES

Nominal flow	50 l/min 13.2 US gpm
Nominal pressure	250 bar 3625 psi
Maximum tank pressure	50 bar 725 psi
Maximum internal leakage	40 ± 20 cc/min (21 cSt - 100 bar)
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	1.6 kg 3.5 lb
Interface	IBW0500

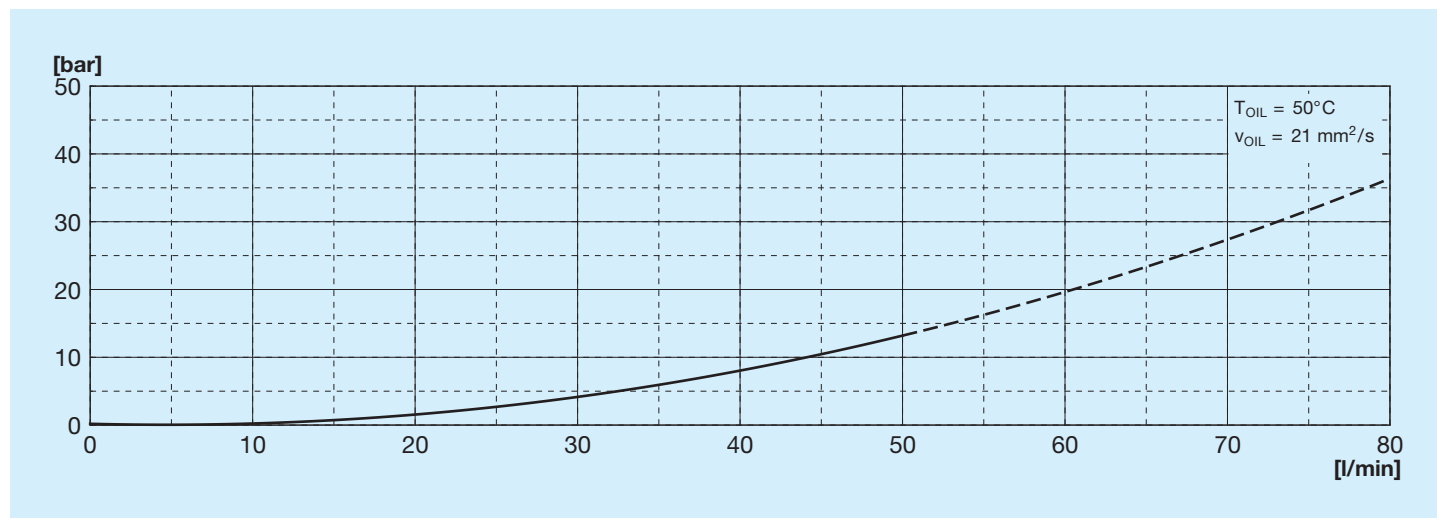


Dimensions

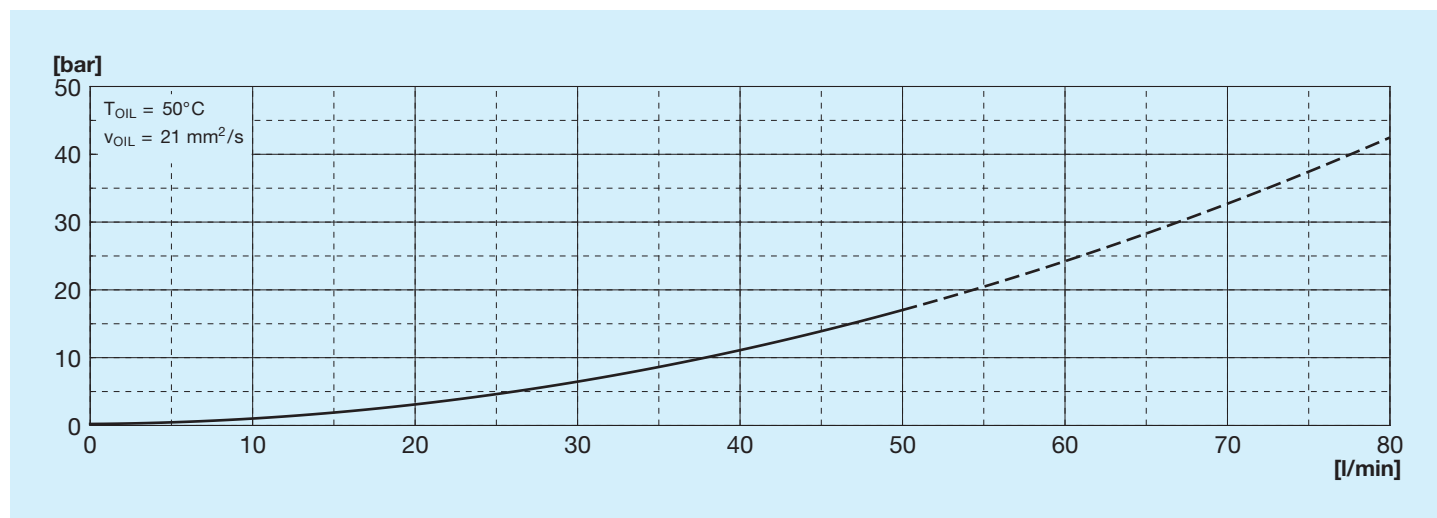


X - Y = Push type manual override

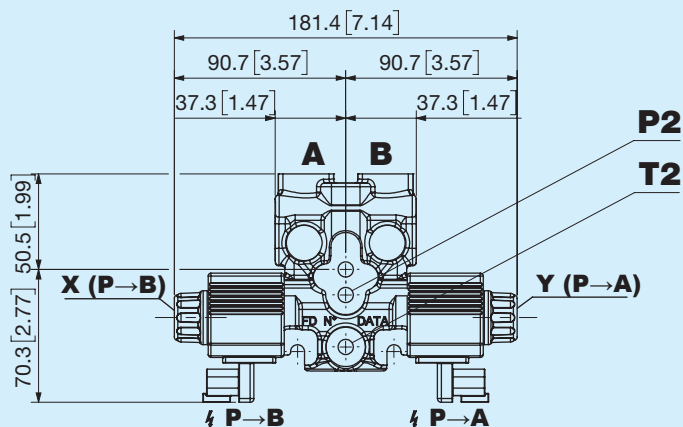
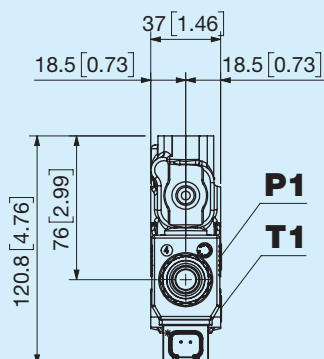
P-A/B flow curve



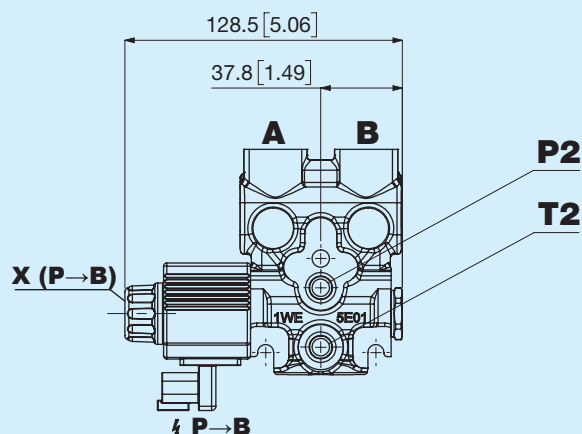
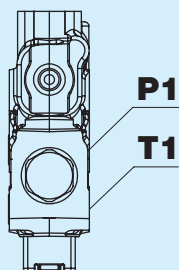
A/B-T flow curve



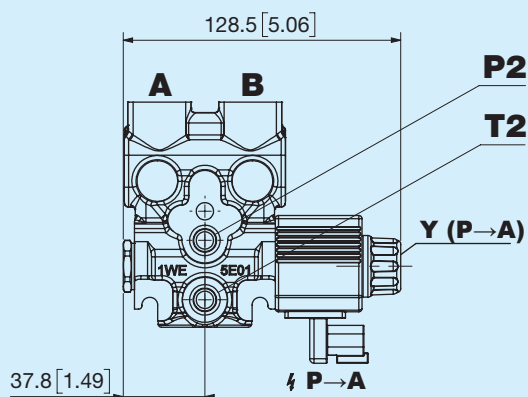
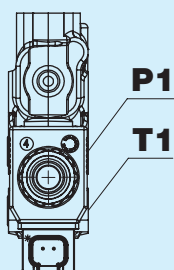
A Two coils, A and B port side



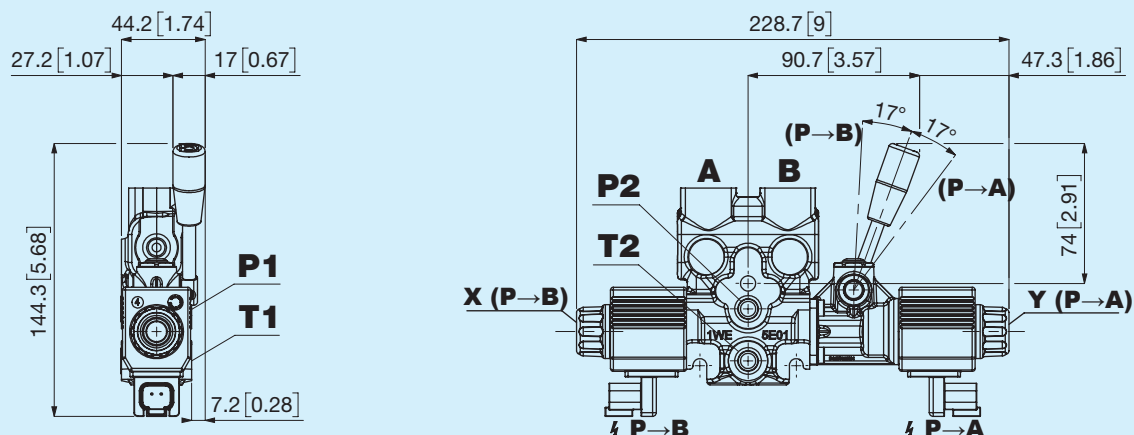
E One coil, A port side



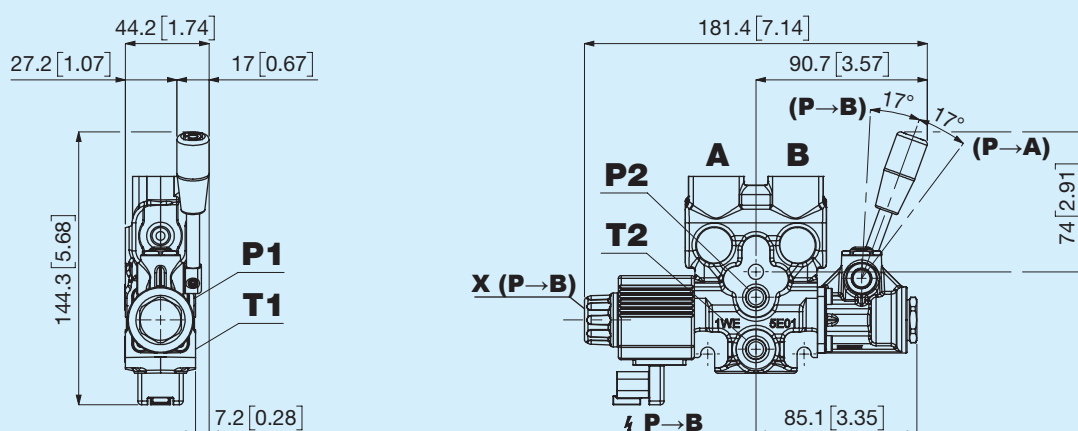
F One coil, B port side



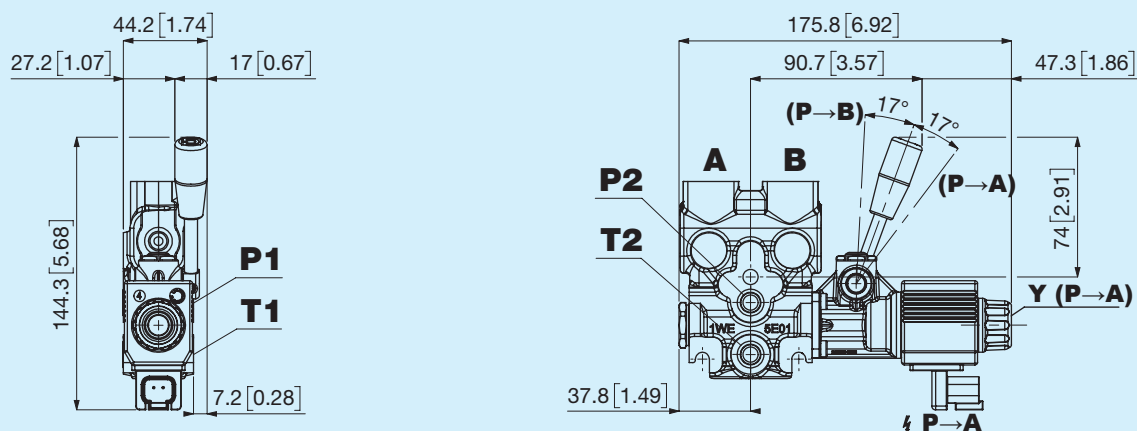
B Two coils, A and B port side and emergency lever



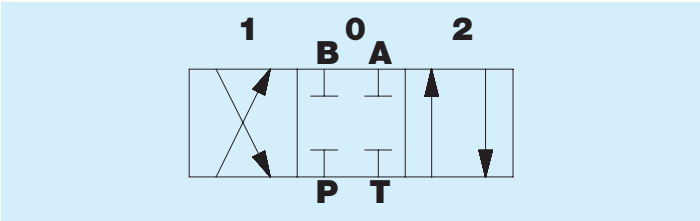
C One coil, A port side and emergency lever



D One coil, B port side and emergency lever



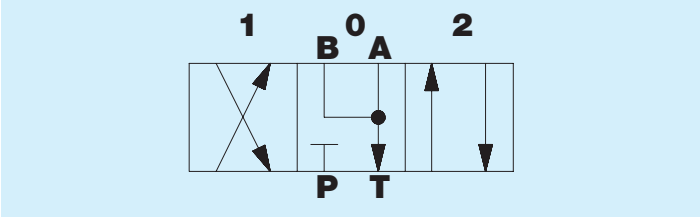
001 Spool type



Positions

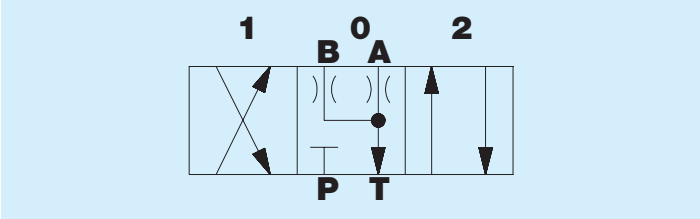
1	0	2
$P \rightarrow A$ $B \rightarrow T$	$P \rightarrow T$ $A \rightarrow B$	$P \rightarrow B$ $A \rightarrow T$

003 Spool type



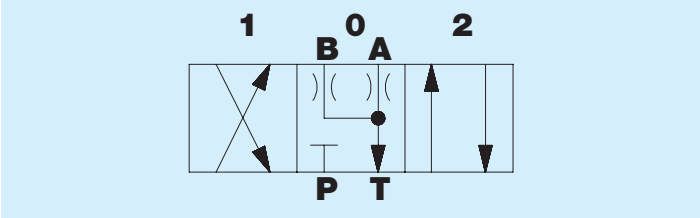
1	0	2
$P \rightarrow A$ $B \rightarrow T$	$A, B \rightarrow T$ $P \rightarrow$	$P \rightarrow B$ $A \rightarrow T$

03S Spool type



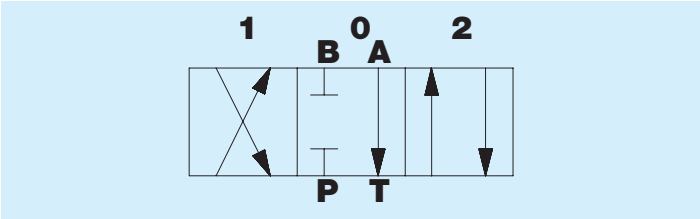
1	0	2
$P \rightarrow A$ $B \rightarrow T$	$A, B \rightarrow T$ $P \rightarrow$	$P \rightarrow B$ $A \rightarrow T$

3SS Spool type



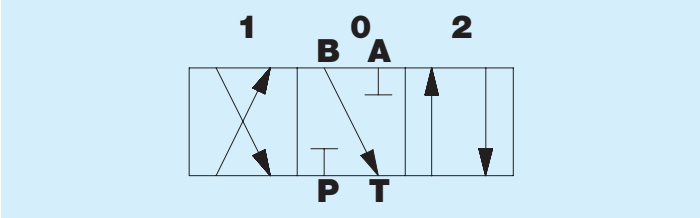
1	0	2
$P \rightarrow A$ $B \rightarrow T$	$A, B \rightarrow T$ $P \rightarrow$	$P \rightarrow B$ $A \rightarrow T$

008 Spool type



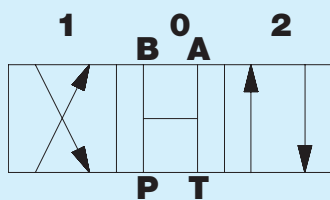
1	0	2
$P \rightarrow A$ $B \rightarrow T$	$A \rightarrow T$ $B, P \rightarrow$	$P \rightarrow B$ $A \rightarrow T$

010 Spool type



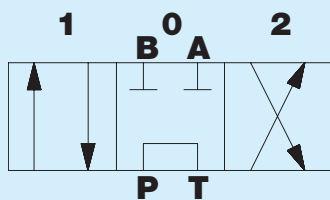
1	0	2
$P \rightarrow A$ $B \rightarrow T$	$B \rightarrow T$ $A, P \rightarrow$	$P \rightarrow B$ $A \rightarrow T$

038 Spool type



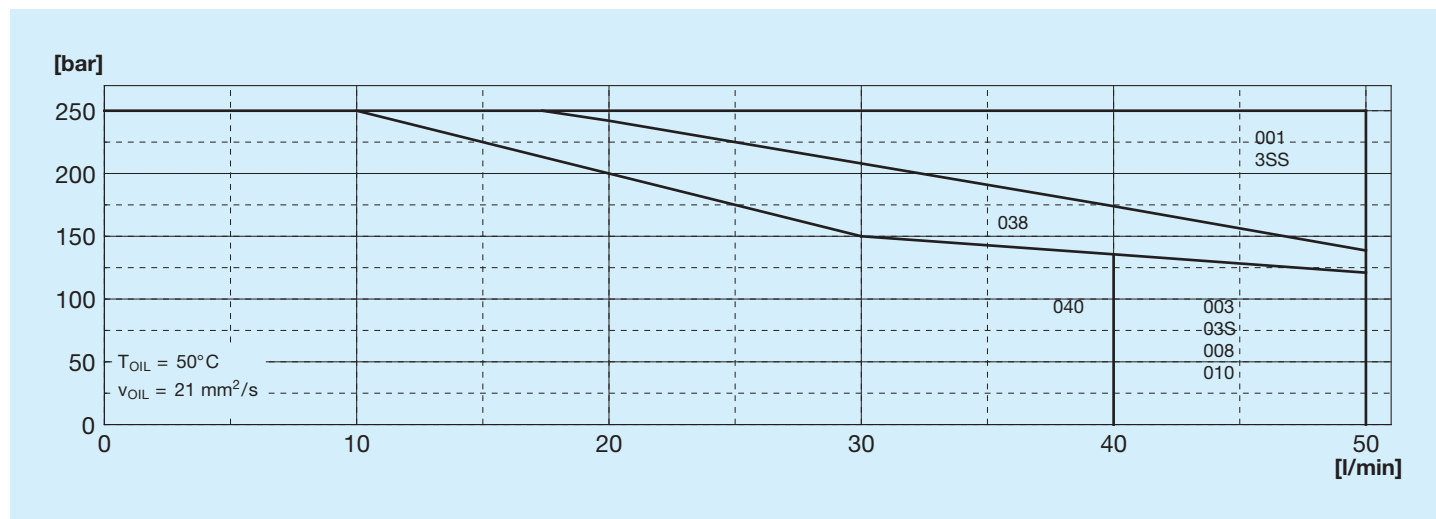
1	0	2
$P \rightarrow A$ $B \rightarrow T$	$P, A, B \rightarrow T$	$P \rightarrow B$ $A \rightarrow T$

040 Spool type



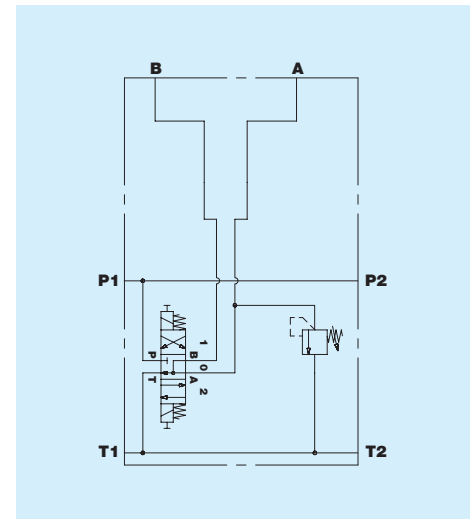
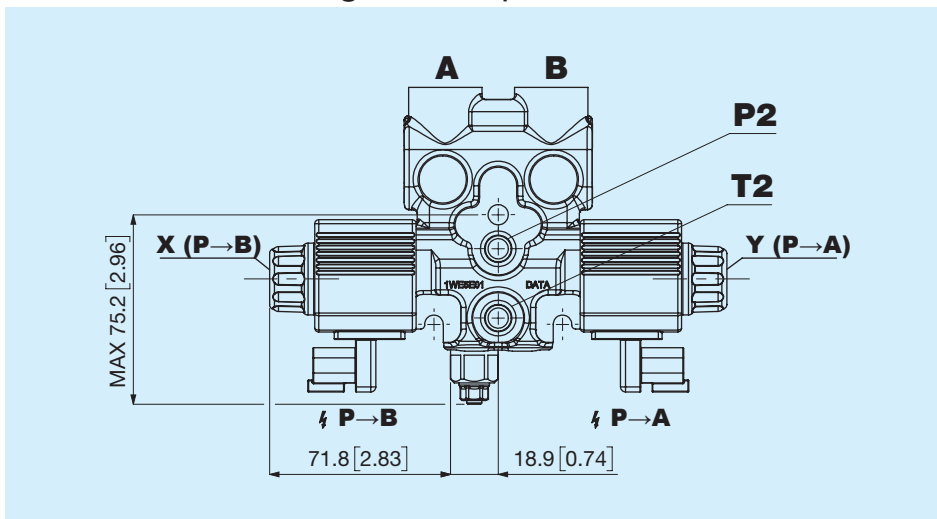
1	0	2
$P \rightarrow B$ $A \rightarrow T$	$P \rightarrow T$ $A, B \rightarrow \text{Blocked}$	$P \rightarrow A$ $B \rightarrow T$

Performance limits for Spool type

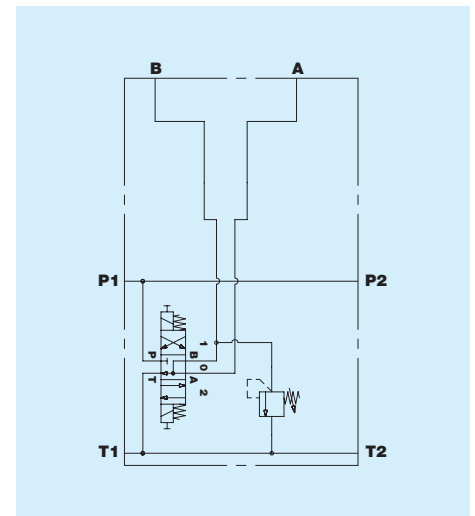
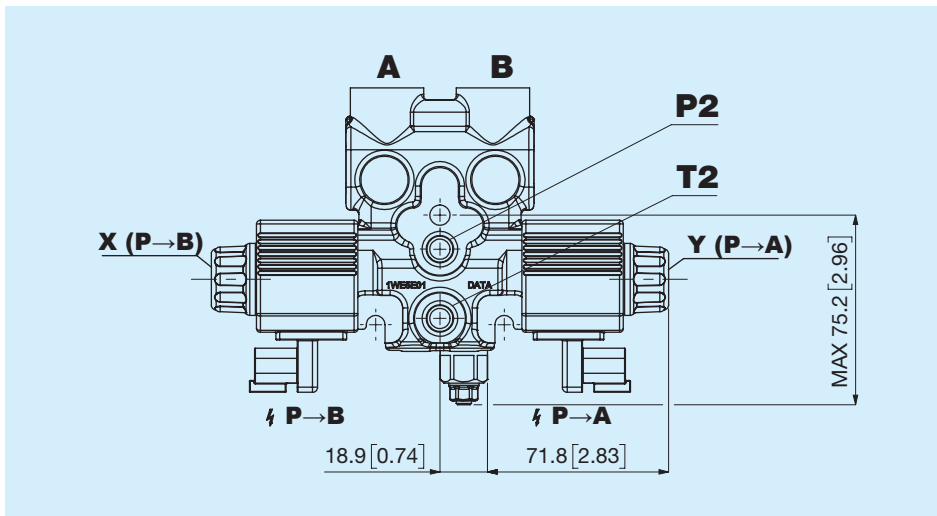


Model	Type	Torque Nm
A	3/8" GAS ISO 1179	40
C	M18x1.5 ISO 9974	40
W	M18x1.5 ISO 6149	40
E	3/4" 16 SAE ISO 11926	50

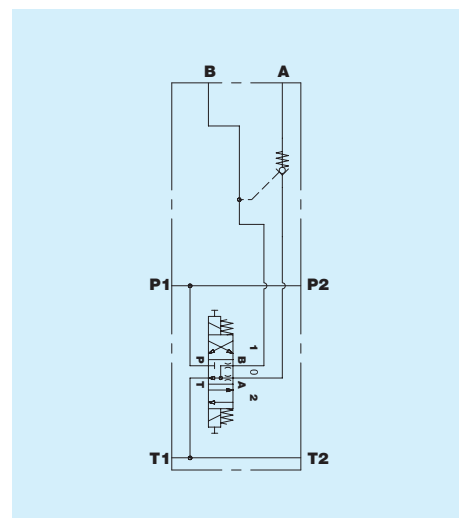
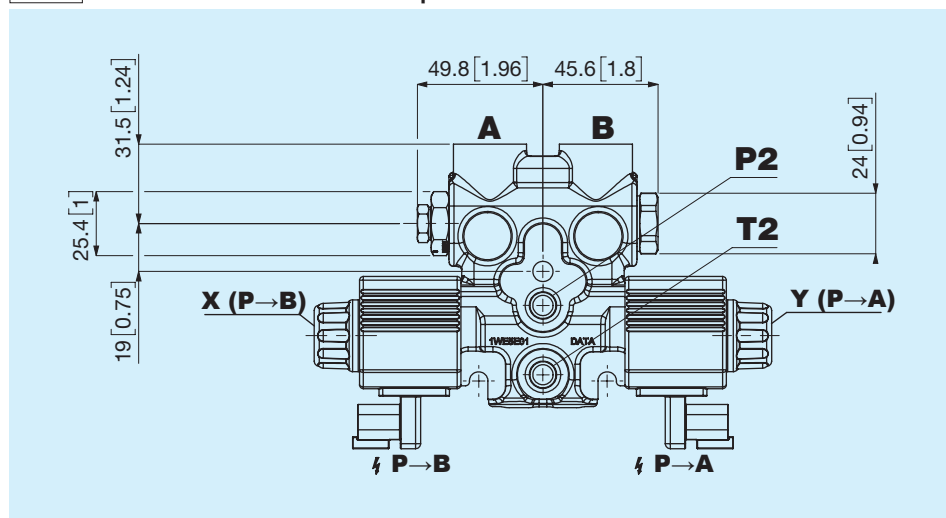
VL - Pressure limiting valve A port



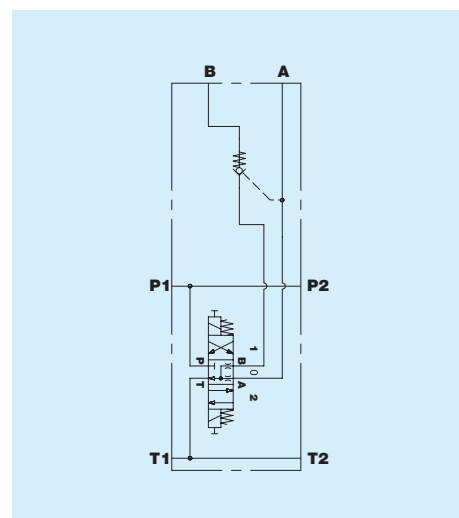
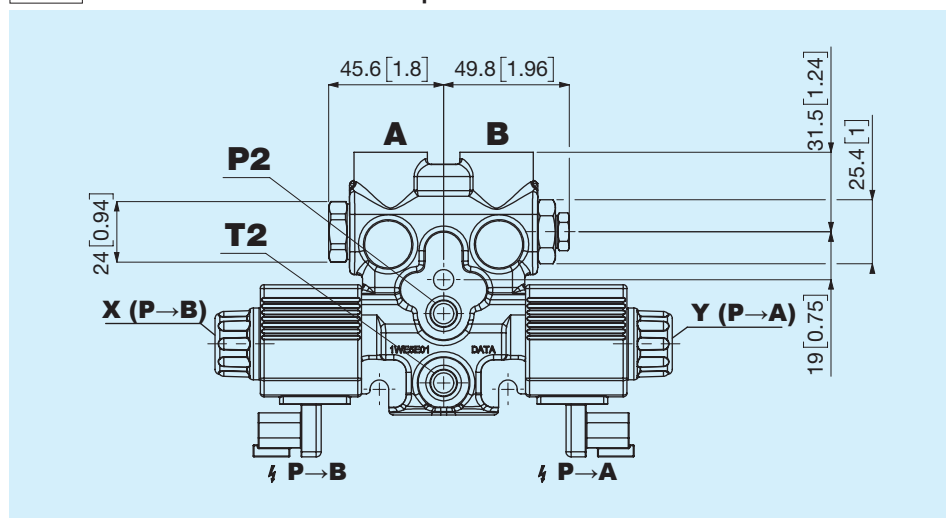
VL - Pressure limiting valve B port



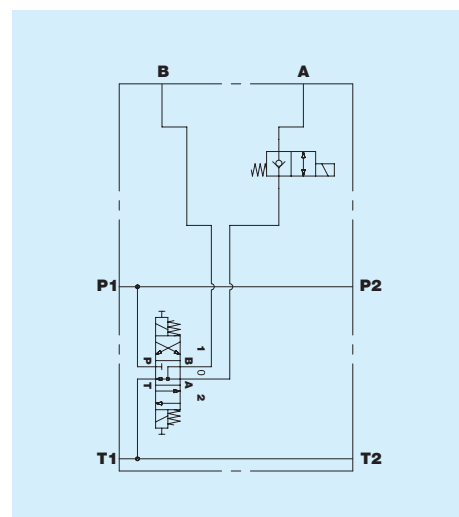
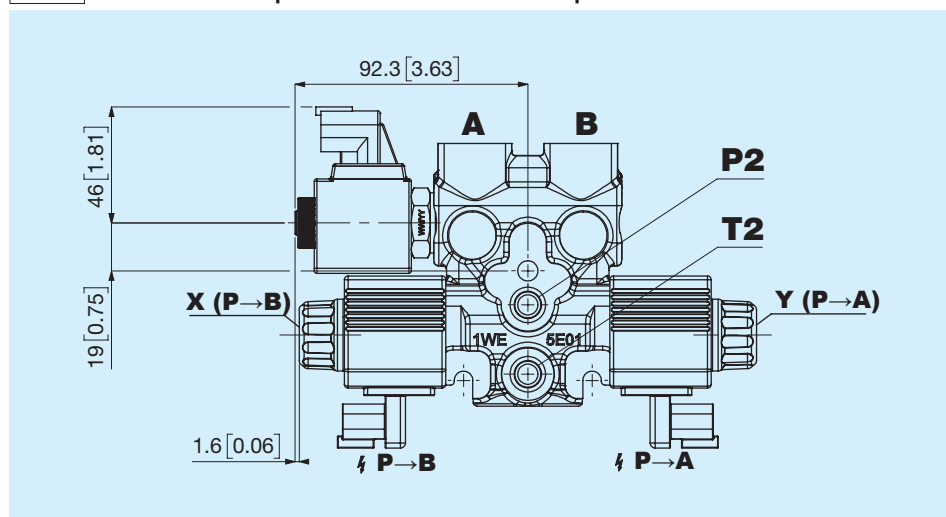
VB Pilot check valve A port



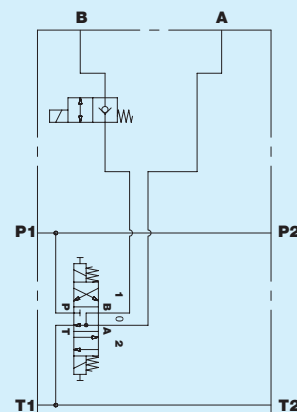
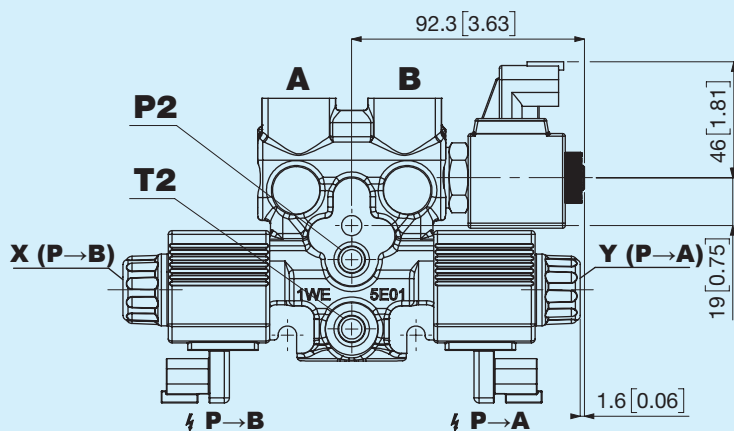
VB Pilot check valve B port



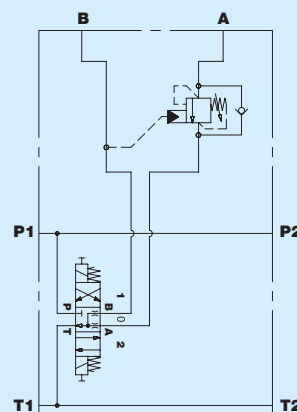
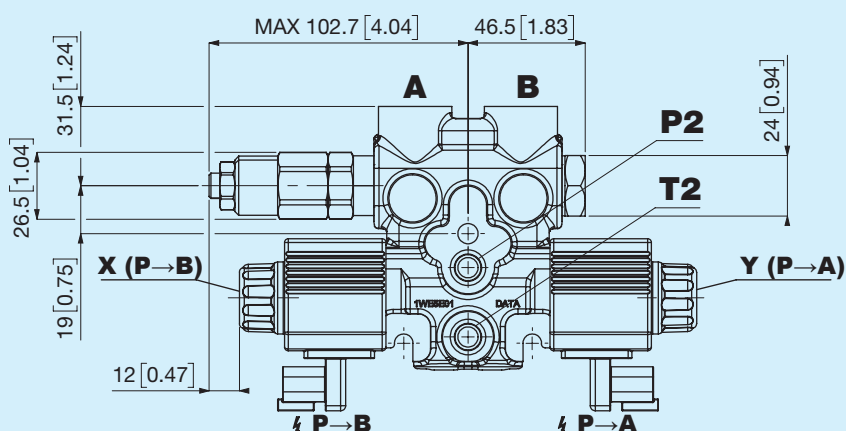
NE Solenoid operated valve 2/2 port A



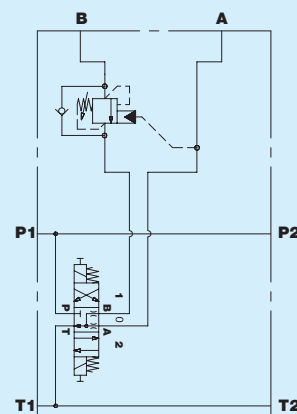
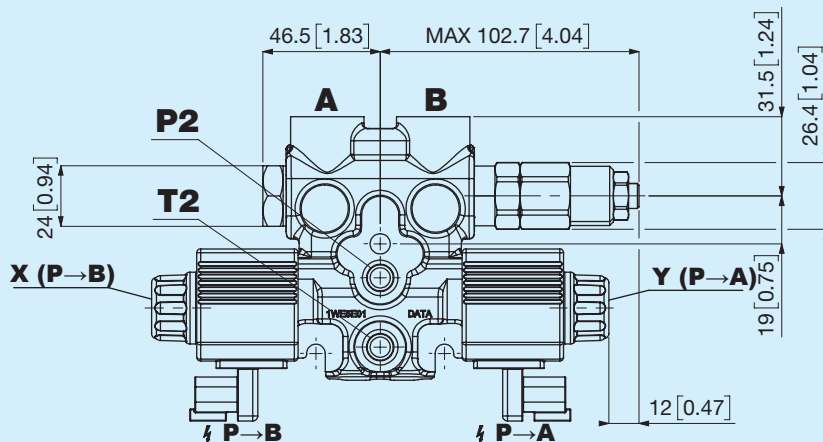
NE Solenoid operated valve 2/2 port B



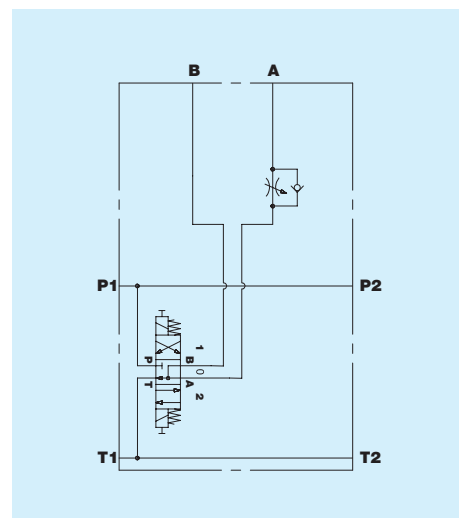
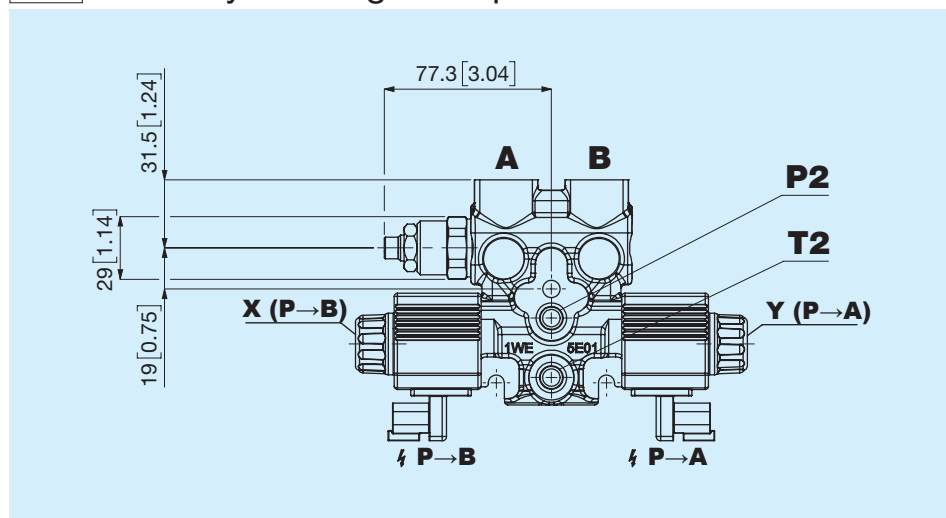
OV Over center port A



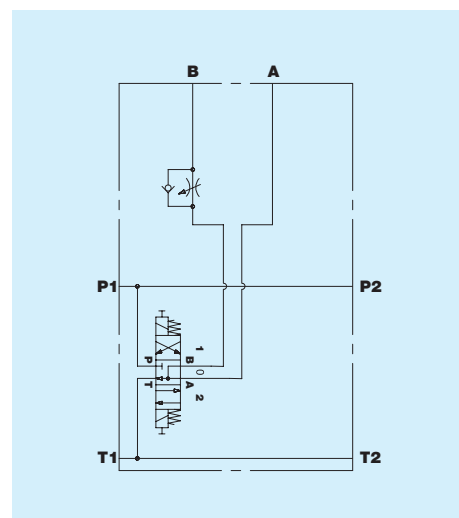
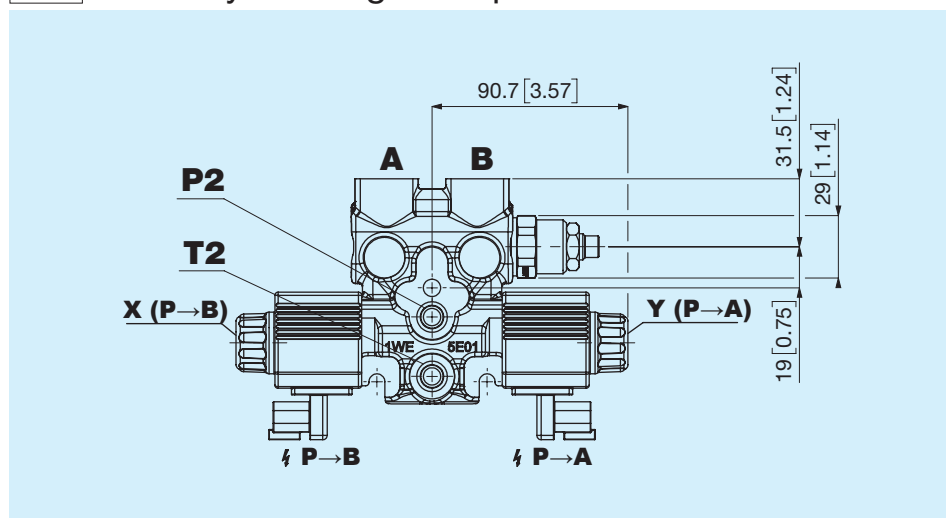
OV Over center port B



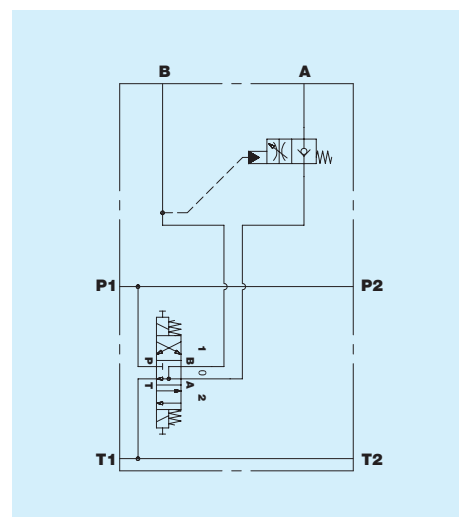
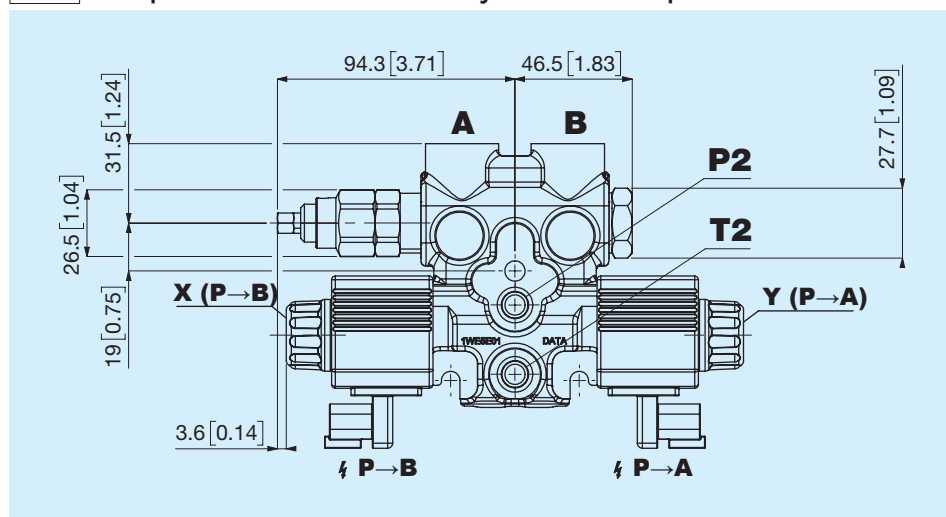
FC One-way flow regulator port A



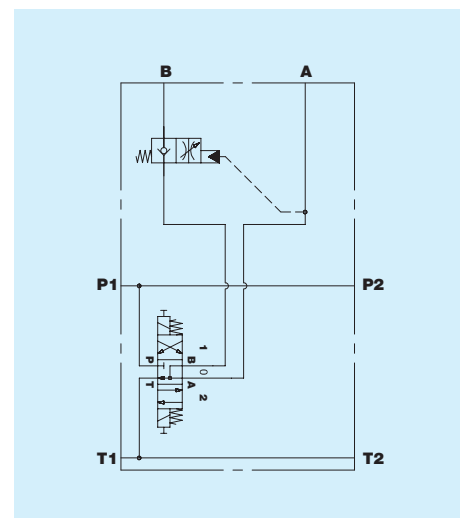
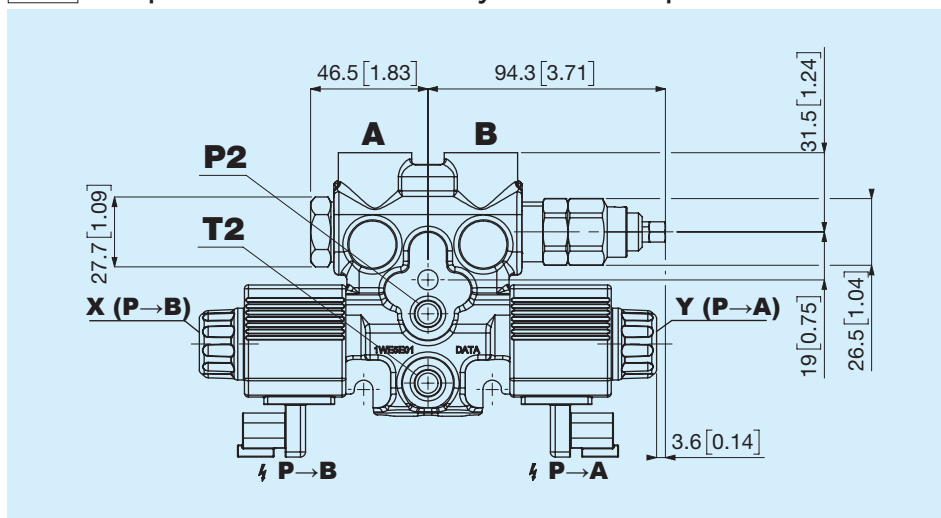
FC One-way flow regulator port B



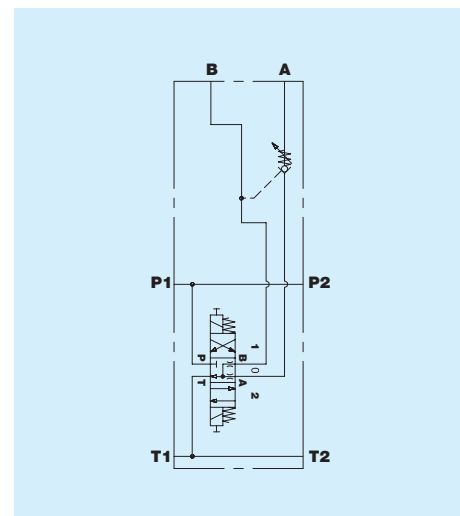
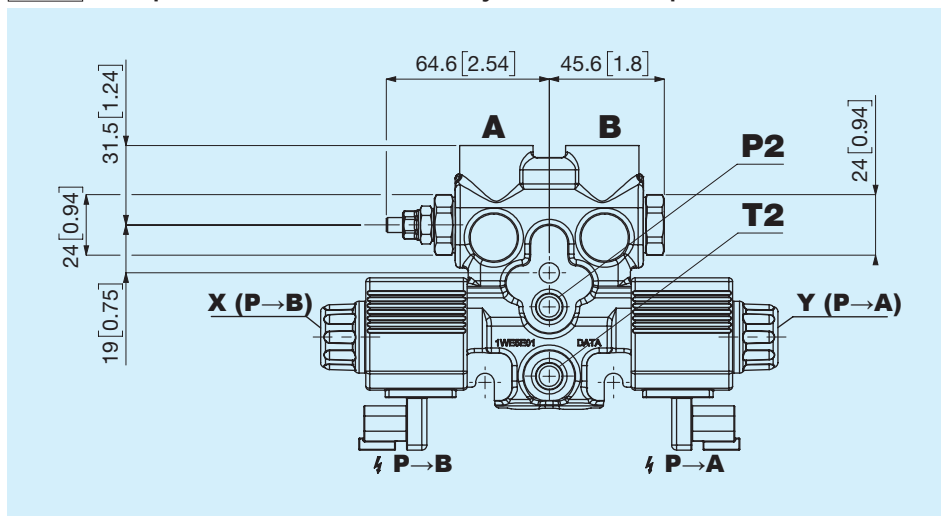
FP VB piloted with one-way restrictor port A



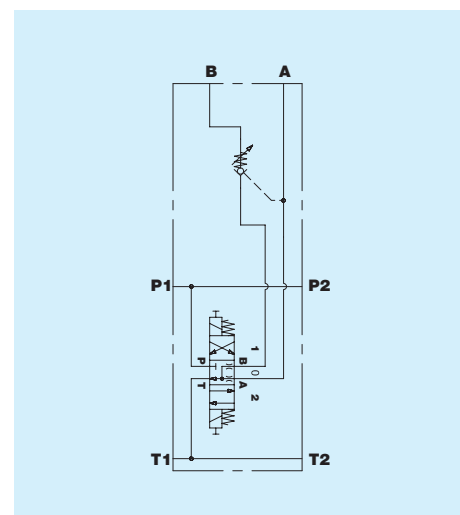
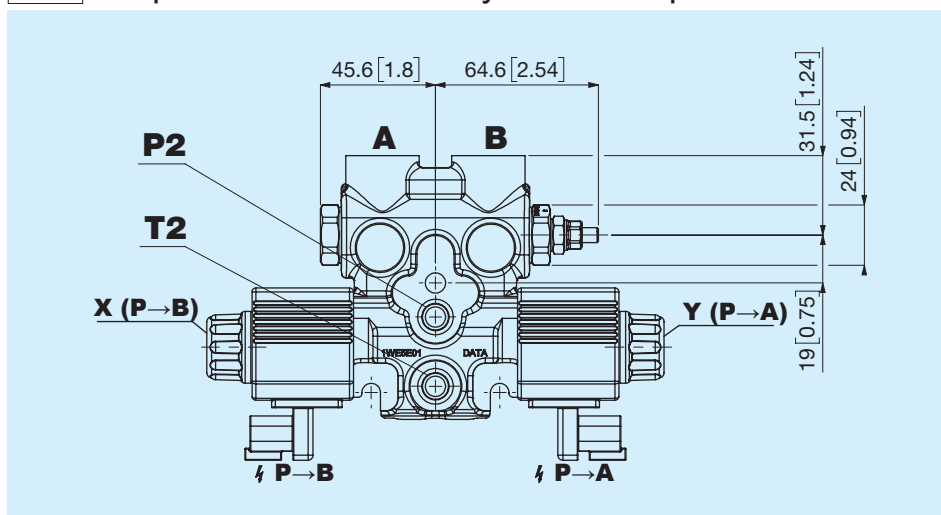
FP VB piloted with one-way restrictor port B



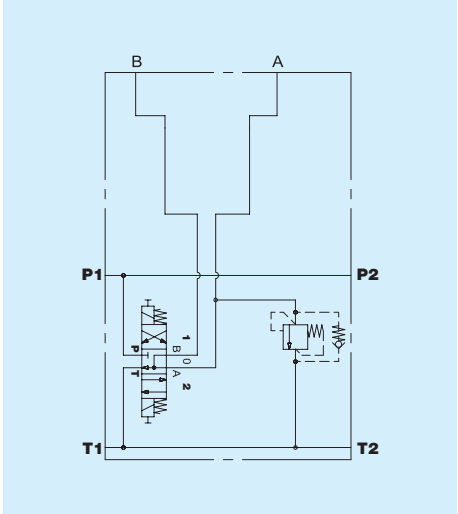
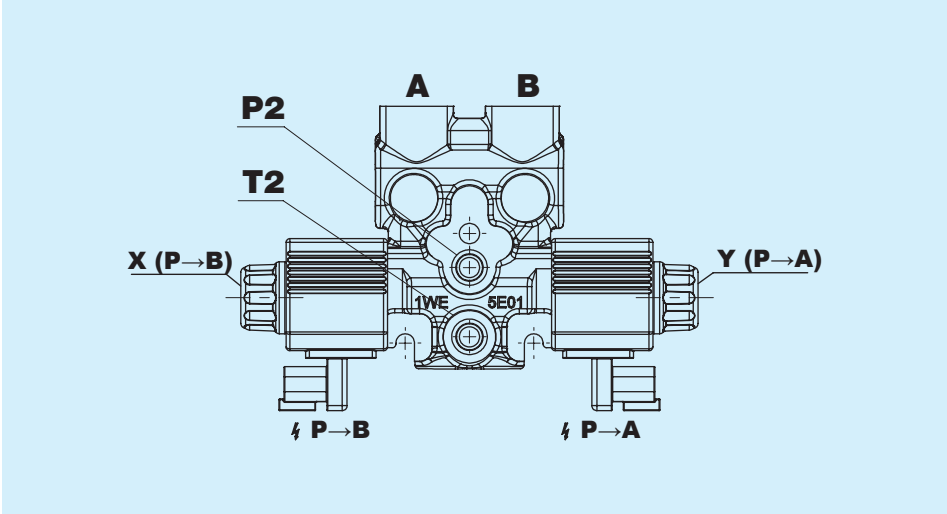
VG VB piloted with two-way restrictor port A



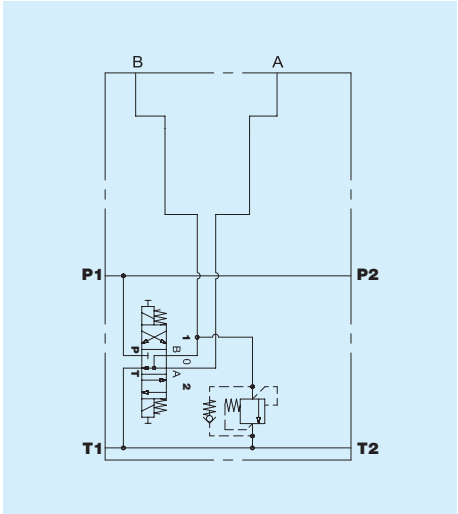
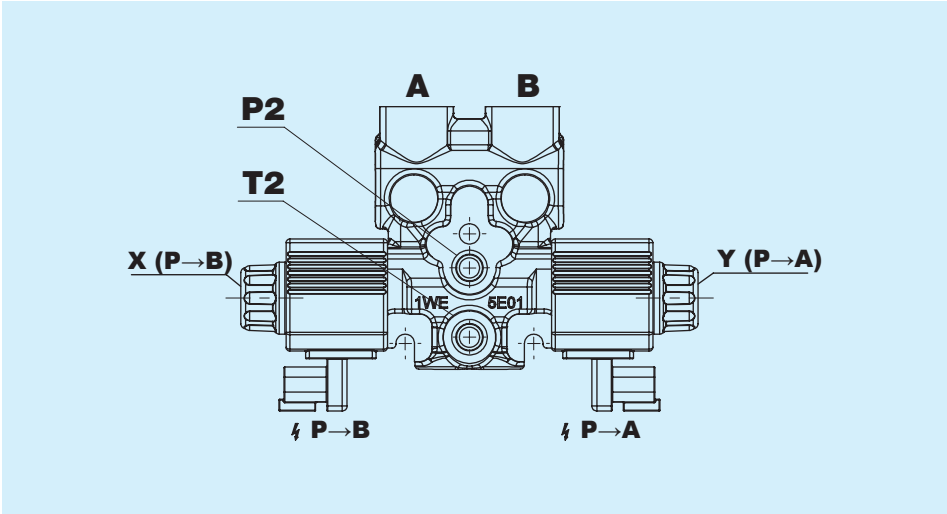
VG VB piloted with two-way restrictor port A



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

NN - None

VL - Pressure limiting valve located below

FC - One-way flow regulator

FP - Pilot check valve with one-way restrictor

NE - Solenoid operated valve 2/2

OV - Over-center

VB - Pilot check valve

VG - Pilot check valve with two-way restrictor

RC - Internal pressure limiter and anticavitation cartridge

BW0500BO	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														
	001 Spool type				03S Spool type				008 Spool type				038 Spool type				
	003 Spool type				3SS Spool type				010 Spool type				040 Spool type				
5	Thread type																
	M Male								F Female								
6	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				
7	8	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								
9	10	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								
11	12	Port A valve type															
	NN None				VB Pilot check valve				FP Pilot check valve with one-way restrictor				RC Internal pressure limiter and anticavitation cartridge				
	FC One-way flow regulator				VG Pilot valve piloted with two-way restrictor				NE Solenoid operated valve 2/2				OV Over-center				
13	14	OV/RC valve calibration port A															
	NN None				08 80 bar				14 140 bar				20 200 bar				
	03 30 bar				09 90 bar				15 150 bar				21 210 bar				
	04 40 bar				10 100 bar				16 160 bar				22 220 bar				
	05 50 bar				11 110 bar				17 170 bar				23 230 bar				
	06 60 bar				12 120 bar				18 180 bar				24 240 bar				
	07 70 bar				13 130 bar				19 190 bar				25 250 bar				
15	16	Valve type port B															
	NN None				VB Pilot check valve				FP Pilot check valve with one-way restrictor				RC Internal pressure limiter and anticavitation cartridge				
	FC One-way flow regulator				VG Pilot valve piloted with two-way restrictor				NE Solenoid operated valve 2/2				OV Over-center				

18

19

20

17

18

OV/RC valve calibration port B

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

19

Voltage and connector

A 12V DIN 43650	B 24V DIN 43650	G 12V Deutsch	H 24V Deutsch
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20

External coating

A External coating	N None
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