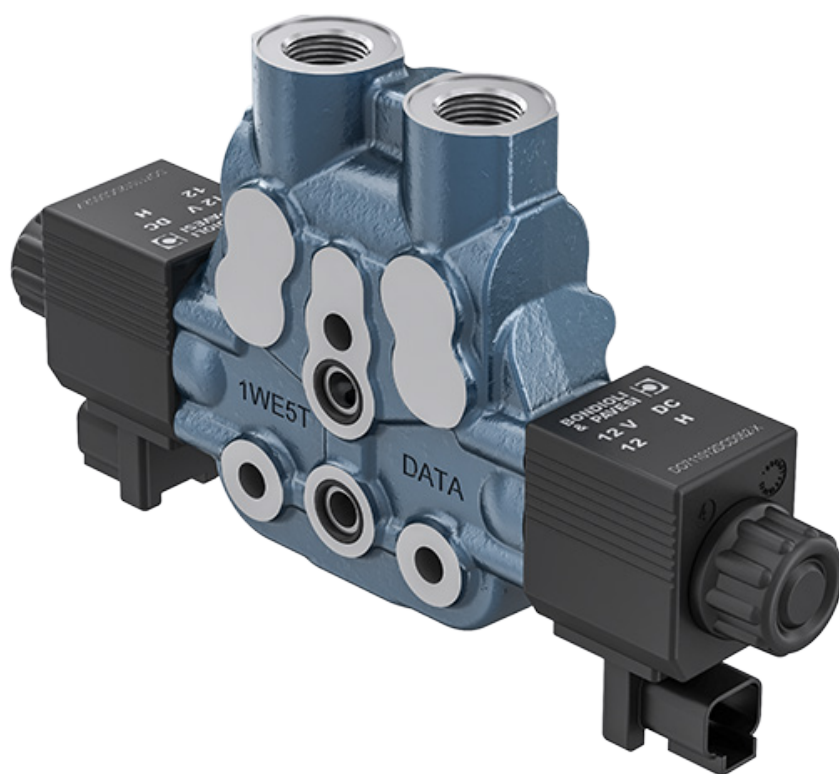
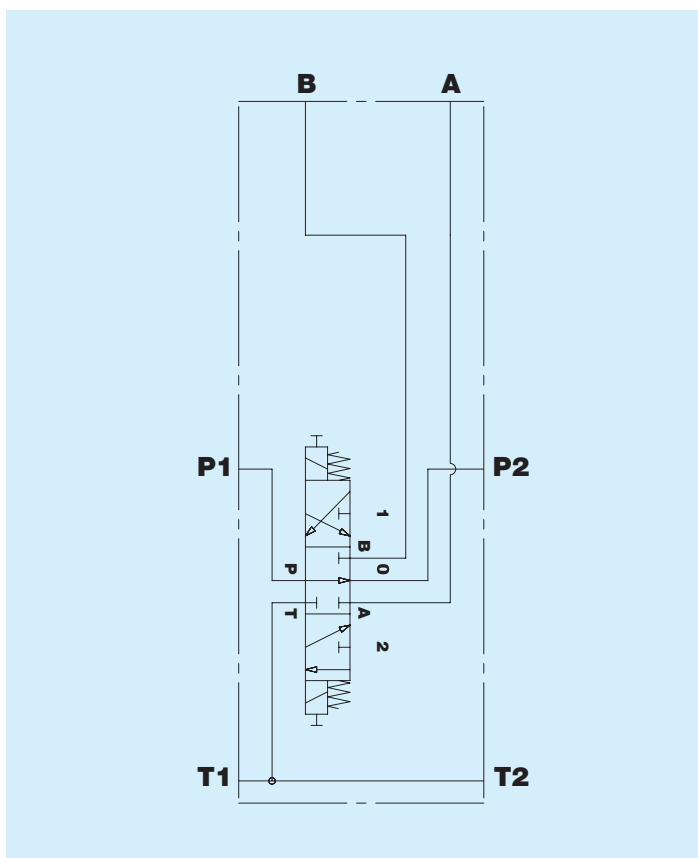


BW0500TO Element 5/3 ON-OFF tandem Interface IBW0500

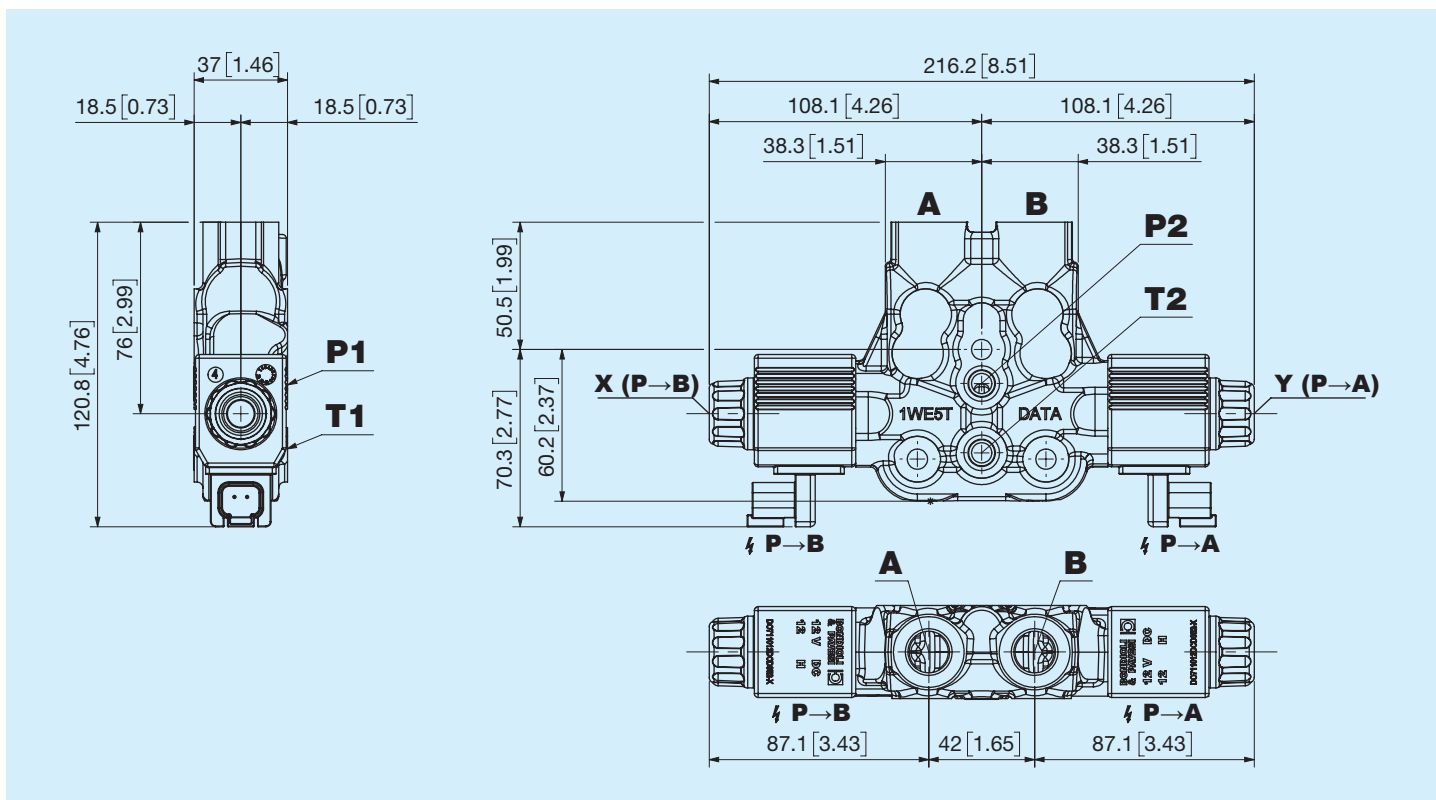


Before use, carefully read the GENERAL INSTRUCTIONS FOR USE OF DIRECTIONAL CONTROL VALVES

Nominal flow	35 l/min 9.24 US gpm
Nominal pressure	210 bar 3045 psi
Maximum tank pressure	50 bar 725 psi
Internal leakage	60 ± 15 cc/min
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

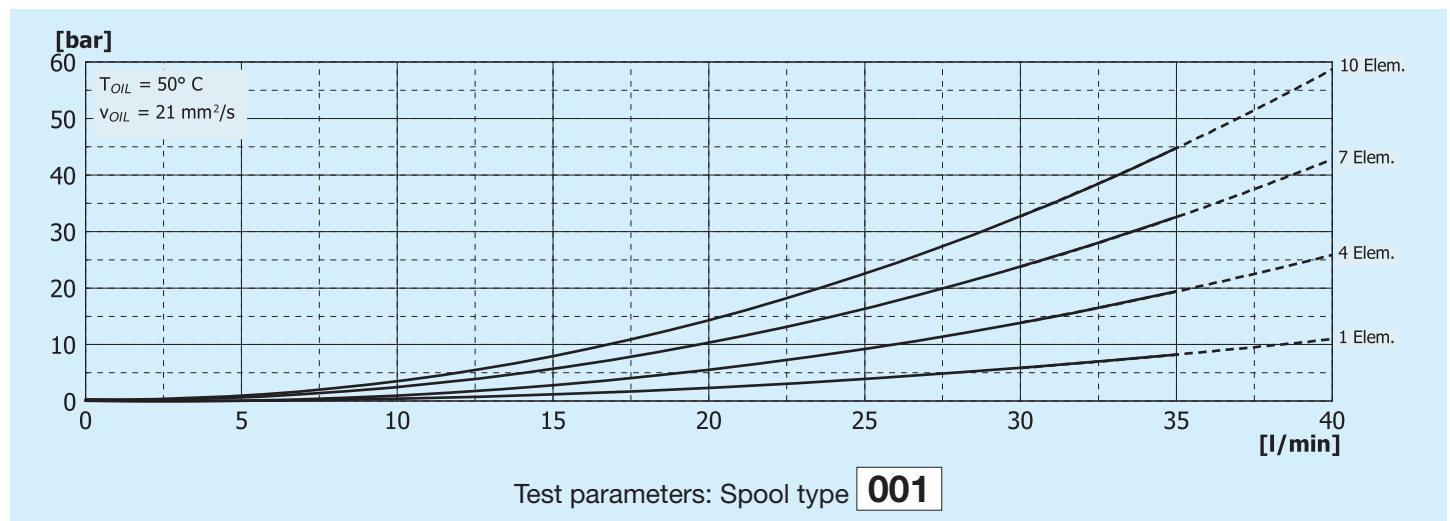


Overall dimensions

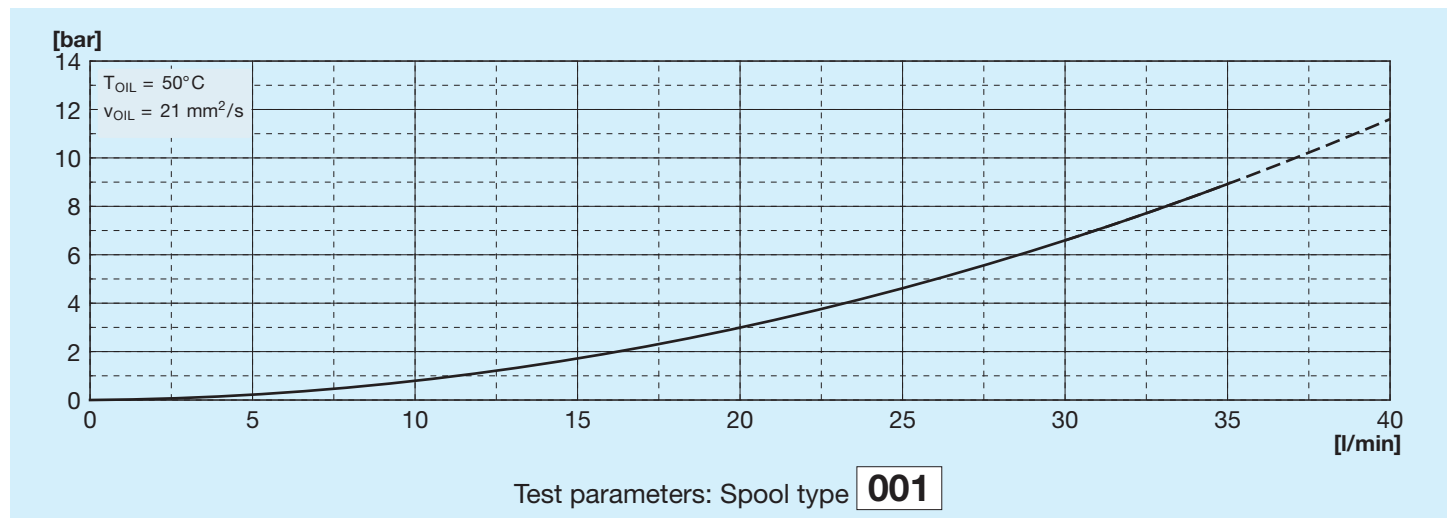


X - Y = Push type manual override

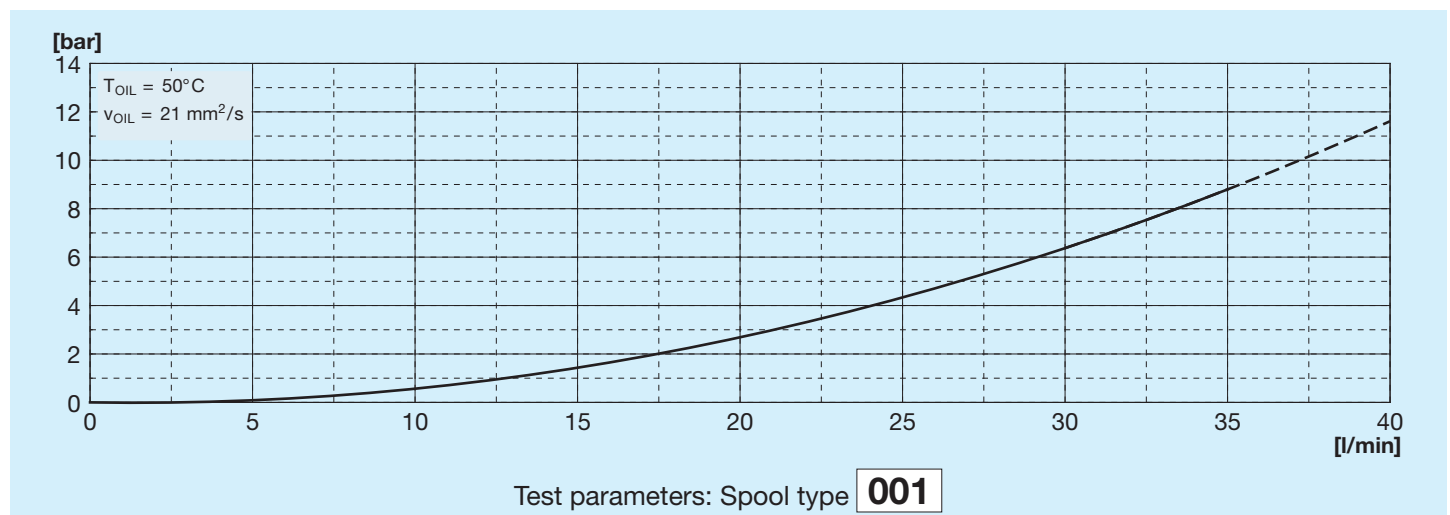
Pressure drops P-T



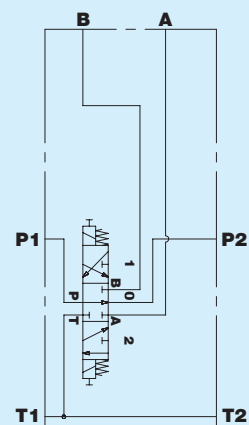
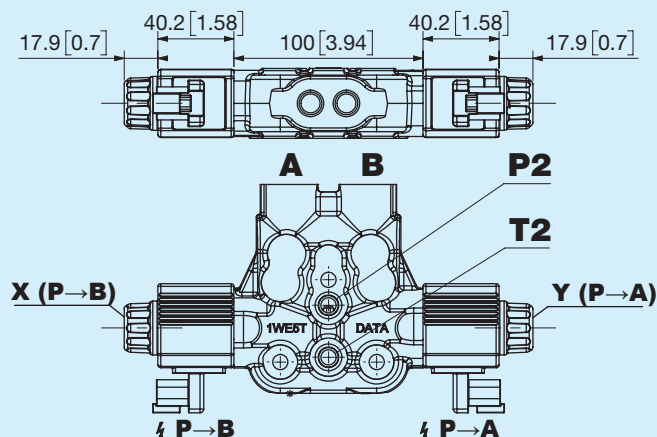
Pressure drop P-A/B



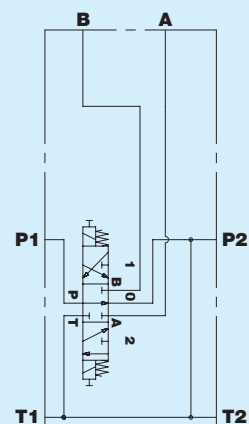
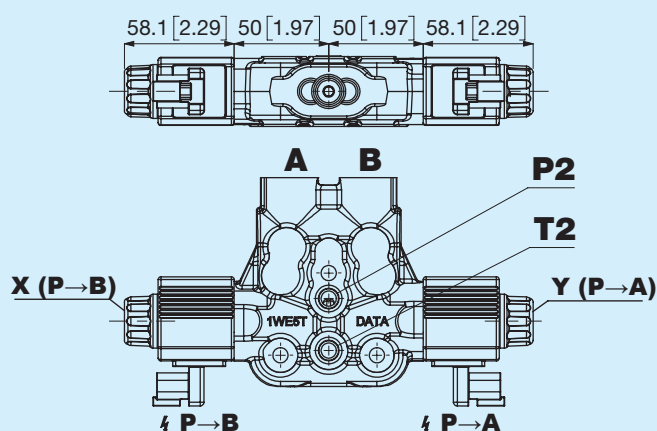
Pressure drop A/B-T



A Tandem



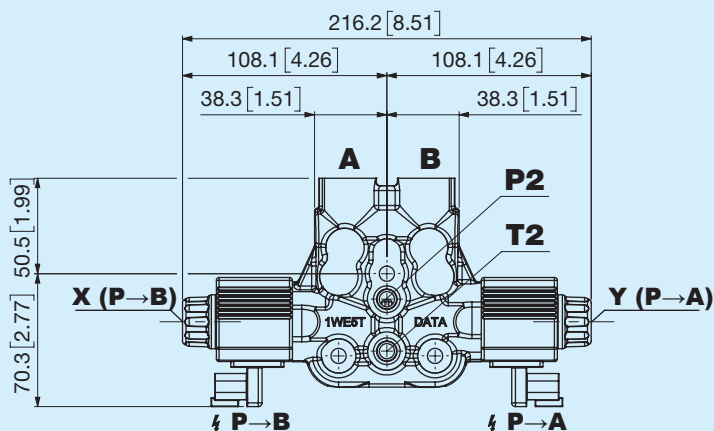
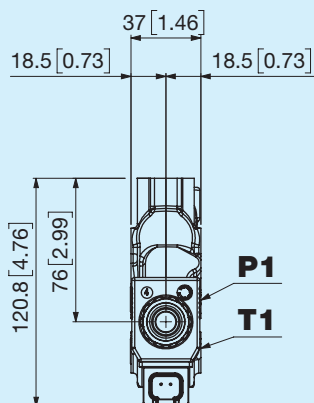
B Closing element



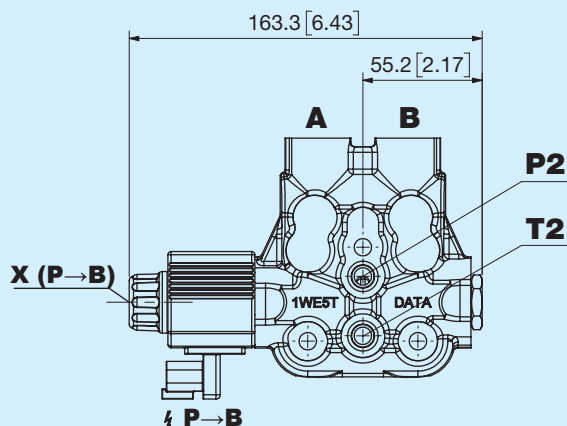
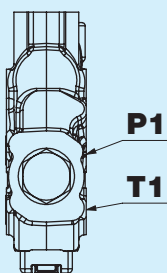
Electrical characteristics of ON-OFF actuation coils

Voltage	12	24	V (± 10%)
Resistance Cu 20°C	4,5	19,4	Ω (± 7%)
Nominal current	2,7	1,24	A
Power	32	30	W

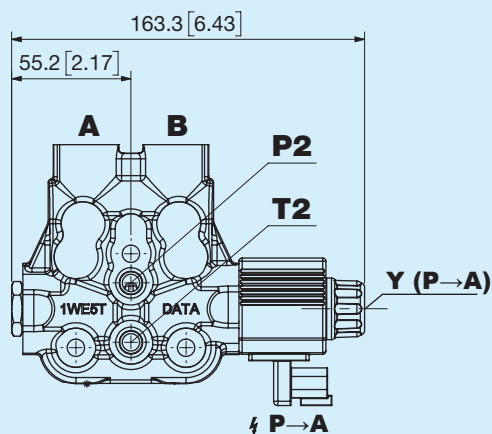
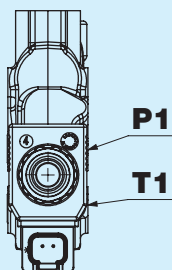
A Two coils port side A and B



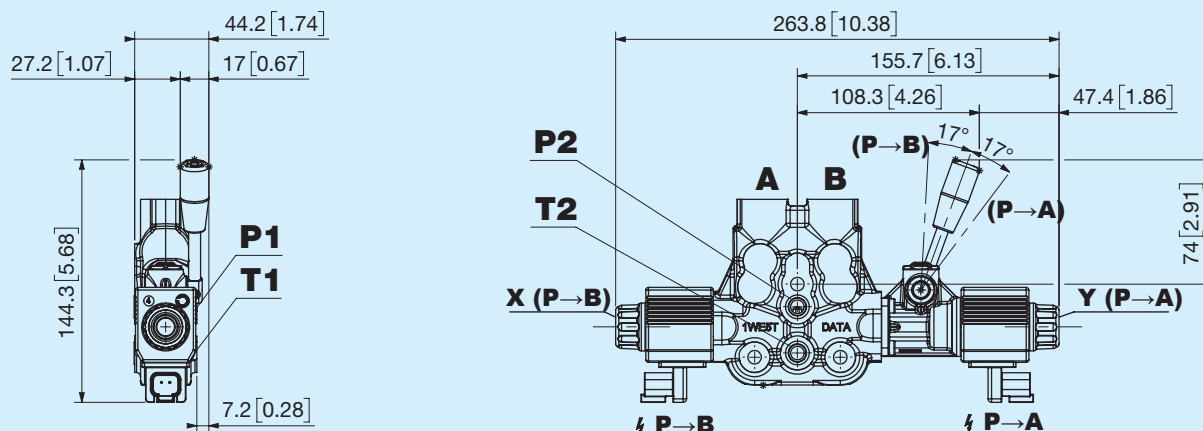
E One coil port side A



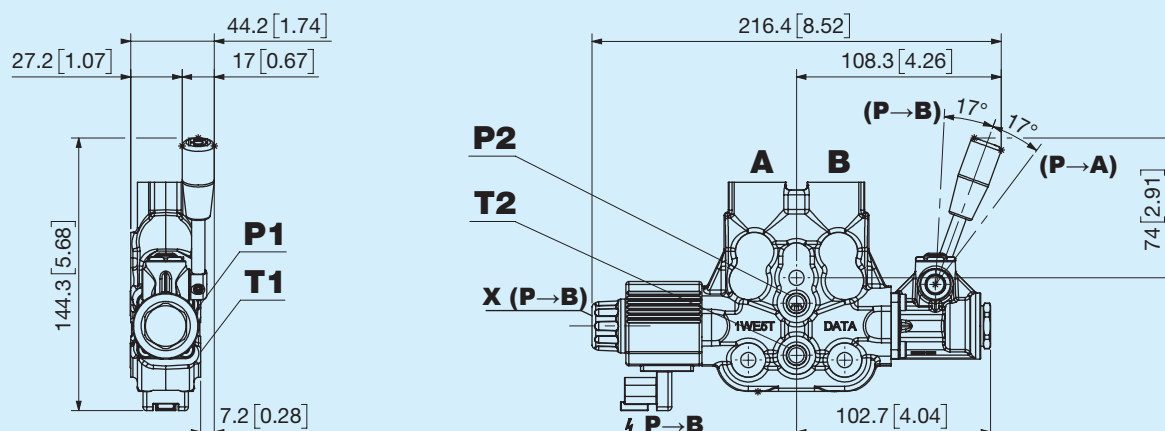
F One coil port side B



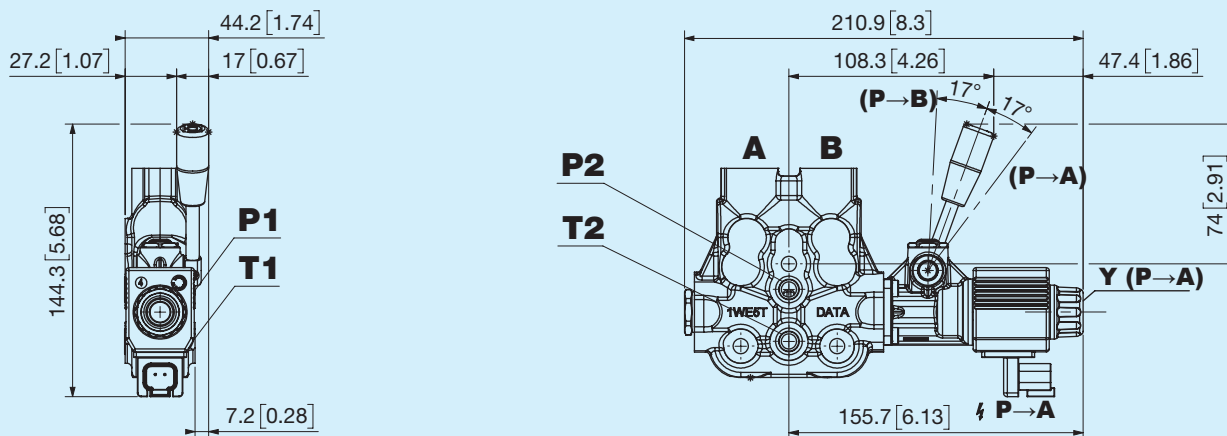
B Two coils A and B port side with lever override



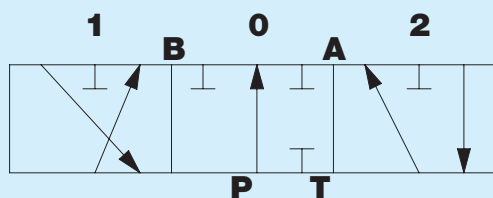
C One coil port side A with lever override



D One coil port side B with lever override



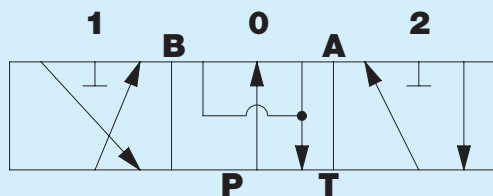
001 Spool types



Positions

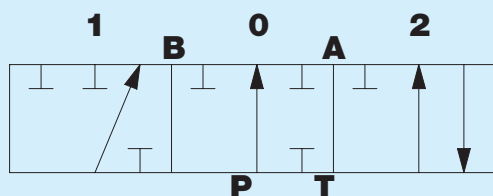
1	0	2
$P \rightarrow A$ $B \rightarrow T$ $BP \rightarrow$	$A, B, T \rightarrow$ $BP \rightarrow$	$P \rightarrow B$ $A \rightarrow T$ $BP \rightarrow$

003 Spool types



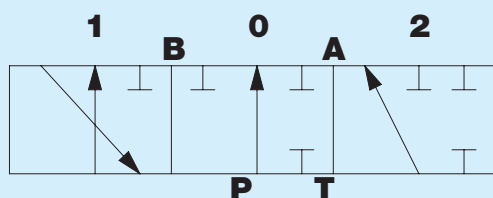
1	0	2
$P \rightarrow A$ $B \rightarrow T$ $BP \rightarrow$	$A, B \rightarrow T$ $BP \rightarrow$	$P \rightarrow B$ $A \rightarrow T$ $BP \rightarrow$

004 Spool types



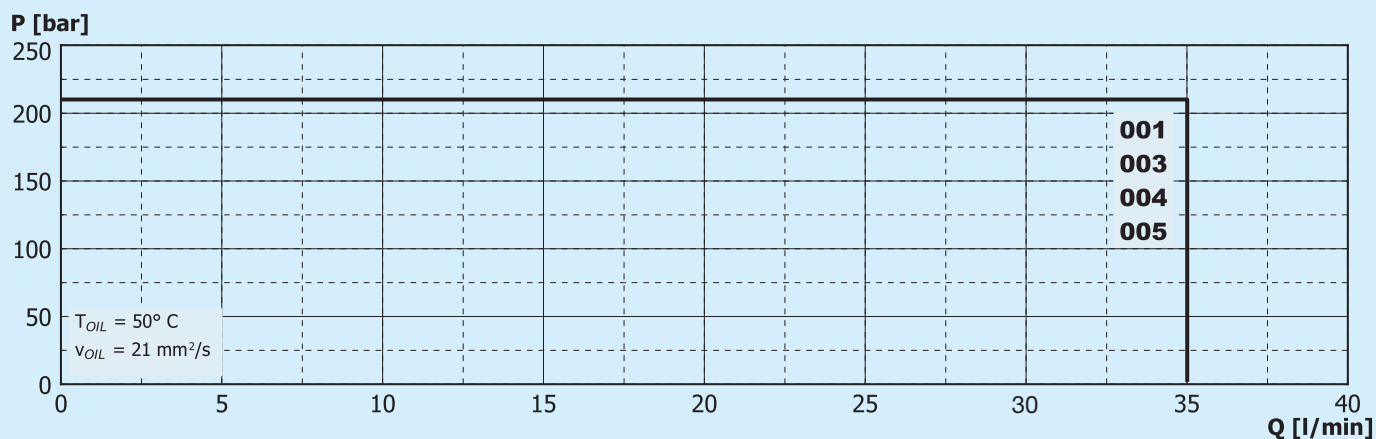
1	0	2
$P \rightarrow A$ $B, T, BP \rightarrow$	$A, B, T \rightarrow$ $BP \rightarrow$	$B \rightarrow$ $A \rightarrow T$ $BP \rightarrow$

005 Spool types



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

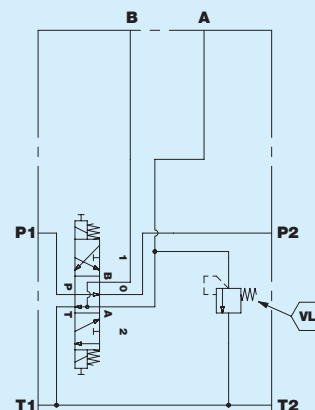
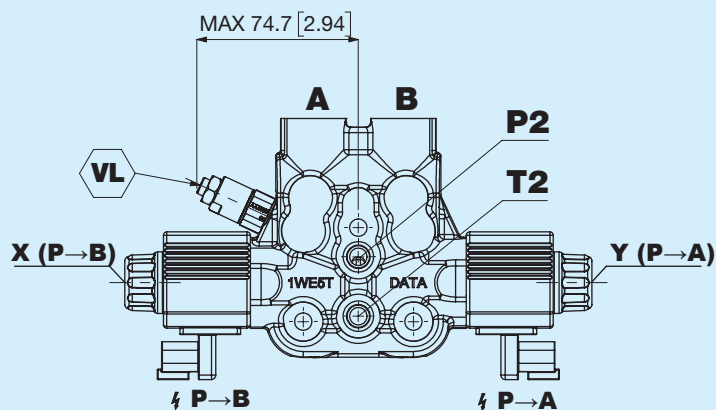
Performance limits for spool type



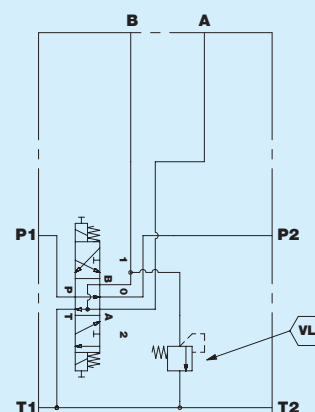
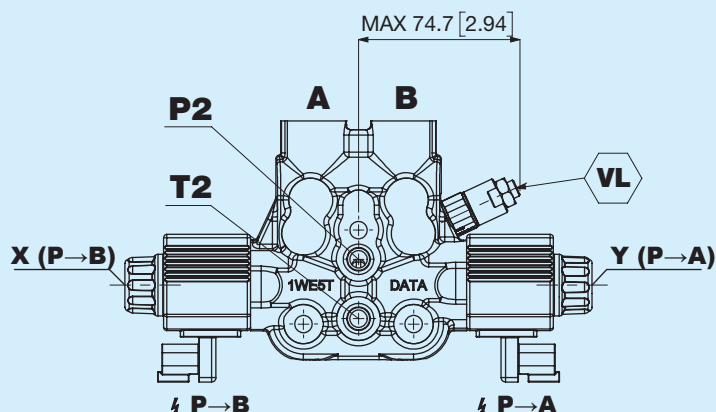
Thread port A and B

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

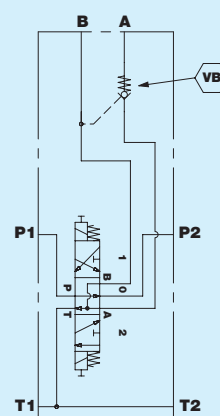
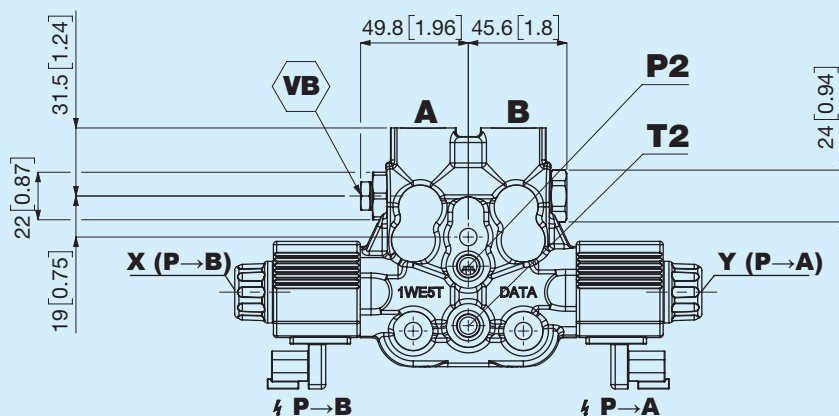
VL Relief valve port A



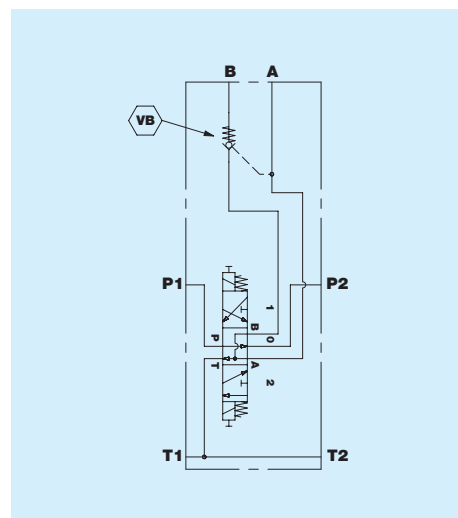
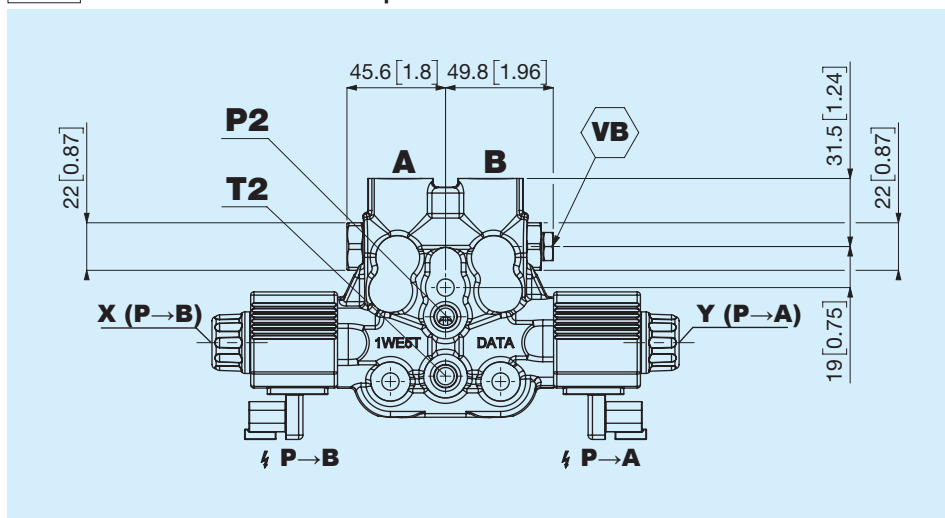
VL Relief valve port B



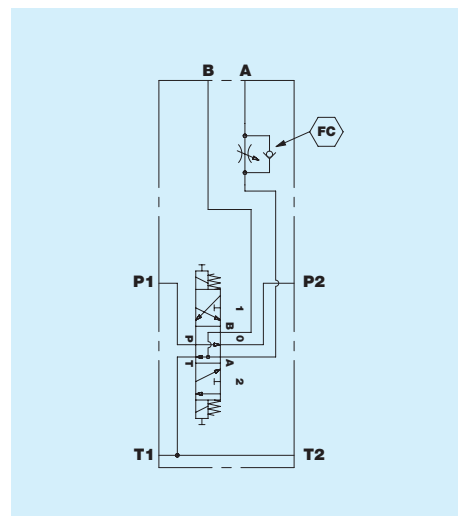
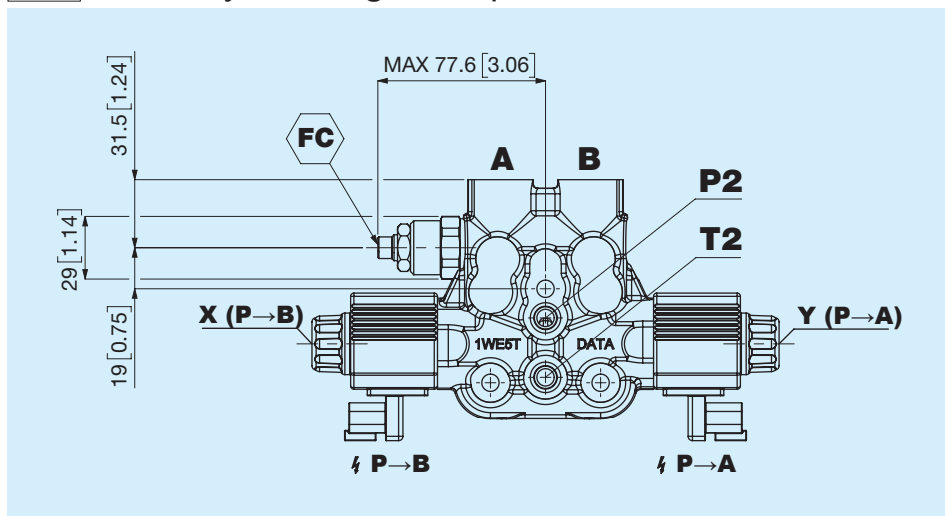
VB Pilot check valve port A



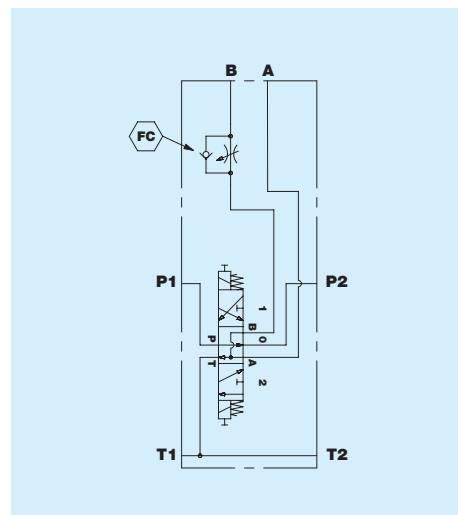
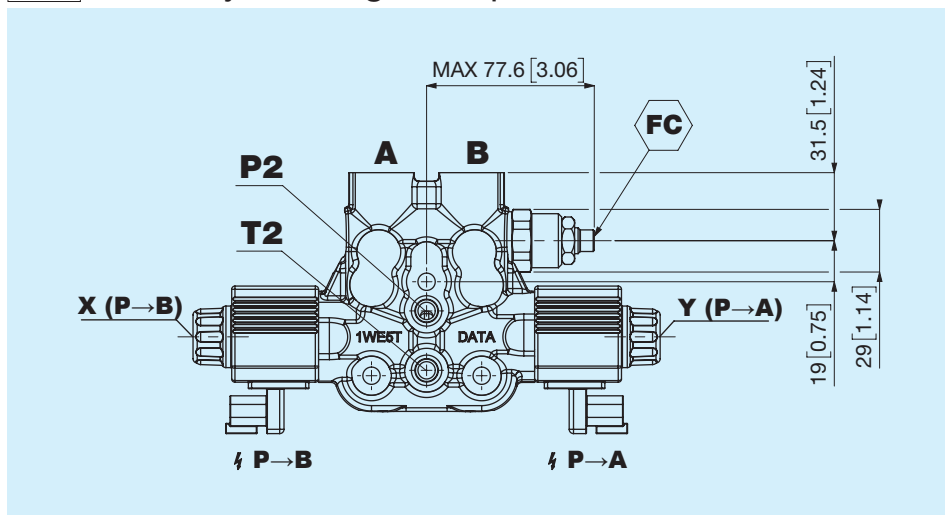
VB Pilot check valve port B



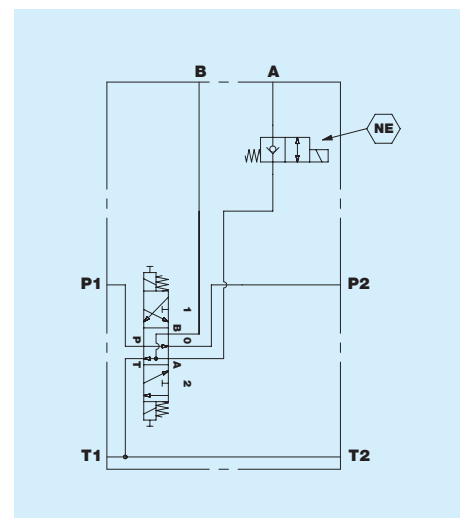
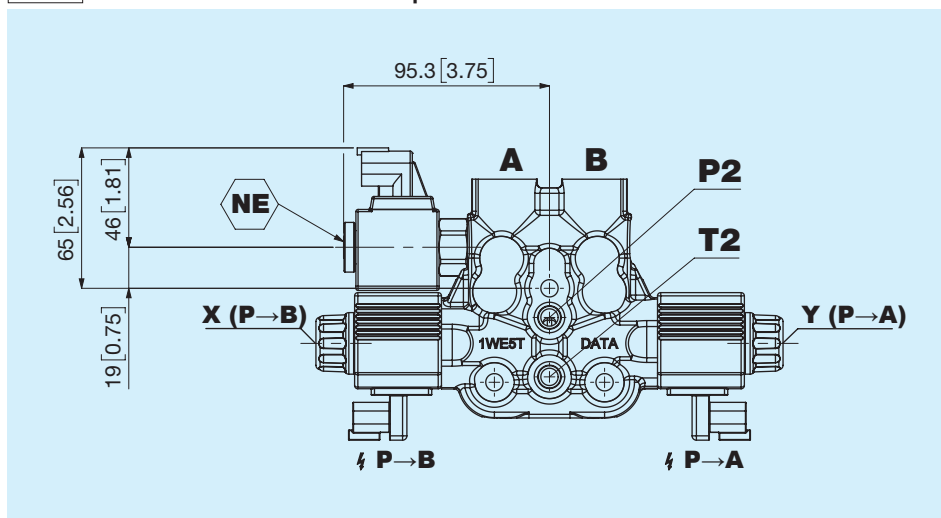
FC One-way flow regulator port A



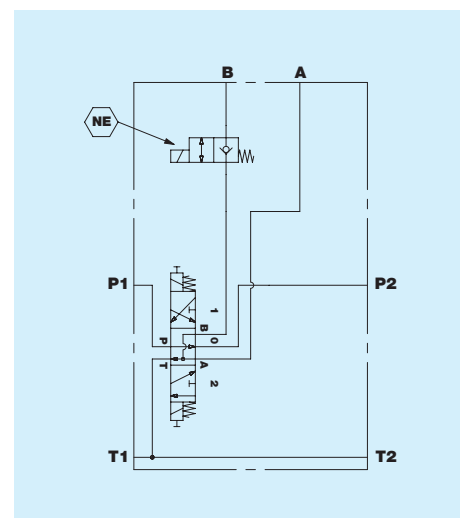
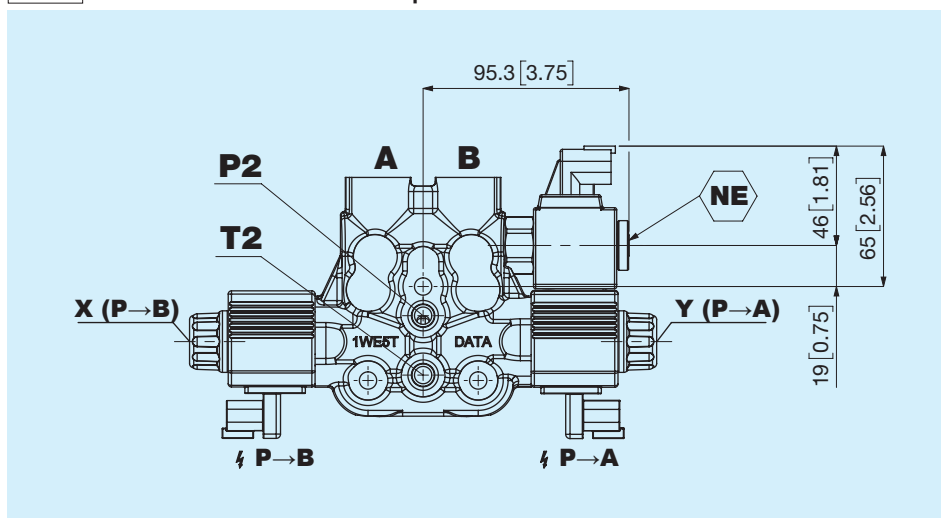
FC One-way flow regulator port B



NE Solenoid valve 2/2 port A



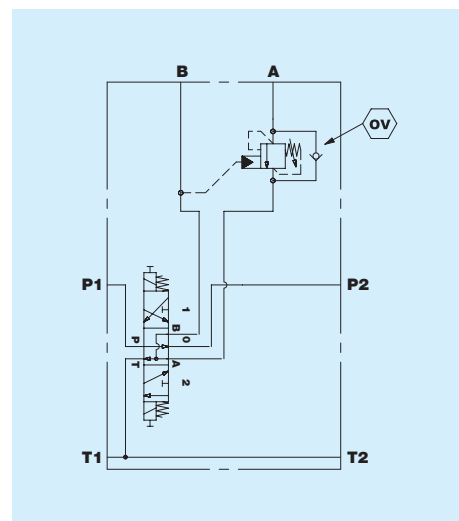
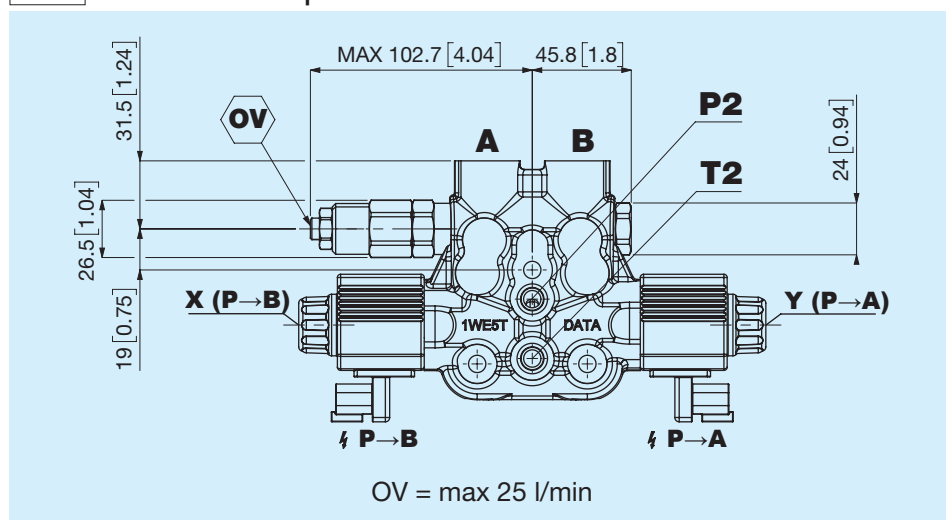
NE Solenoid valve 2/2 port B



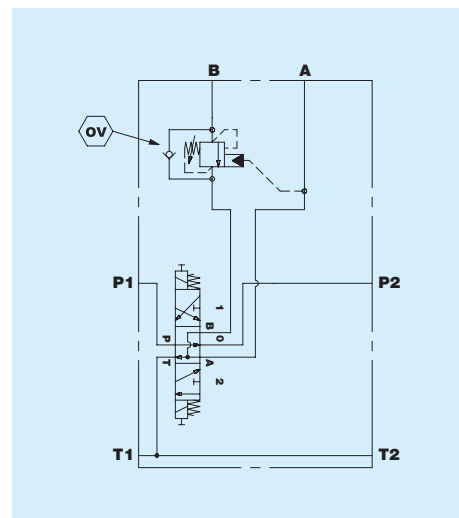
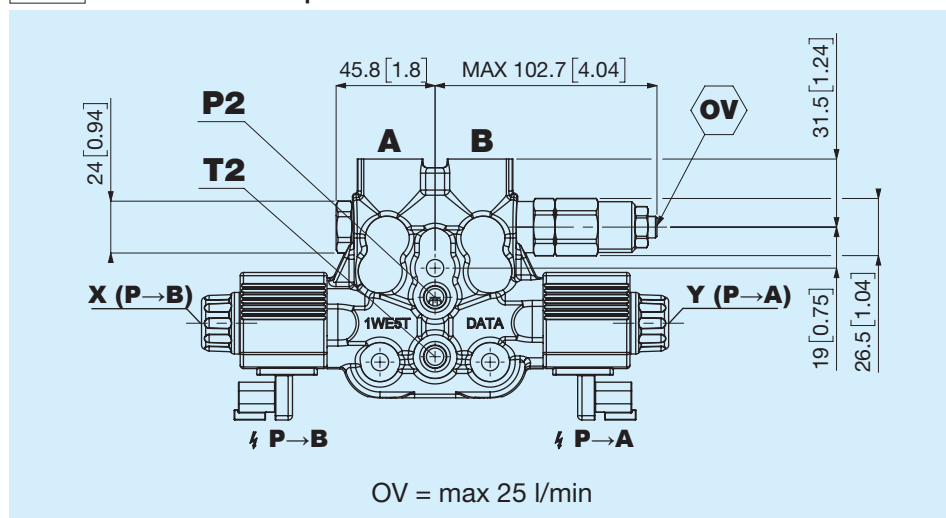
Electrical characteristics of the solenoid valve 2/2 coil

Voltage	12	24	V (± 10%)
Resistance at 20°C	7,7	19,4	Ω (± 7%)
Nominal current	1,55	1,24	A
Power	18,6	30	W

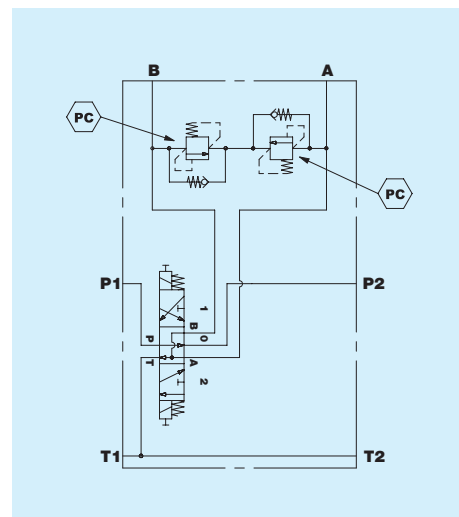
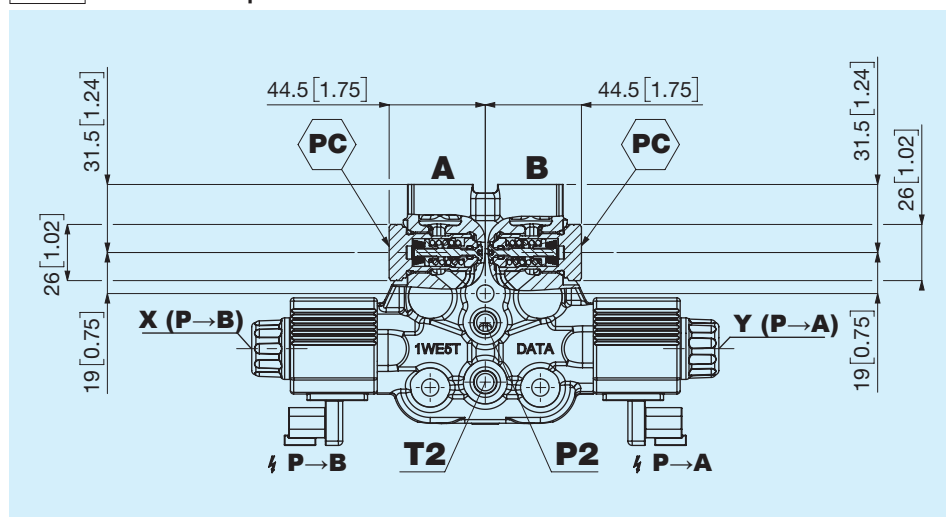
OV Over-center port A



OV Over-center port B



PC Crossed pressure limiter and anticavitation valve



Possible valve combinations port A and B

Port A	Port B						
	NN	VL	VB	NE	FC	OV	PC
NN	•	•	•	•	•	•	
VL	•	•		•	•		
VB	•		•				
NE	•	•		•	•		
FC	•	•		•	•		
OV	•					•	
PC							•

- NN** None
- VL** Relief valve
- VB** Pilot operated check valve
- NE** Solenoid valve 2/2
- FC** One-way flow regulator
- OV** Over-center
- PC** Crossed pressure limiter and anticavitation valve

BW0500TO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
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1	Element type A Tandem B Closing element																
2	Configurations A Two coils port side A and B F One coil port side B C One coil port side A with lever override E One coil port side A B Two coils A and B port side with lever override D One coil port side B with lever override																
3	4	5	Spool types 001 Spool types 003 Spool types 004 Spool types 005 Spool types														
6	Thread type F Female																
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	Valve type port A NN None VB Pilot check valve FC One-way flow regulator PC Crossed pressure limiter and anticavitation valve VL Relief valve NE Solenoid valve 2/2 OV Over-center															
10	11	Setting VL/OV/RC valve 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															
12	13	Valve type port B NN None VB Pilot check valve FC One-way flow regulator PC Crossed pressure limiter and anticavitation valve VL Relief valve NE Solenoid valve 2/2 OV Over-center															
14	15	Setting VL/OV/RC valve 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															
16	Voltage and connector A 12V DIN 43650 B 24V DIN 43650 G 12V DEUTSCH DT04-2P H 24V DEUTSCH DT04-2P																

17



External treatment

N None

Z Zinc plating