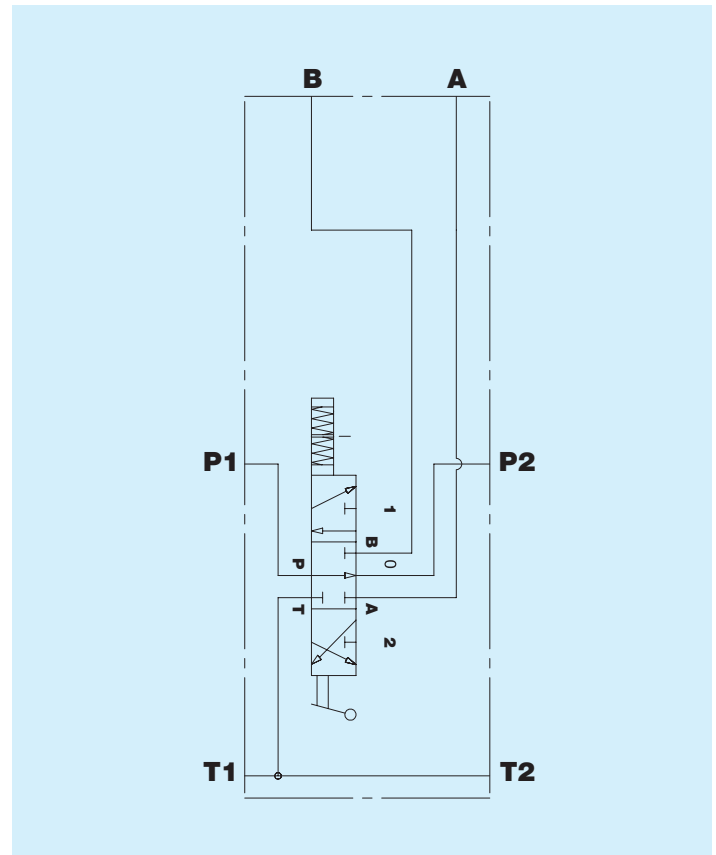


Element 5/3 tandem MANUAL BW0500TM - Interface IBW0500

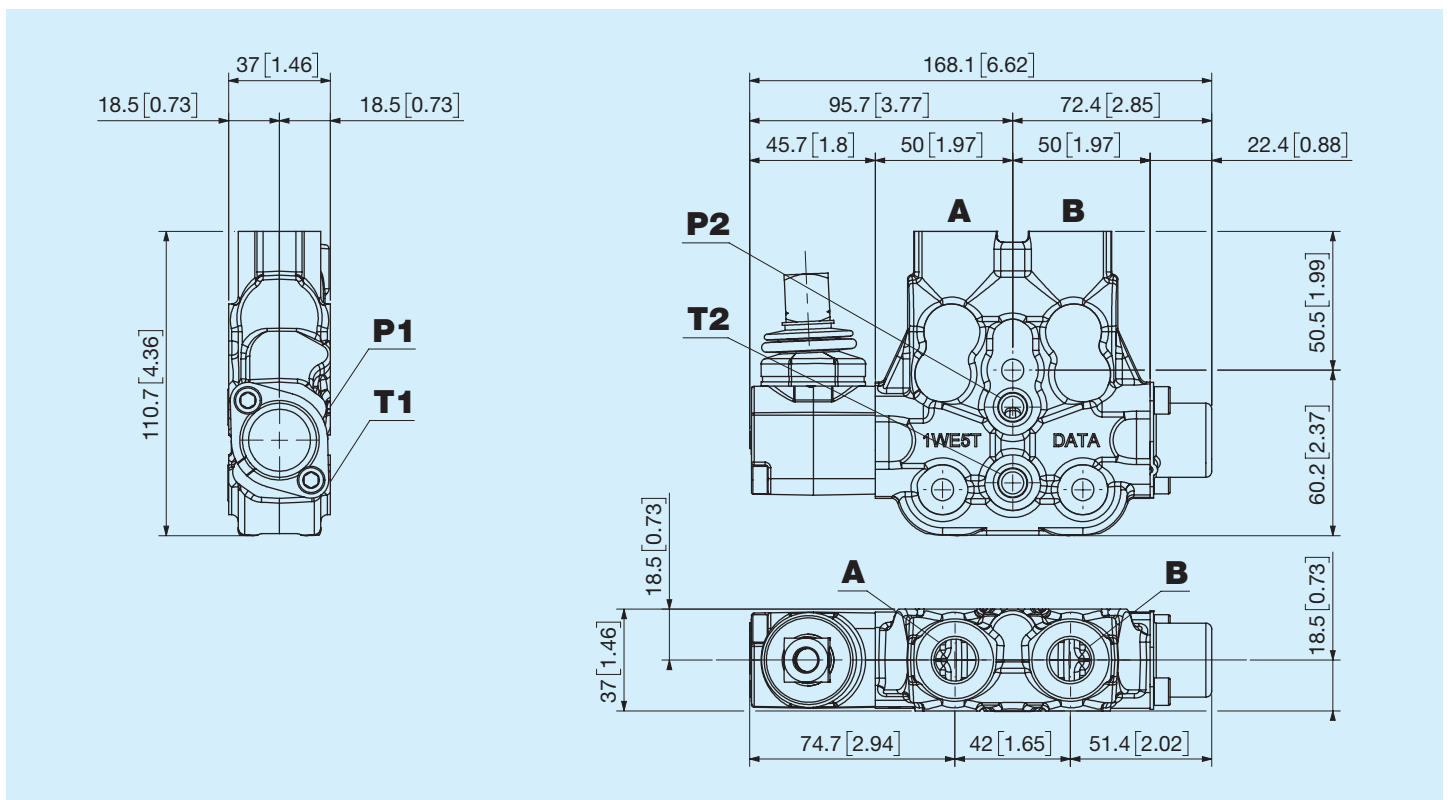


Before use, carefully read the GENERAL INSTRUCTIONS FOR USE OF DIRECTIONAL CONTROL VALVES

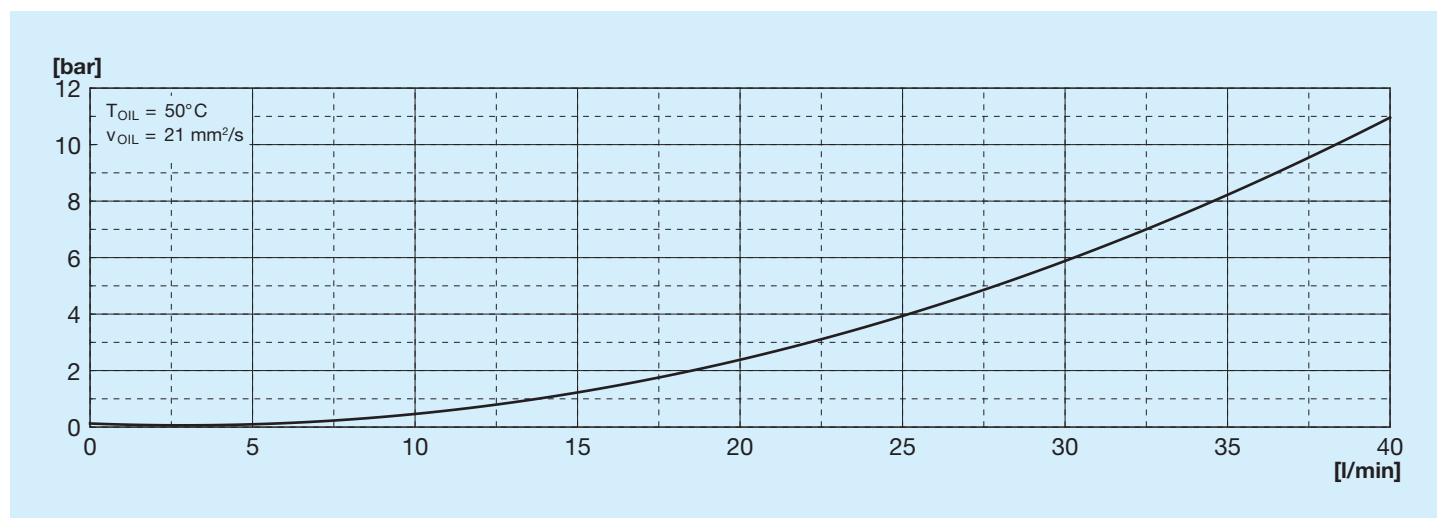
Nominal flow	35 l/min 9.24 US gpm
Nominal pressure	210 bar 3045 psi
Maximum tank pressure	50 bar 725 psi
Internal leakage	60 ± 15 cc/min
Temperature range	-20°C +85°C NBR seals (max peak +100°C) -20°C + 130°C HNBR seals
Operating oil viscosity	from 15 mm²/s to 90 mm²/s (15 cSt to 90 cSt)
Fluid	Hydraulic fluids as defined in ISO 6743-4 standard
Weight	1.6 kg 3.5 lb
Interface	IBW0500



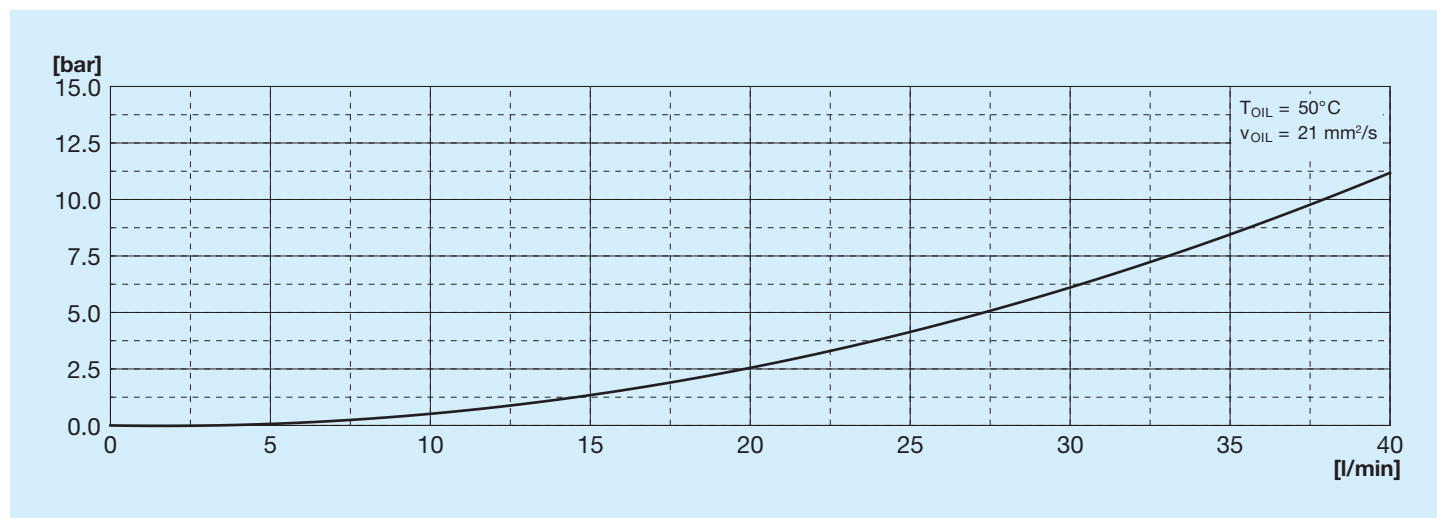
Dimensions



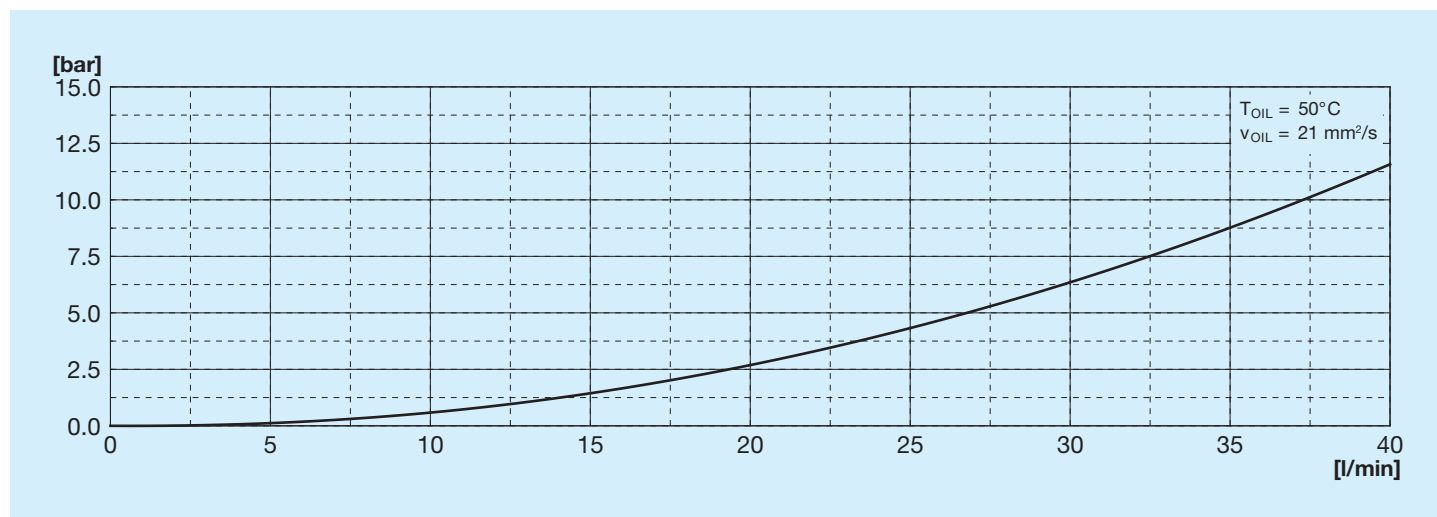
Head losses P-T



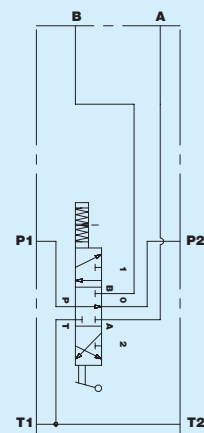
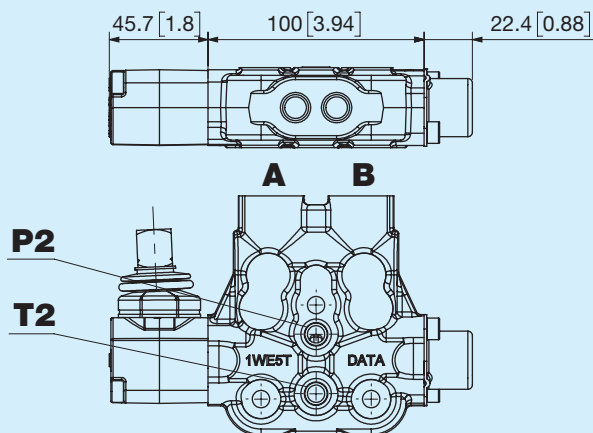
P-A/B flow curve



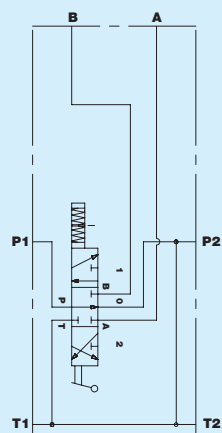
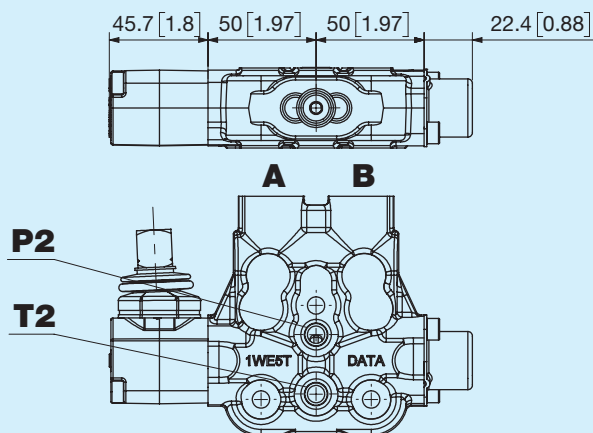
A/B-T flow curve



A Tandem

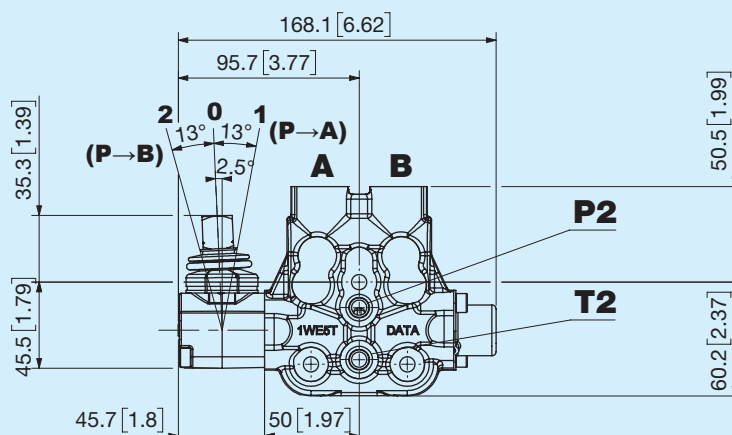


B Closing element

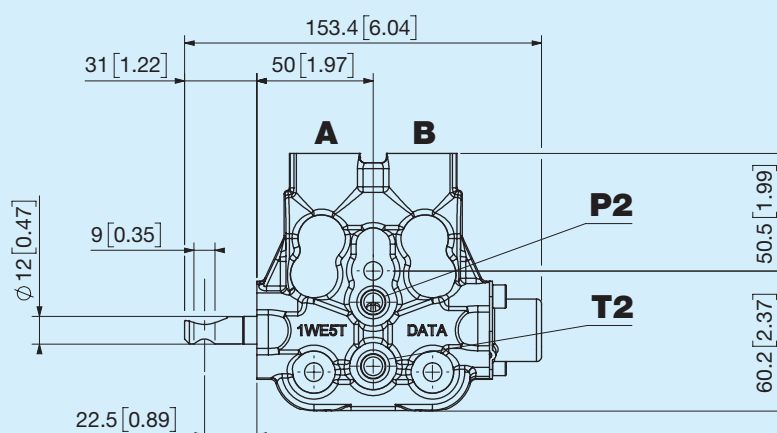


Model	Type	Torque Nm
A	3/8" GAS ISO 1179	35
C	M18x1.5 ISO 9974	40
W	M18x1.5 ISO 6149	40
E	3/4" - 16 SAE ISO 11926	50

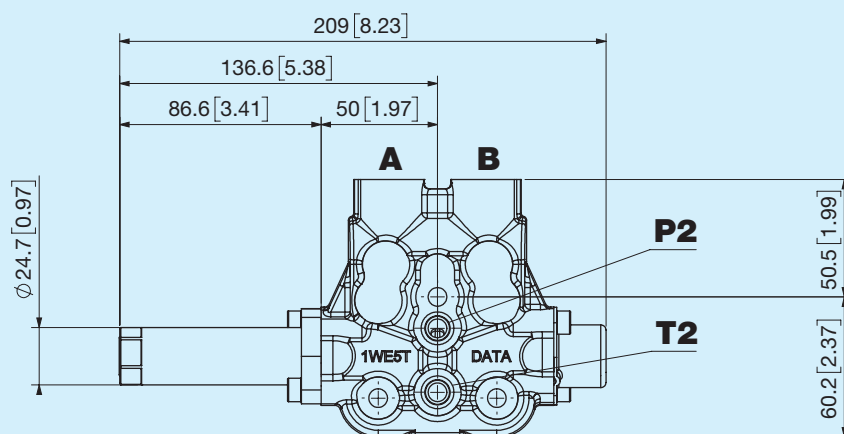
L Standard kit for lever holder



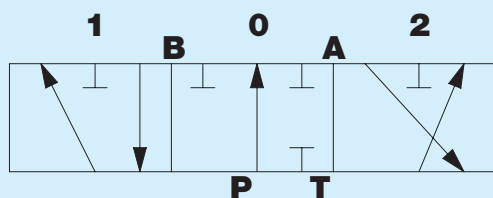
A Without lever holder standard appendix



T Cable actuator setting



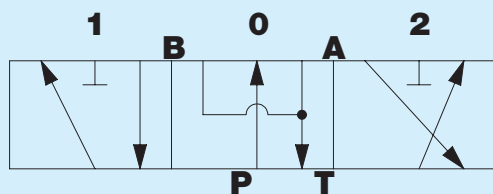
001 Spool type



Positions

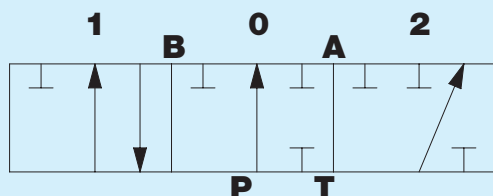
1	0	2
$P \rightarrow B$ $A \rightarrow T$ $BP \rightarrow$	$A, B, T \rightarrow$ $BP \rightarrow$	$P \rightarrow A$ $B \rightarrow T$ $BP \rightarrow$

003 Spool type



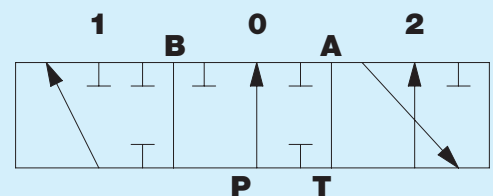
1	0	2
$P \rightarrow B$ $A \rightarrow T$ $BP \rightarrow$	$A, B \rightarrow T$ $BP \rightarrow$	$P \rightarrow A$ $B \rightarrow T$ $BP \rightarrow$

004 Spool type



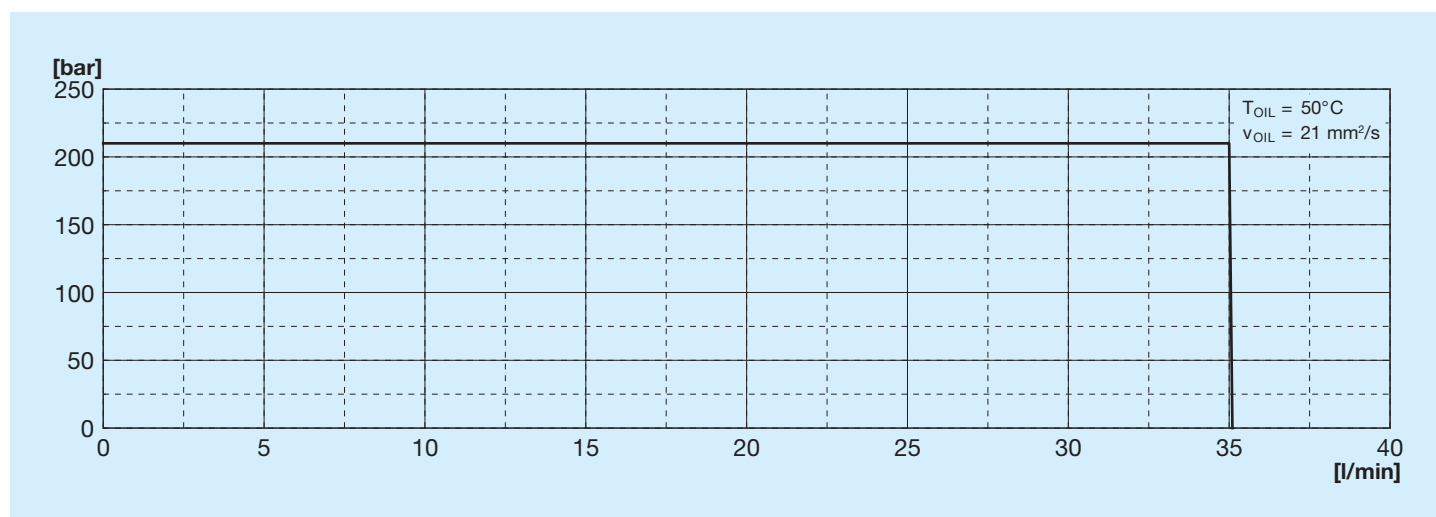
1	0	2
$B \rightarrow$ $A \rightarrow T$ $BP \rightarrow$	$A, B, T \rightarrow$ $BP \rightarrow$	$P \rightarrow A$ $B, T, BP \rightarrow$

005 Spool type

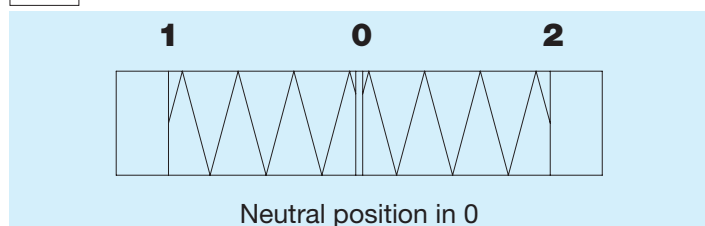


1	0	2
$P \rightarrow B$ $A, T, BP \rightarrow$	$A, B, T \rightarrow$ $BP \rightarrow$	$B \rightarrow T$ $A \rightarrow$ $BP \rightarrow$

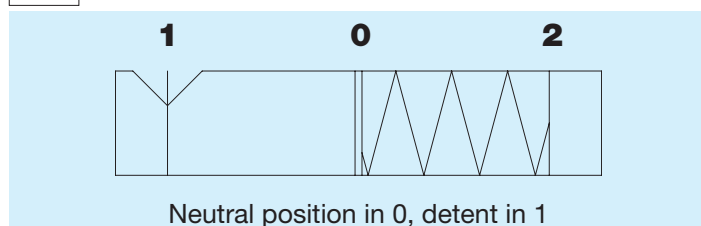
Performance limits for Spool type



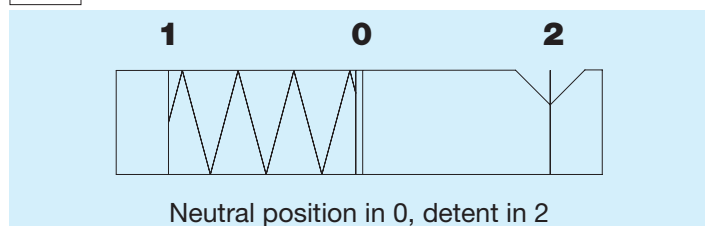
0A



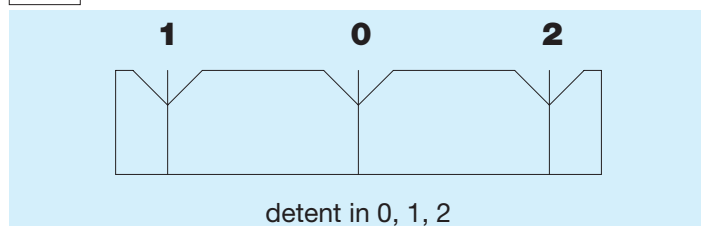
0B



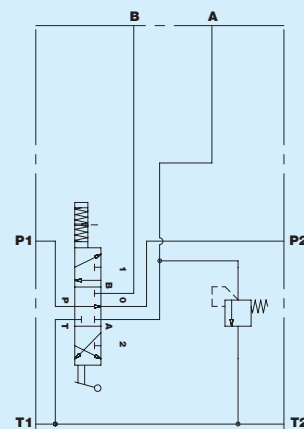
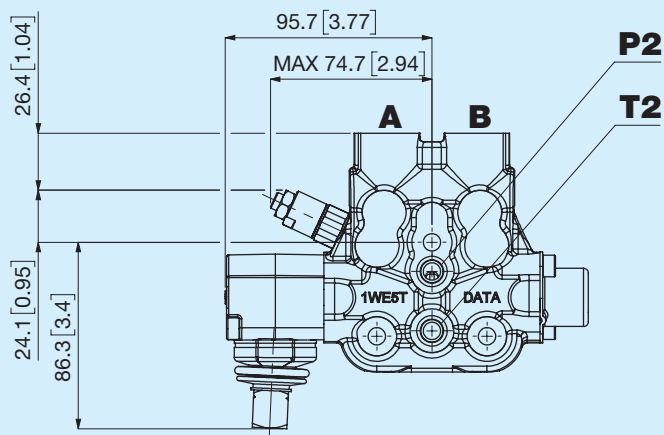
0C



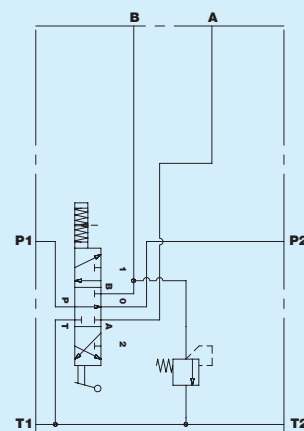
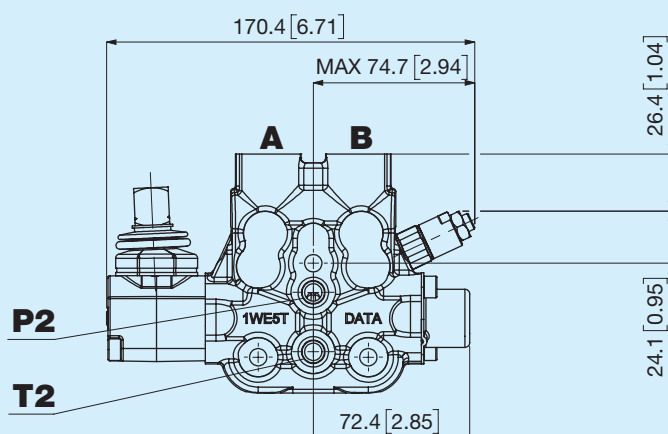
0D



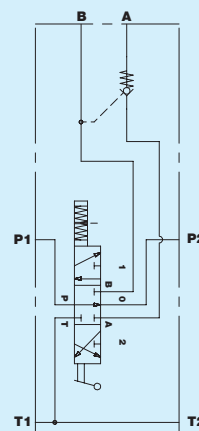
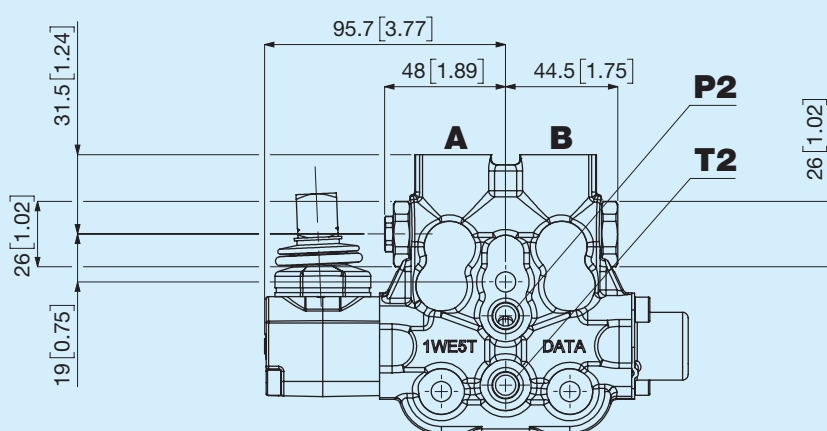
VL Pressure limiting valve A port



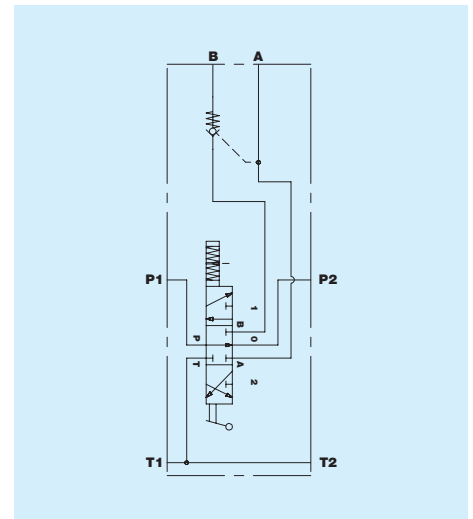
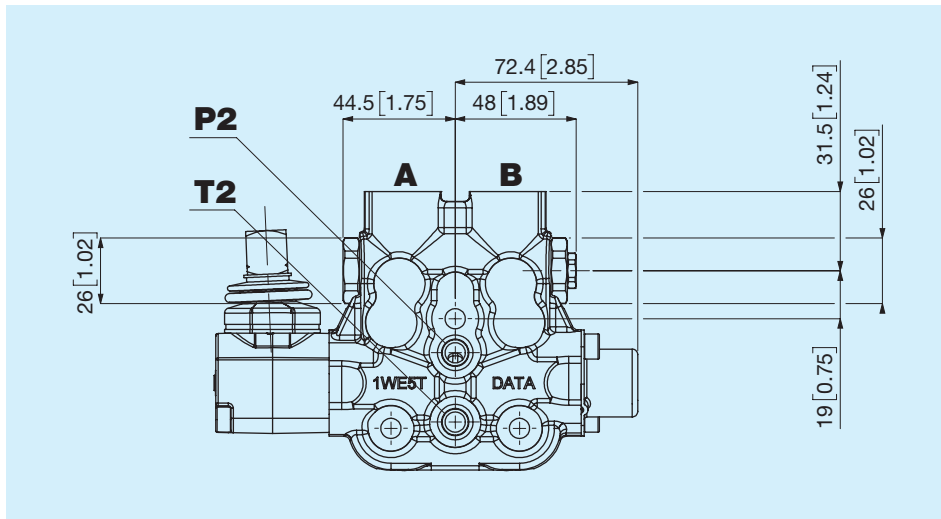
VL Pressure limiting valve B port



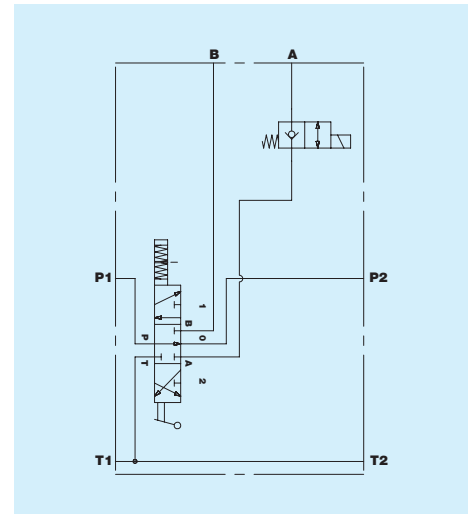
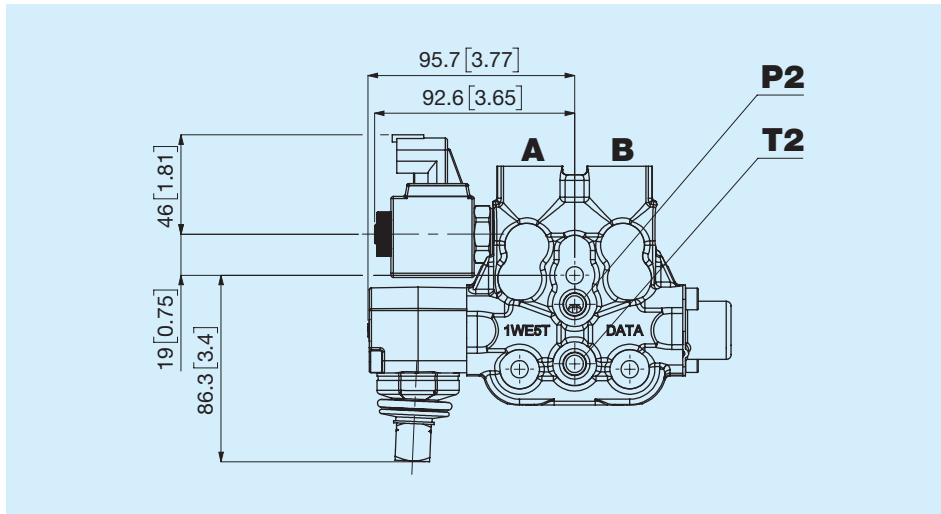
VB Pilot check valve A port



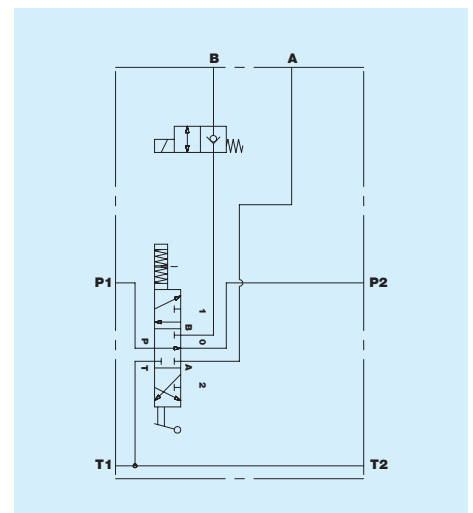
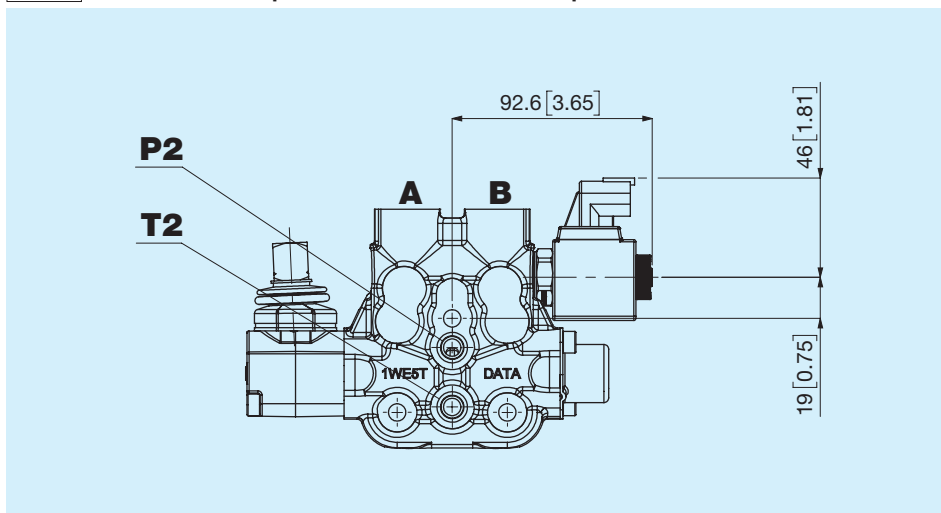
VB Pilot check valve B port



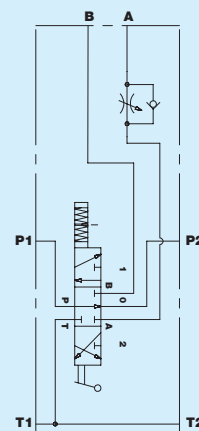
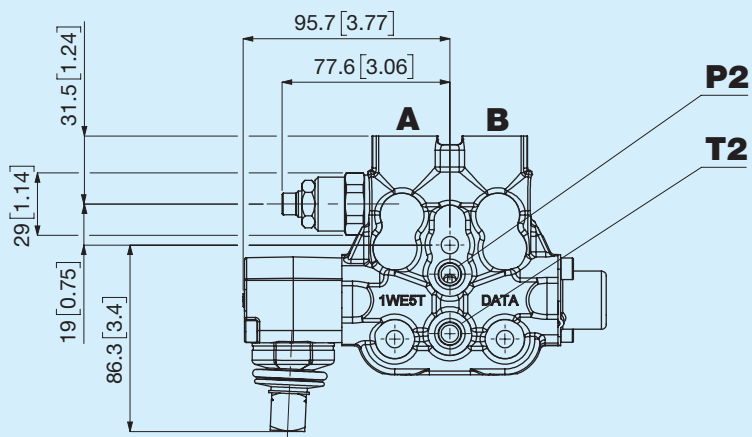
NE Solenoid operated valve 2/2 port A



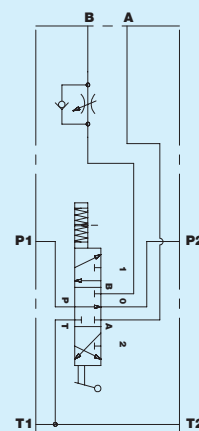
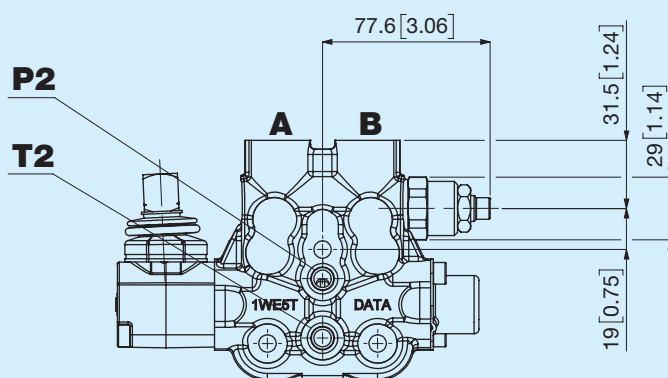
NE Solenoid operated valve 2/2 port B



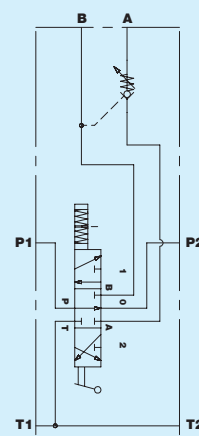
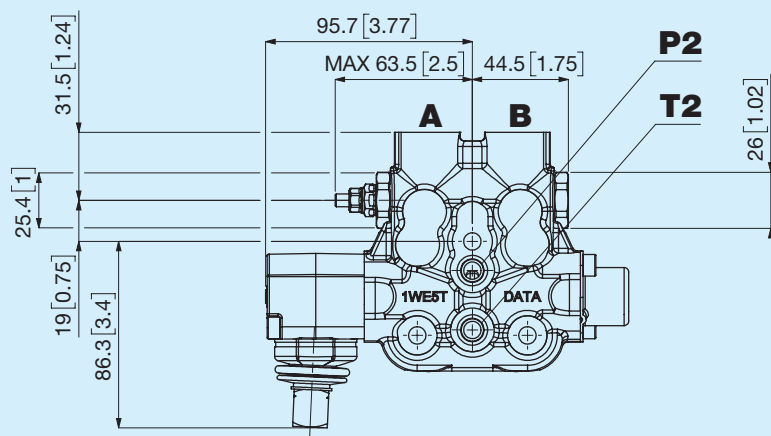
FC One-way flow regulator port A



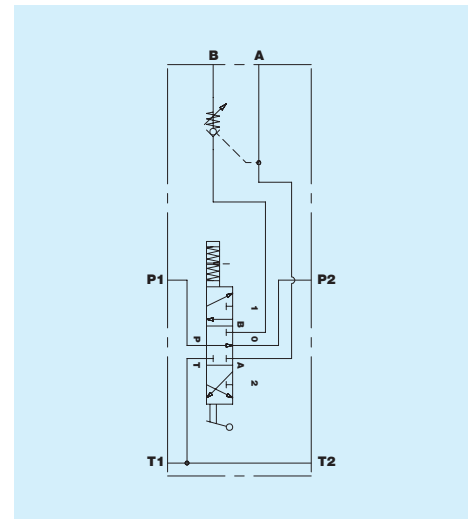
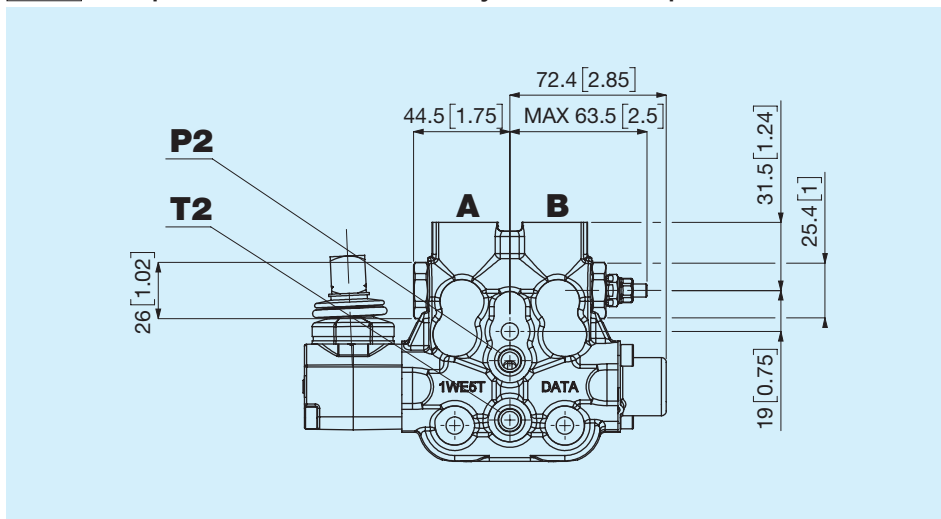
FC One-way flow regulator port B



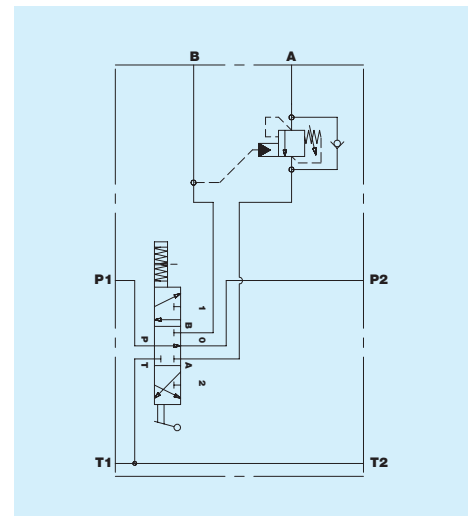
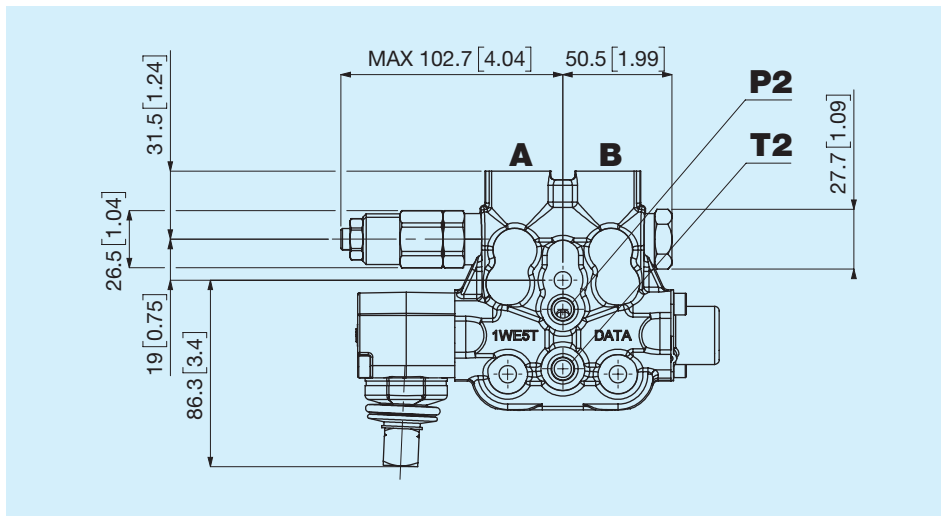
VG VB piloted with two-way restrictor port A



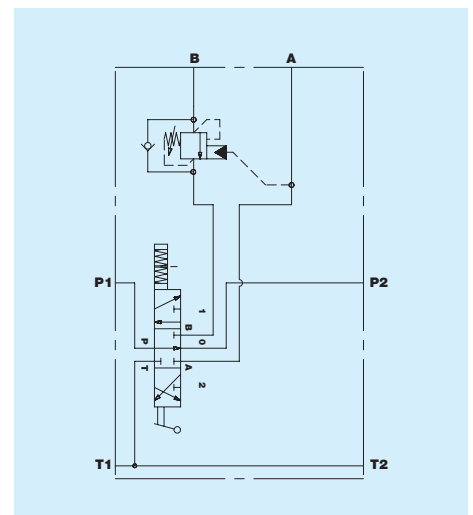
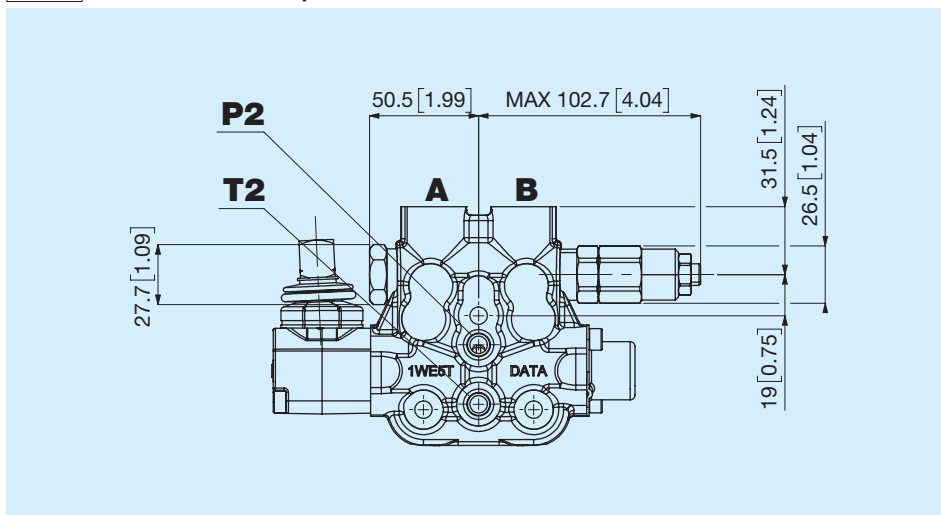
VG VB piloted with two-way restrictor port A



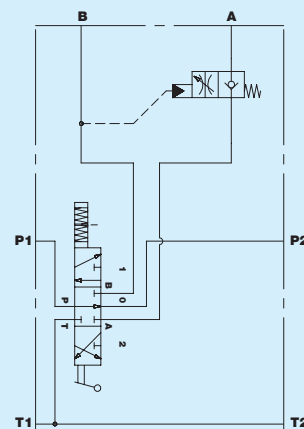
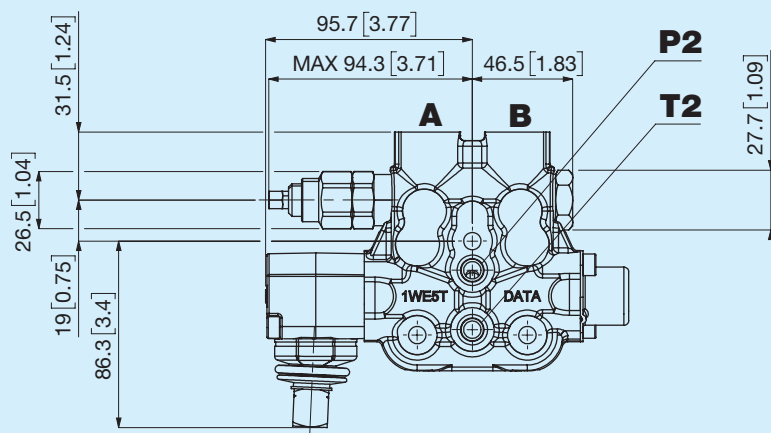
OV Over-center port A



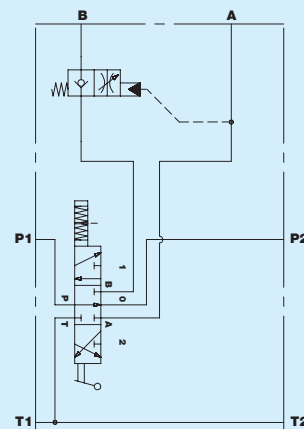
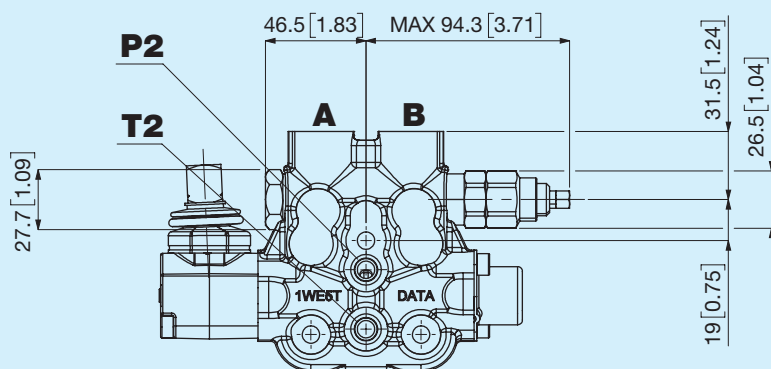
OV Over-center port B



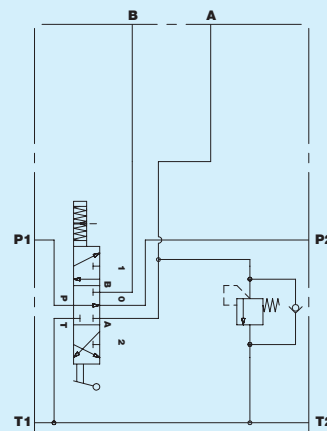
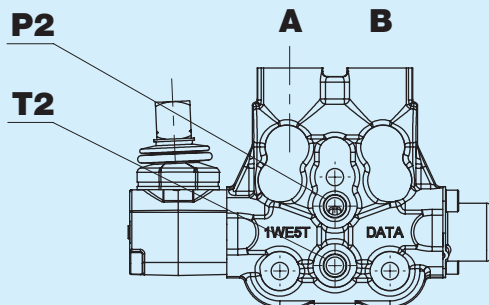
FP VB piloted with one-way restrictor port A



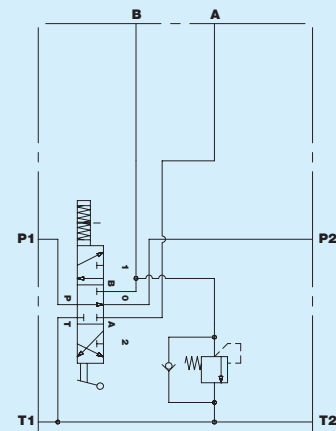
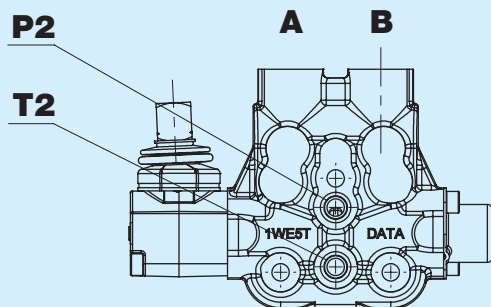
FP VB piloted with one-way restrictor port B



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

VL - Pressure limiting valve

FC - One-way flow regulator

VG - Pilot check valve with two-way restrictor

VB - Pilot check valve

NE - Solenoid operated valve 2/2

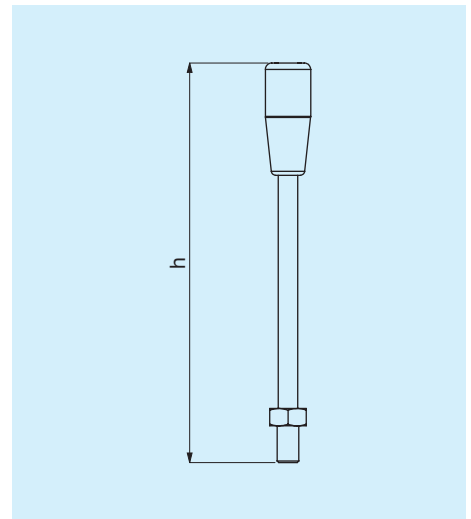
OV - Over-center

FP - Pilot check valve with one-way restrictor

RC - Internal pressure limiter and anticavitation cartridge

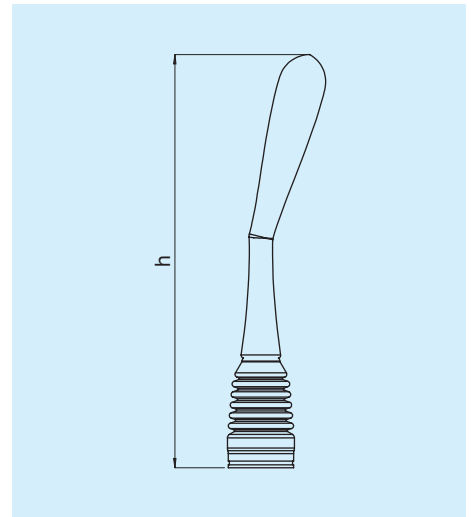
Straight standard knob

Model	Description	h [mm]	h [inch]
A	Straight standard knob	110	4,33
B	Straight standard knob	130	5,12
C	Straight standard knob	180	7,09
D	Straight standard knob	210	8,27
E	Straight standard knob	250	9,84
F	Straight standard knob	300	11,81



Ergonomic lever

Model	Description	h [mm]	h [inch]
L	Straight vertical	180	7,09
O	Bent 15° vertical	180	7,09
R	Bent 30° vertical	180	7,09
M	Straight horizontal	180	7,09
Y	Bent 15° horizontal	180	7,09
Q	Bent 30° horizontal	180	7,09



	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BW0500TM																
1	Element type															
	A Tandem				B Closing element											
2	Configuration															
	A Actuator port A side				B Actuator port B side											
3	Thread type															
	M Male				F Female											
4	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			
5	Actuator															
	L Standard kit for lever holder				A Without lever holder standard appendix				T Cable actuator setting							
6 7 8	Spool types															
	001 Spool type				003 Spool type				004 Spool type				005 Spool type			
9	Spool options															
	A Standard spool				B Nickel-plated spool											
10 11	Positioning device															
	0A Neutral position in 0				0B Neutral position in 0, detent in 1				0C Neutral position in 0, detent in 2				0D detent in 0, 1, 2			
12 13	Port A valve type															
	NN None				VG Pilot valve piloted with two-way restrictor				OV Over-center							
	FC One-way flow regulator				FP Pilot check valve with one-way restrictor				RC Internal pressure limiter and anticavitation cartridge							
	VB Pilot check valve				NE Solenoid operated valve 2/2				VL Pressure limiting valve							
14 15	VL/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				VG Pilot valve piloted with two-way restrictor				OV Over-center							
	FC One-way flow regulator				FP Pilot check valve with one-way restrictor				RC Internal pressure limiter and anticavitation cartridge							
	VB Pilot check valve				NE Solenoid operated valve 2/2				VL Pressure limiting valve							

17	18	19	20	21	22	23
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18	19
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VL/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

Lever options

N None	C h 180 mm/ 7.09 inch	L Straight vertical	Y Bent 15° horizontal
S Without lever	D h 210 mm/8.27 inch	O Bent 15° vertical	Q Bent 30° horizontal
A h 110 mm/ 4.33 inch	E h 250 mm/9.84 inch	R Bent 30° vertical	
B h 130 mm/ 5.12 inch	F h 300 mm/11.81 inch	M Straight horizontal	

21

Lever holder position

A Straight	C Rotated 180°	N None
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22

Voltage and connector

N None	B 24V DIN 43650	H 24V Deutsch
A 12V DIN 43650	G 12V Deutsch	

23

External coating

A External coating	N None
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