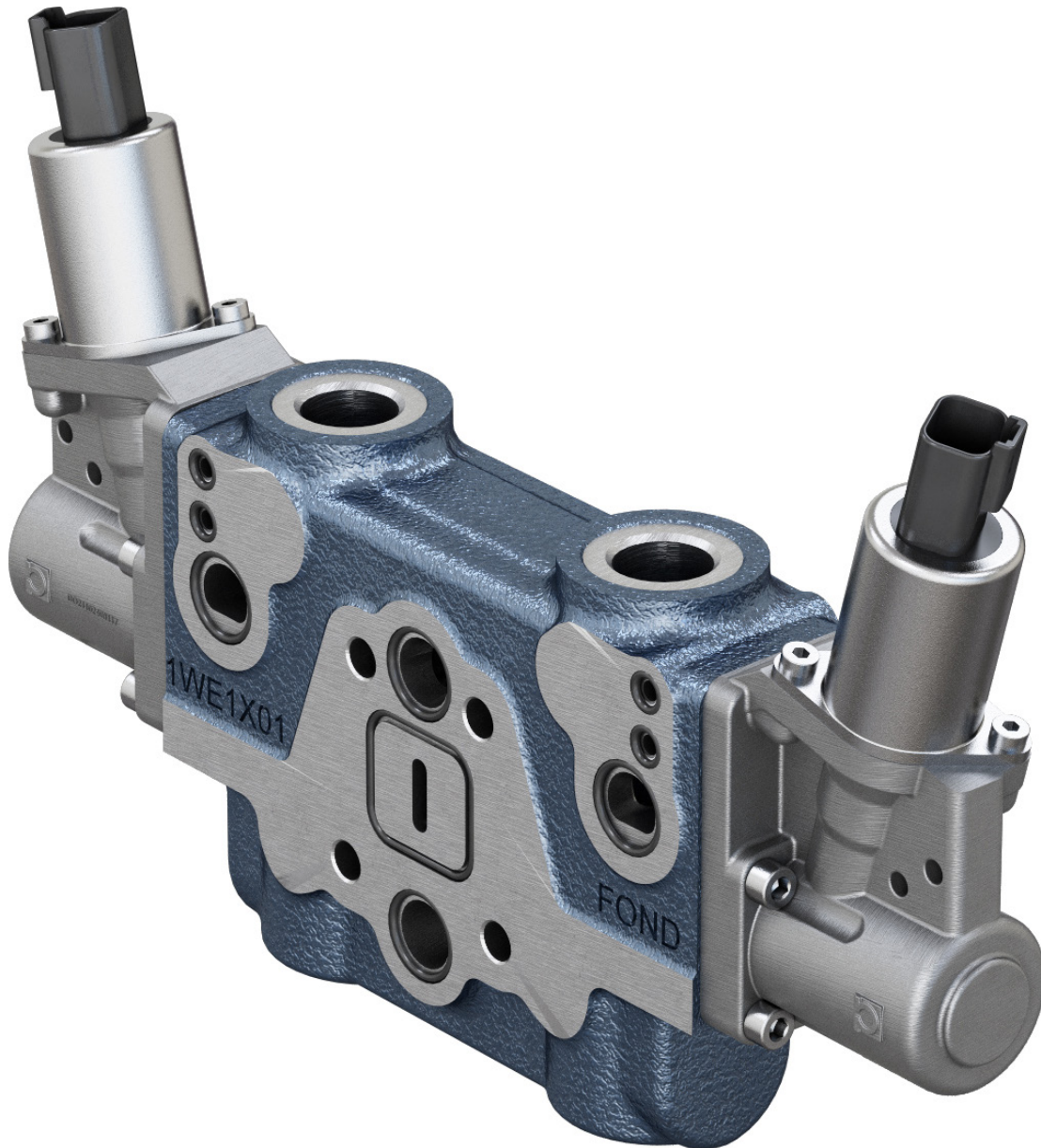
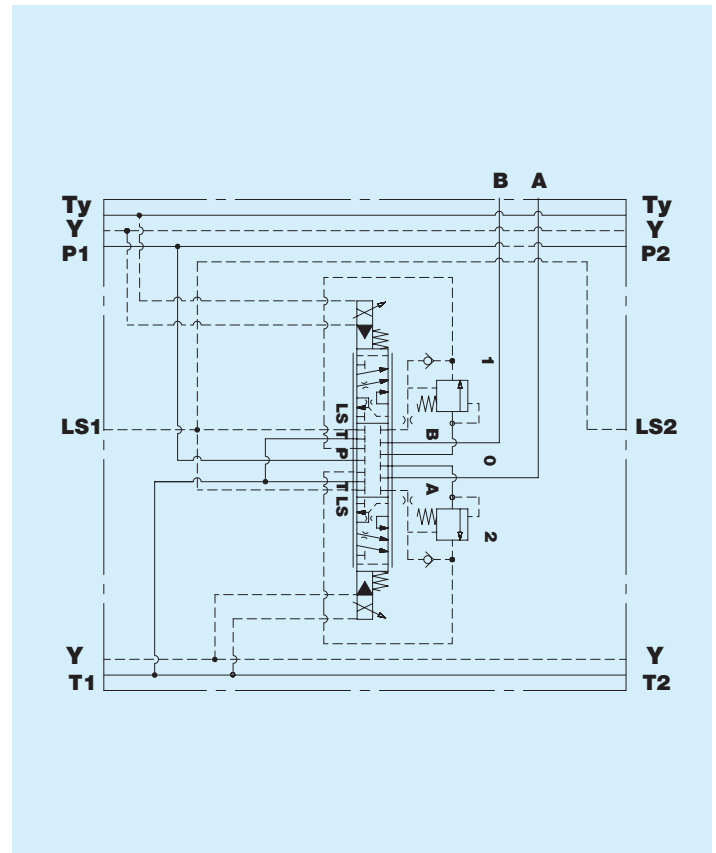


BW1477FP Flow Sharing Element with proportional electro-hydraulic actuator
Interface IBW1477

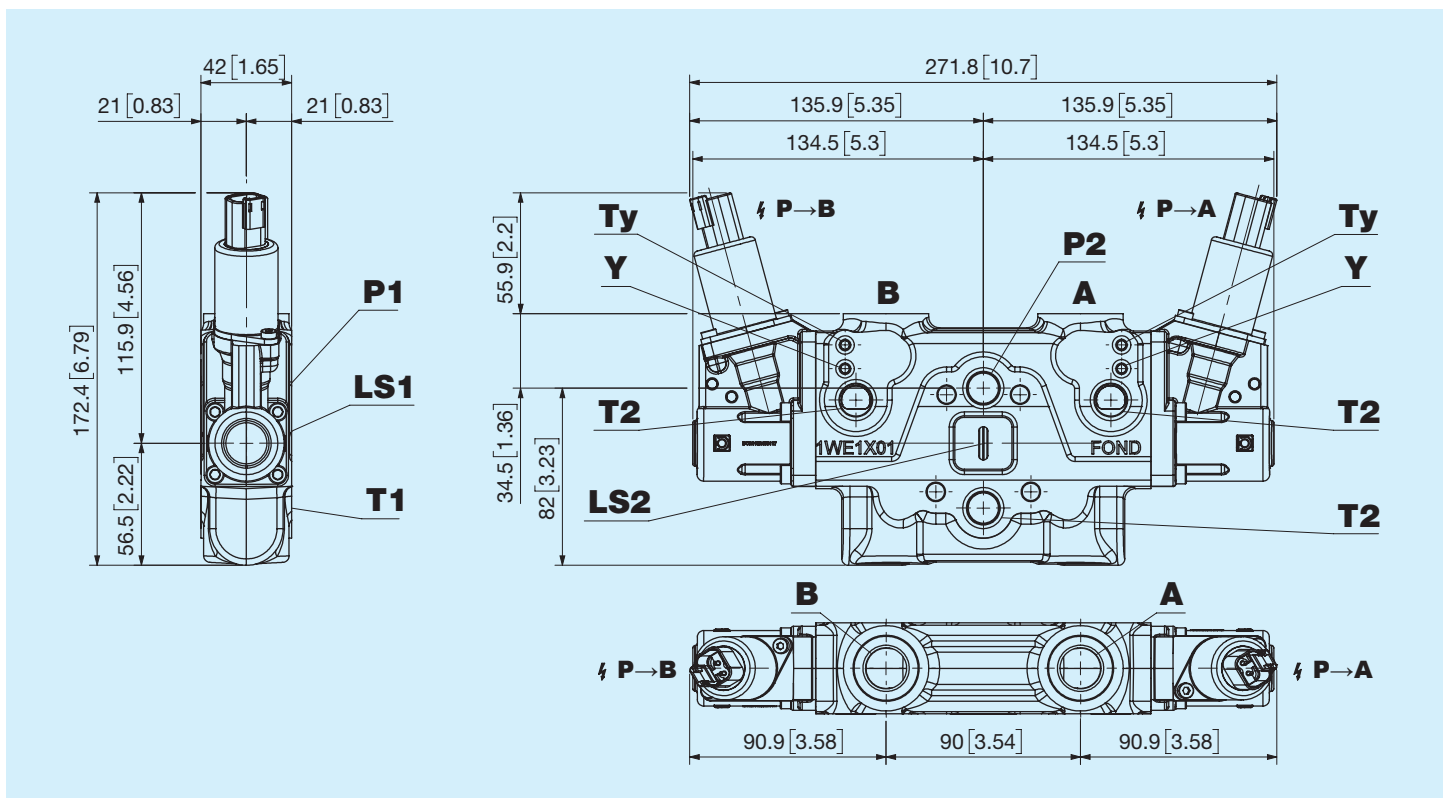


Before use, carefully read the GENERAL INSTRUCTIONS FOR USE OF DIRECTIONAL CONTROL VALVES

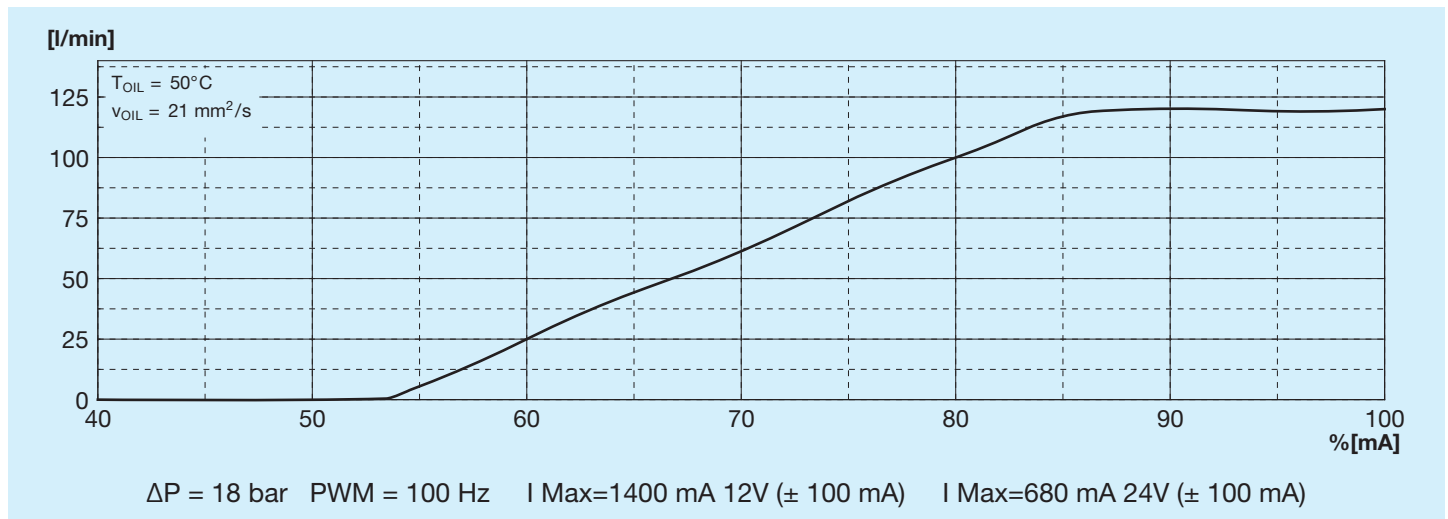
Portata nominale	120 l/min - $\Delta P=18$ bar 144 l/min - $\Delta P=25$ bar 31,7 US gpm - $\Delta P=261$ psi 38 US gpm - $\Delta P=362$ psi
Pressione nominale	300 bar 4351 psi
Contropressione massima allo scarico	50 bar 725 psi
Trafilata interna	8 cc/min (21 cSt - 100 bar)
Temperatura di utilizzo	-20°C +85°C NBR seals (max peak +100°C) -20°C + 130°C HNBR seals
Viscosità olio di esercizio	da 15 mm ² /s a 90 mm ² /s (15 cSt a 90 cSt)
Fluido	Fluidi idraulici definiti dalla norma ISO 6743-4
Massa	4,6 Kg 10,1 lb
Interfaccia	IBW1477



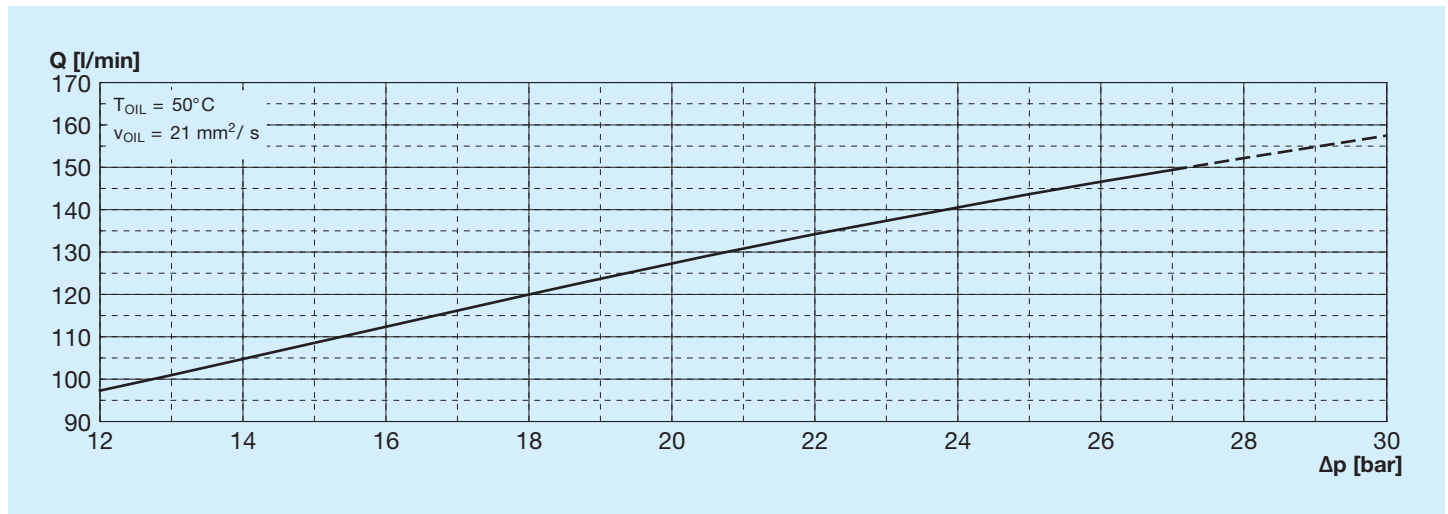
Dimensions



Flow curve Metering

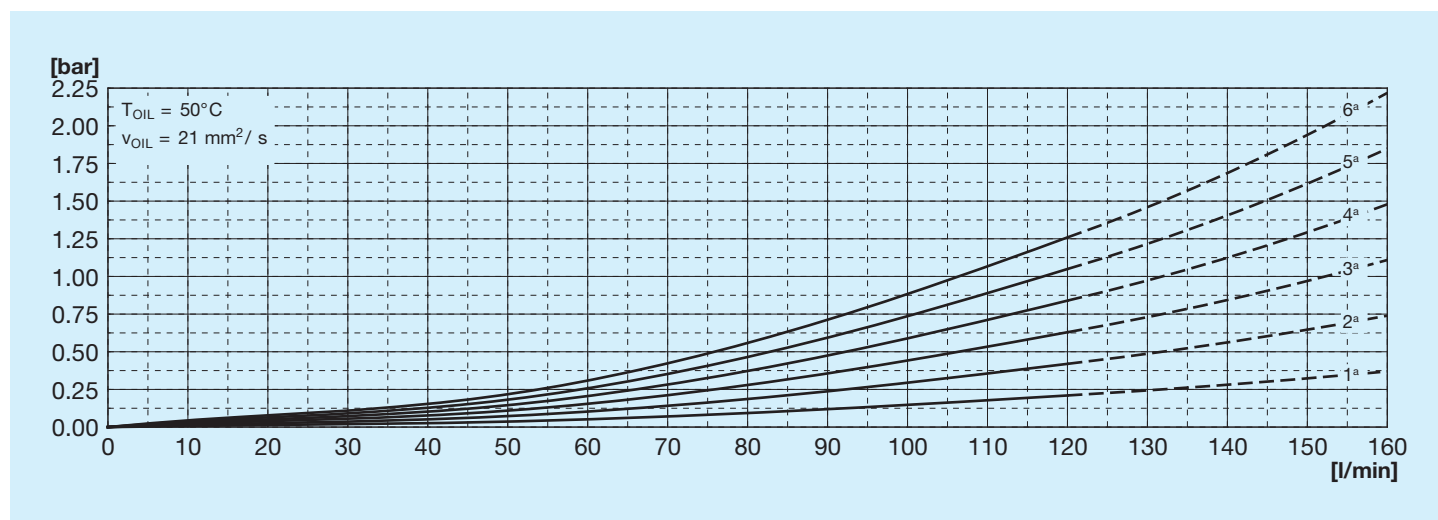


Variation curve of the flow rate of the operating spool of the ΔP

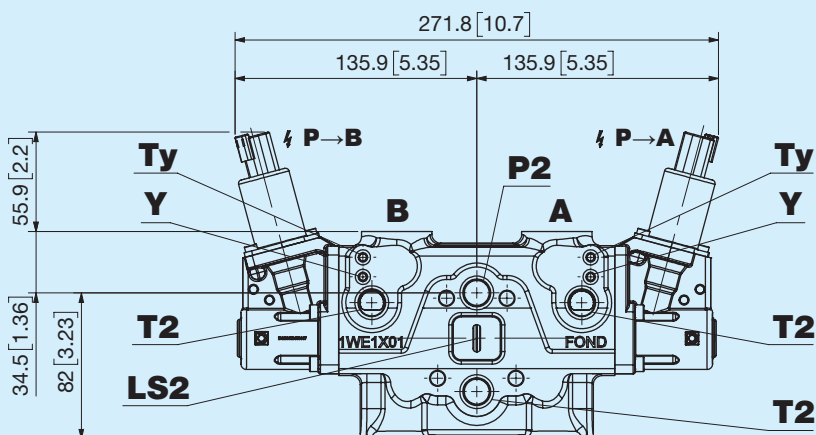
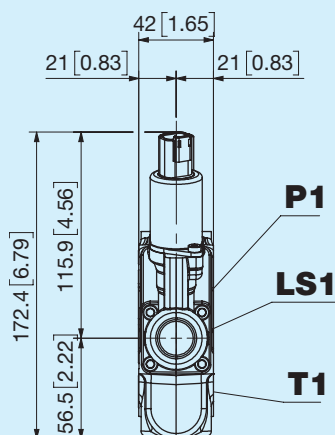


The spool flow rate is in relation to the pressure margin ΔP given by the difference in pressure on line P and the pressure measured on line LS at the end of the directional valve. The nominal flow of the spools is based on a pressure margin of 18 bar.

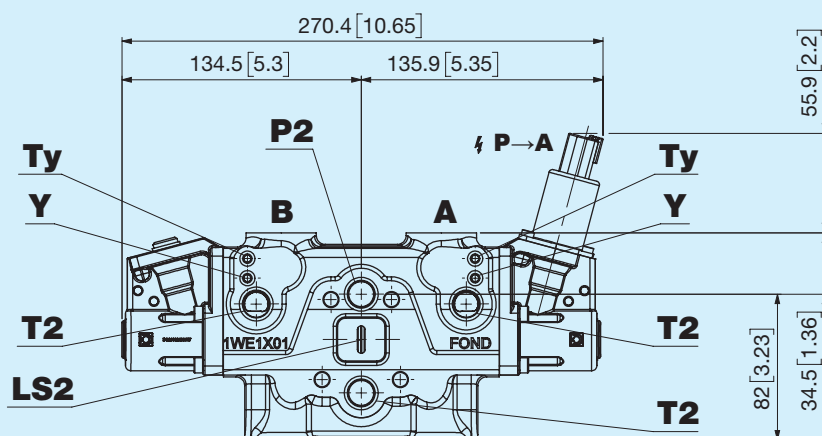
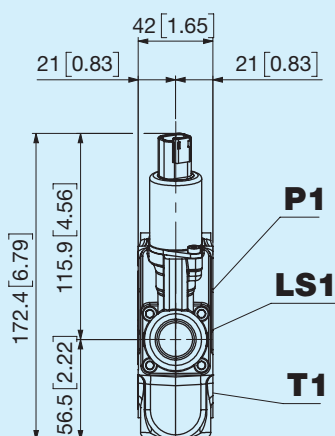
Line P head loss per section



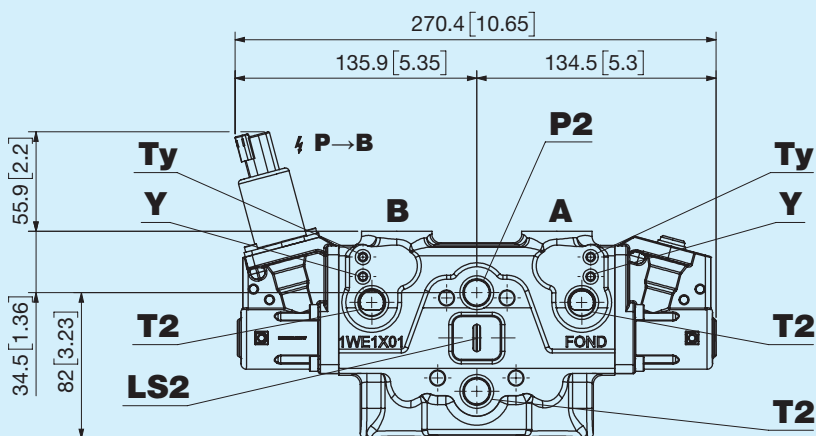
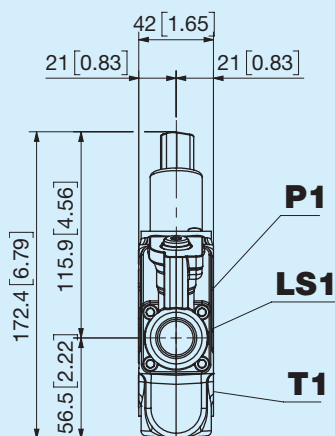
A Two coils, A and B port side



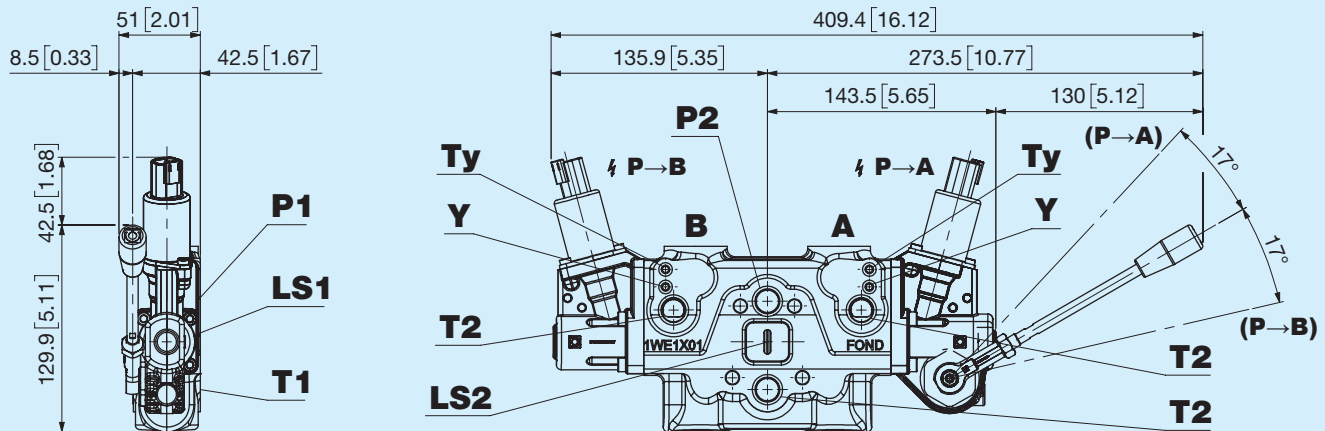
E One coil, A port side



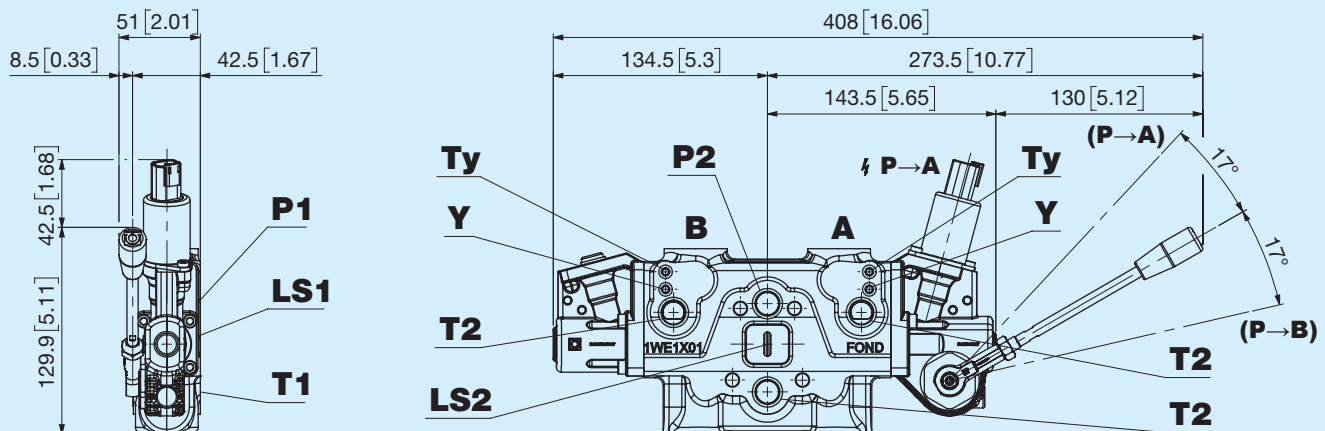
F One coil, B port side



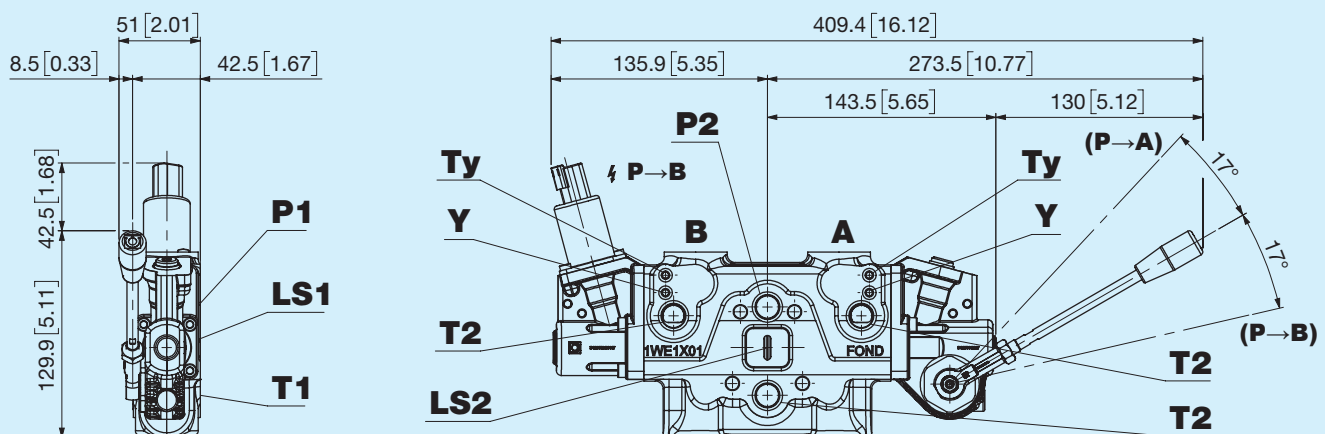
B Two coils, A and B port side and emergency lever



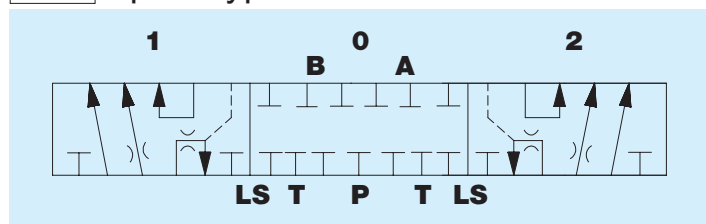
C One coil, A port side and emergency lever



D One coil, B port side and emergency lever



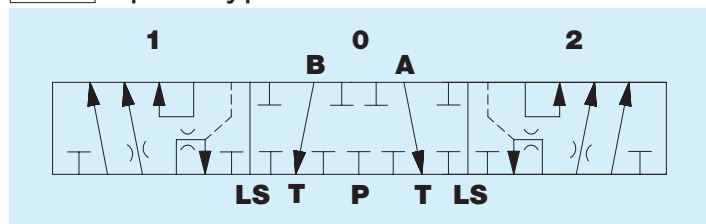
001 Spool type



Positions

1	0	2
P→B A→T	A— B— P— T—	P→A B→T

003 Spool type



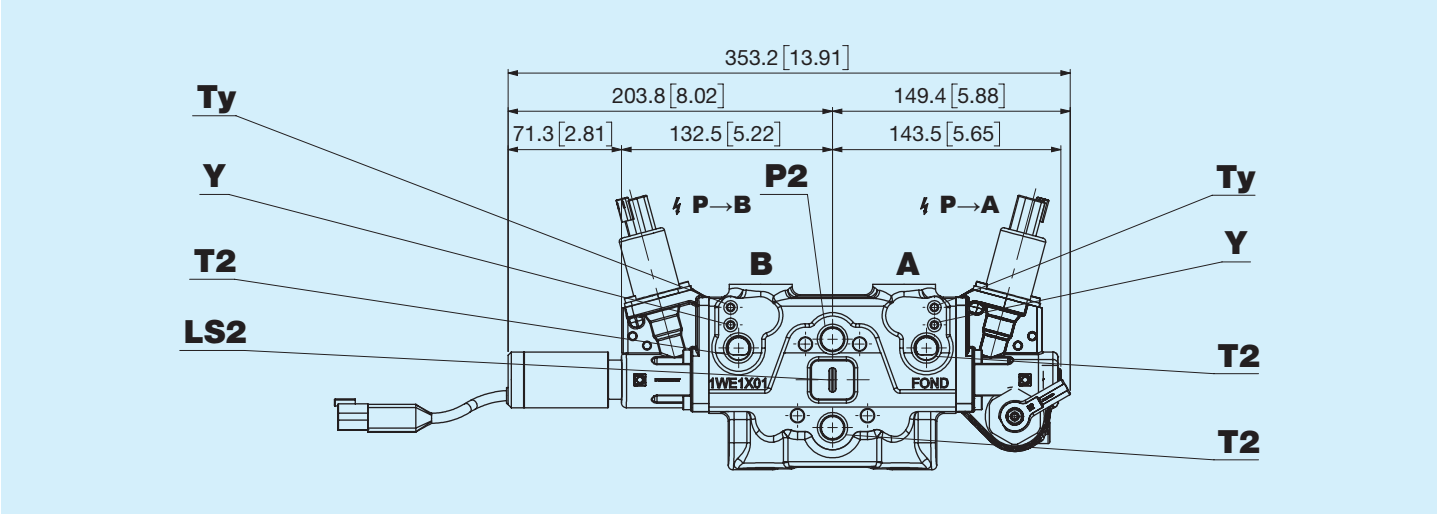
Positions

1	0	2
P→B A→T	B,A→T P—	P→A B→T

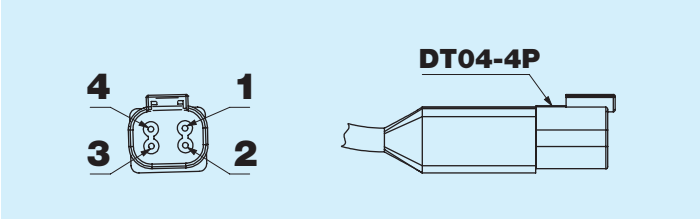
Flow rate $\Delta P = 18$ bar

Codice	l/min	US gpm
0A	120	31,70
0B	90	23,77
0C	60	15,85
0D	30	7,92

G Spool position electromagnetic sensor



Technical data of spool position electromagnetic sensor

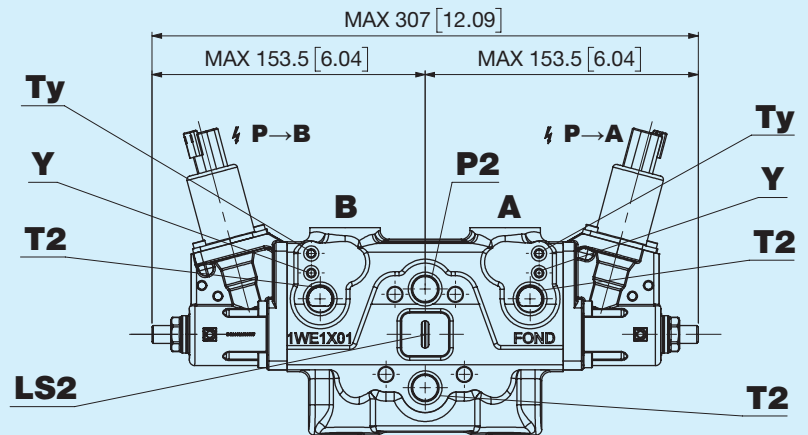
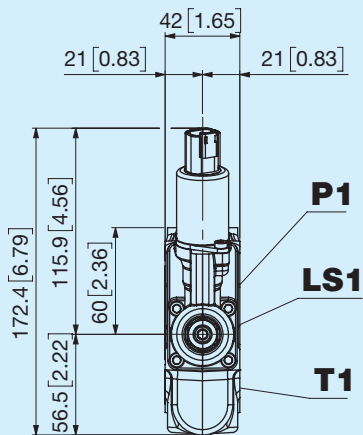


PIN	Connection
1	+V (Vtaggio)
2	-V (Vtaggio-GND)
3	Segnale di uscita

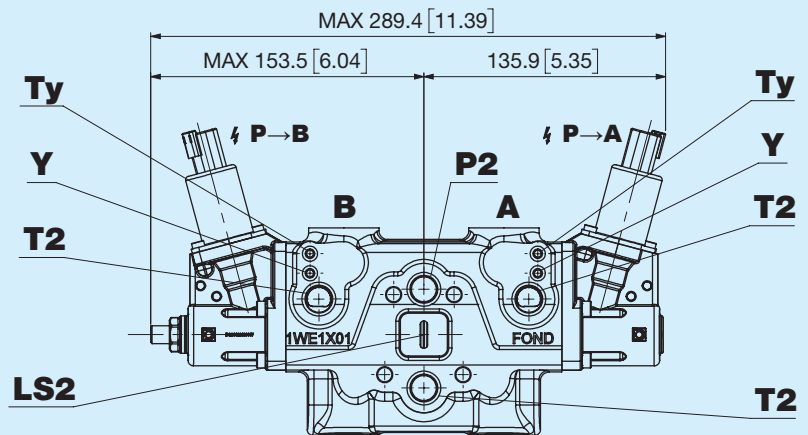
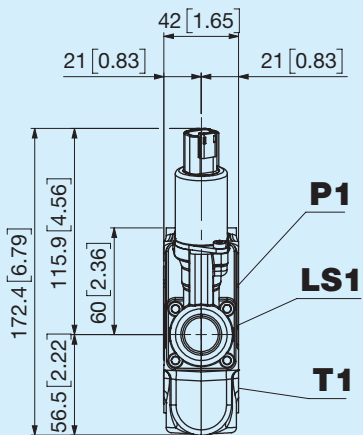
Technical data of electromagnetic sensor

Temperatura di utilizzo	-40°C +100°C
Pressione massima di lavoro	60 bar - 870,2 psi
VB	9 - 32 V
Segnale di uscita	PNP
Massima corrente di uscita	15 mA

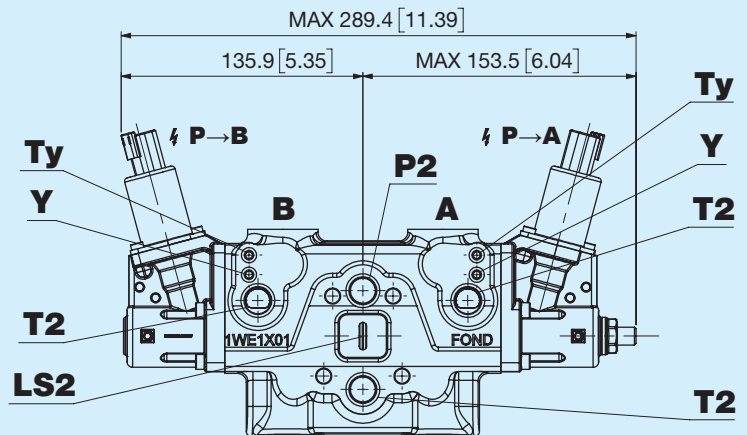
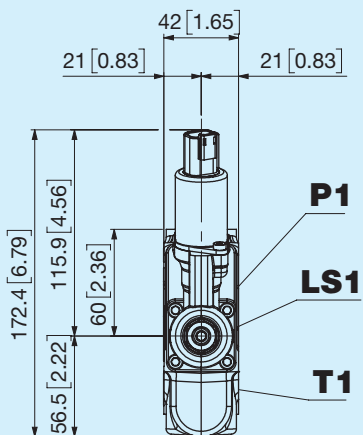
Spool stroke limiting port A and B



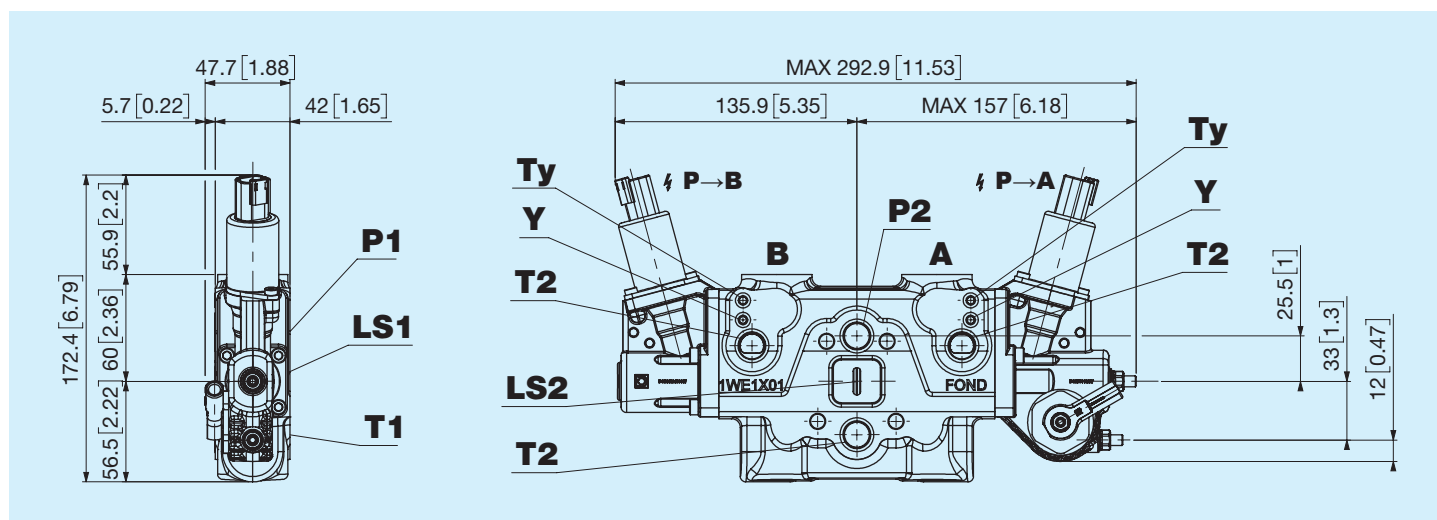
Spool stroke limiting port A



Spool stroke limiting port B

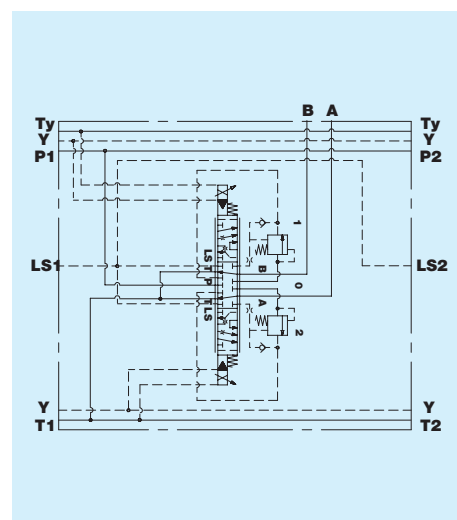
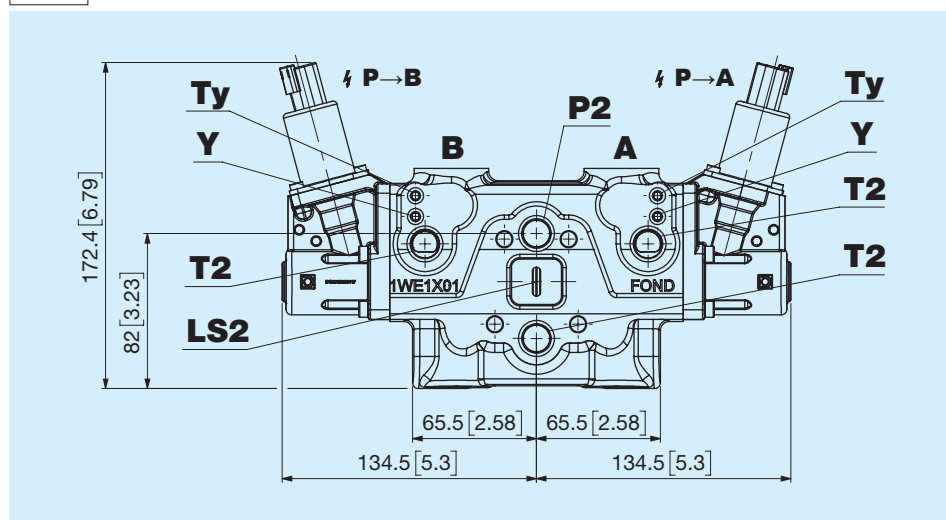


Spool stroke limiting port A and B and emergency lever

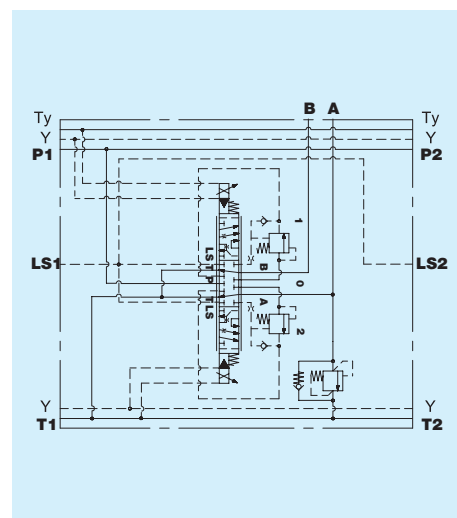
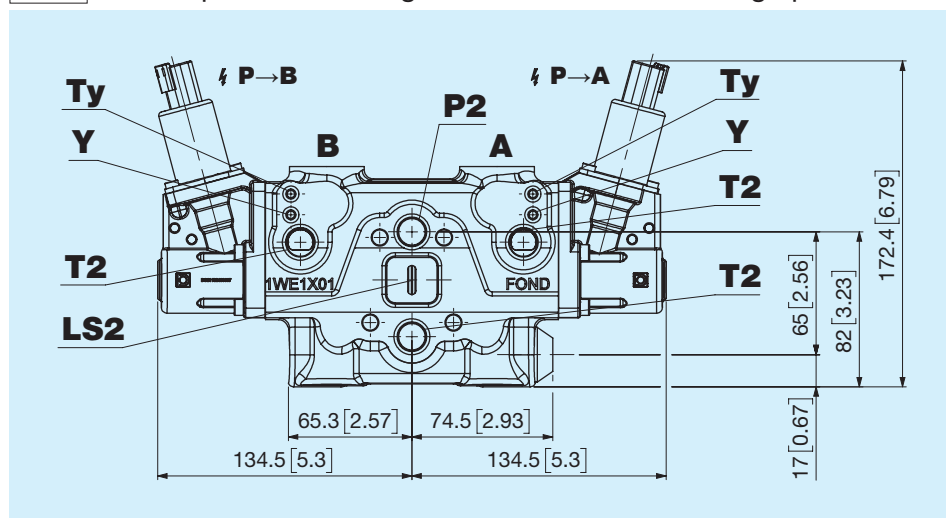


Codice	Tipo	Serraggio Nm
B	1/2" GAS ISO 1179	70
F	3/4" GAS ISO 1179	150
N	M22x1,5 ISO 9974	70
J	M22x1,5 ISO 6149	78
5	M27x2 ISO 9974	160
U	M27x2 ISO 6149	170
R	7/8" - 14 SAE ISO 11926	77
V	1" 1/16 - 12 SAE ISO 11926	125

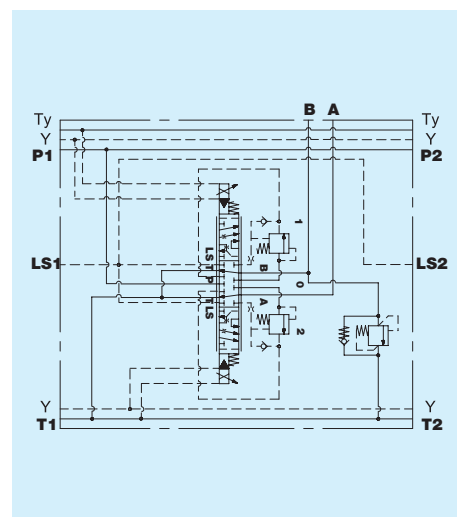
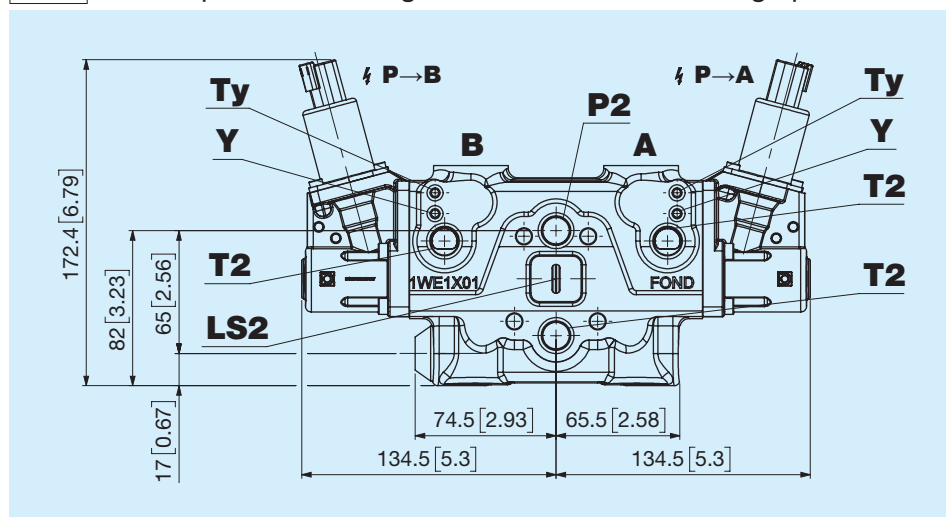
NN None



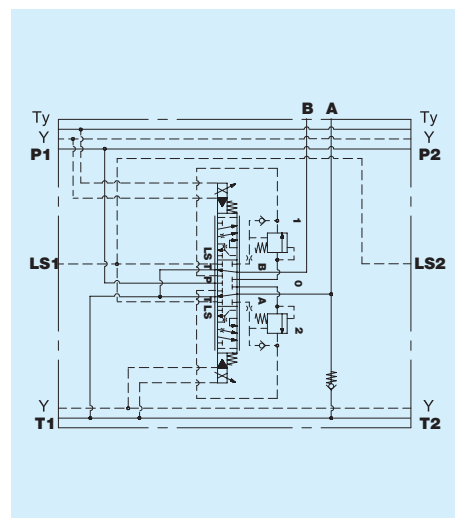
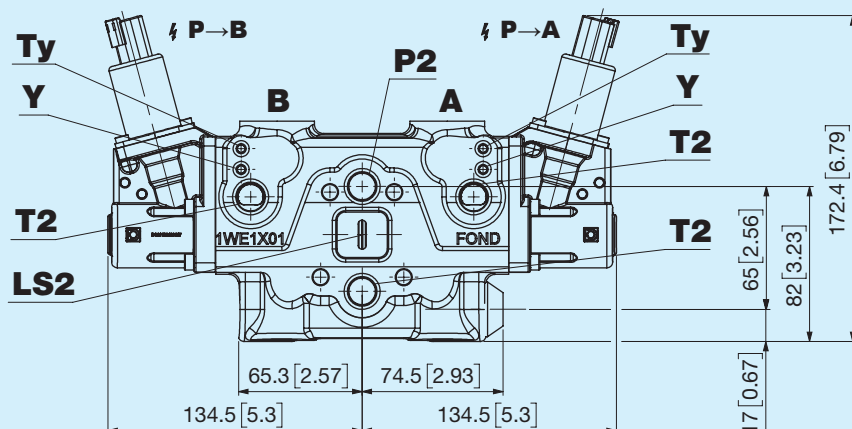
RC Internal pressure limiting and anticavitation cartridge port A



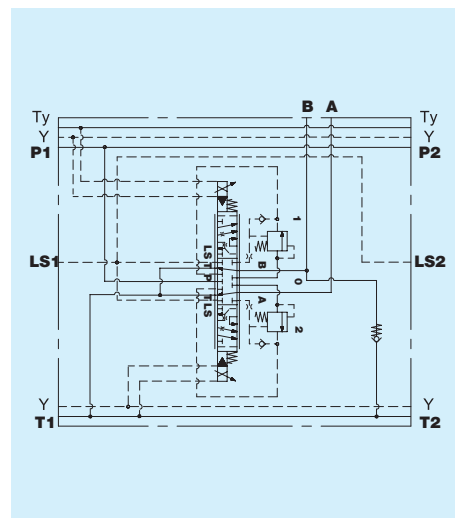
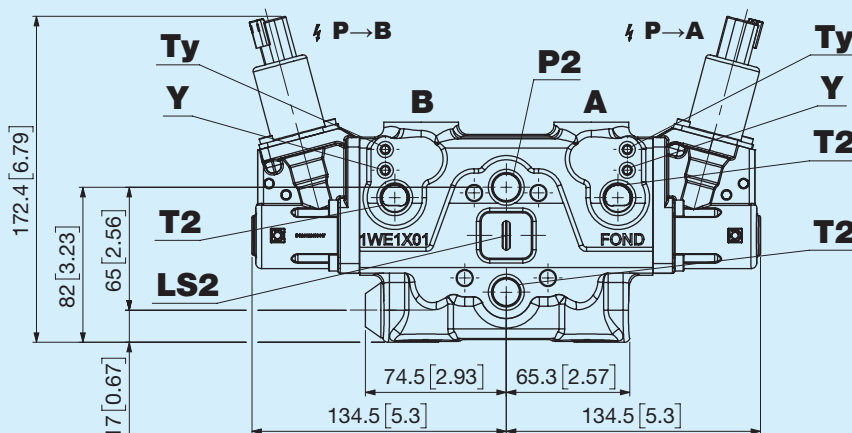
RC Internal pressure limiting and anticavitation cartridge port B



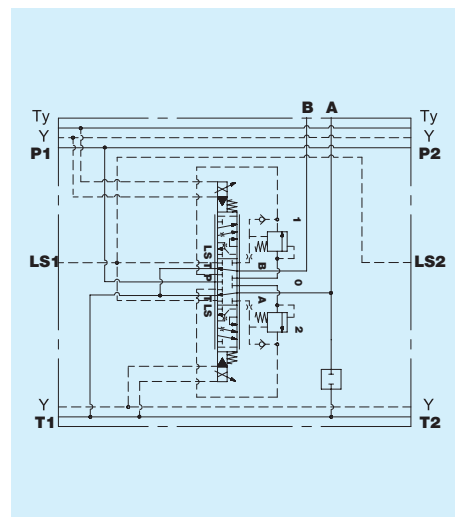
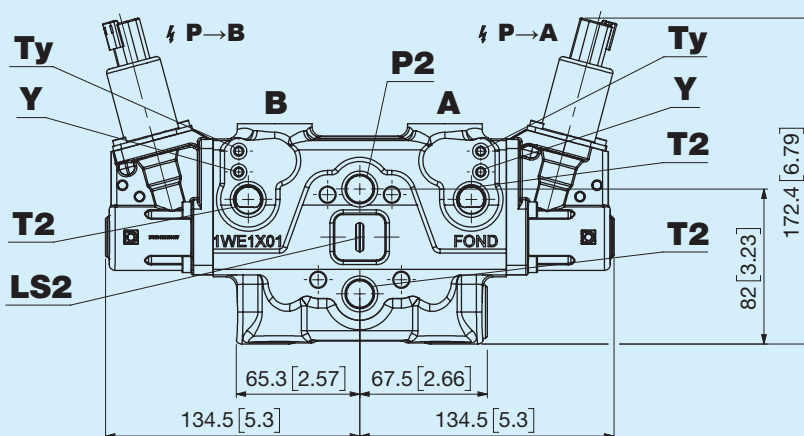
VC Anticavitation valve port A



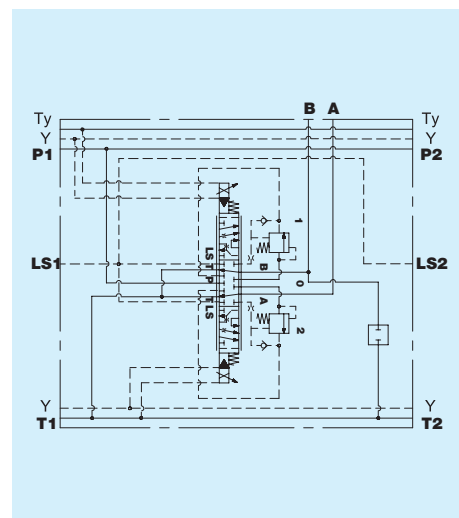
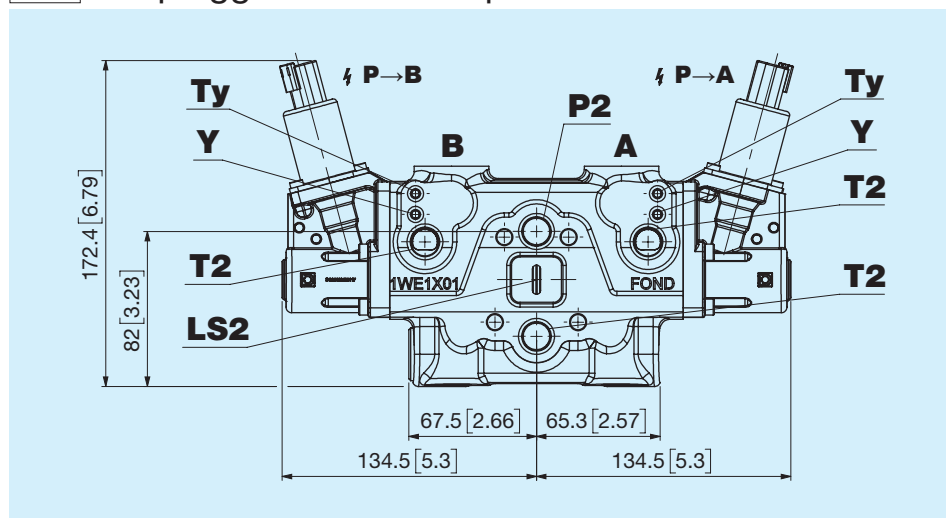
VC Anticavitation valve port B



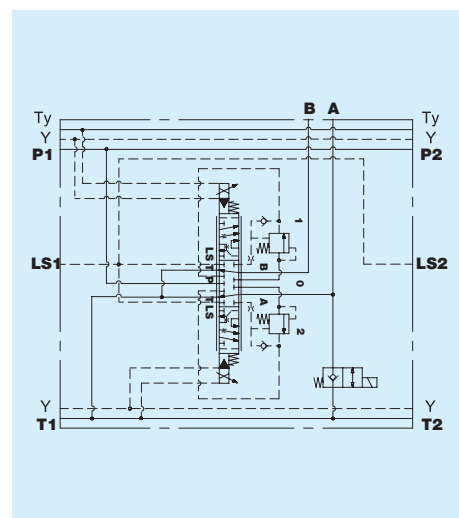
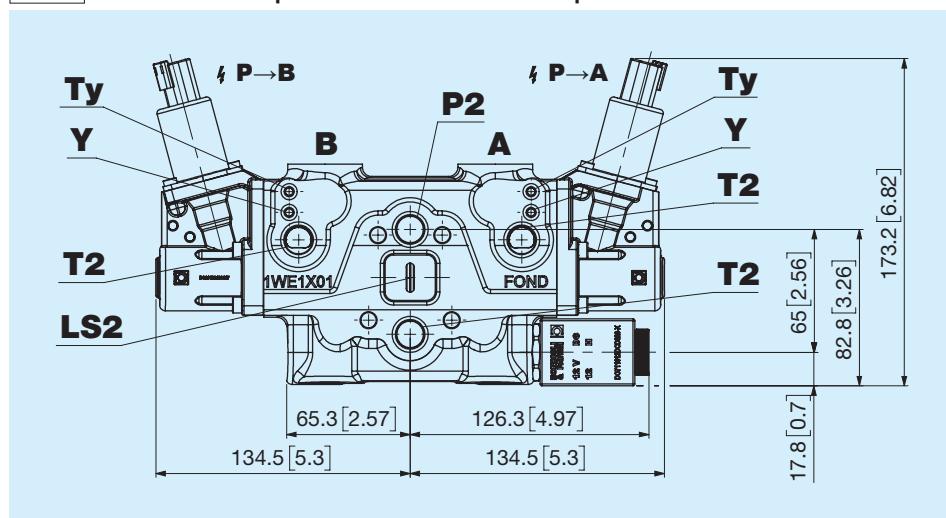
TP Set plugged for RC/VC port A



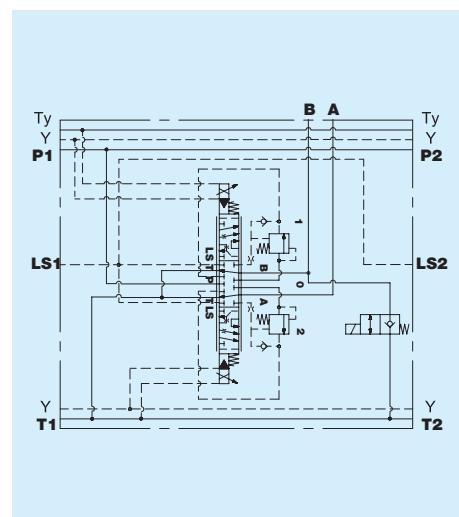
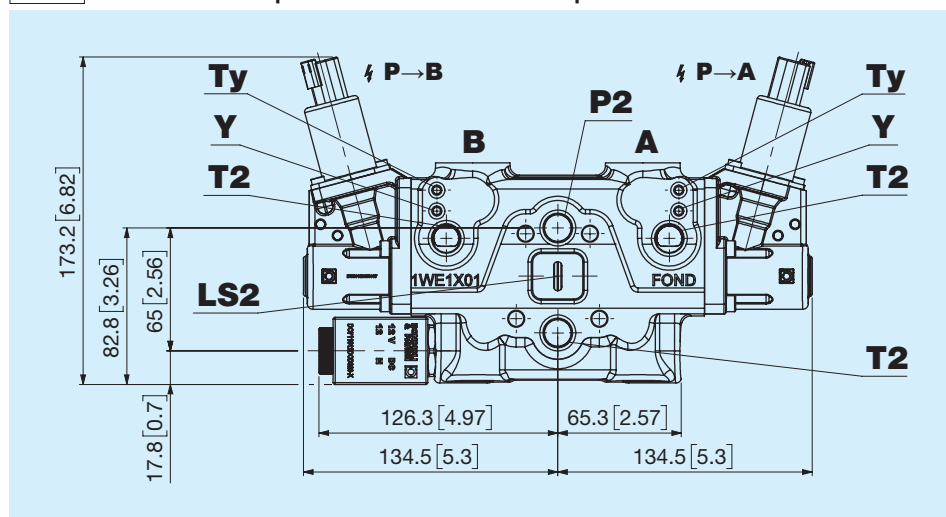
TP Set plugged for RC/VC port B



NE Solenoid operated valve 2/2 port A



NE Solenoid operated valve 2/2 port B



Possible valve combinations port A and B

Port A	Port B				
	NN	TP	RC	VC	NE
NN	•	•	•	•	•
TP	•	•	•	•	•
RC	•	•	•	•	•
VC	•	•	•	•	•
NE	•	•	•	•	•

NN - Nessuna

TP - Predisposta tappata

RC - Valvola limitatrice di pressione e di anticavitazione

VC - Valvola di anticavitazione

NE - Elettrovalvola 2/2

BW1477FP	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	Actuators																
	P Proportional					O ON-OFF											
3	4	5	Spool types														
			001 Spool type					003 Spool type									
6	7	Flow rate $\Delta P = 18$ bar															
		0A 120 l/min - 31.70 US gpm				0B 90 l/min - 23.77 US gpm				0C 60 l/min - 15.85 US gpm				0D 30 l/min - 7.92 US gpm			
8	Spool options																
	N None					G Spool position electromagnetic sensor											
9	Spool stroke limiting port A																
	N None					A With limiting											
10	Spool stroke limiting port B																
	N None					A With limiting											
11	Thread Port A and B																
	B 1/2" GAS ISO 1179				N M22x1.5 ISO 9974				5 M27x2 ISO 9974				R 7/8" - 14 SAE ISO 11926				
	F 3/4" GAS ISO 1179				J M22x1.5 ISO 6149				U M27x2 ISO 6149				V 1" 1/16 - 12 SAE ISO 11926				
12	13	Port A valve type															
		NN None					VC Anticavitation valve					NE Solenoid operated valve 2/2					
		RC Pressure limiting and anticavitation cartridge					TP Set plugged										
14	15	RC calibration pressure port A															
		NN None				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			
		08 80 bar				14 140 bar				20 200 bar				26 260 bar			
		09 90 bar				15 150 bar				21 210 bar				27 270 bar			
		10 100 bar				16 160 bar				22 220 bar				28 280 bar			
16	17	Valve type port B															
		NN None					VC Anticavitation valve					NE Solenoid operated valve 2/2					
		RC Pressure limiting and anticavitation cartridge					TP Set plugged										

18	19	20	21
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18	19
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RC calibration pressure port B

NN None	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
08 80 bar	14 140 bar	20 200 bar	26 260 bar
09 90 bar	15 150 bar	21 210 bar	27 270 bar
10 100 bar	16 160 bar	22 220 bar	28 280 bar

20

Voltage and connector

G 12V Deutsch	H 24V Deutsch
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21

External treatment

A External treatment	N None
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