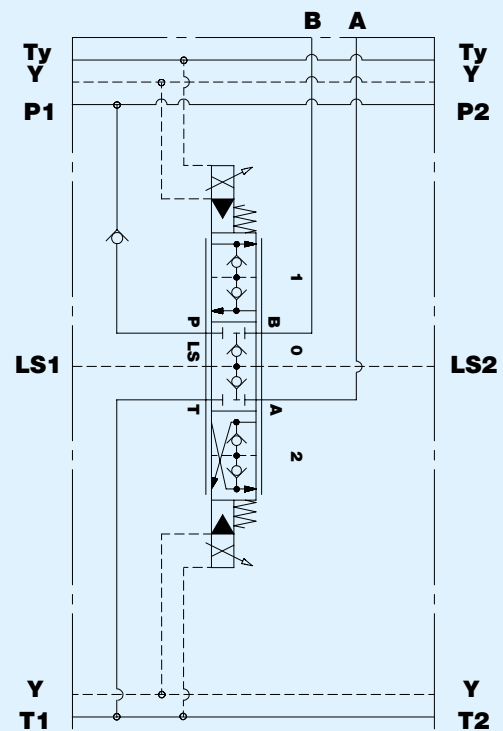


BW1477AP Element 6/3 Load sensing with electro-hydraulic actuator Interface IBW1477

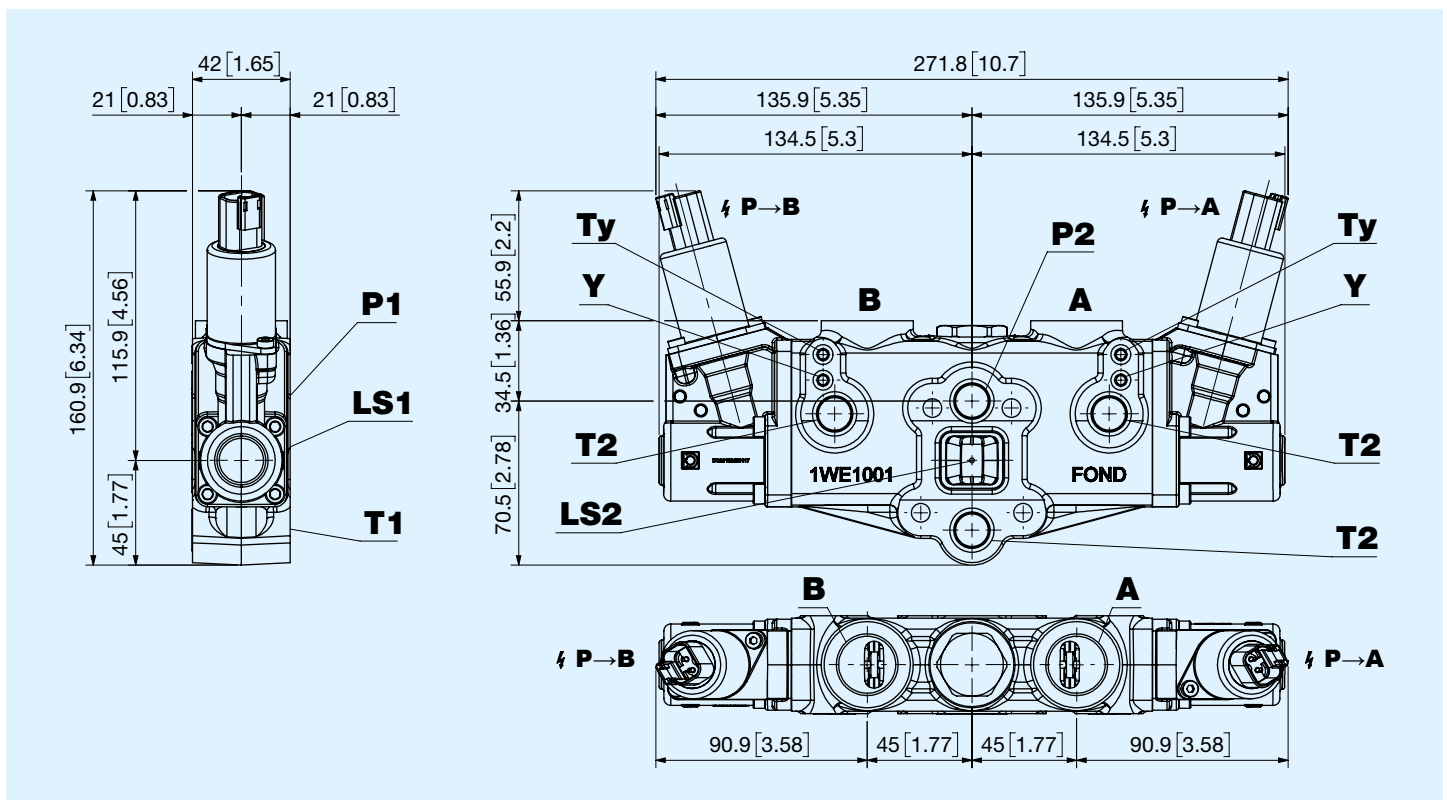


Before use, carefully read the GENERAL INSTRUCTIONS FOR USE OF DIRECTIONAL CONTROL VALVES

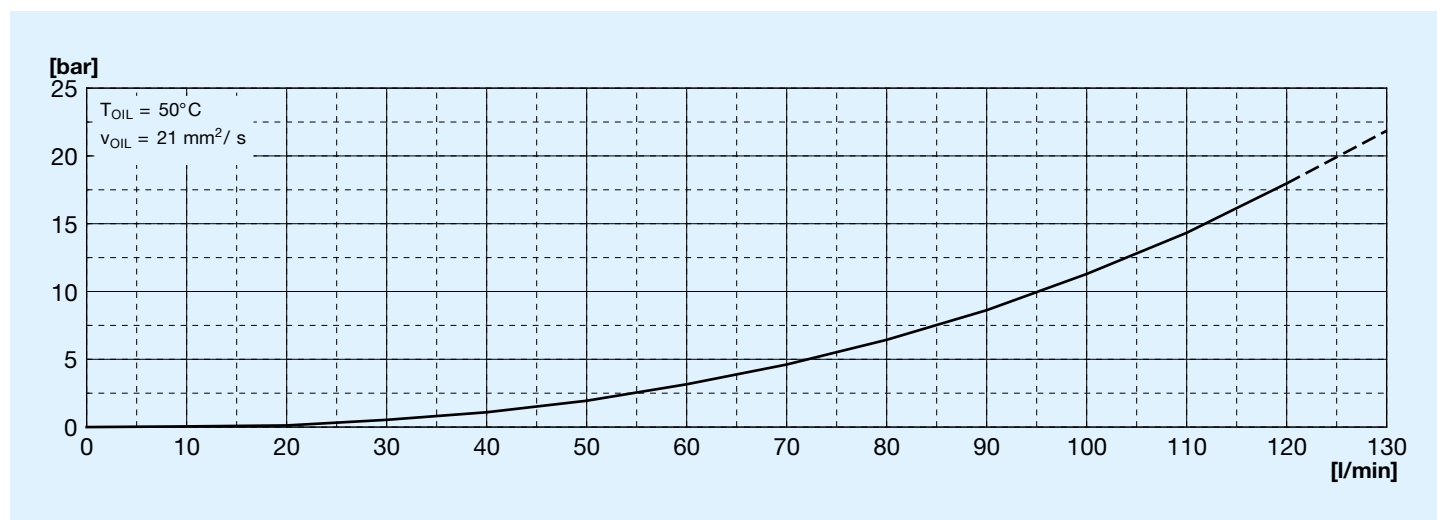
Nominal flow	120 l/min - $\Delta P=18$ bar 31.7 US gpm - $\Delta P=261$ psi
Nominal pressure	300 bar 4351 psi
Maximum tank pressure	50 bar 725 psi
Internal leakage	8 cc/min (21 cSt - 100 bar)
Temperature range	-20°C +85°C NBR seals (max peak +100°C) -20°C + 130°C HNBR seals
Oil viscosity	from 15 mm²/s to 90 mm²/s (15 cSt to 90 cSt)
Fluid	Hydraulic fluids as defined in ISO 6743-4 standard
Weight	3.6 kg 7.9 lb
Interface	IBW1477



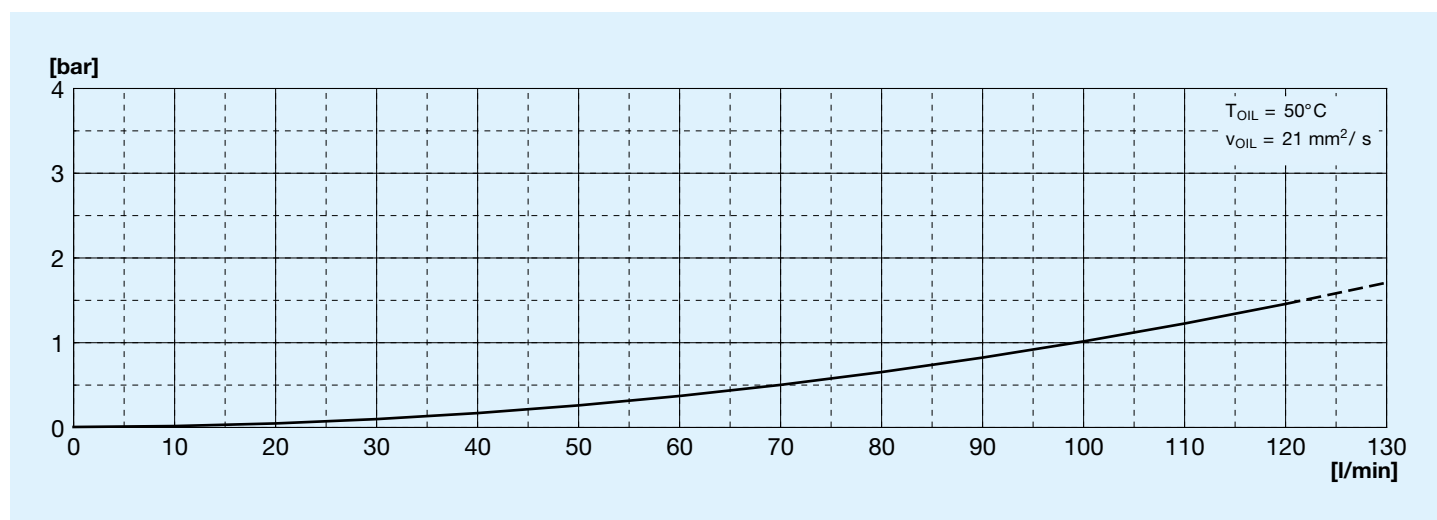
Dimensions



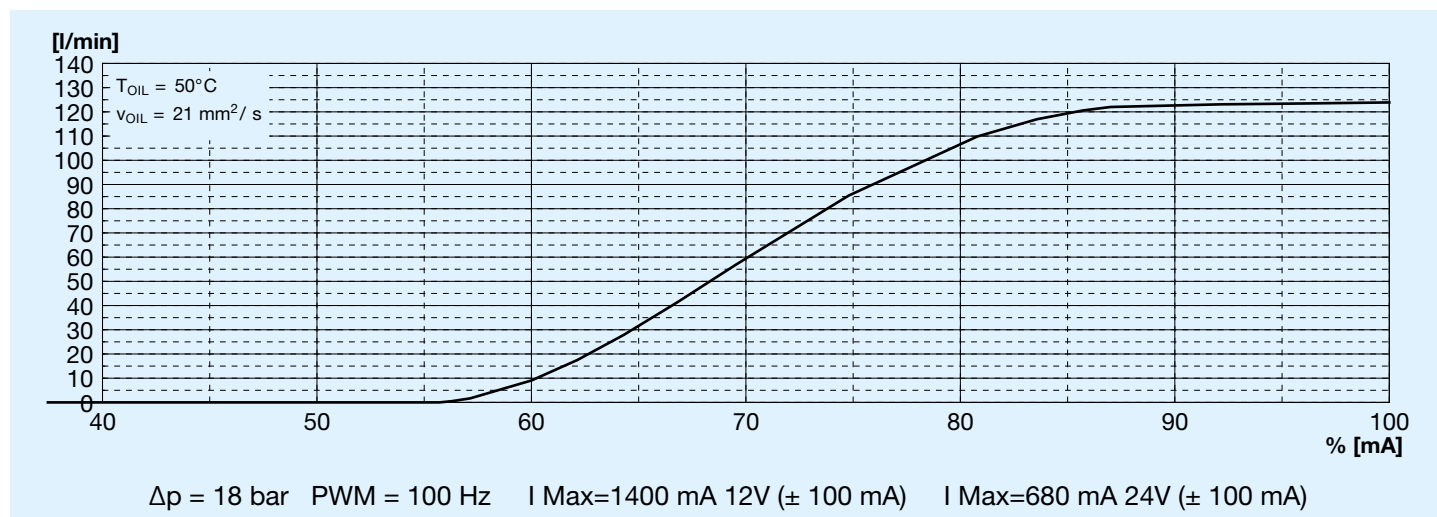
Flow curve P-AB



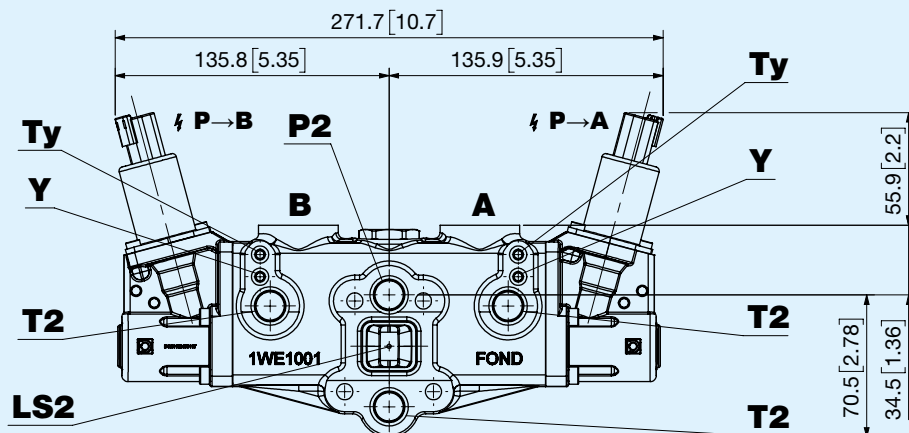
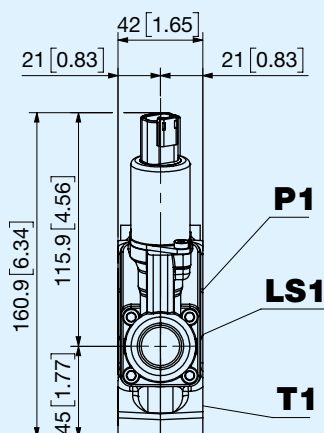
Flow curve AB-T



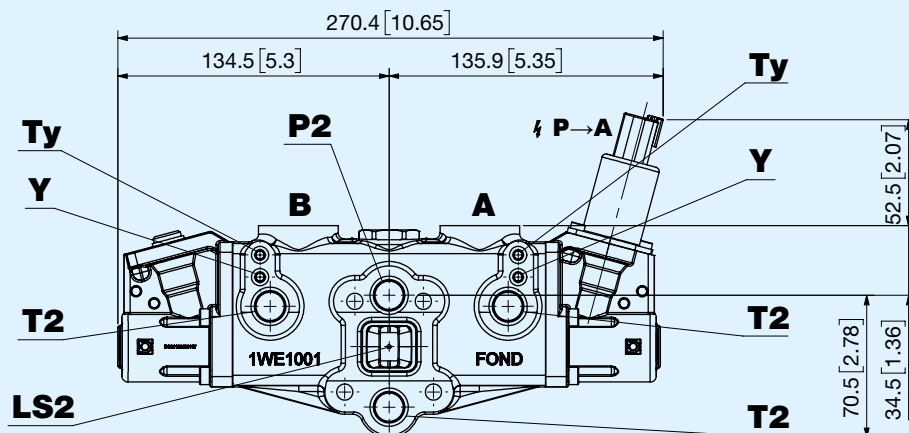
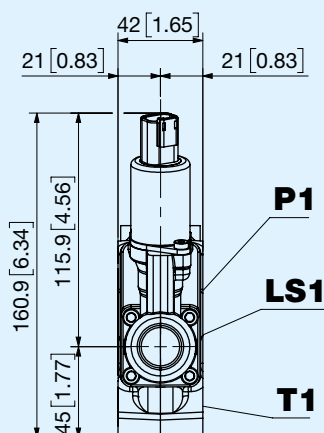
Flow curve Metering



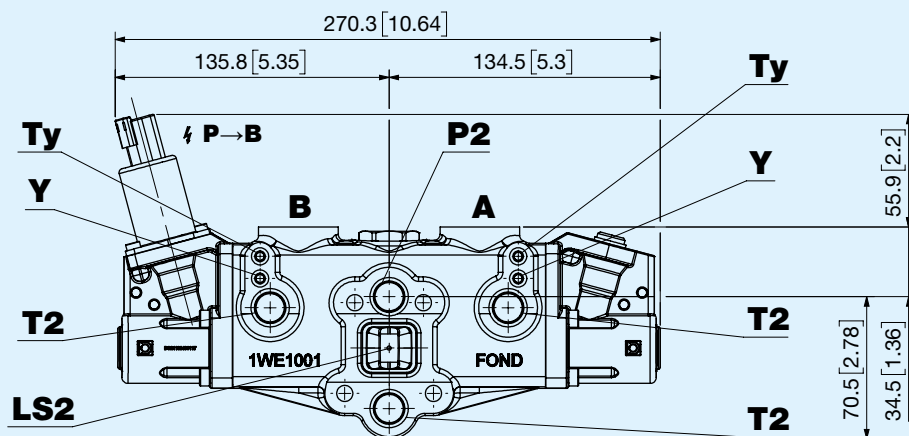
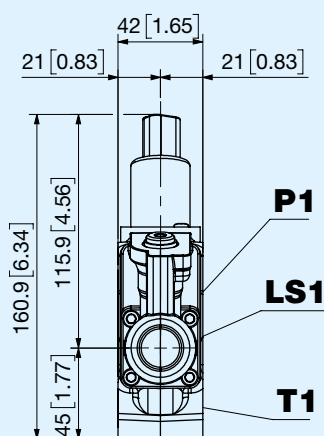
A Two coils, A and B port side



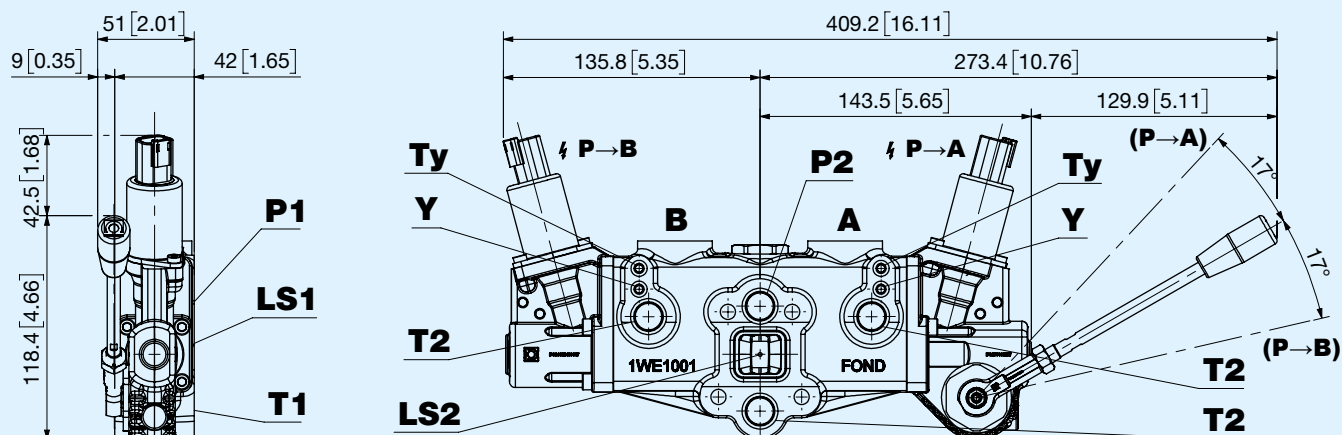
E One coil, A port side



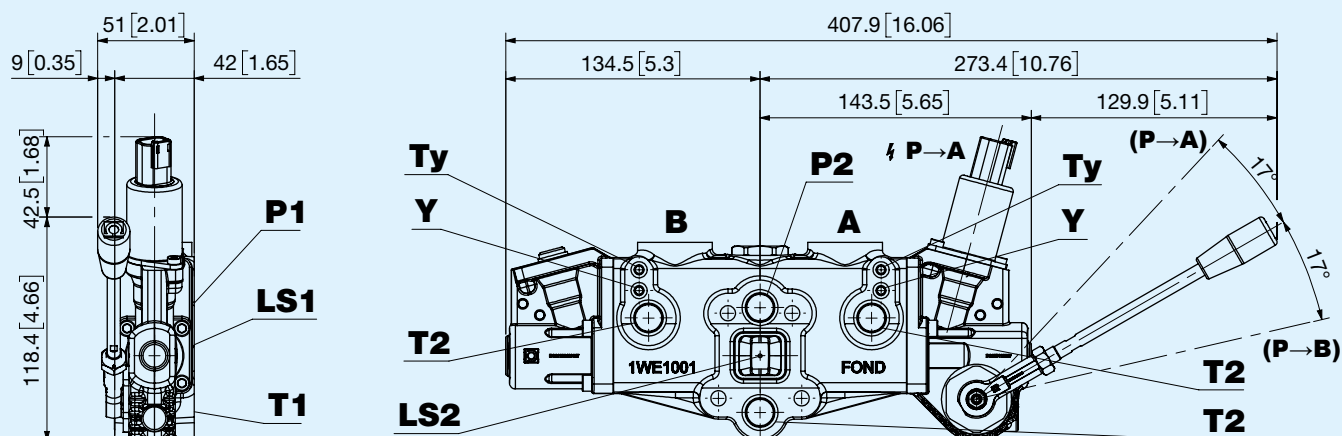
F One coil, B port side



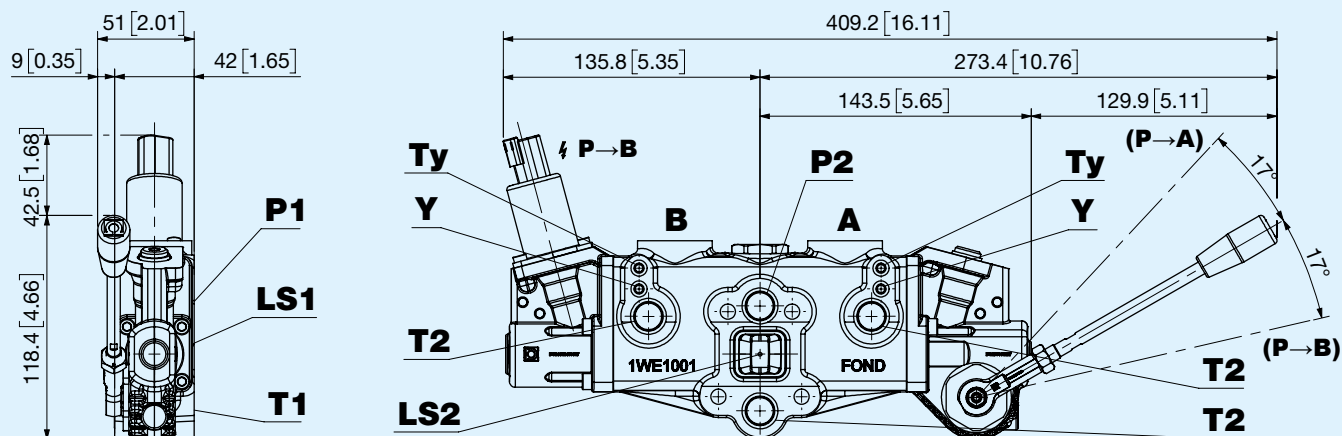
B Two coils, A and B port side and emergency lever



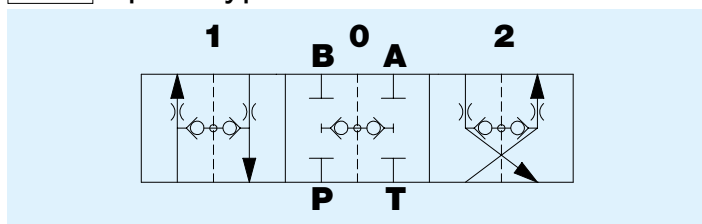
C One coil, A port side and emergency lever



D One coil, B port side and emergency lever



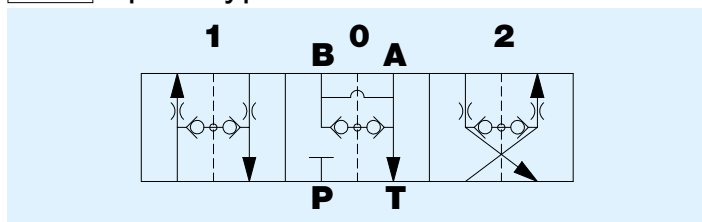
001 Spool type



Positions

1	0	2
P→B A→T	A— B— P— T—	P→A B→T

003 Spool type



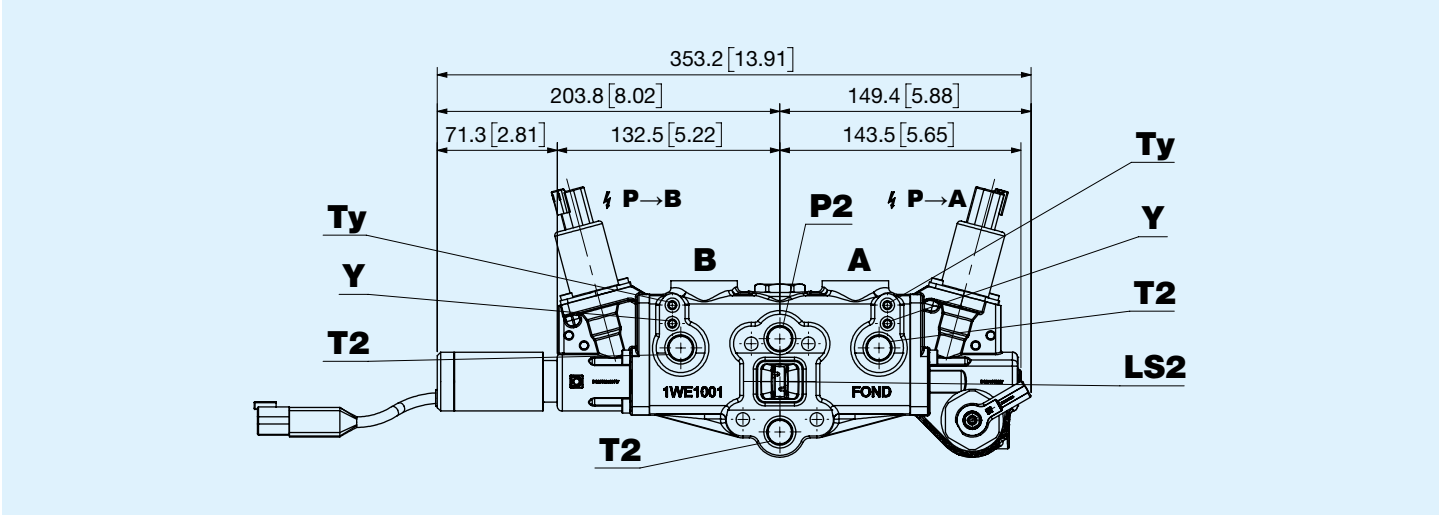
Positions

1	0	2
P→B A→T	B,A→T P—	P→A B→T

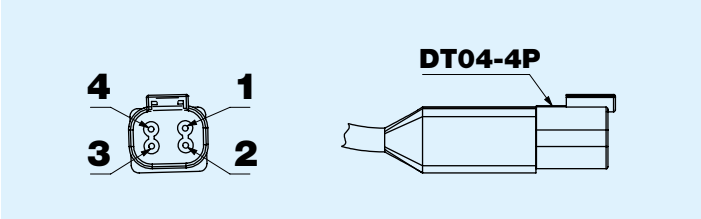
Flow rate $\Delta P = 18$ bar

Model	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

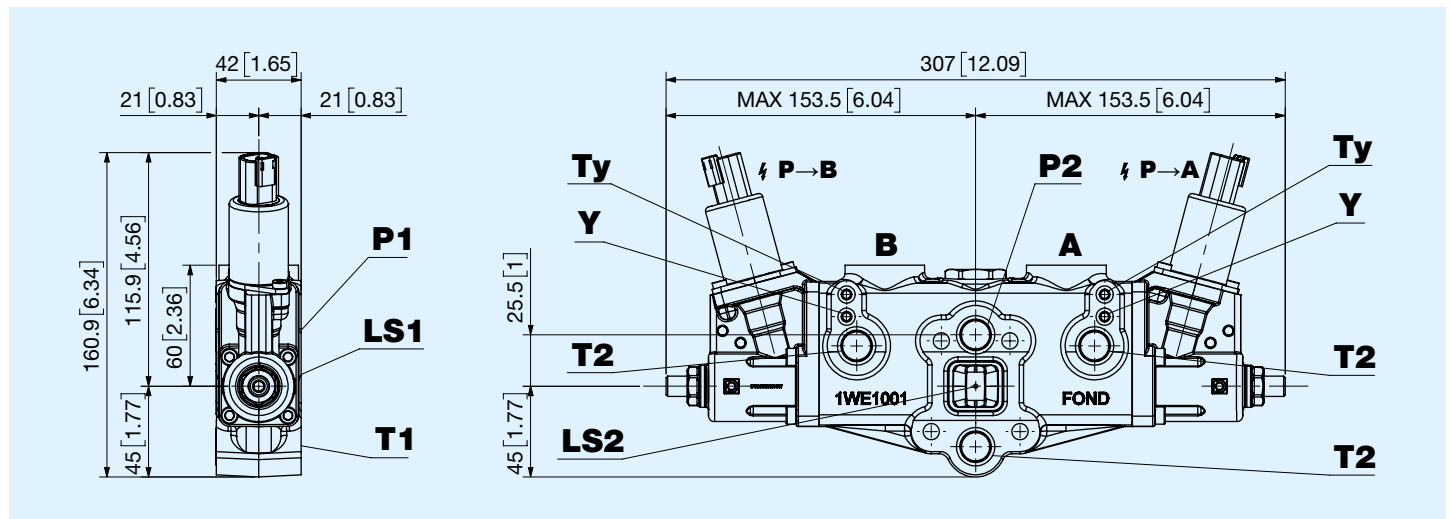


PIN	Connection
1	+V (Voltage)
2	-V (Voltage-GND)
3	Output signal

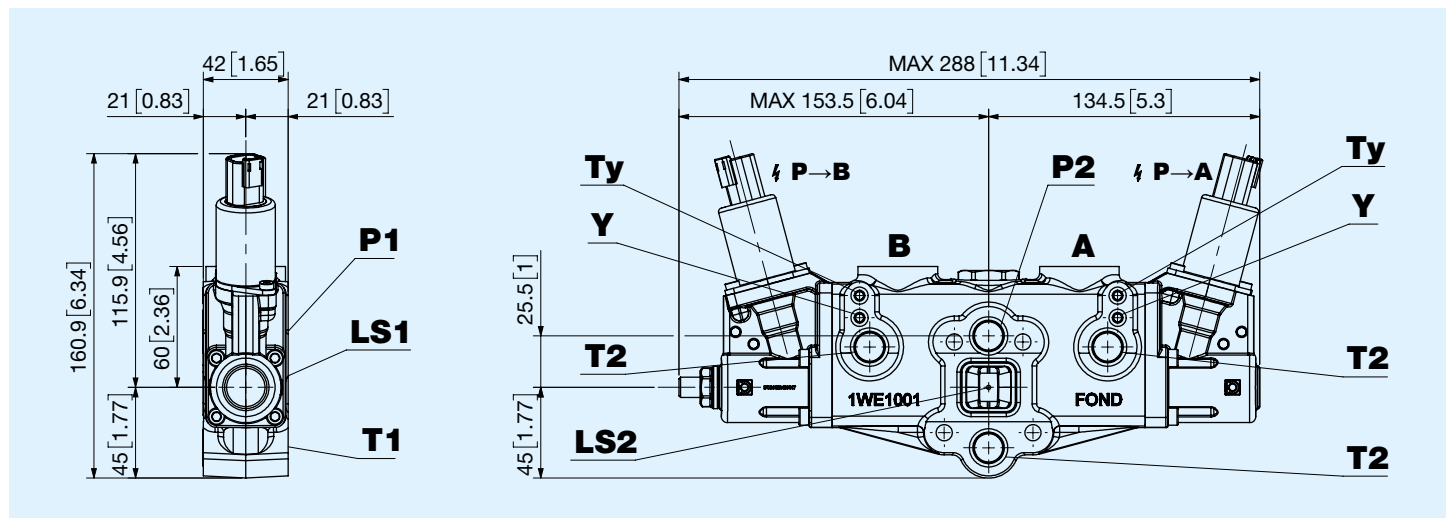
Technical data of electromagnetic sensor

Temperature range	-40°C +100°C
Maximum operating pressure	60 bar- 870.2 psi
VB	9 - 32 V
Output signal	PNP
Maximum output current	15 mA

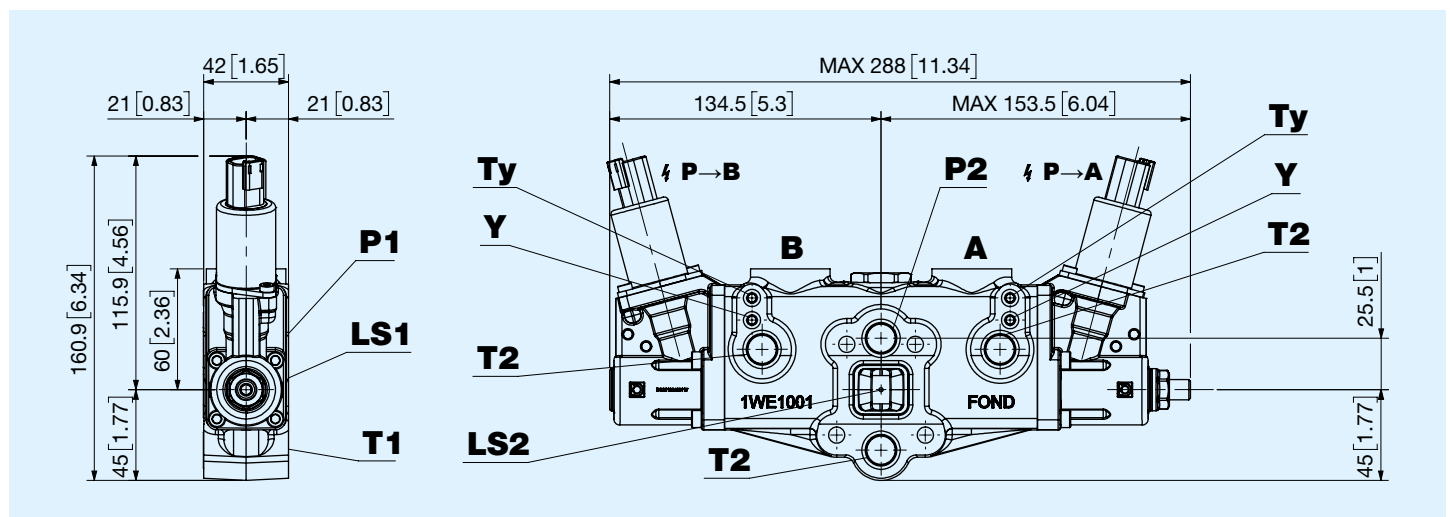
Spool stroke limiting port A and B



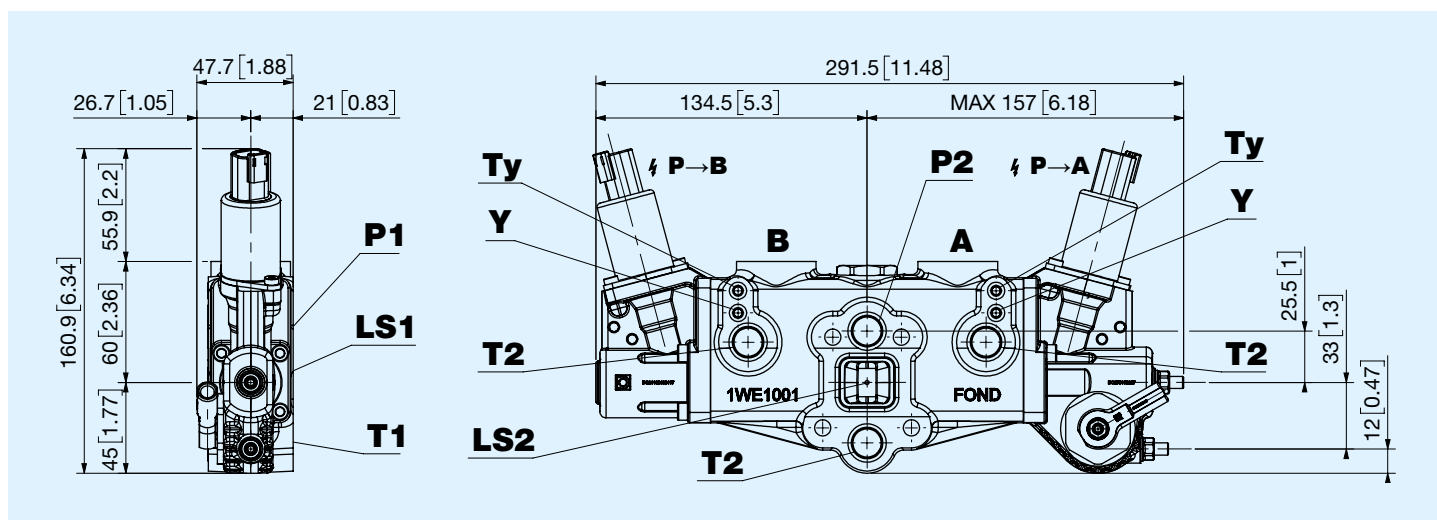
Spool stroke limiting port A



Spool stroke limiting port B

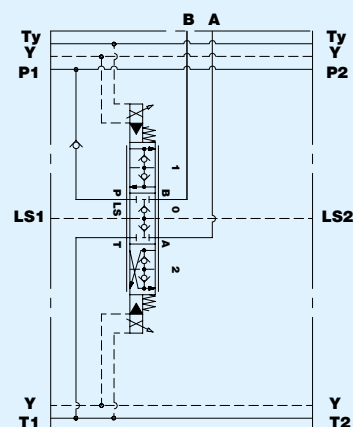
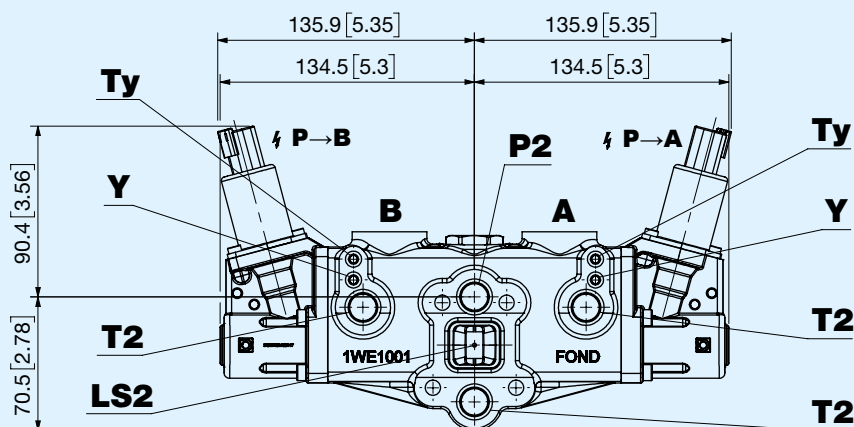


Spool stroke limiting port A and B and emergency lever

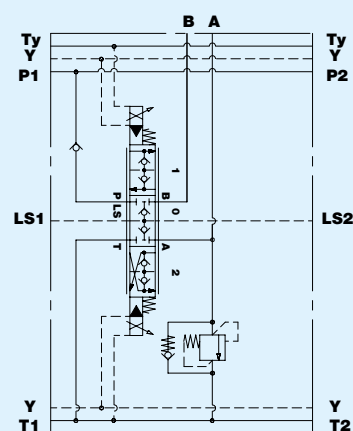
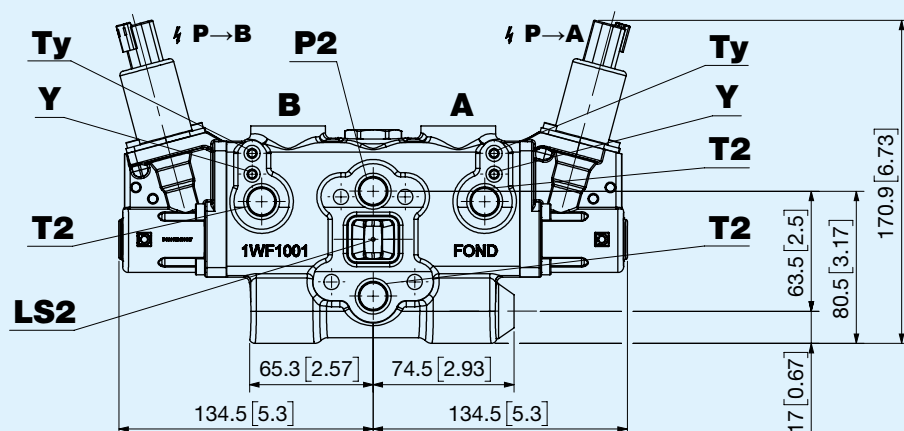


Model	Type	Torque Nm
B	1/2" GAS ISO 1179	70
F	3/4" GAS ISO 1179	150
N	M22x1.5 ISO 9974	70
J	M22x1.5 ISO 6149	78
5	M27x2 ISO 9974	160
U	M27x2 ISO 6149	170
R	7/8" - 14 SAE ISO 11926	77
V	1" 1/16 - 12 SAE ISO 11926	125

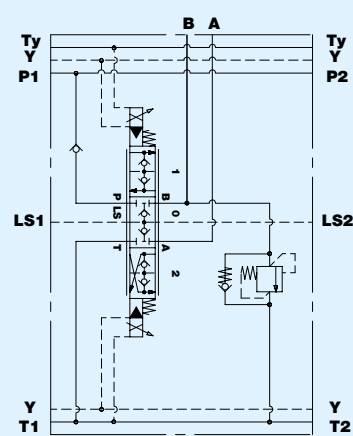
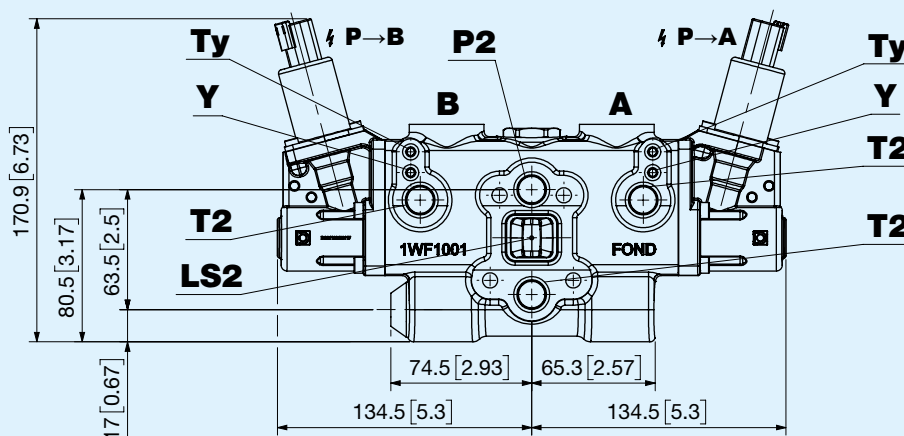
NN None



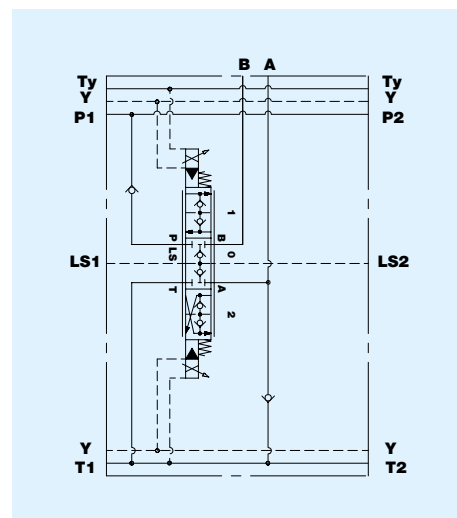
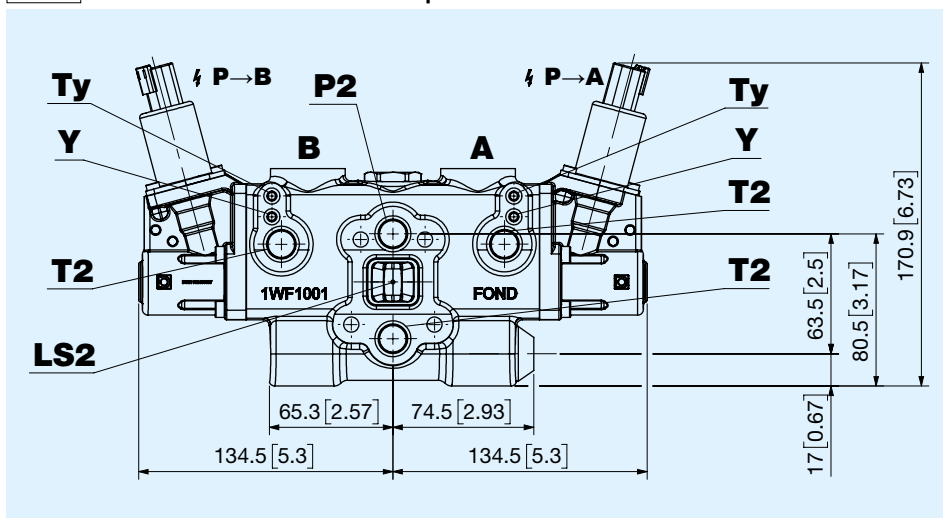
RC Internal pressure limiter and anticavitation cartridge port A



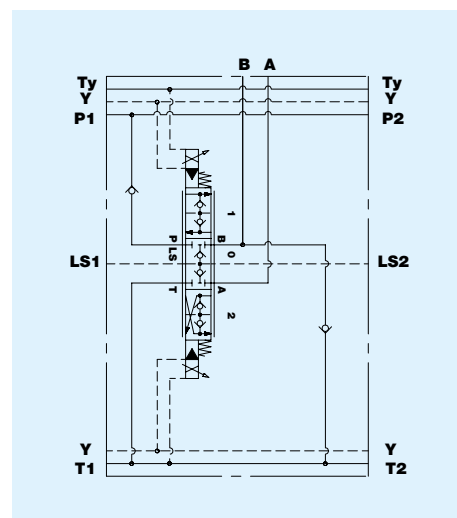
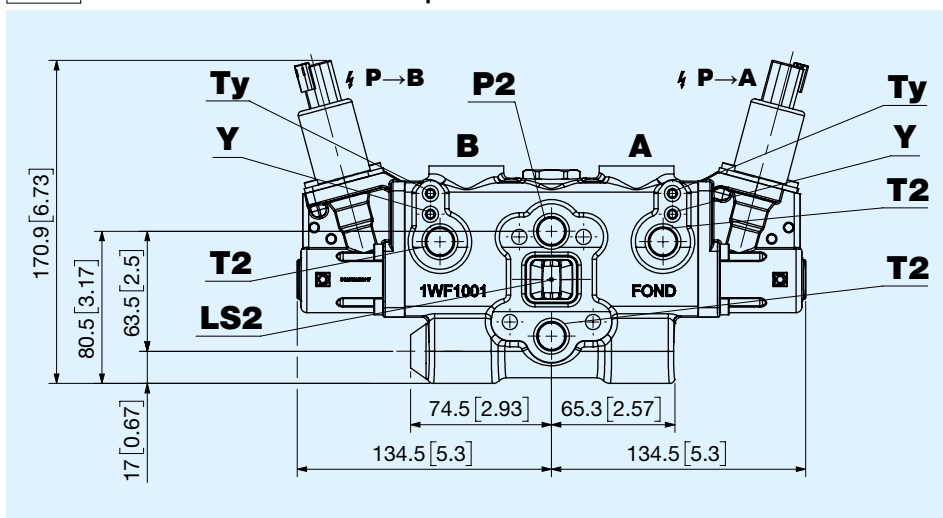
RC Internal pressure limiter and anticavitation cartridge port B



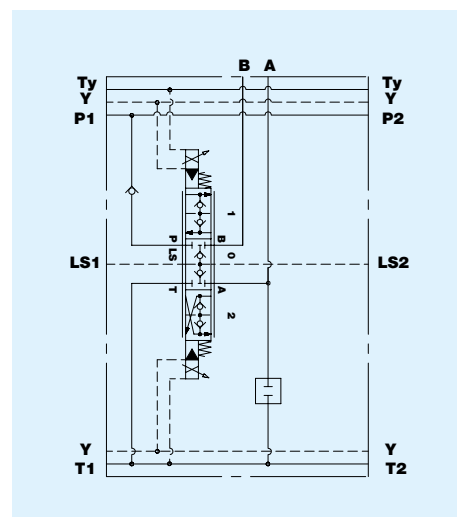
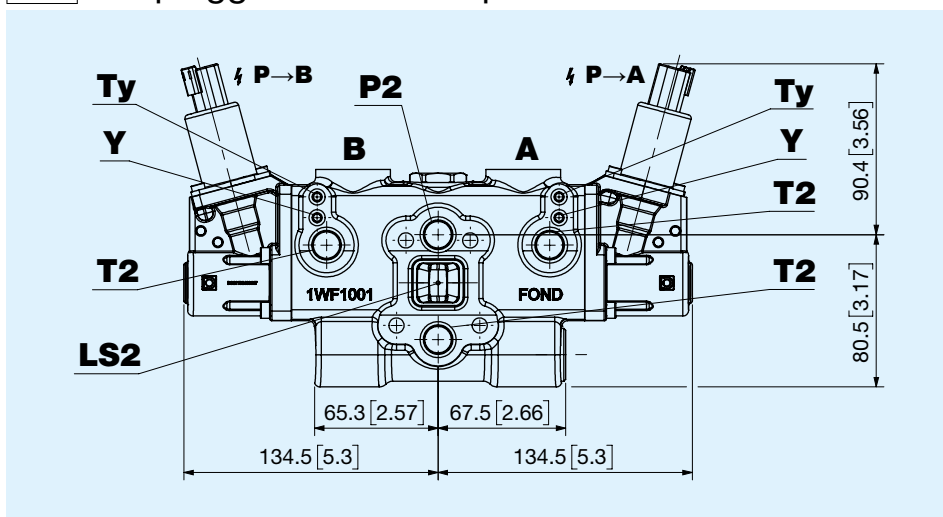
VC Anticavitation valve port A



VC Anticavitation valve port B



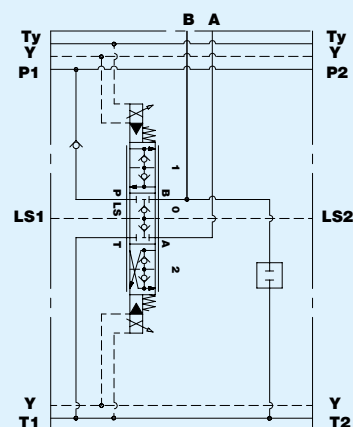
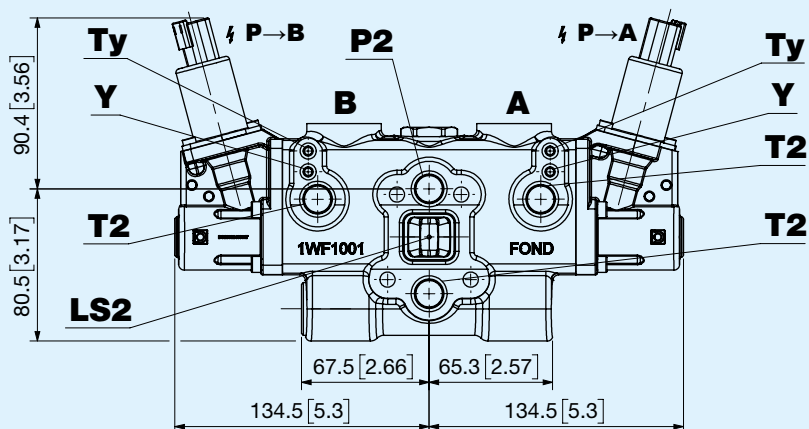
TP Set plugged for RC/VC port A



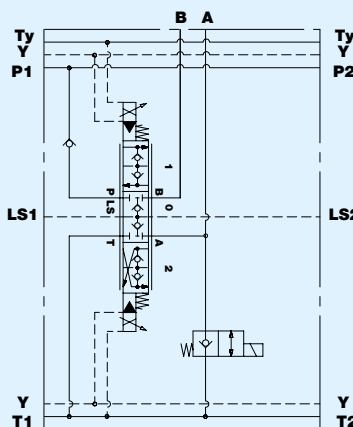
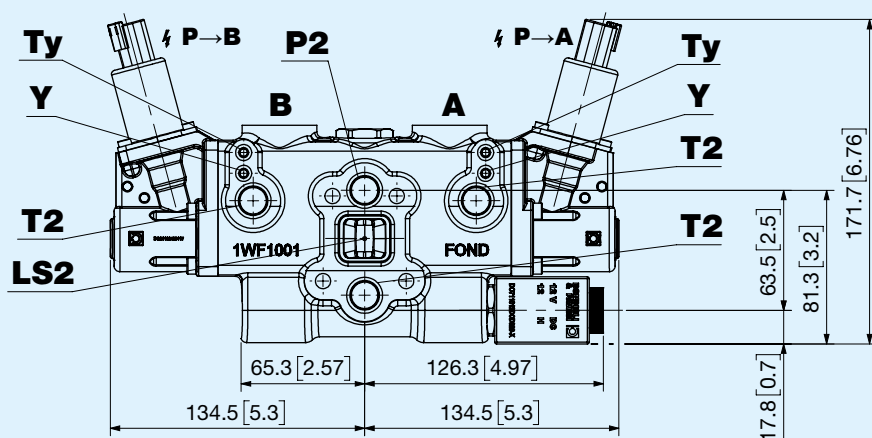
Valve type port A B

BW1477AP

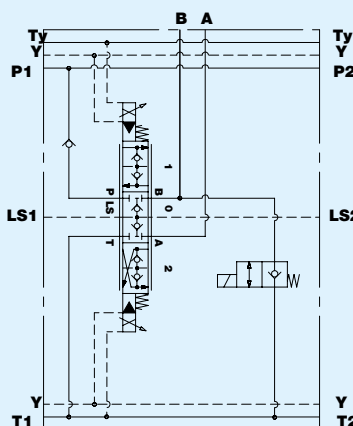
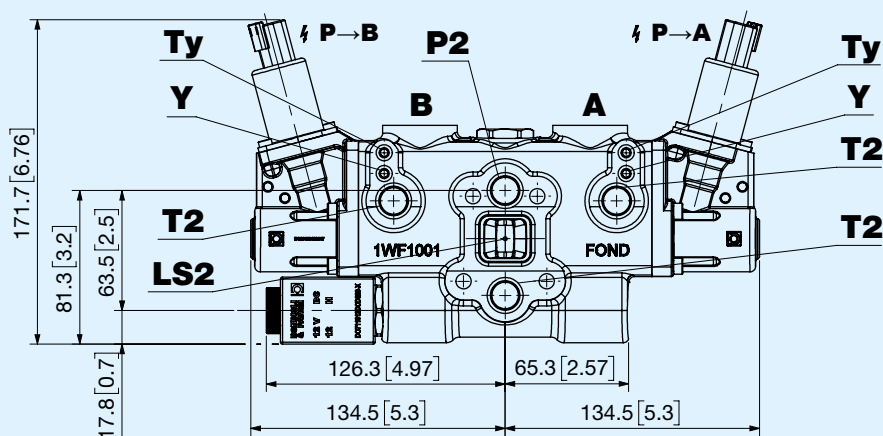
TP Set plugged for RC/VC port B



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 - None

TP - Plugged presetting

RC - Pressure limiter and anticavitation cartridge

VC - Anticavitation valve

NE - Solenoid operated valve 2/2

BW1477AP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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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 ?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 limiter 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 limiter and anticavitation cartridge TP Set plugged														

17	18	19	20	21

18	19

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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