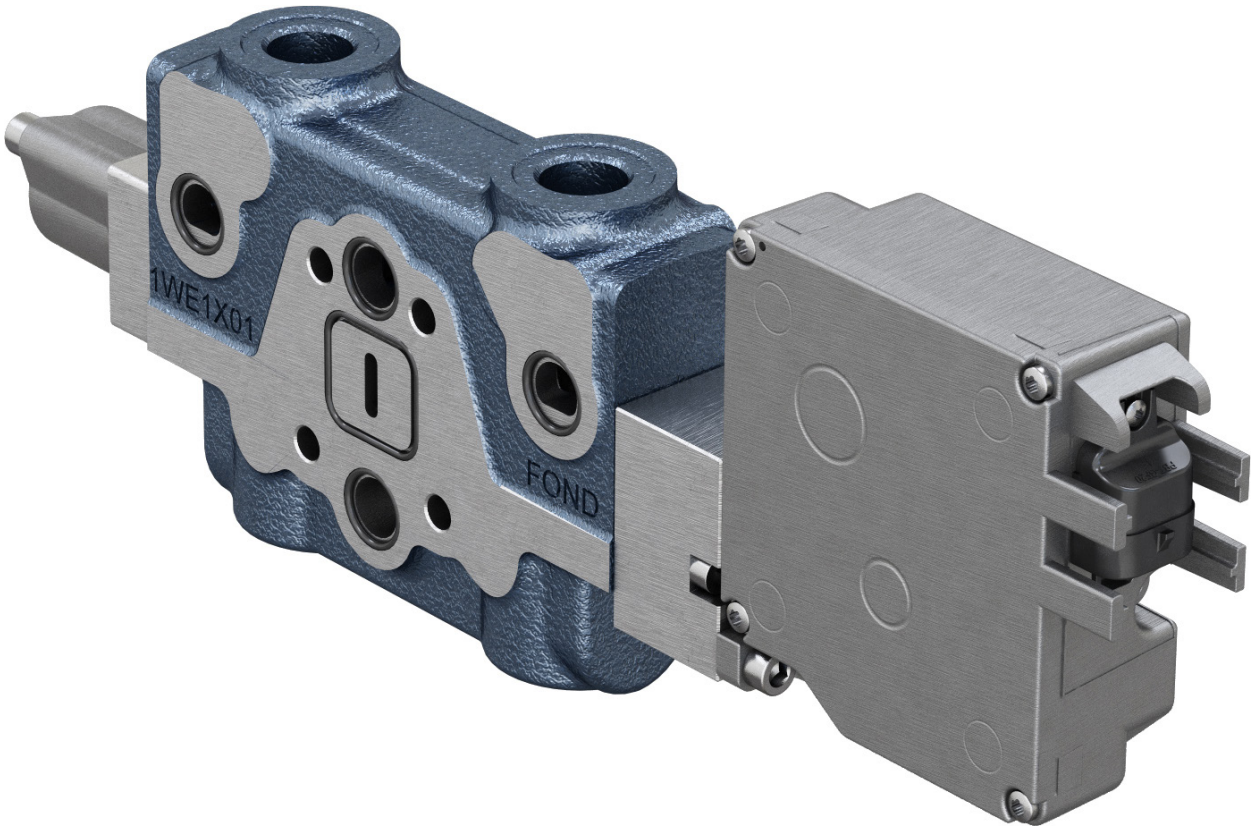
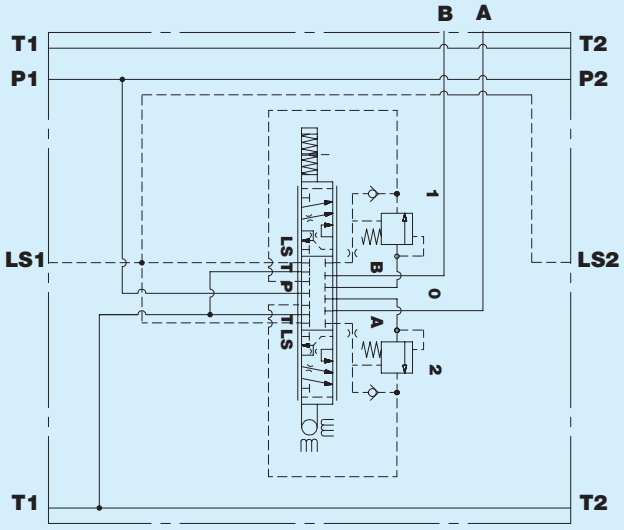
BW1455FS Flow Sharing Element with CAN mechatronic actuator Interface IBW1455

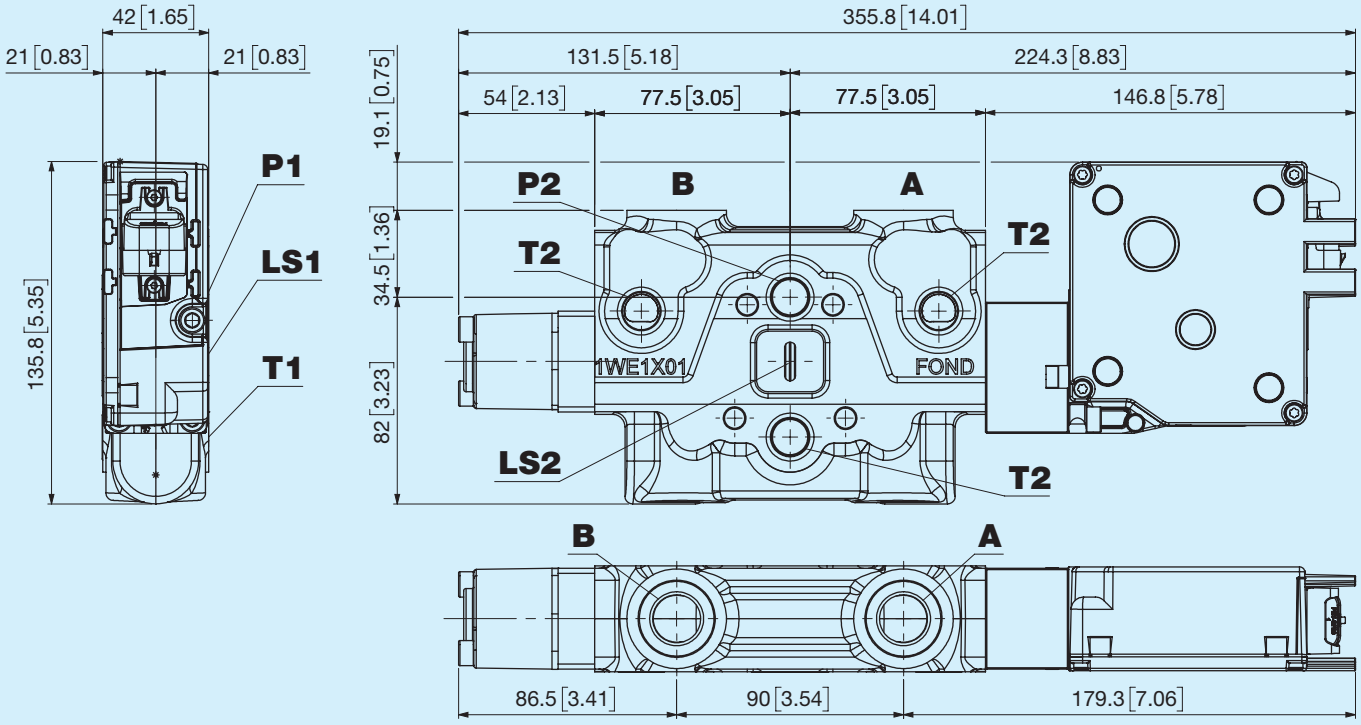


Before use, carefully read the GENERAL INSTRUCTIONS FOR USE OF DIRECTIONAL CONTROL VALVES

Nominal flow	**120 l/min - ΔP=18 bar** ***144 l/min - ΔP=25 bar*** ***31,7 US gpm - ΔP=261 psi*** ***38 US gpm - ΔP=362 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	**5.2 kg** ***11.4 lb***
Interface	**IBW1455**

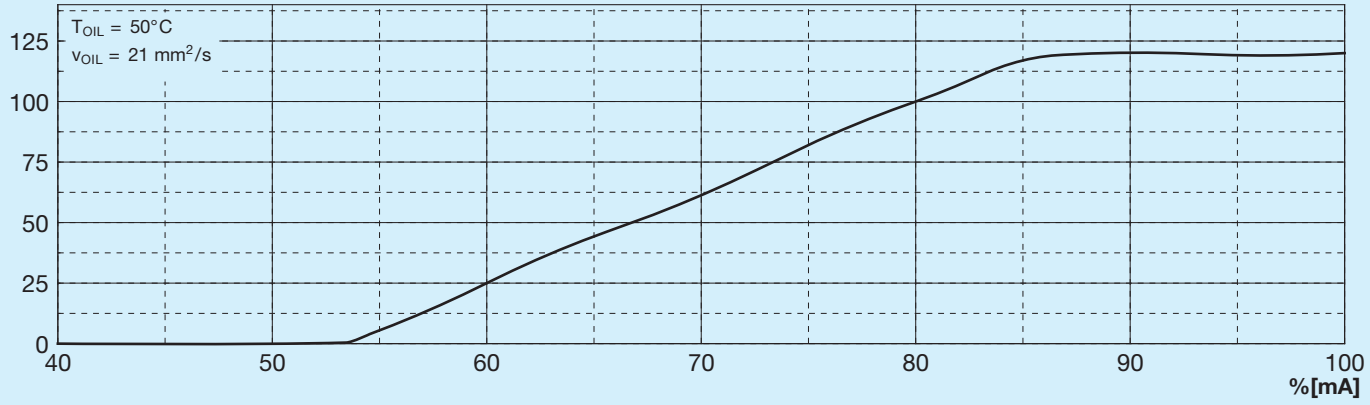


Dimensions



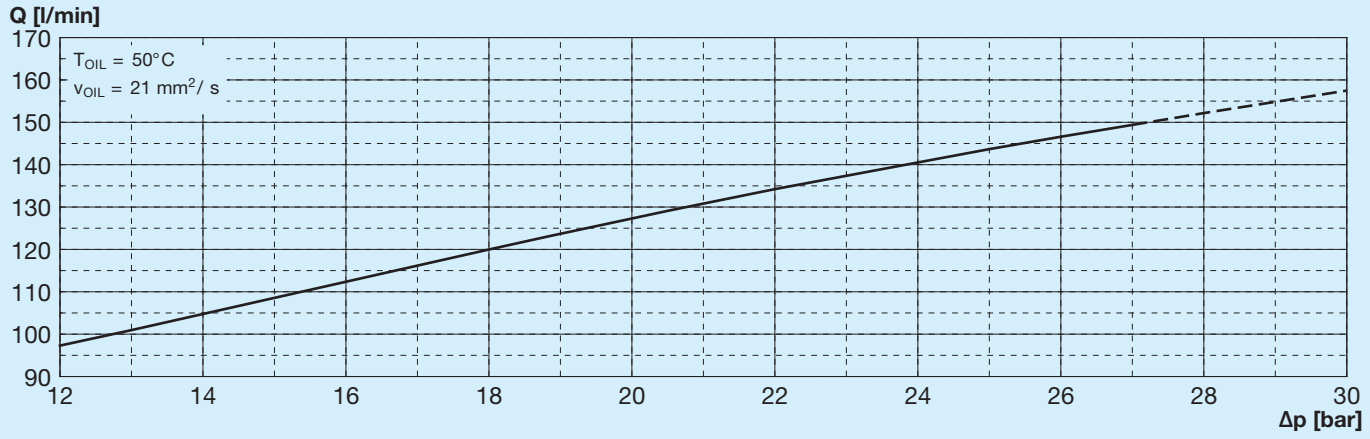
Flow curve

Flow curve Metering



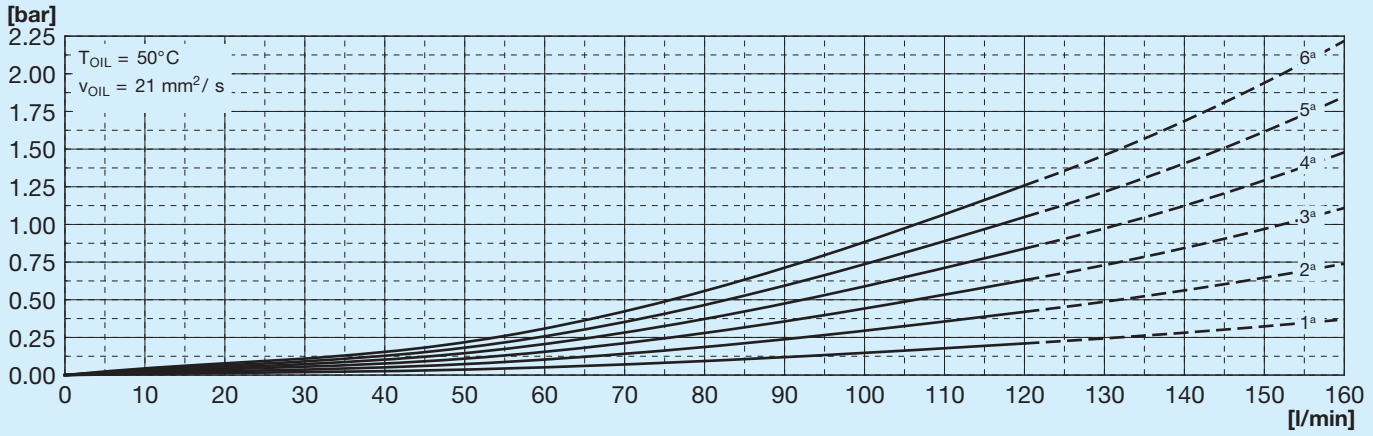
ΔP = 18 bar PWM = 100 Hz I Max=1400 mA 12V (± 100 mA) I Max=680 mA 24V (± 100 mA)

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

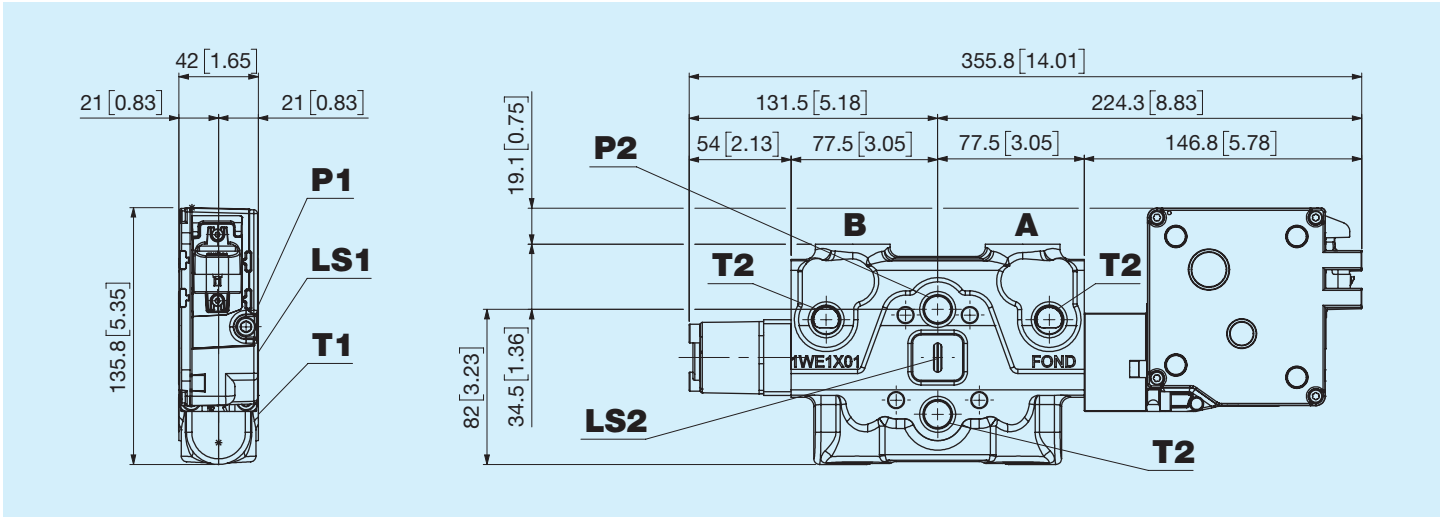


The spool flow rate is in relation to the pressure margin ΔP given by the difference in pressure on line P and the pressure measured on line LS at the end of the directional valve. The nominal flow of the spools is based on a pressure margin of 18 bar.

Line P head loss per section

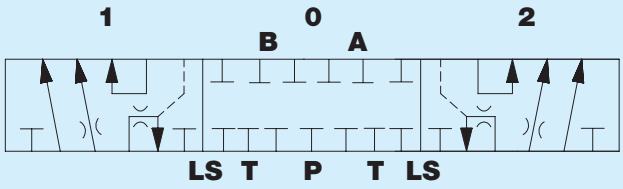


E Actuator port A side



Spool type and flow rate

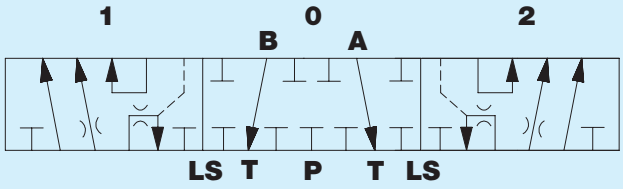
001 Spool type



Positions

1	0	2
P→B A→T	A┤ B┤ P┤ T┤	P→A B→T

003 Spool type



Positions

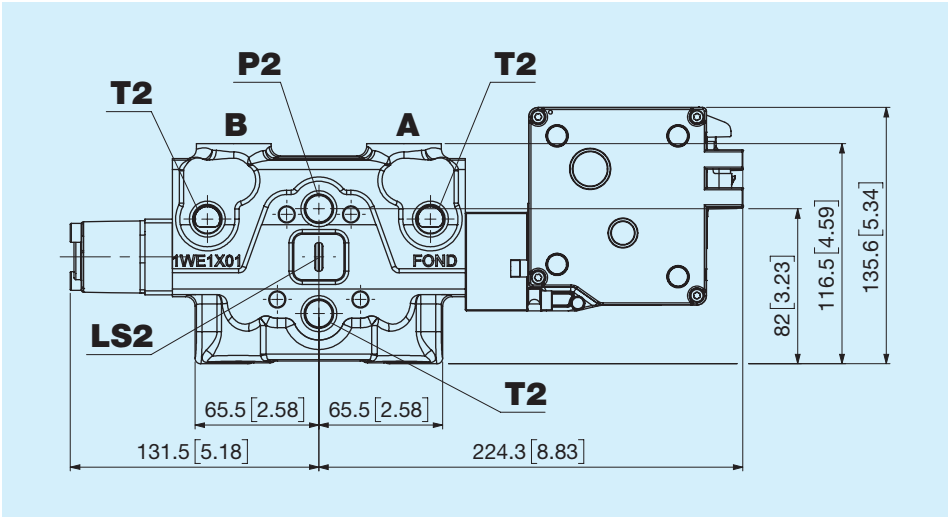
1	0	2
P→B A→T	B,A→T P┤	P→A B→T

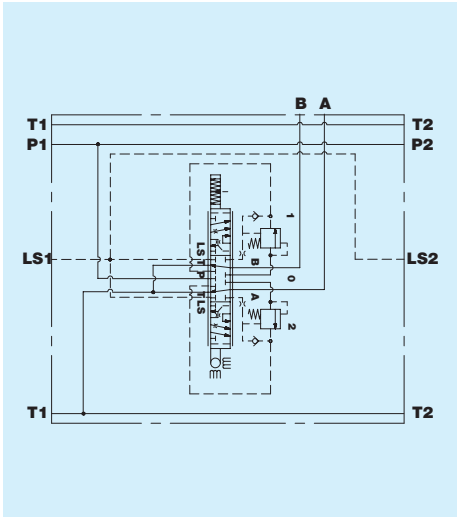
Flow rate ΔP = 18 bar

Model	l/min	US gpm
0A	120	31,7

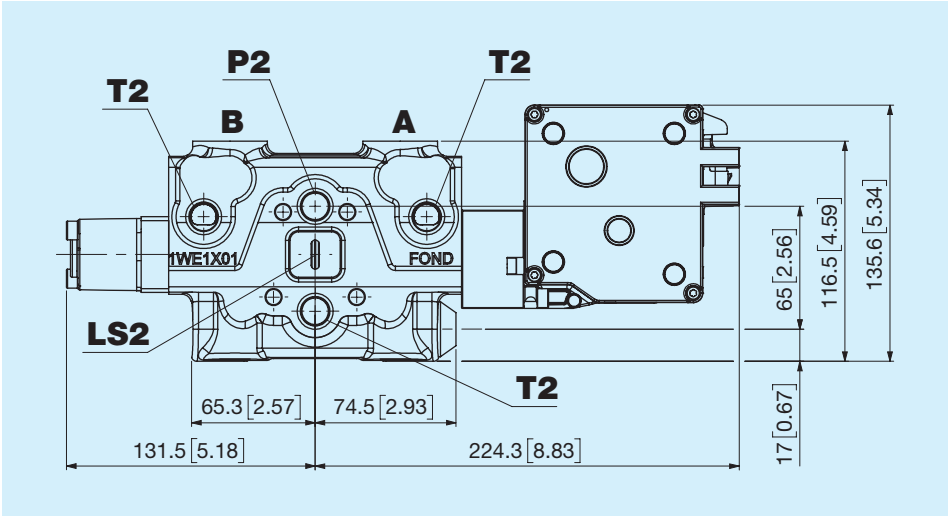
Model	Type	Torque **Nm**
B	1/2'' GAS ISO 1179	70
F	3/4'' GAS ISO 1179	150
N	M22x1.5 ISO 9974	70
J	M22x1.5 ISO 6149	78
5	M27x2 ISO 9974	160
U	M27x2 ISO 6149	170
R	7/8'' - 14 SAE ISO 11926	77
V	1'' 1/16 - 12 SAE ISO 11926	125

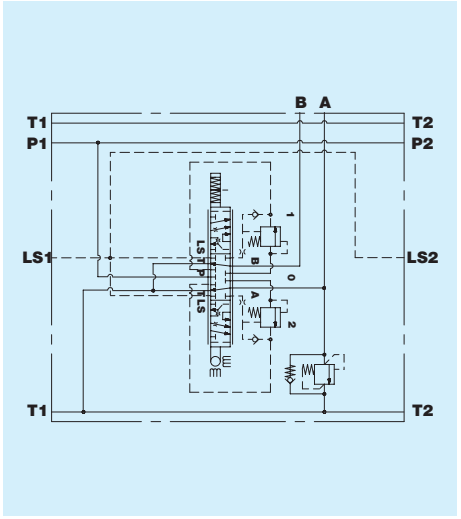
NN None



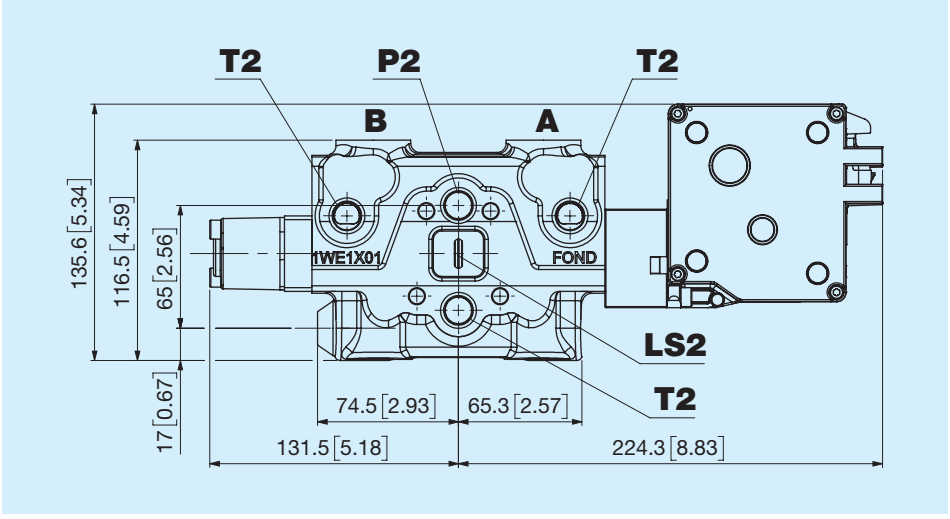


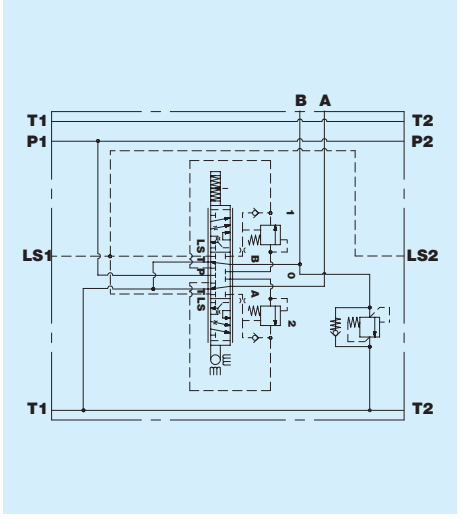
RC Internal pressure limiter and anticavitation cartridge port A



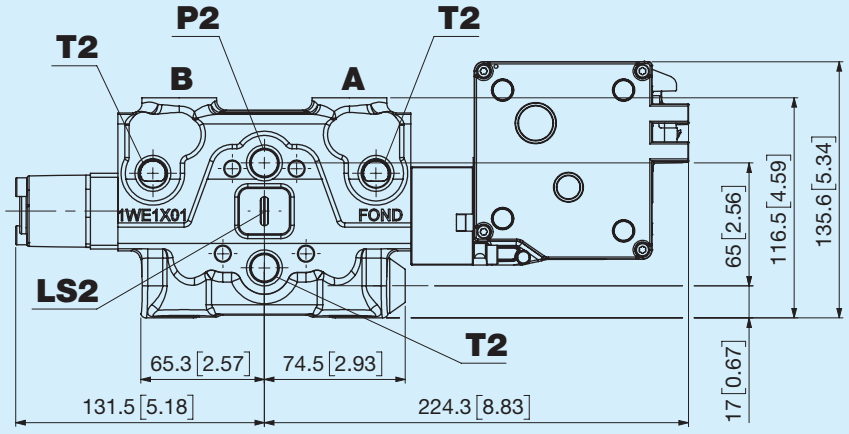


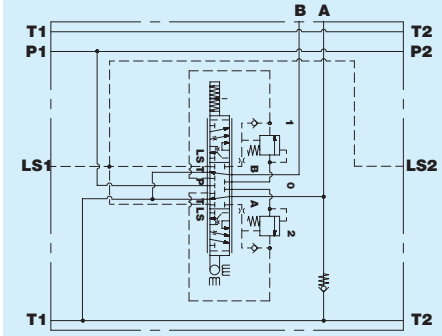
RC Internal pressure limiter and anticavitation cartridge port B



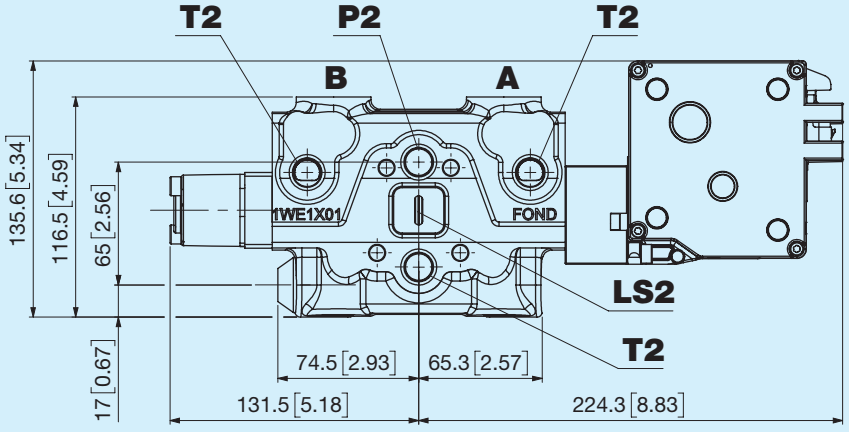


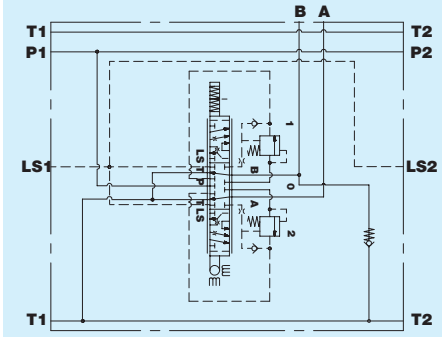
VC Anticavitation valve port A



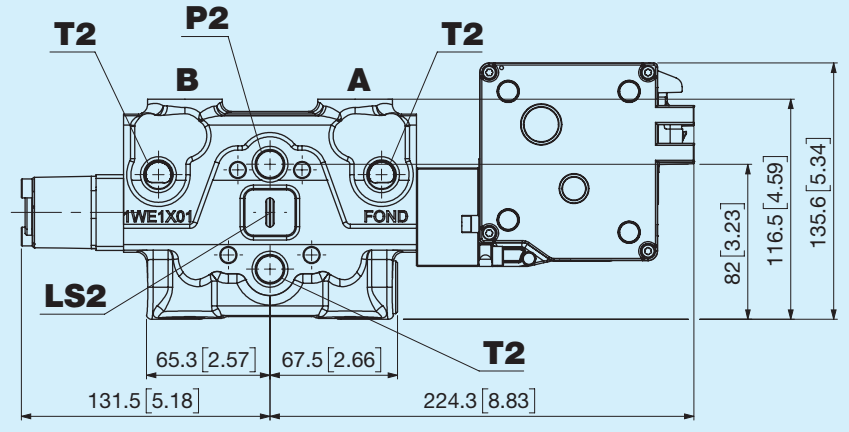


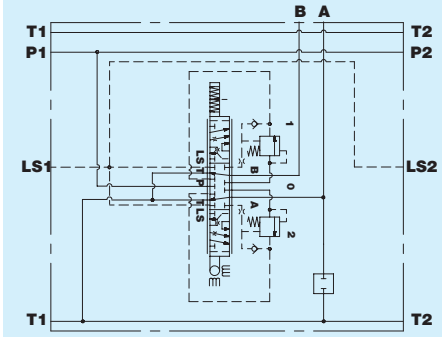
VC Anticavitation valve port B



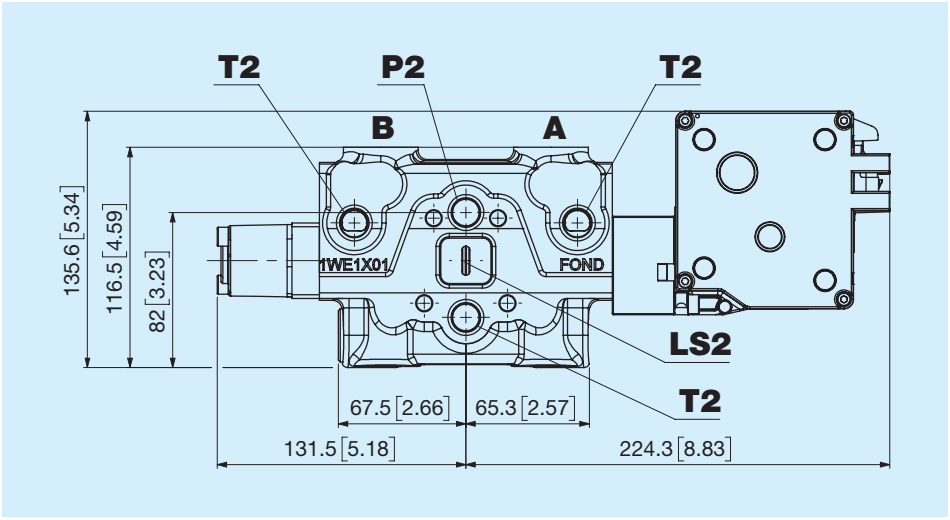


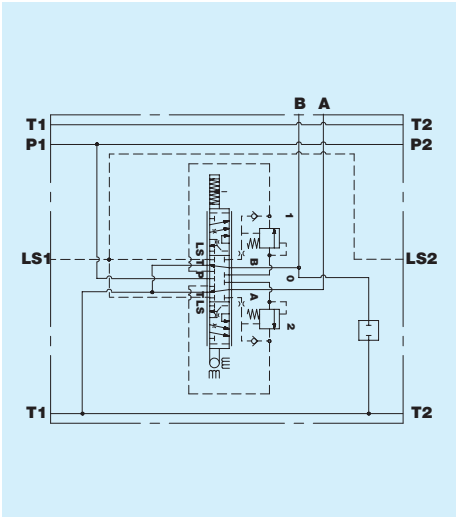
TP Set plugged port A





TP Set plugged port B





Possible valve combinations port A and B

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

NN - None
TP - Set plugged
RC - Pressure limiter and anticavitation valve
VC - Anticavitation valve

Ordering instructions

BW1455FS	1	2 3 4	5 6	7	8 9	10 11	12 13	14 15	16	17

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Configurations

E	Actuator port A side

2 3 4

Spool types

001	Spool type	**003**	Spool type

5 6

Flow rate ΔP = 18 bar

0A	120 l/min - 31.7 US gpm

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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

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Port A valve type

NN	None	**RC**	Pressure limiter and anticavitation cartridge	**VC**	Anticavitation valve	**TP**	Set plugged

10 11

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

12 13

Valve type port B

NN	None	**RC**	Pressure limiter and anticavitation cartridge	**VC**	Anticavitation valve	**TP**	Set plugged

14 15

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

16

Voltage and connector

A	12V DEPLHI METRI PACK 150.2

17

External coating

A	External coating	**N**	None