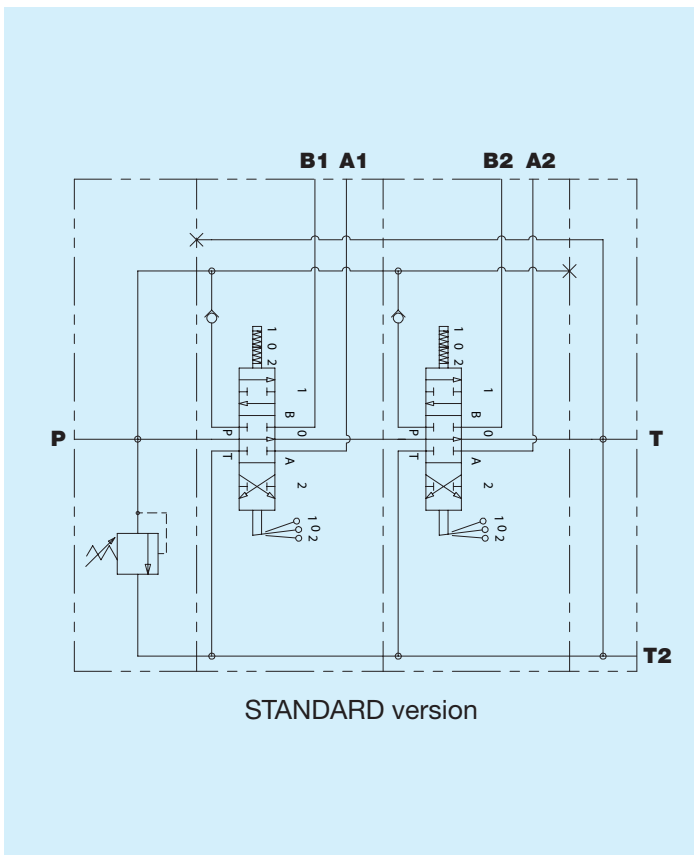


DNC75 - Modular directional control valves

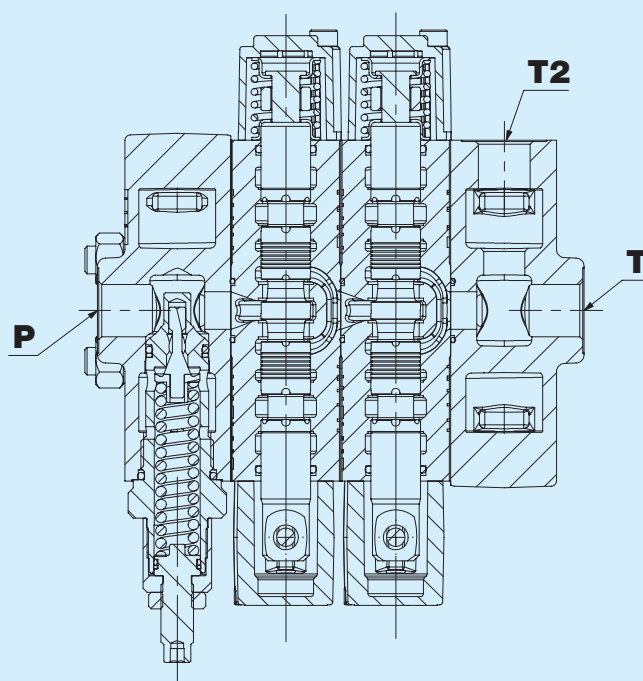


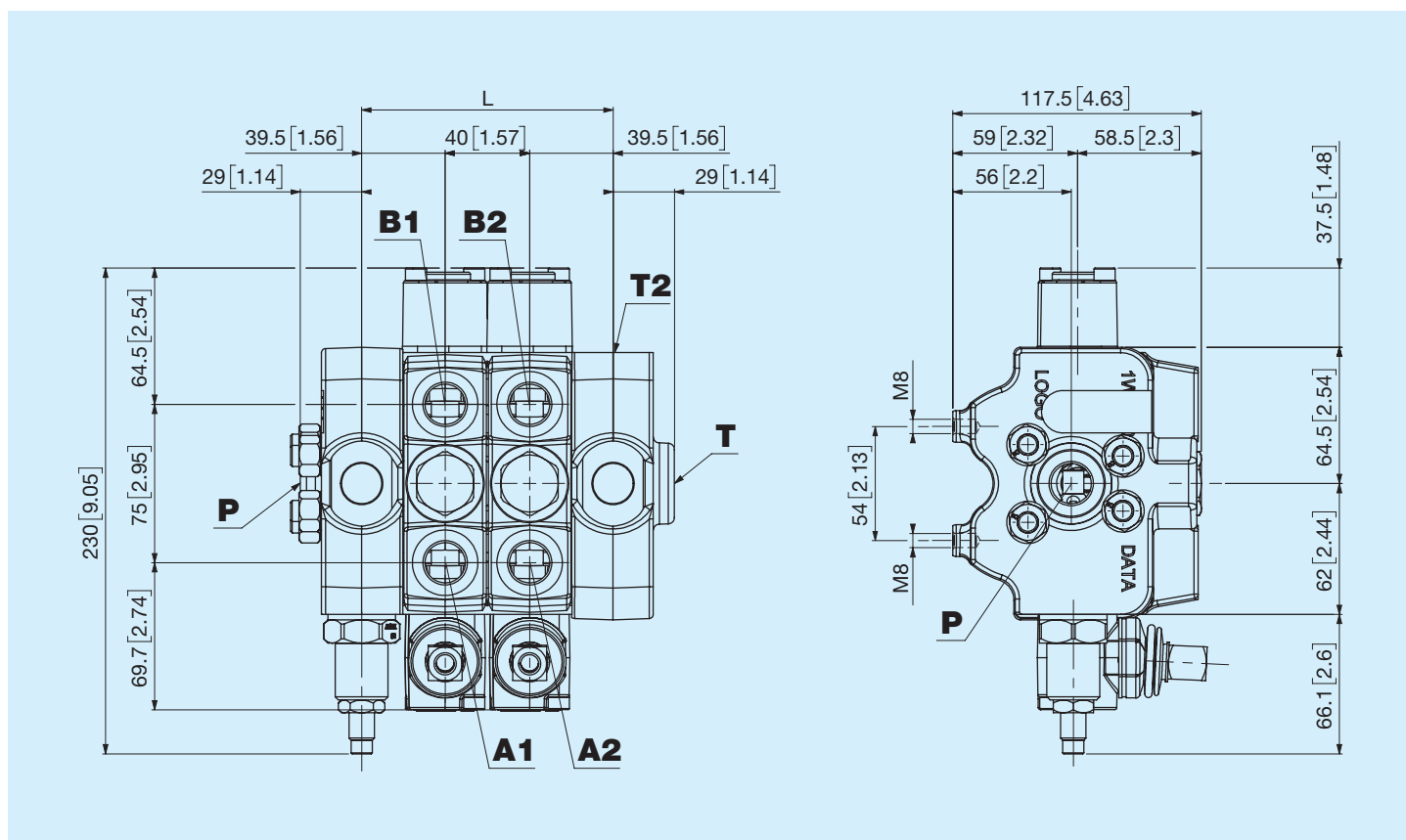
Before use, carefully read the GENERAL INSTRUCTIONS FOR USE OF DIRECTIONAL CONTROL VALVES

Nominal flow	60 l/min 18.5 US gpm
Nominal pressure	300 bar 4350 psi
Maximum tank pressure	50 bar 725 psi
Internal leakage (A or B -> P and T) p=100 bar (1450 psi)	8 cm³/min 0.49 in³/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



Section

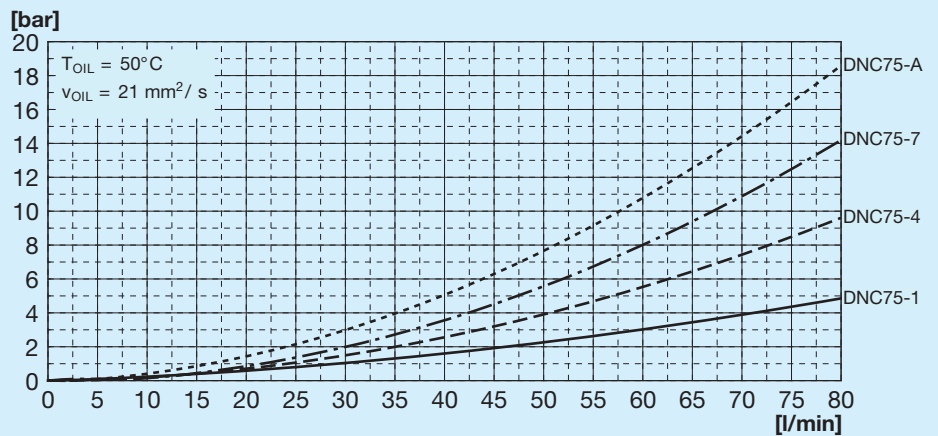
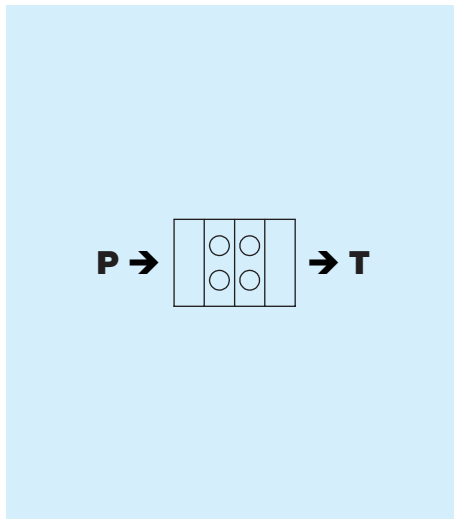




Dimensions per number of sections

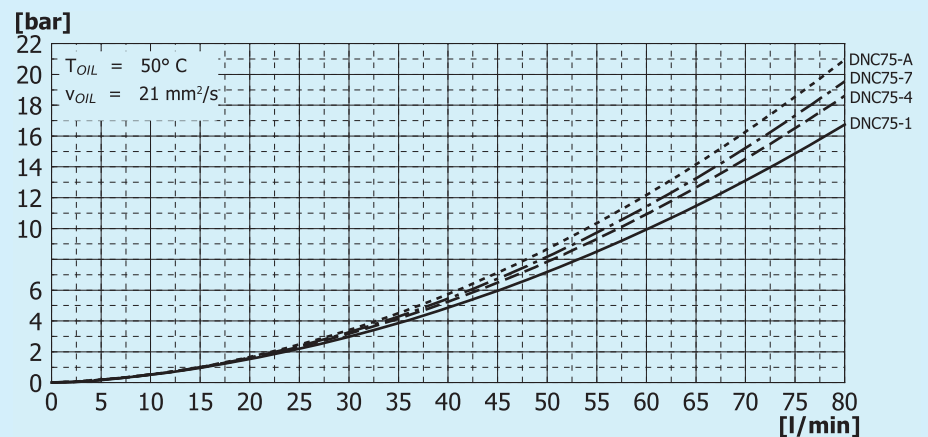
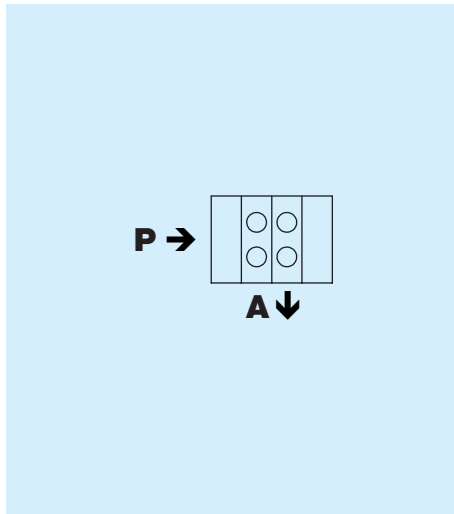
Code	N° of sections	L		Weight	
		mm	in	kg	lb
1	1	79	3,11	8.3	18,30
2	2	119	4,69	11	24,25
3	3	159	6,36	14	30,86
4	4	199	7,83	17	37,84
5	5	239	9,41	20	44,09
6	6	279	10,98	23	50,71
7	7	319	12,56	26	57,32
8	8	359	14,13	29	63,93
9	9	399	15,71	32	70,55
A	10	439	17,28	35	77,16

Flow curve P-T



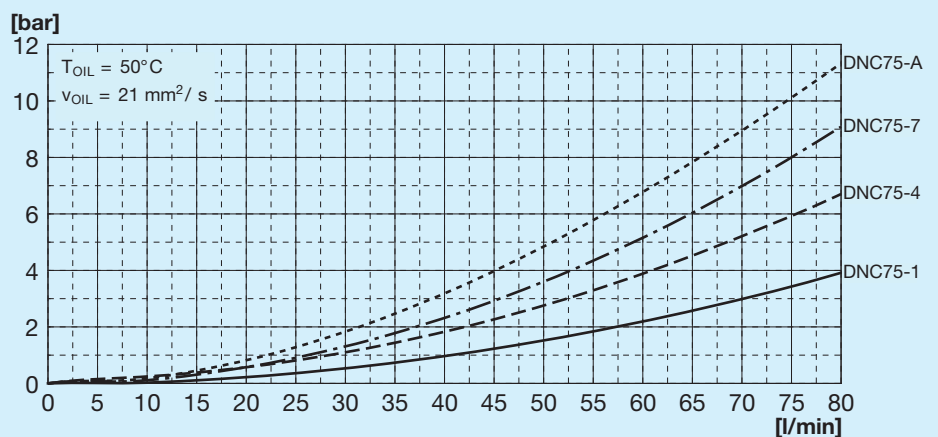
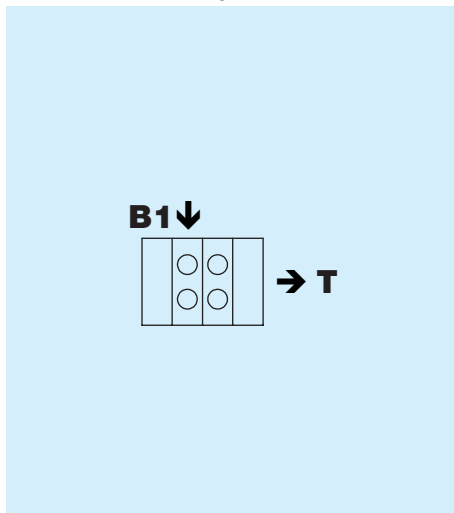
Testing parameters: Spool type **01**

Pressure drops P-A



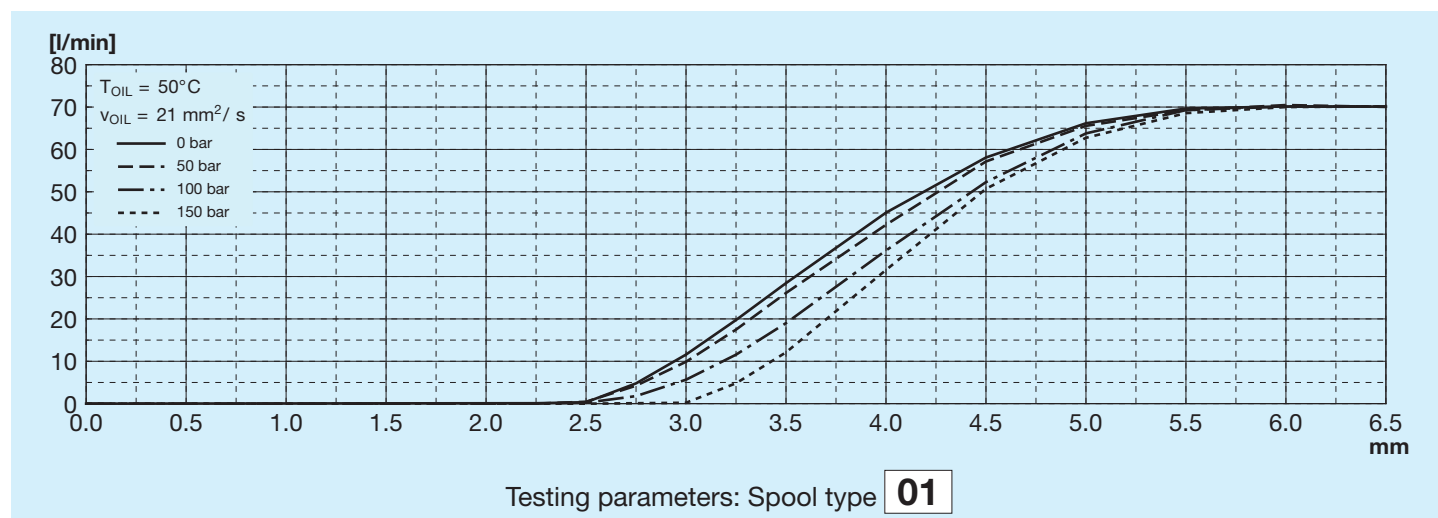
Testing parameters: Spool type **01**

Pressure drops B1-T

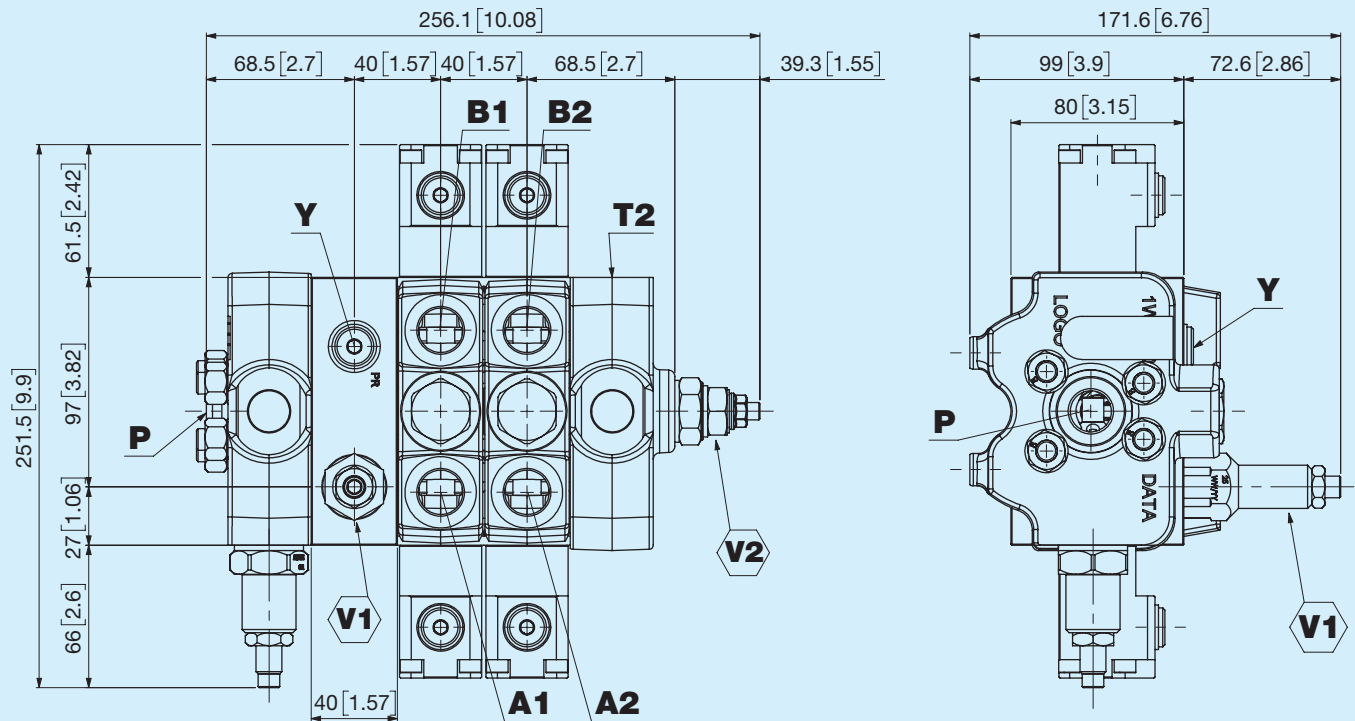


Testing parameters: Spool type **01**

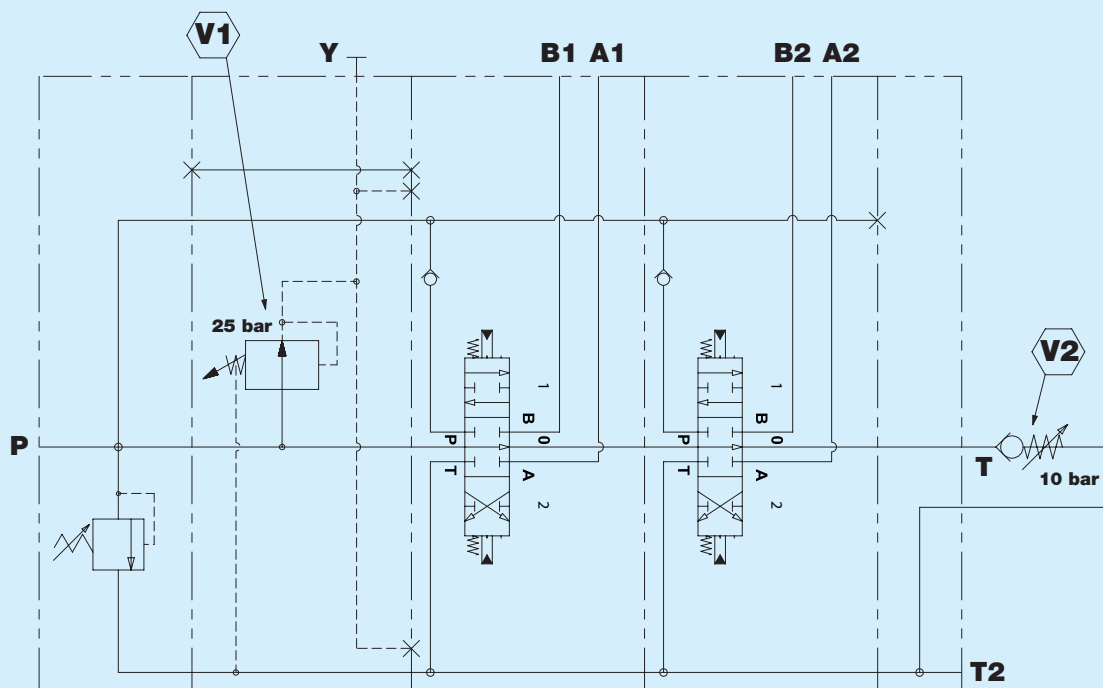
Metering



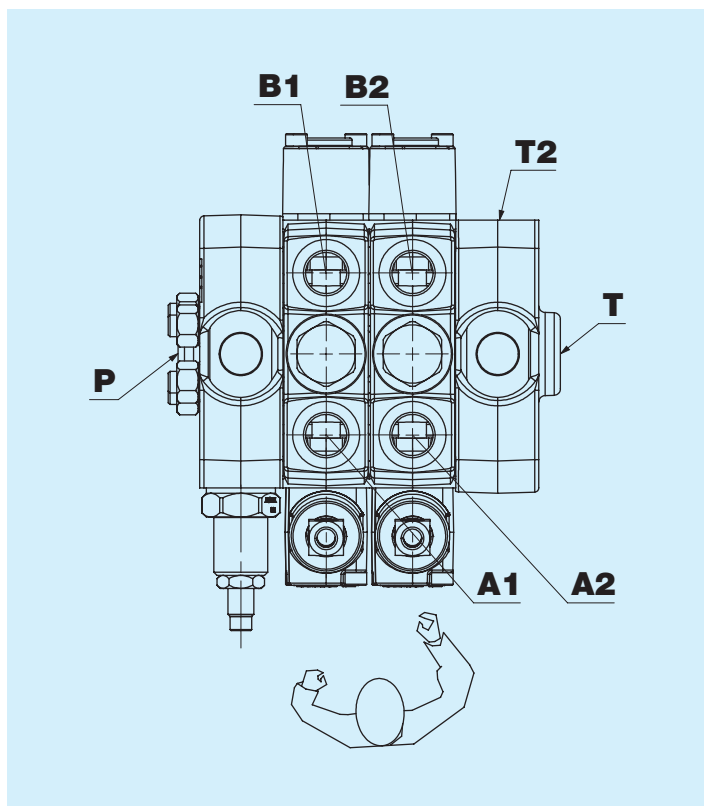
A Power unit



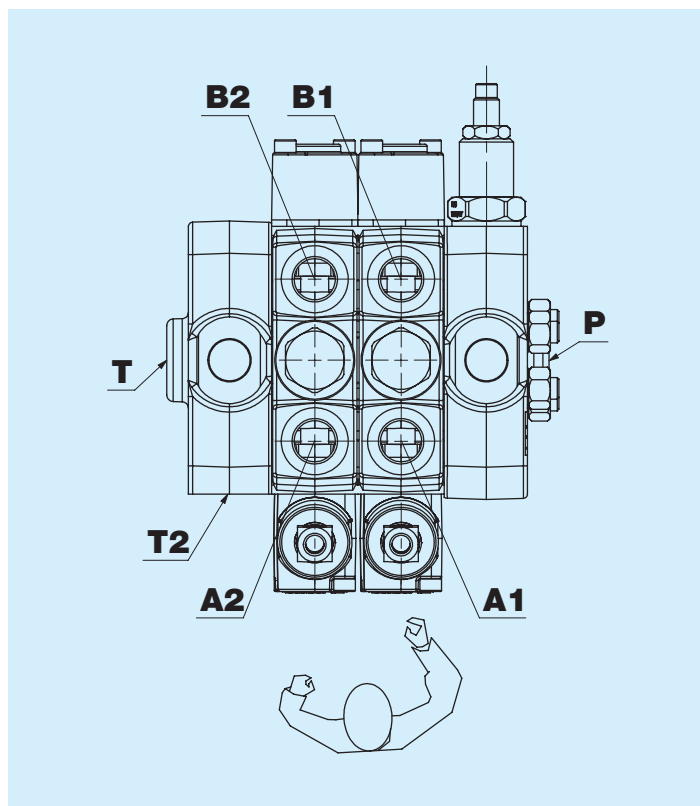
The power unit kit will not be supplied with connecting pipes.



S Left (standard)



D Right



Port A is usually the nearest port to the actuator side.

Thread ports P - P1

Code	Type	Torque Nm
O	Not processed	
L	1/4" GAS ISO 1179	28
B	1/2" GAS ISO 1179	65
3	M14x1.5 ISO 9974	10
C	M18x1.5 ISO 9974	42
N	M22x1.5 ISO 9974	67
W	M18x1.5 ISO 6149	28
J	M22x1.5 ISO 6149	67
P	9/16" - 18 SAE ISO 11926	28
R	7/8" - 14 SAE ISO 11926	67

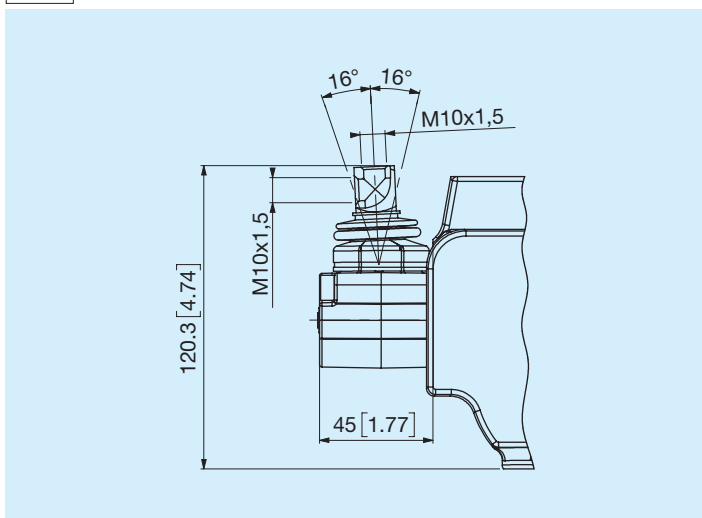
Thread ports A - B

Code	Type	Torque Nm
A	3/8" GAS ISO 1179	40
B	1/2" GAS ISO 1179	65
T	M16x1.5 ISO 9974	28
C	M18x1.5 ISO 9974	42
N	M22x1.5 ISO 9974	67
W	M18x1.5 ISO 6149	28
J	M22x1.5 ISO 6149	67
P	9/16" - 18 SAE ISO 11926	28
E	3/4" - 16 SAE ISO 11926	42
R	7/8" - 14 SAE ISO 11926	67

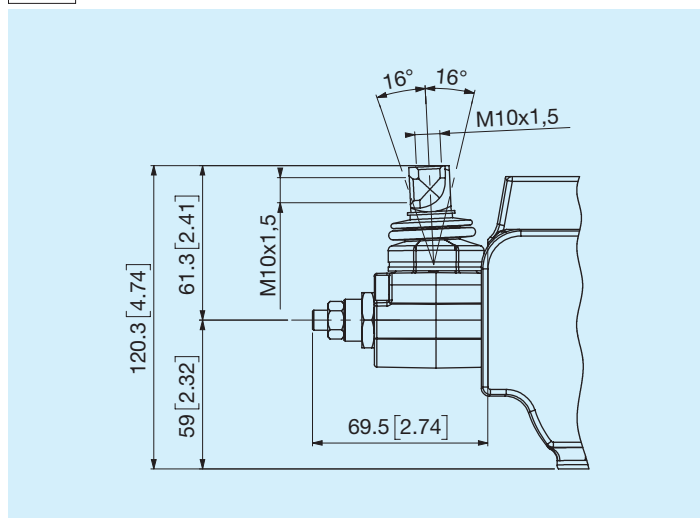
Thread ports T - T2

Code	Type	Torque Nm
O	Not processed	
L	1/4" GAS ISO 1179	28
B	1/2" GAS ISO 1179	65
3	M14x1.5 ISO 9974	10
C	M18x1.5 ISO 9974	42
N	M22x1.5 ISO 9974	67
W	M18x1.5 ISO 6149	28
J	M22x1.5 ISO 6149	67
P	9/16" - 18 SAE ISO 11926	28
R	7/8" - 14 SAE ISO 11926	67

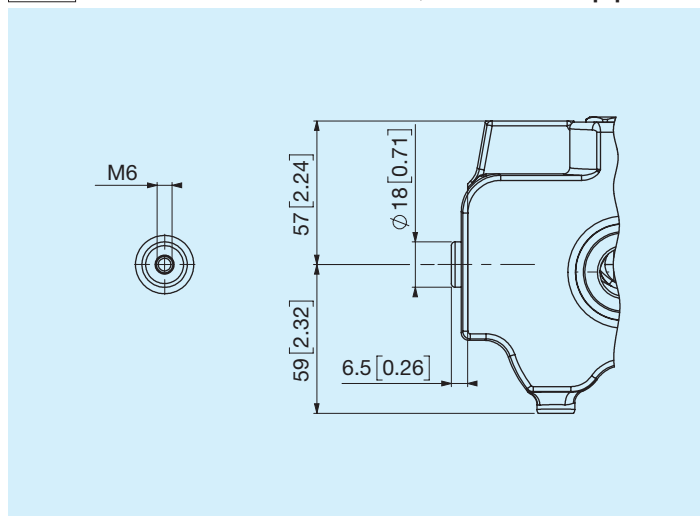
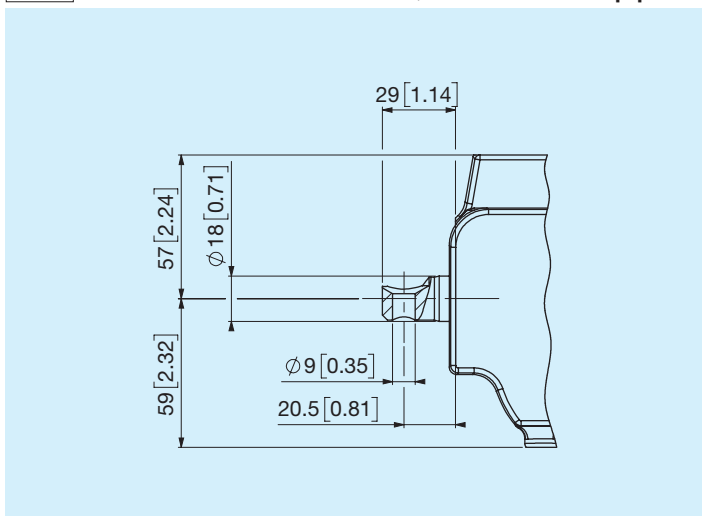
L Standard kit for lever holder



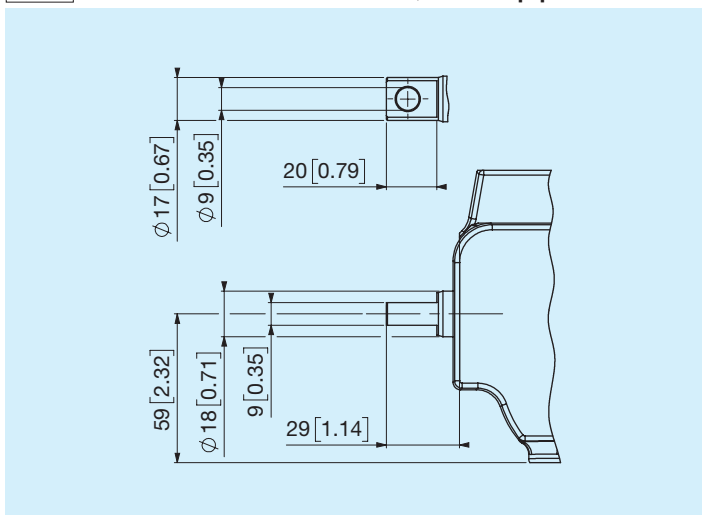
Z Lever holder with stroke limiter



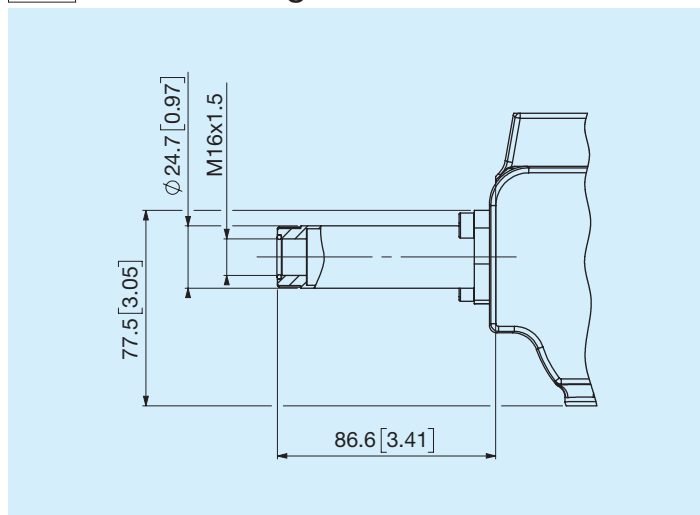
A Without lever holder, standard appendix **B** Without lever holder, without appendix



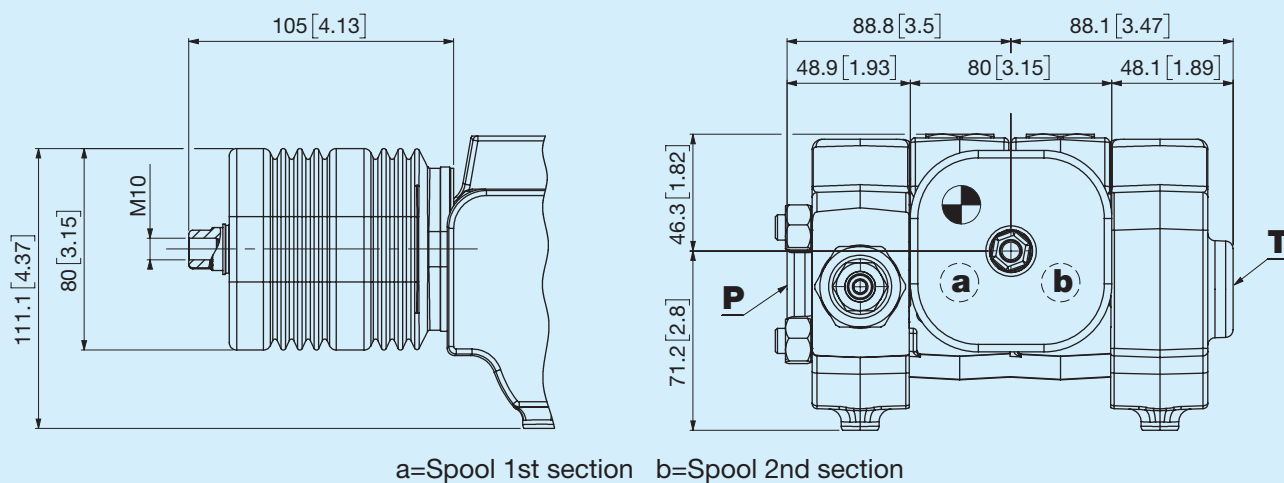
C Without lever holder, flat appendix



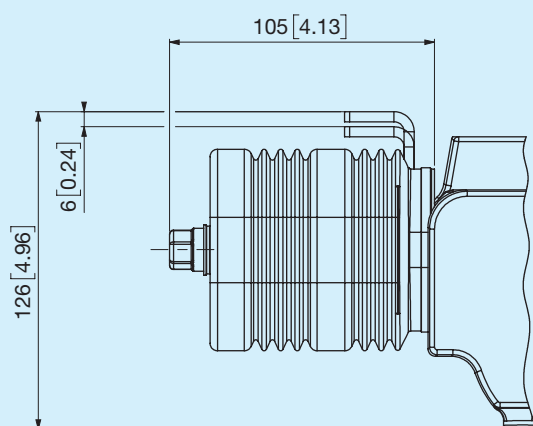
T Cable setting



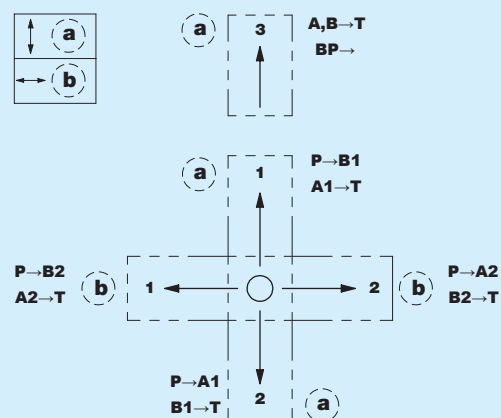
M Joystick



G Joystick with spool lock

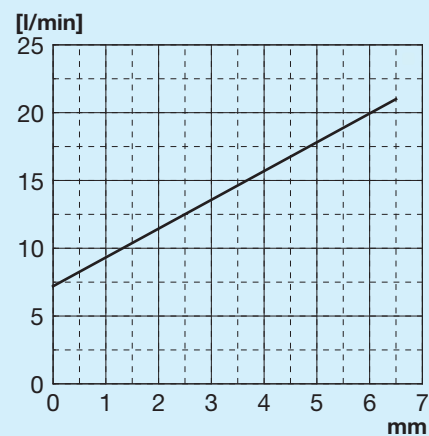
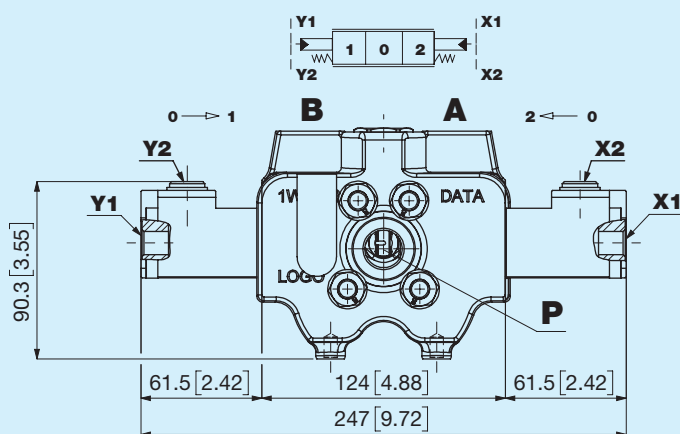


Joystick functions

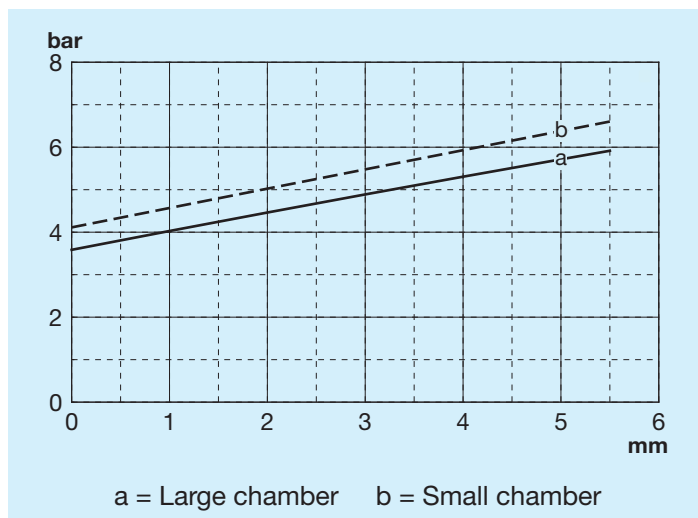
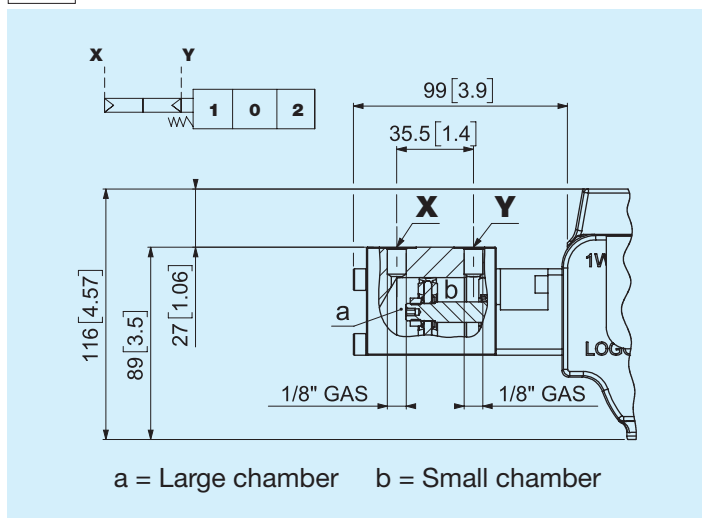


Also available in other configurations.

K Hydraulic control

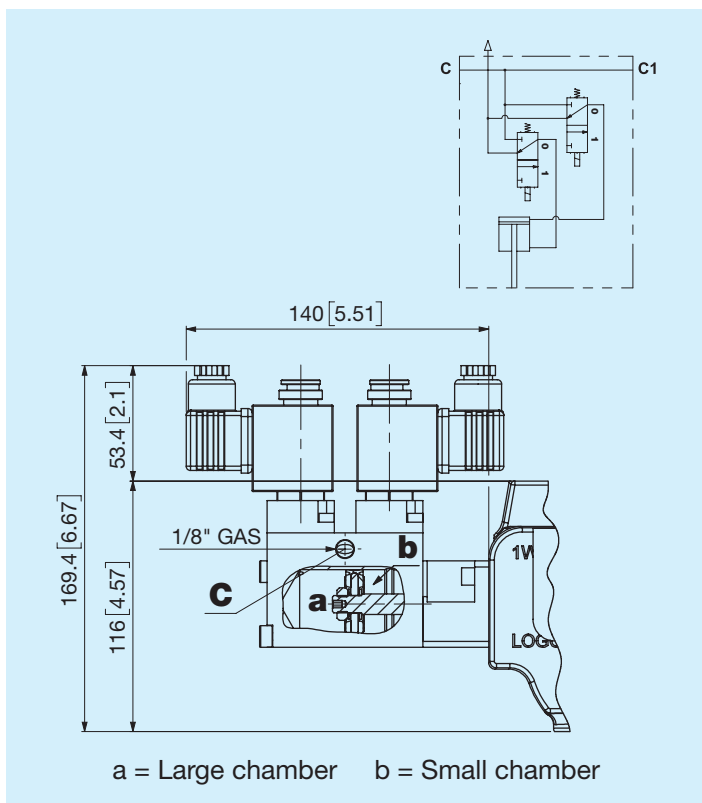


P Pneumatic control

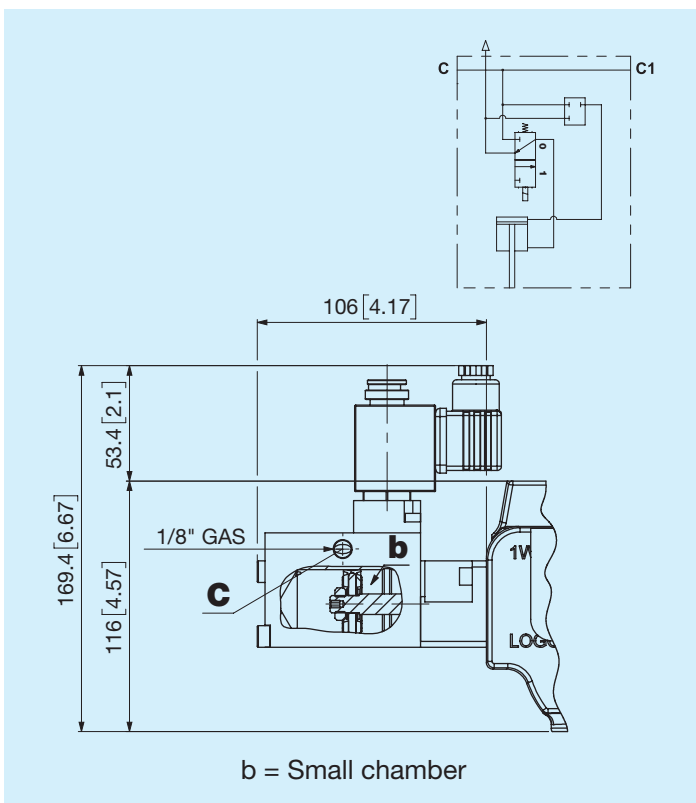


The pneumatic actuator is located on the side where the spool control is normally placed and is the main actuator. The directional control valve will also be supplied as standard with the lever holder on the opposite side.

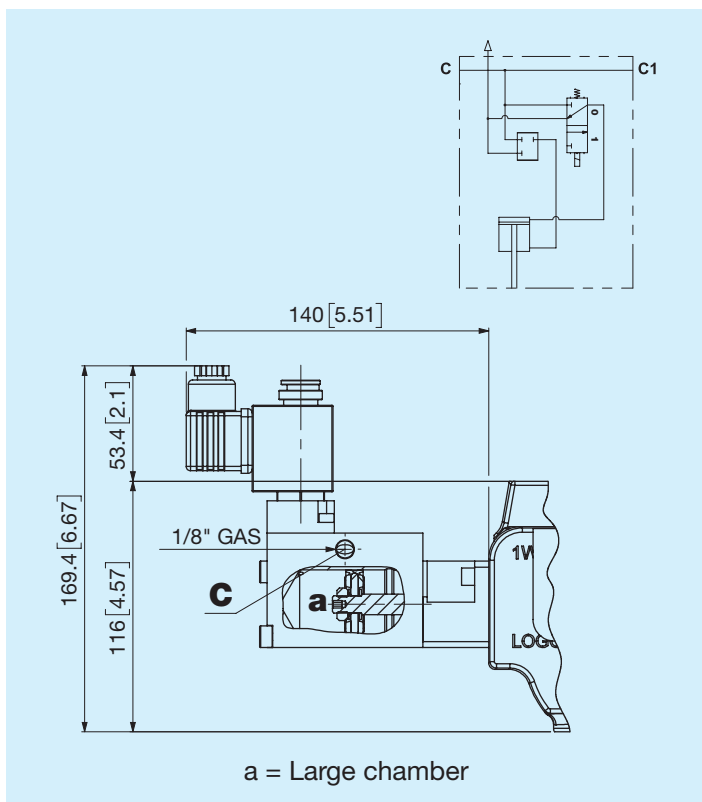
U Dual effect



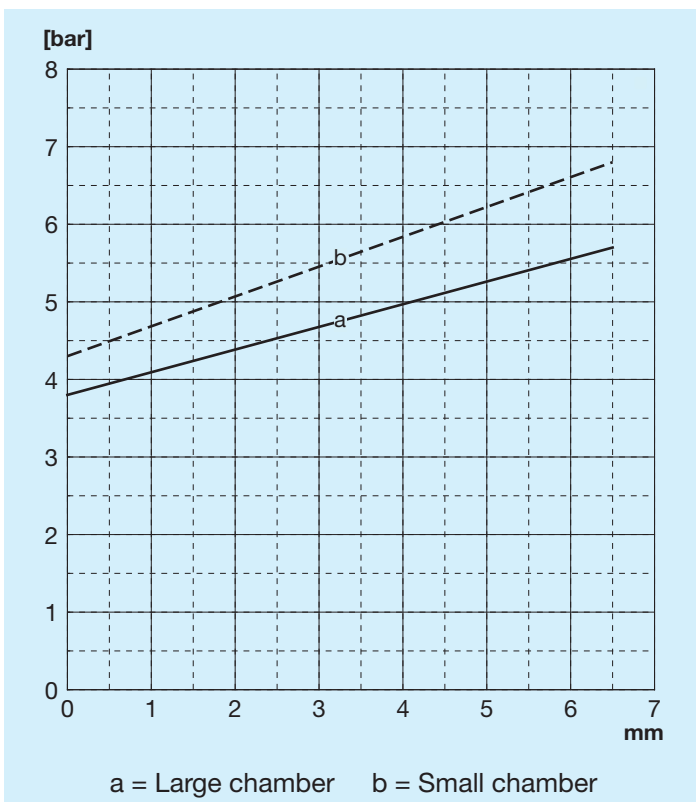
I Simple effect port A



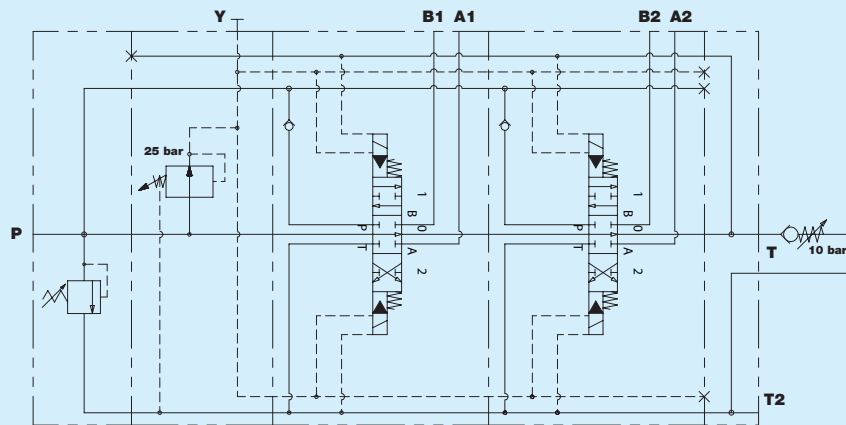
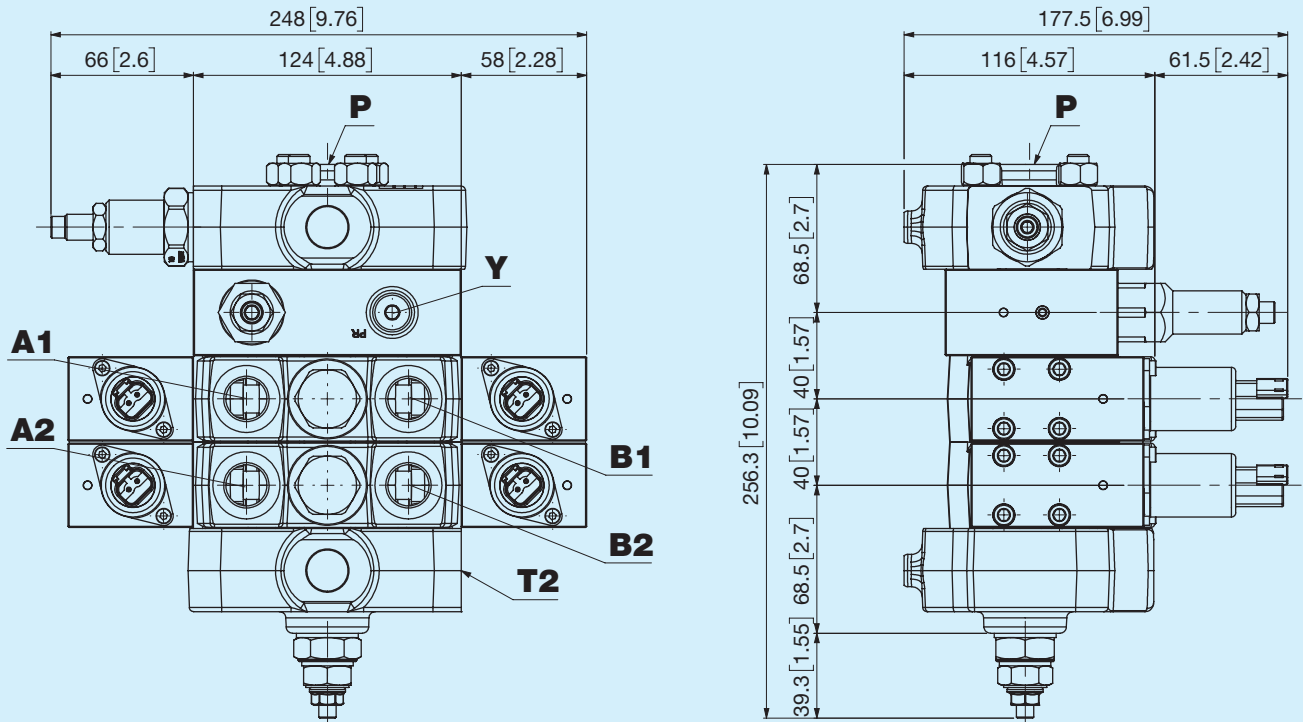
W Simple effect port B



Electro-pneumatic control

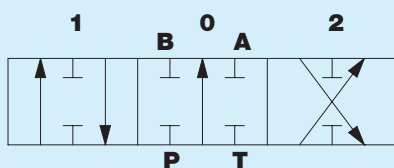


H Dual effect



For electro-hydraulic actuation, you must select a power supply in the general options.

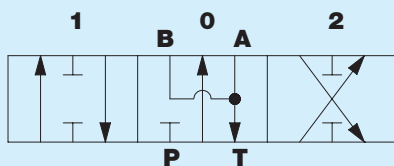
01 Spool type



Positions

3	1	0	2	4
	$P \rightarrow B$ $A \rightarrow T$ $BP \rightarrow$	$P, T \rightarrow$ $A, B \rightarrow$ $BP \rightarrow$	$P \rightarrow A$ $B \rightarrow T$ $BP \rightarrow$	

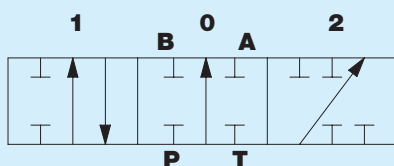
03 Spool type



Positions

3	1	0	2	4
	$P \rightarrow B$ $A \rightarrow T$ $BP \rightarrow$	$A, B \rightarrow T$ $P \rightarrow$ $BP \rightarrow$	$P \rightarrow A$ $B \rightarrow T$ $BP \rightarrow$	

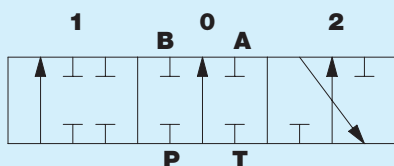
04 Spool type



Positions

3	1	0	2	4
	$A \rightarrow T$ $P, B \rightarrow$ $BP \rightarrow$	$P, T \rightarrow$ $A, B \rightarrow$ $BP \rightarrow$	$P \rightarrow A$ $B, T \rightarrow$ $BP \rightarrow$	

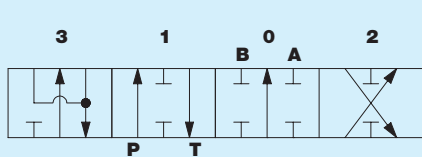
05 Spool type



Positions

3	1	0	2	4
	$P \rightarrow B$ $A, T \rightarrow$ $BP \rightarrow$	$P, T \rightarrow$ $A, B \rightarrow$ $BP \rightarrow$	$A \rightarrow$ $B \rightarrow T$ $BP \rightarrow$	

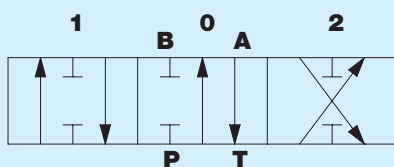
07 Spool type



Positions

3	1	0	2	4
$A, B \rightarrow T$ $P \rightarrow$ $BP \rightarrow$	$P \rightarrow B$ $A \rightarrow T$ $BP \rightarrow$	$P, T \rightarrow$ $A, B \rightarrow$ $BP \rightarrow$	$P \rightarrow A$ $B \rightarrow T$ $BP \rightarrow$	

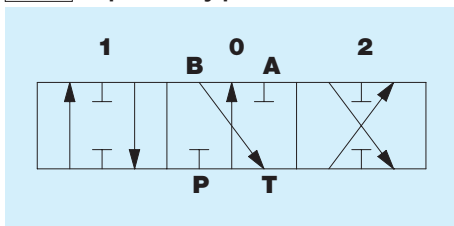
08 Spool type



Positions

3	1	0	2	4
	$P \rightarrow B$ $A \rightarrow T$ $BP \rightarrow$	$A \rightarrow T$ $P, B \rightarrow$ $BP \rightarrow$	$P \rightarrow A$ $B \rightarrow T$ $BP \rightarrow$	

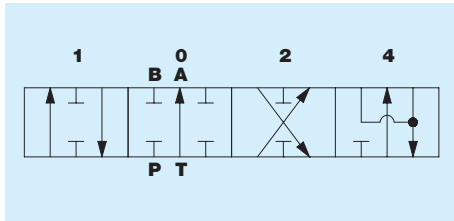
10 Spool type



Positions

3	1	0	2	4
	$P \rightarrow B$ $A \rightarrow T$ $BP \rightarrow$	$B \rightarrow T$ $P, A \rightarrow$ $BP \rightarrow$	$P \rightarrow A$ $B \rightarrow T$ $BP \rightarrow$	

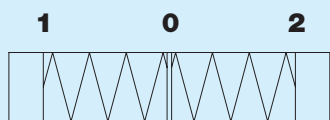
70 Spool type



Positions

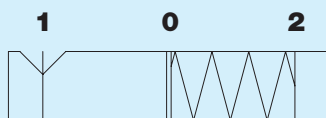
3	1	0	2	4
	$P \rightarrow B$ $A \rightarrow T$ $BP \rightarrow$	$P, T \rightarrow$ $A, B \rightarrow$ $BP \rightarrow$	$P \rightarrow A$ $B \rightarrow T$ $BP \rightarrow$	$A, B \rightarrow T$ $P \rightarrow$ $BP \rightarrow$

0A



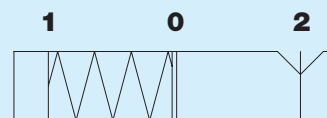
Neutral position in 0

0B



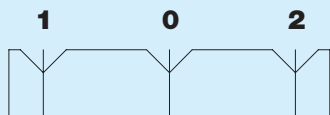
Neutral position in 0,
detent in 1

0C



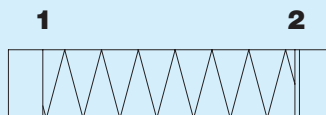
Neutral position in 0,
detent in 2

0D



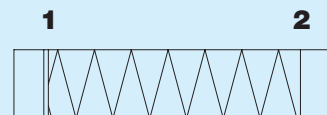
Detent in 0, 1, 2

0R



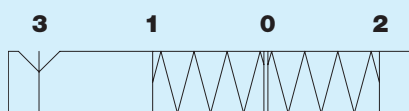
Neutral position in 2

0S



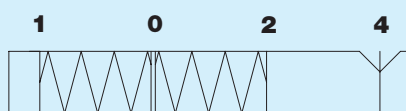
Neutral position in 1

NS



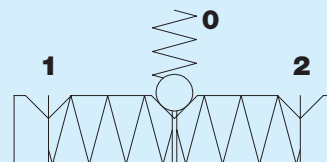
Neutral position in 0, detent in 3

NT



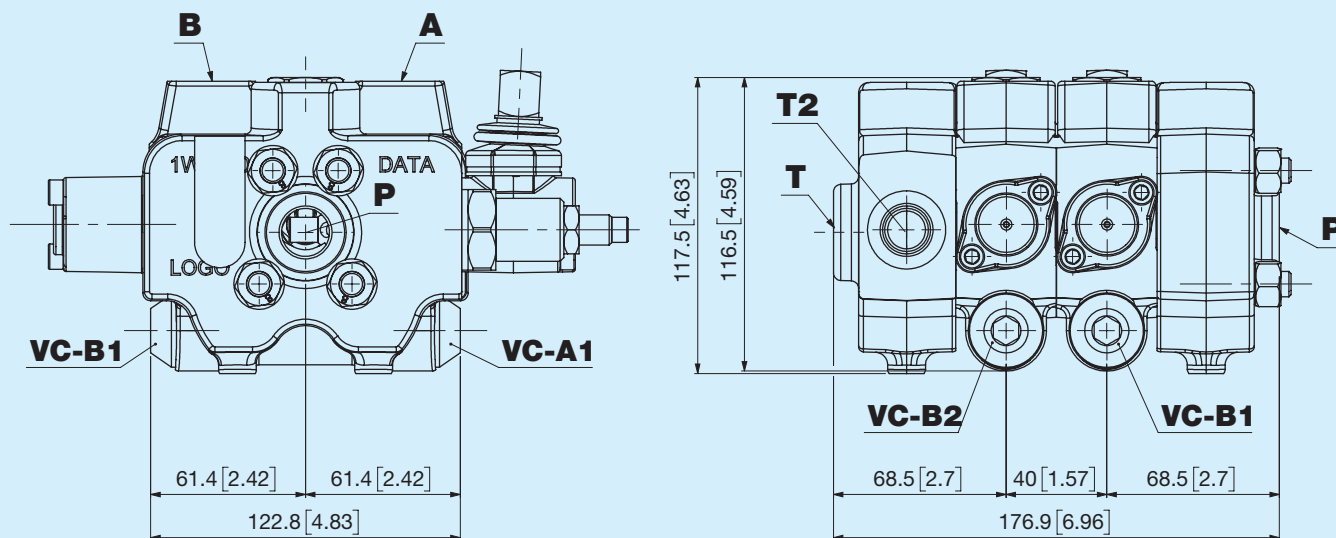
Neutral position in 0, detent in 4

KD

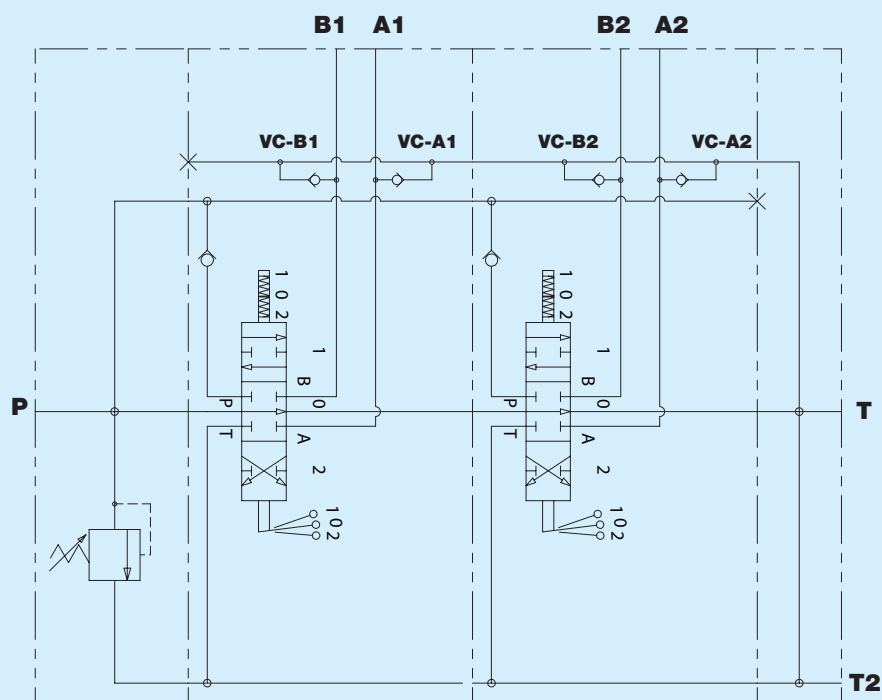


For kick-off

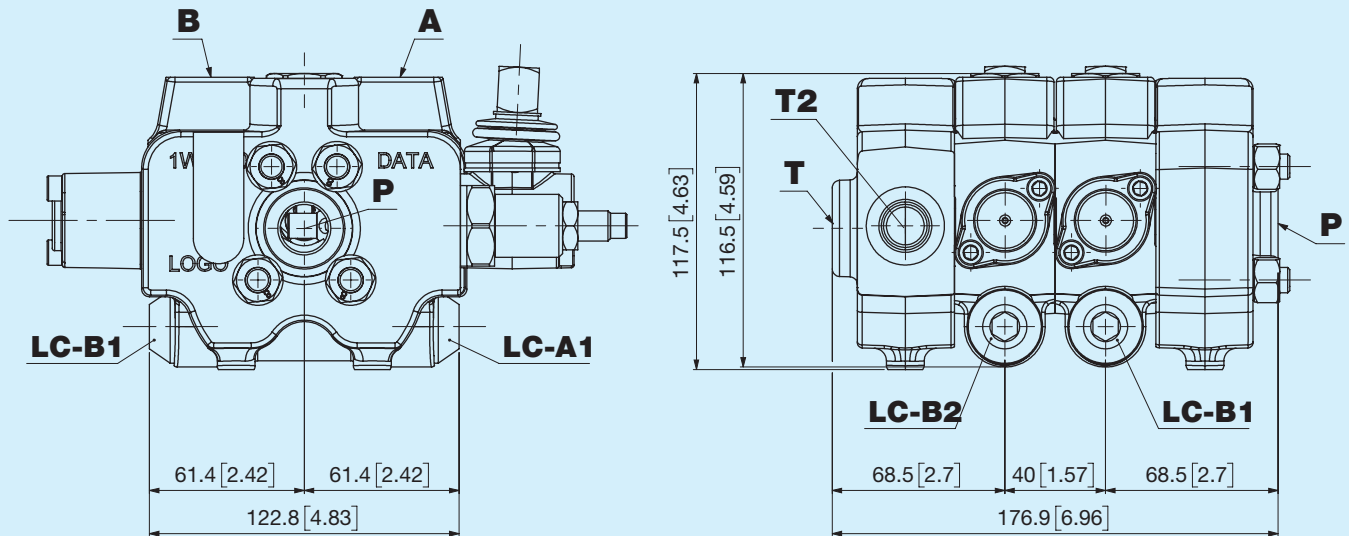
VC Anticavitation valve



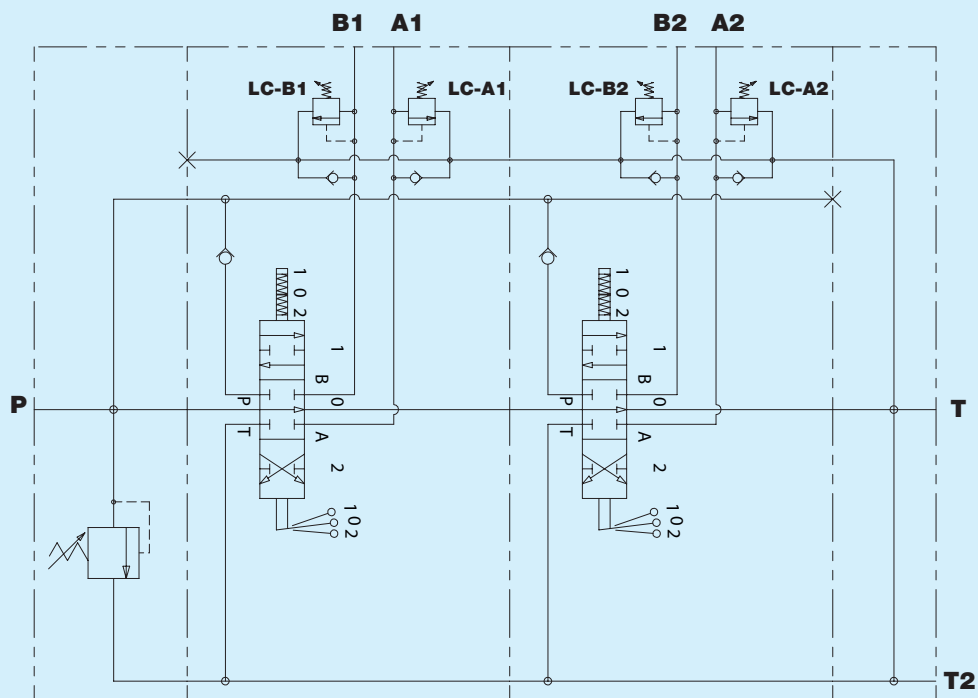
This option includes special cast iron



LC Pressure limiter and anticavitation cartridge

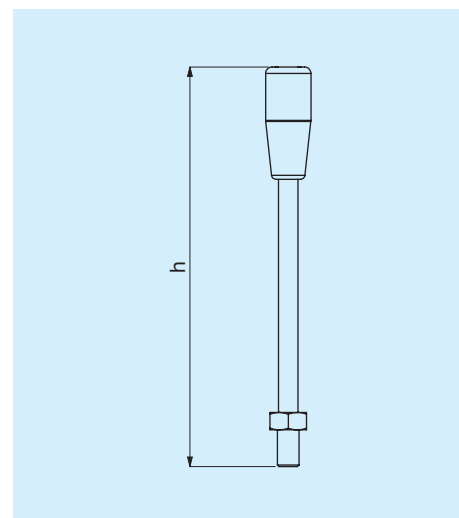


This option includes special cast iron



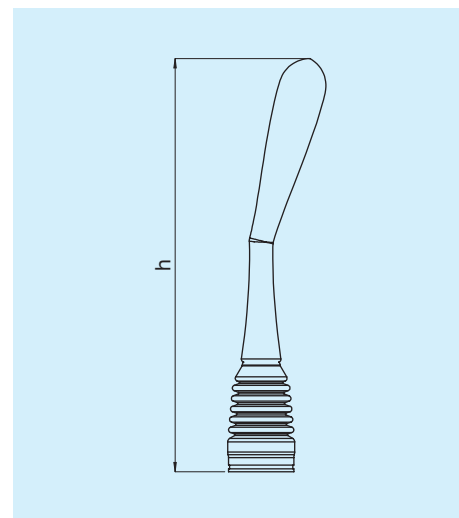
Straight standard knob

Code	Description	h [mm]	h [in]
A	Straight standard knob	109	4,3
B	Straight standard knob	134	5.28
C	Straight standard knob	184	7,24
D	Straight standard knob	214	8,42
E	Straight standard knob	254	10
F	Straight standard knob	304	11,97

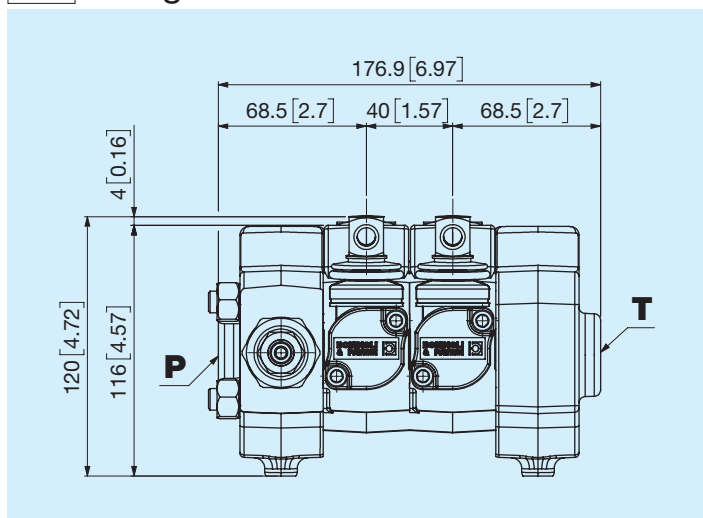


Ergonomic lever

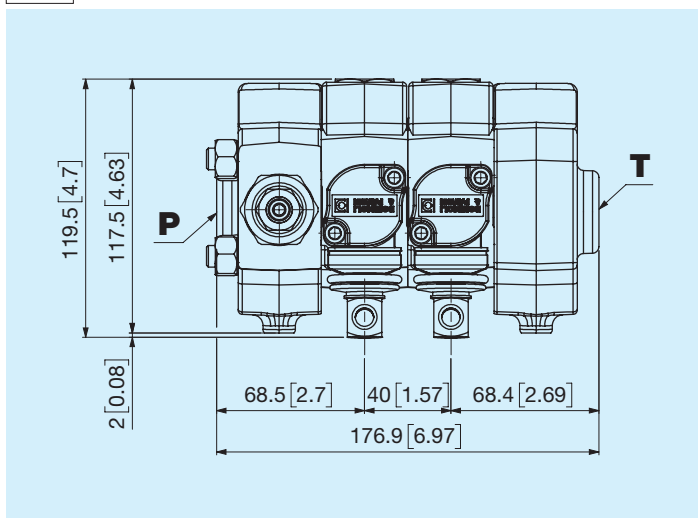
Code	Description	h [mm]	h [in]
L	Straight vertical	180	7.09
O	Bent 15° vertical	180	7.09
R	Bent 30° vertical	180	7.09
M	Straight horizontal	180	7.09
Y	Bent 15° horizontal	180	7.09
Q	Bent 30° horizontal	180	7.09



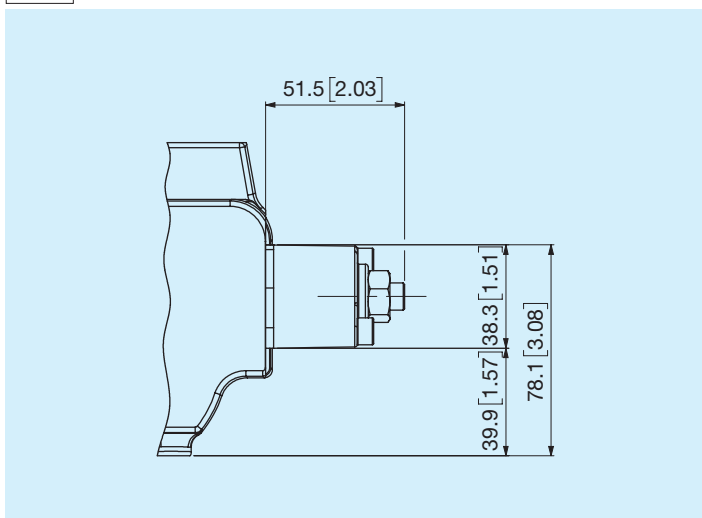
A Straight



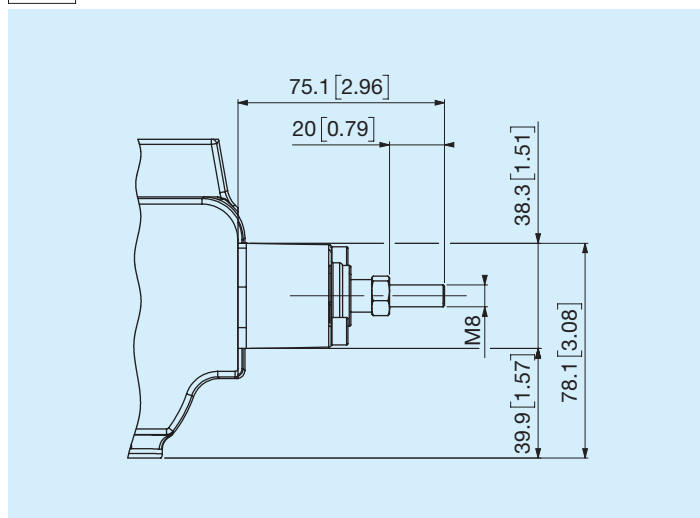
C Rotated 180°



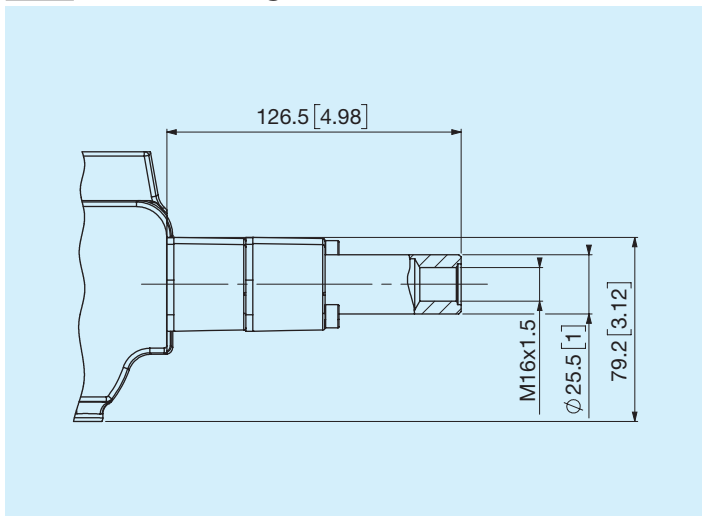
C Stroke limiter



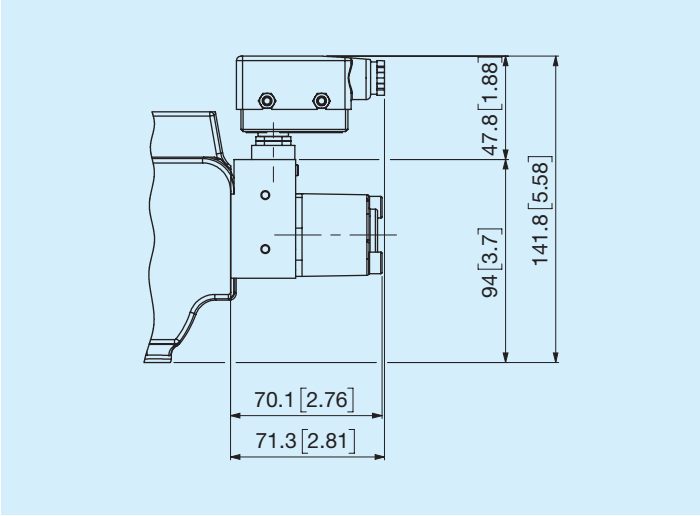
M Male dual control



T Cable fitting



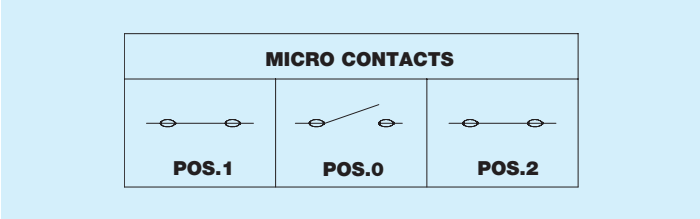
Microswitch



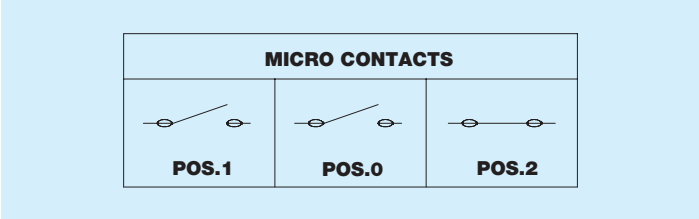
Characteristics of microswitch positioner

Contact rating	16(5)A at 250V A.C 50 Hz 3A at 30V D.C. L/R= 5 ms
Temperature range	-20° to 85° C
Expected mechanical life	10 million cycles at 1 Hz
Insulation	Up to 100 MΩ

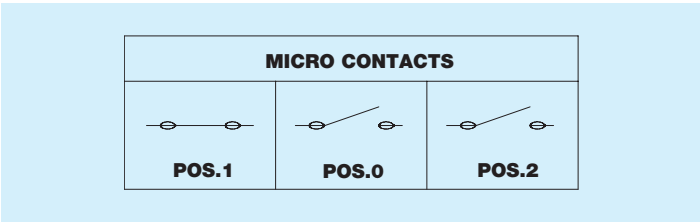
Y Dual effect microswitch



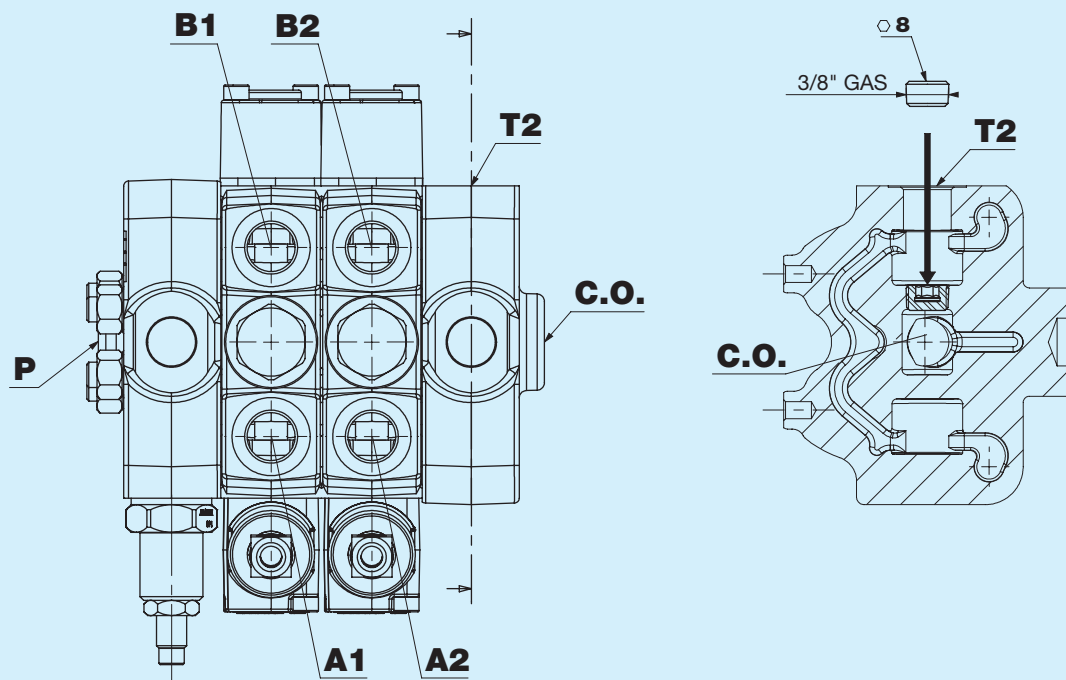
P Simple effect microswitch port A



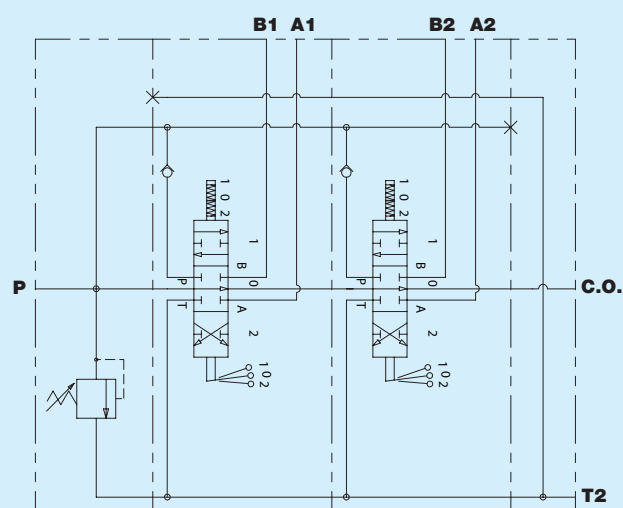
O Simple effect microswitch port B



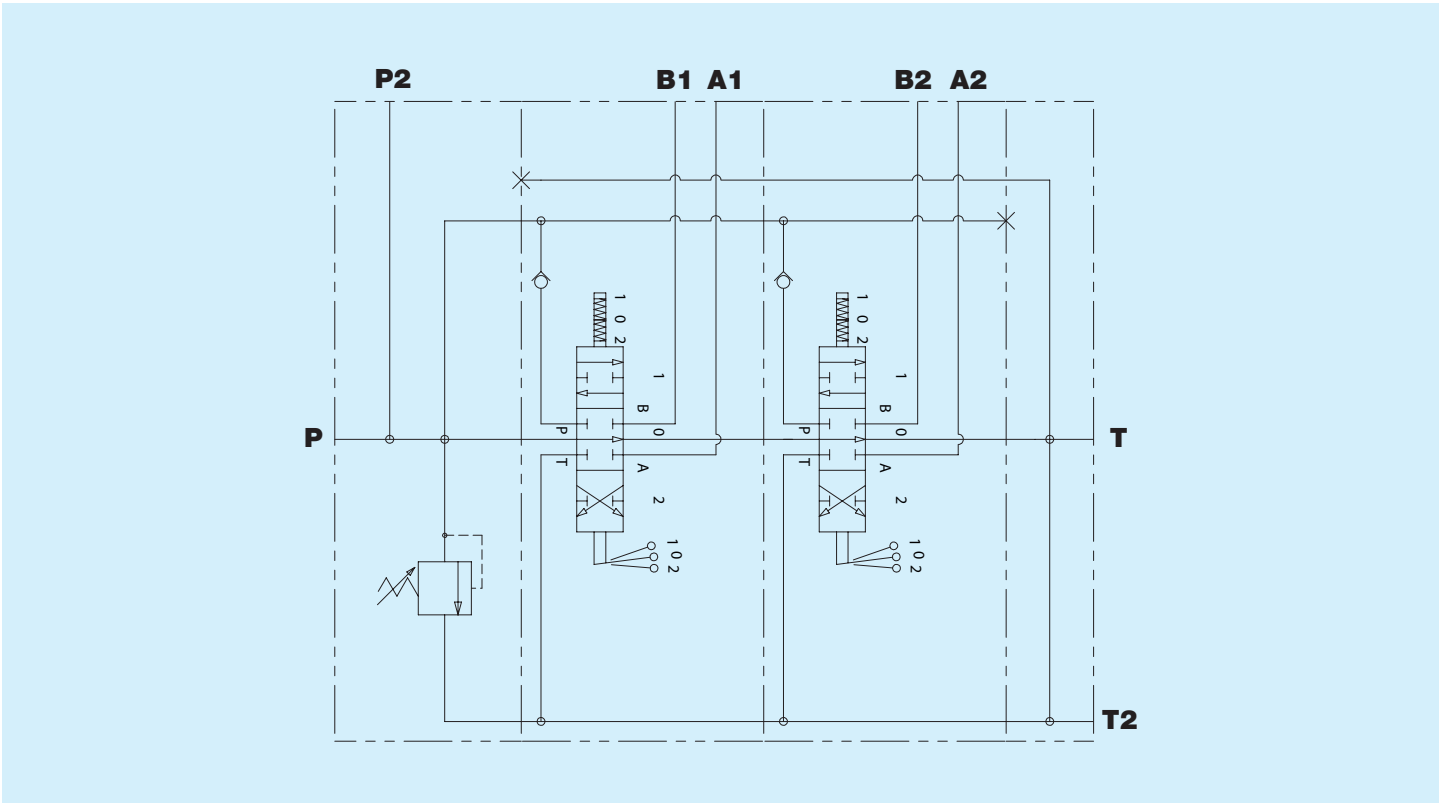
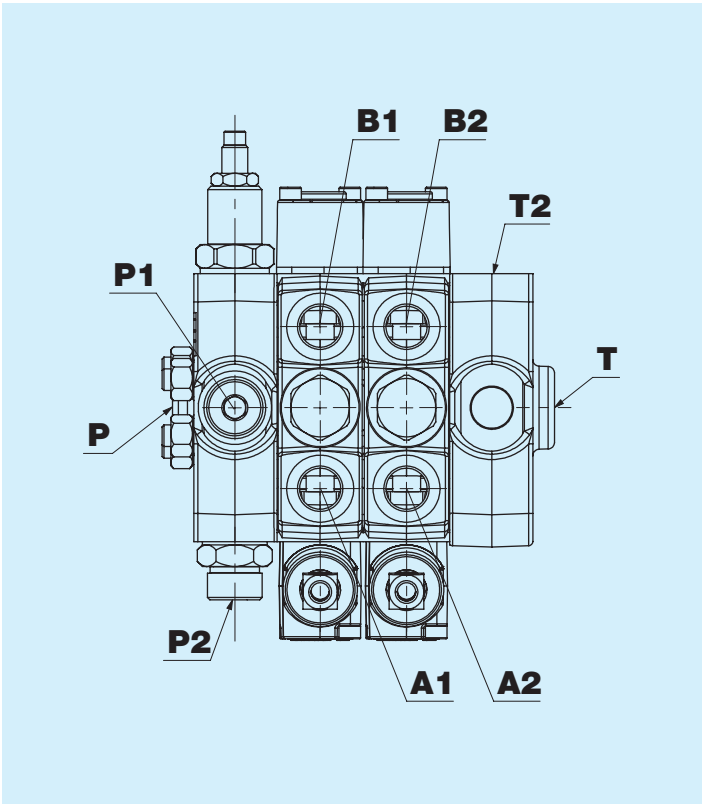
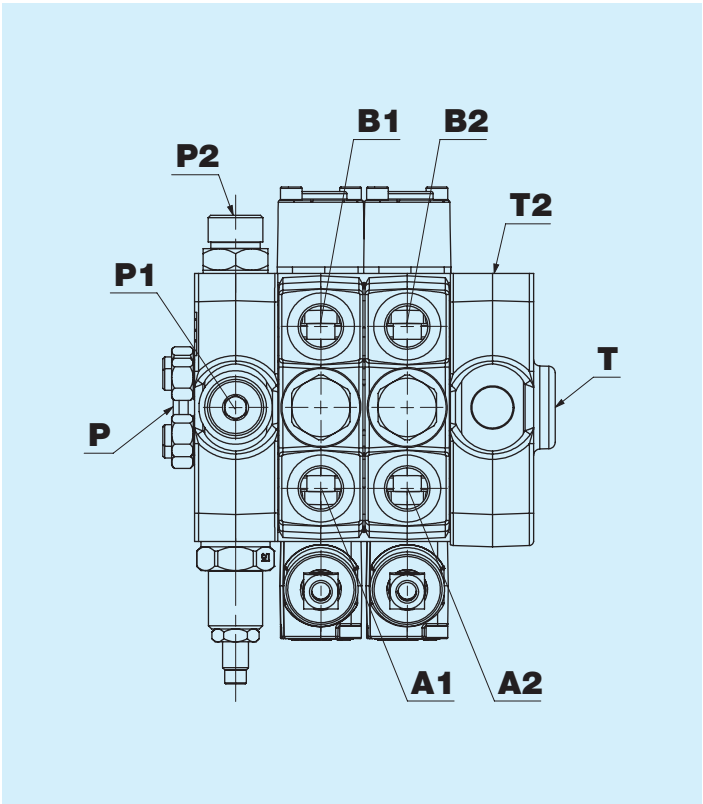
Carry-over port T1



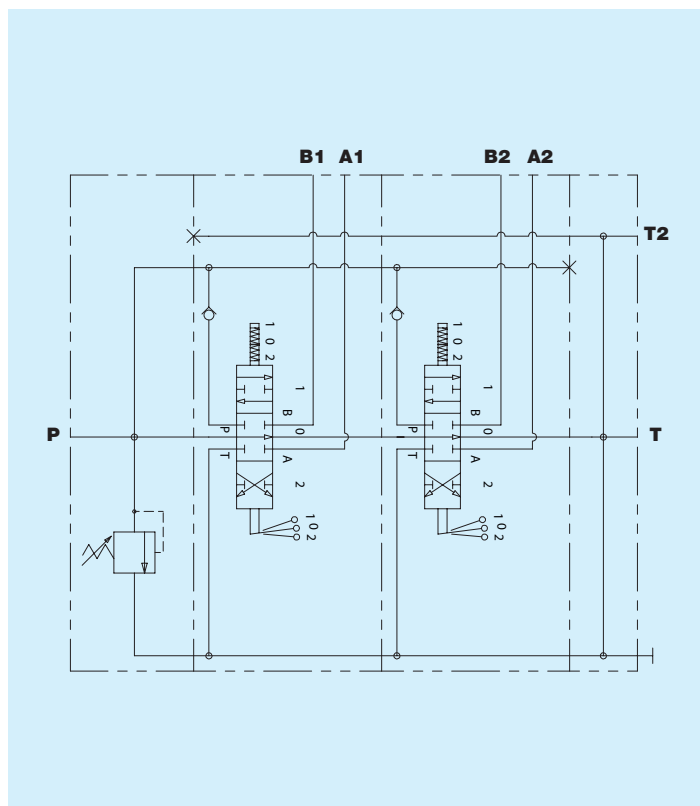
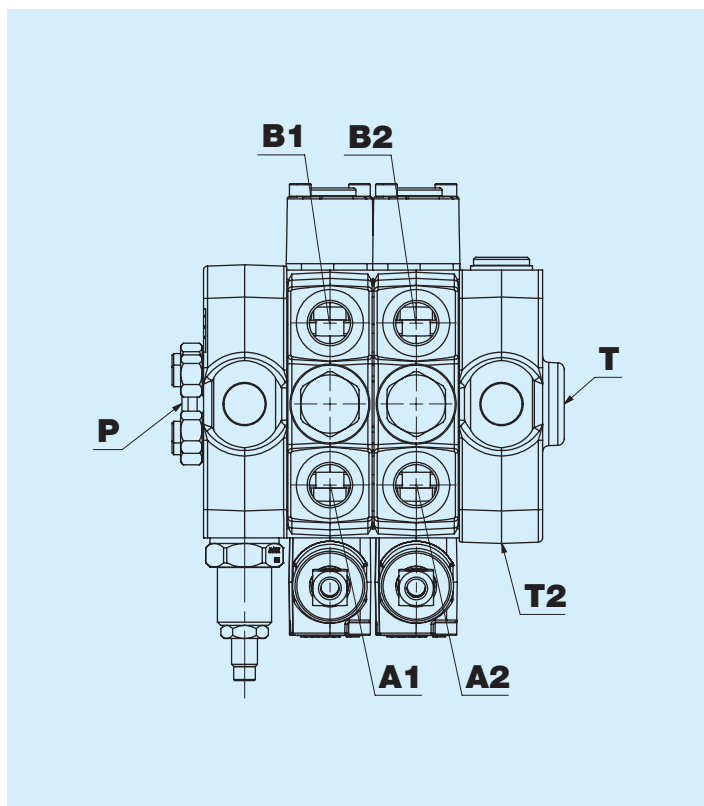
All the DNC75 directional control valves are set up for C.O. (carry-over)



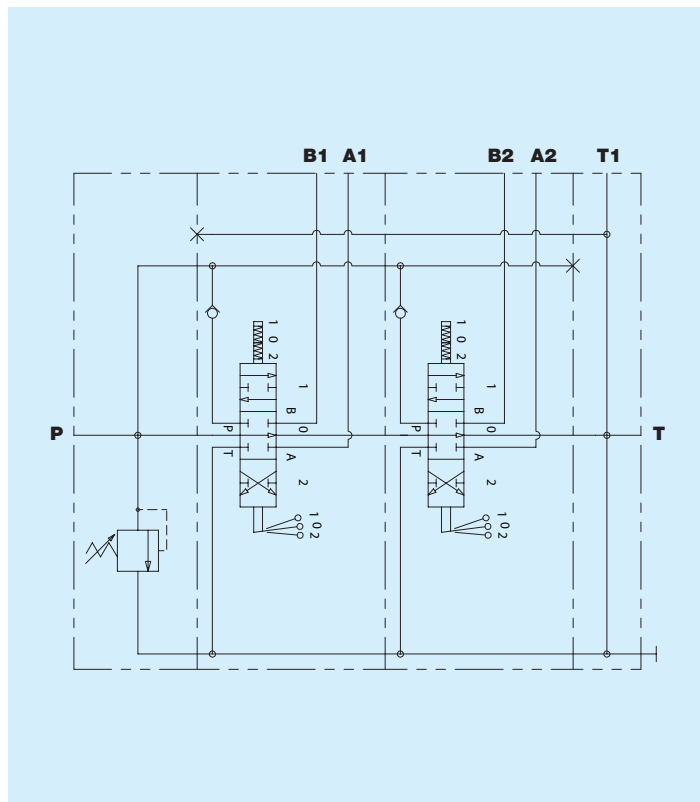
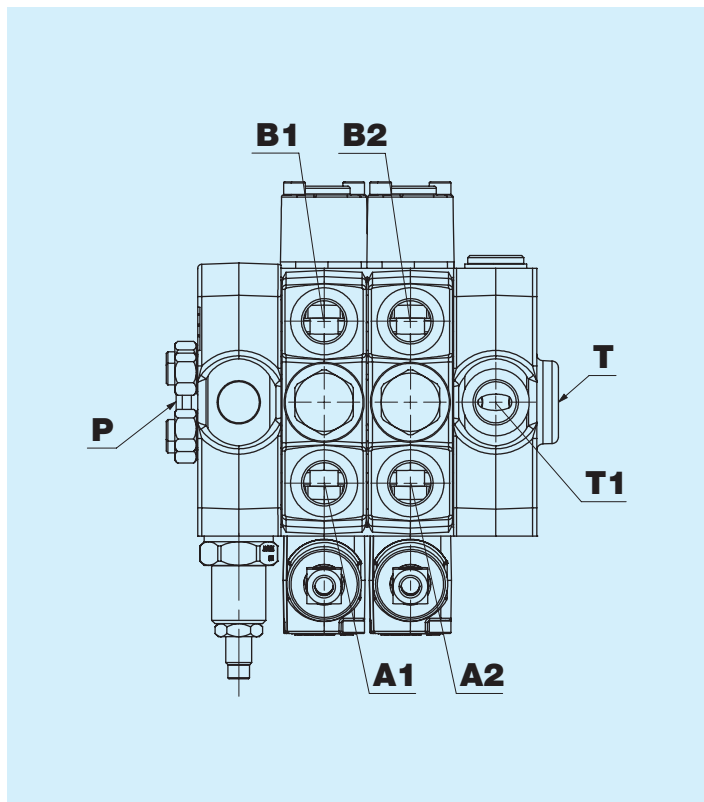
P lateral



T2 laterally opposite



T1 upper



For more information on the special options, please contact the Bondioli e Pavesi technical department.

											Repeat for each section of the valve					
											11	12	13	14	15	16
DNC75	1	2	3	4	5	6	7	8	9	10						
1	Number of sections															
	1 1 Section		4 4 Sections		7 7 Sections		A 10 Sections									
	2 2 Sections		5 5 Sections		8 8 Sections											
	3 3 Sections		6 6 Sections		9 9 Sections											
2	General options															
	N None		Z Zinc plating		B Black painted and power supply											
	V Black paint		A Power unit		E Zinc plating and power supply											
3	Inlet type															
	S Left (standard)		D Right													
4	Thread port P															
	O Not processed		3 M14x1.5 ISO 9974		W M18x1.5 ISO 6149		R 7/8" - 14 SAE ISO 11926									
	L 1/4" GAS ISO 1179		C M18x1.5 ISO 9974		J M22x1.5 ISO 6149											
	B 1/2" GAS ISO 1179		N M22x1.5 ISO 9974		P 9/16" - 18 SAE ISO 11926											
5	Thread port P1															
	O Not processed		3 M14x1.5 ISO 9974		W M18x1.5 ISO 6149		R 7/8" - 14 SAE ISO 11926									
	L 1/4" GAS ISO 1179		C M18x1.5 ISO 9974		J M22x1.5 ISO 6149											
	B 1/2" GAS ISO 1179		N M22x1.5 ISO 9974		P 9/16" - 18 SAE ISO 11926											
6	Options on port P - P1															
	A P open - P1 not processed (standard)		C P open - P1 open		E P plugged - P1 open											
	B P not processed - P1 open		D P open - P1 plugged													
7 8	Maximum pressure relief valve type															
	00 VMP replacement plug		15 150 bar		21 210 bar		27 270 bar									
	10 100 bar		16 160 bar		22 220 bar		28 280 bar									
	11 110 bar		17 170 bar		23 230 bar		29 290 bar									
	12 120 bar		18 180 bar		24 240 bar		30 300 bar									
	13 130 bar		19 190 bar		25 250 bar											
	14 140 bar		20 200 bar		26 260 bar											
9	Sealing type maximum pressure relief valve															
	G Grub screw		C Cap		P Sealed		N None									
10	Thread ports A - B															
	A 3/8" GAS ISO 1179		C M18x1.5 ISO 9974		J M22x1.5 ISO 6149		R 7/8" - 14 SAE ISO 11926									
	B 1/2" GAS ISO 1179		N M22x1.5 ISO 9974		P 9/16" - 18 SAE ISO 11926											
	T M16x1.5 ISO 9974		W M18x1.5 ISO 6149		E 3/4" - 16 SAE ISO 11926											
11	Actuator															
	N None		Z Lever holder with stroke limiter		P Pneumatic control		S Single effect electro-hydraulic control port A									
	L Standard kit for lever holder		T Cable setting		U Dual effect electro-pneumatic control		X Single effect electro-hydraulic control port B									
	A Without lever holder, standard appendix		M Joystick		I Simple effect electro-pneumatic control port A											
	B Without lever holder, without appendix		G Joystick with spool lock		W Simple effect electro-pneumatic control port B											
	C Without lever holder, flat appendix		K Hydraulic control		H Dual effect electro-hydraulic control											

17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
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12	13	Spool types <table border="0"> <tr> <td>01 Spool type</td> <td>04 Spool type</td> <td>07 Spool type</td> <td>10 Spool type</td> </tr> <tr> <td>03 Spool type</td> <td>05 Spool type</td> <td>08 Spool type</td> <td>70 Spool type</td> </tr> </table>														01 Spool type	04 Spool type	07 Spool type	10 Spool type	03 Spool type	05 Spool type	08 Spool type	70 Spool type																
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14	Spool options <table border="0"> <tr> <td>A Standard spool 45-70 l/min</td> <td>C Nickel-plated spool 45-70 l/min</td> <td>N None</td> </tr> <tr> <td>B Standard spool 20-45 l/min</td> <td>D Nickel-plated spool 20-45 l/min</td> <td></td> </tr> </table>															A Standard spool 45-70 l/min	C Nickel-plated spool 45-70 l/min	N None	B Standard spool 20-45 l/min	D Nickel-plated spool 20-45 l/min																			
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15	16	Spool control <table border="0"> <tr> <td>NN None</td> <td>0C Neutral position in 0, detent in 2</td> <td>NS Neutral position in 0, detent in 3</td> <td>KD For kick-off</td> </tr> <tr> <td>0A Neutral position in 0</td> <td>0D Detent in 0, 1, 2</td> <td>0R Neutral position in 2</td> <td>... For selection, see the relevant chapter</td> </tr> <tr> <td>0B Neutral position in 0, detent in 1</td> <td>NT Neutral position in 0, detent in 4</td> <td>0S Neutral position in 1</td> <td></td> </tr> </table>														NN None	0C Neutral position in 0, detent in 2	NS Neutral position in 0, detent in 3	KD For kick-off	0A Neutral position in 0	0D Detent in 0, 1, 2	0R Neutral position in 2	... For selection, see the relevant chapter	0B Neutral position in 0, detent in 1	NT Neutral position in 0, detent in 4	0S Neutral position in 1													
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17	18	Valve type port A <table border="0"> <tr> <td>NN None</td> <td>TP Processed and plugged</td> <td>VC Anticavitation valve</td> <td>LC Pressure limiter and anticavitation cartridge</td> </tr> </table>														NN None	TP Processed and plugged	VC Anticavitation valve	LC Pressure limiter and anticavitation cartridge																				
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19	20	Setting LC valve on port A <table border="0"> <tr> <td>00 None</td> <td>15 LC 150 bar</td> <td>21 LC 210 bar</td> <td>27 LC 270 bar</td> </tr> <tr> <td>10 LC 100 bar</td> <td>16 LC 160 bar</td> <td>22 LC 220 bar</td> <td>28 LC 280 bar</td> </tr> <tr> <td>11 LC 110 bar</td> <td>17 LC 170 bar</td> <td>23 LC 230 bar</td> <td>29 LC 290 bar</td> </tr> <tr> <td>12 LC 120 bar</td> <td>18 LC 180 bar</td> <td>24 LC 240 bar</td> <td>30 LC 300 bar</td> </tr> <tr> <td>13 LC 130 bar</td> <td>19 LC 190 bar</td> <td>25 LC 250 bar</td> <td></td> </tr> <tr> <td>14 LC 140 bar</td> <td>20 LC 200 bar</td> <td>26 LC 260 bar</td> <td></td> </tr> </table>														00 None	15 LC 150 bar	21 LC 210 bar	27 LC 270 bar	10 LC 100 bar	16 LC 160 bar	22 LC 220 bar	28 LC 280 bar	11 LC 110 bar	17 LC 170 bar	23 LC 230 bar	29 LC 290 bar	12 LC 120 bar	18 LC 180 bar	24 LC 240 bar	30 LC 300 bar	13 LC 130 bar	19 LC 190 bar	25 LC 250 bar		14 LC 140 bar	20 LC 200 bar	26 LC 260 bar	
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25	Lever options <table border="0"> <tr> <td>N None</td> <td>C h 184 mm / 7.24 in</td> <td>L Straight vertical</td> <td>Y Bent 15° horizontal</td> </tr> <tr> <td>S Without lever</td> <td>D h 214 mm / 8.42 in</td> <td>O Bent 15° vertical</td> <td>Q Bent 30° horizontal</td> </tr> <tr> <td>A h 109 mm / 4.3 in</td> <td>E h 254 mm / 10 in</td> <td>R Bent 30° vertical</td> <td></td> </tr> <tr> <td>B h 134 mm / 5.28 in</td> <td>F h 304 mm / 11.97 in</td> <td>M Straight horizontal</td> <td></td> </tr> </table>															N None	C h 184 mm / 7.24 in	L Straight vertical	Y Bent 15° horizontal	S Without lever	D h 214 mm / 8.42 in	O Bent 15° vertical	Q Bent 30° horizontal	A h 109 mm / 4.3 in	E h 254 mm / 10 in	R Bent 30° vertical		B h 134 mm / 5.28 in	F h 304 mm / 11.97 in	M Straight horizontal									
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27	Spool control options <table border="0"> <tr> <td>N None</td> <td>M Male dual control</td> <td>Y Dual effect microswitch</td> <td>O Simple effect microswitch port B</td> </tr> <tr> <td>C Stroke limiter</td> <td>T Cable fitting</td> <td>P Simple effect microswitch port A</td> <td></td> </tr> </table>															N None	M Male dual control	Y Dual effect microswitch	O Simple effect microswitch port B	C Stroke limiter	T Cable fitting	P Simple effect microswitch port A																	
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28



Voltage and connector

N None	B 24V DIN 43650	H 24V DEUTSCH DT04-2P
A 12V DIN 43650	G 12V DEUTSCH DT04-2P	

29



Thread port T

0 Not processed	3 M14x1.5 ISO 9974	W M18x1.5 ISO 6149	R 7/8" - 14 SAE ISO 11926
L 1/4" GAS ISO 1179	C M18x1.5 ISO 9974	J M22x1.5 ISO 6149	
B 1/2" GAS ISO 1179	N M22x1.5 ISO 9974	P 9/16" - 18 SAE ISO 11926	

30



Thread port T2

L 1/4" GAS ISO 1179	C M18x1.5 ISO 9974	J M22x1.5 ISO 6149
B 1/2" GAS ISO 1179	N M22x1.5 ISO 9974	P 9/16" - 18 SAE ISO 11926
3 M14x1.5 ISO 9974	W M18x1.5 ISO 6149	R 7/8" - 14 SAE ISO 11926

31



Options on port T - T2

A T open - T2 open (standard)	B T open - T2 plugged	C T not processed - T2 open	D T plugged - T2 open
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32



Discharge options

A Carry-over option (standard)	B With carry-over port T
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