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P40

Hydraulic directional control valves Max. operating pressure up to 250 bar Nominal flow up to 40 lpm

Index

Description

Manually or mechanically controlled hydraulic directional control valve P40 is designed for distribution and control the flow of oil between pump and the cylinder/hydro-motor etc. It is manufactured with 1 to 6 spools, with parallel or series function, with common or individual back valve for each spool, with or without safety valve.

Construction: P40 is a mono-block distributor. Its body is made of cast iron EN-GJL300. Spool are made of carburized steel with hard chrome plating.

Mounting: The distributor is fixed with two bolts M8.

Specification:-

Valve monoblock	Valve monoblock
Mounting	2 bolts M8
Pressure connections	internal thread
Ambient temperature	-40°C~+60°C
Pressure medium	Mineral oil based hydraulic oil
Viscosity	12...800mm²/s permissible range, 20...100mm²/s recommended range
Fluid temperature	-15°C...+80°C
Filtration	Oil contamination 10 to NAS1638
Max. operating pressure	P= 250bar T= 50bar A,B = 300bar
Leakage	15cm³/min at 120bar
Nominal flow	401/min(see "operating" diagram)
Spool stoke	±6mm
Actuating force	<200N in spool axis direction

Ordering code

FH	÷	0	*	P40	R	1	A	1	A	1	G	KZ1	T	H	E	C2	11	÷	1X

FH make

Block with common check valve

Number of spools (table 3)

Directional control valve type

Inlet high pressure-right

Way of distribution/parallel or ....(table 4)

First spool distribution type (table 5)

Spool control/detend and ets. (table 6)

Second spool distribution type (table 5)

Spool control/detend and ets. (table 6)

Ports/treads/ (table 9)

General operation feature (table 10)

With “dedent”

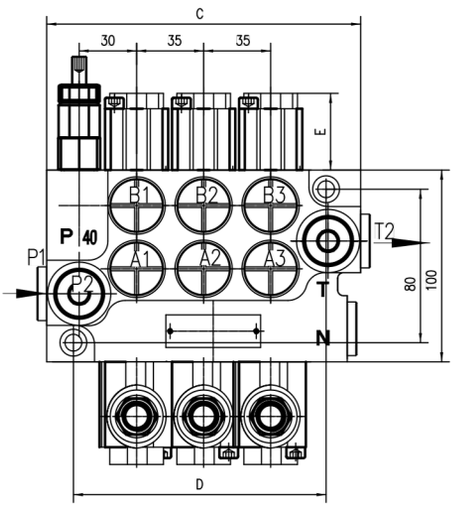
Operation feature/pneumatic,....

With electric switch

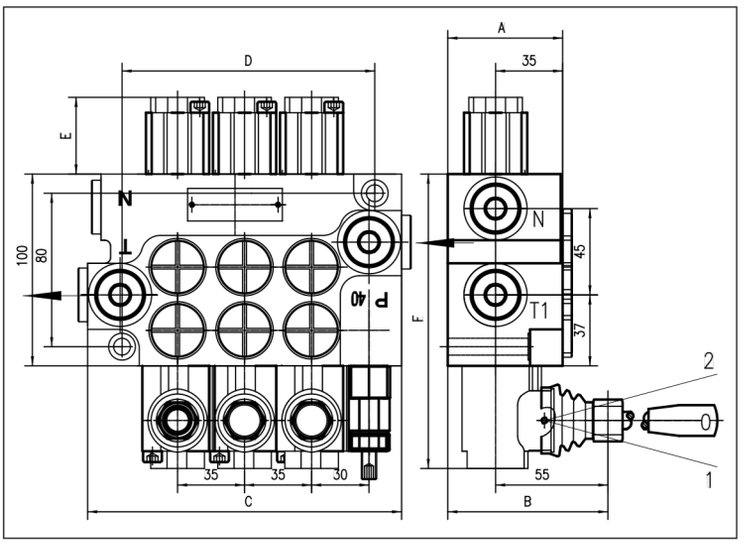
High pressure carry over

Connection ports in use

Element size model selection (ordering code)



inlet high pressure-left



inlet high pressure-right

- Table 1

	A	B	C	D	P1	P2	T1	T2
01P40	60	80	85	60	+	-	+	-
02P40	60	80	129	97	+	+	+	+
03P40	60	80	164	132	+	+	+	+
04P40	60	80	199	167	+	+	+	+
05P40	60	80	234	202	+	+	+	+
06P40	60	80	269	237	+	+	+	+

- Table 2

Spool control	E	F
1; 4; 5; 6; 7; 8; 9; 10; 11	40	193
2; 3	72	225
16	+	+

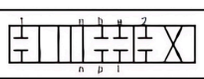
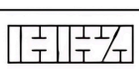
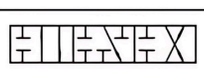
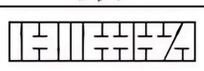
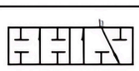
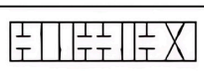
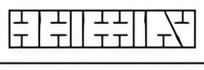
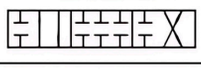
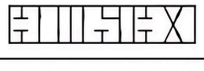
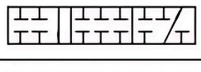
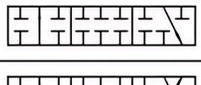
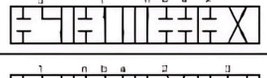
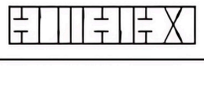
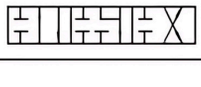
- Table 3

Code	Number of spools
	1
02, 2	2
03, 3	3

- Table 4

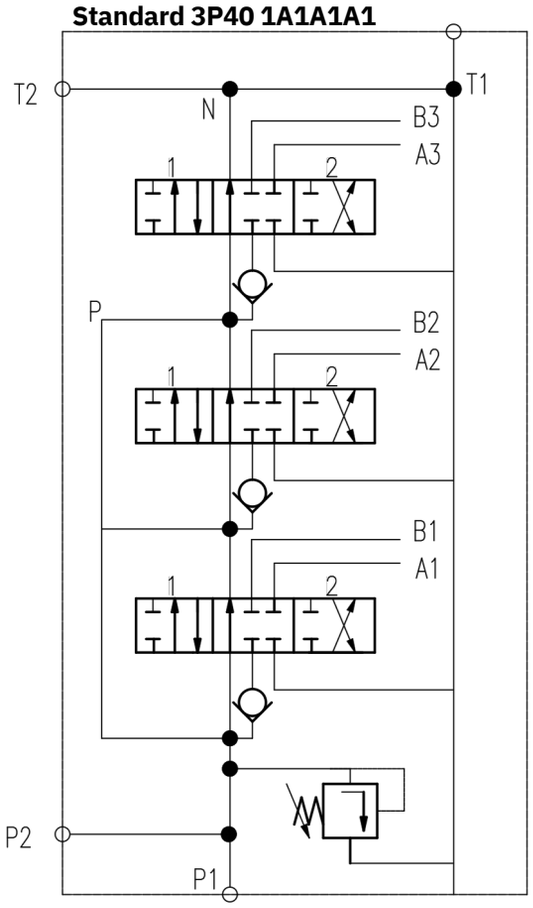
Code	Way of distribution
1	parallel
2	tanden (series parallel)

- Table 5

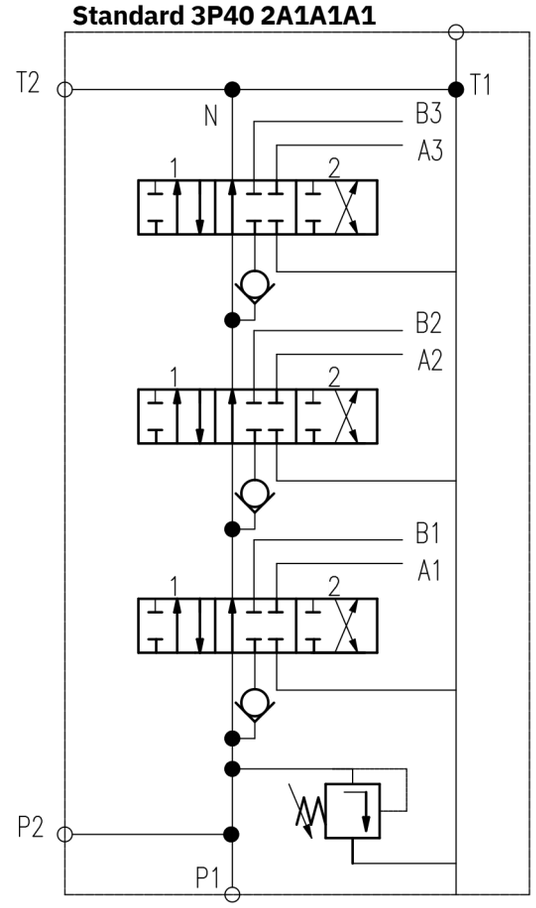
Code	Spool type	Code	Spool type	Code	Spool type
A		G		Q	
B		H		R	
C		M		S	
D		N		T	
E		O		K	
F		P		L	

Element size model selection (ordering code)

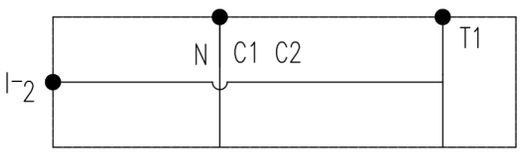
Standard 3P40 1A1A1A1



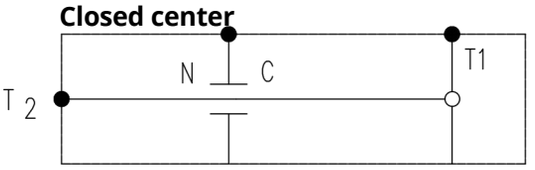
Standard 3P40 2A1A1A1

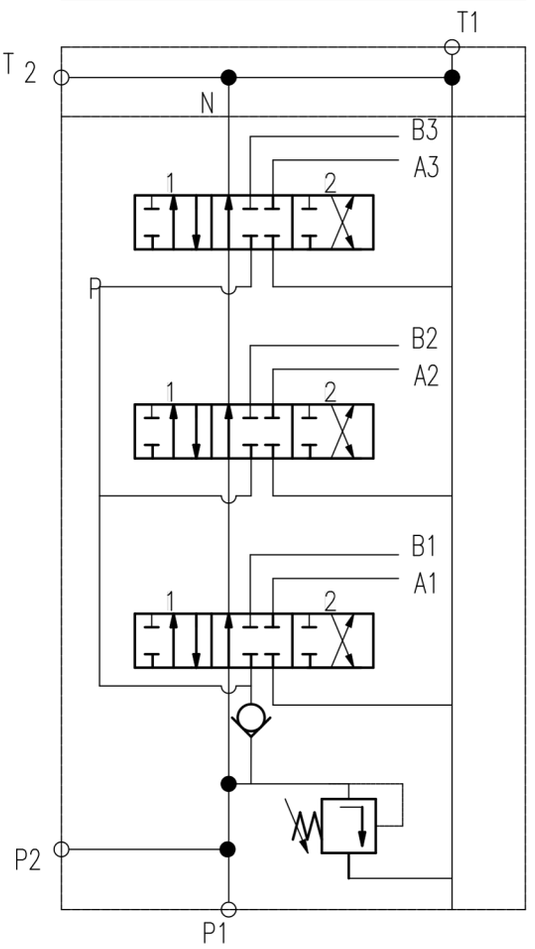


Standard 3P40 1A1A1A1 Power beyond
High pressure carry over

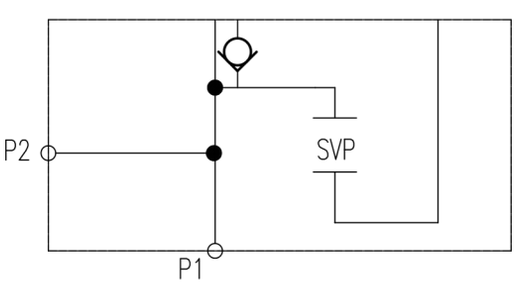


Closed center



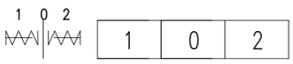
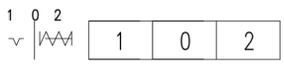
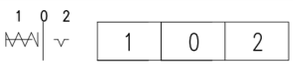


Without relief valve



Element size model selection (ordering code)

- Table 6

Code	Spool control
1	
2	
3	
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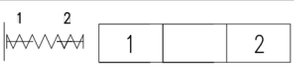
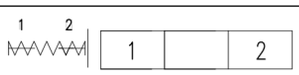
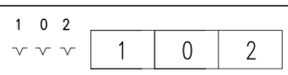
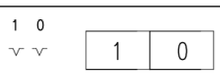
5	
6	
7	
8	
9	
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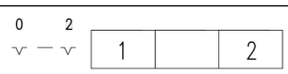
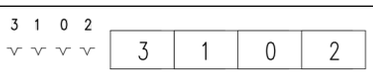
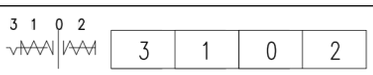
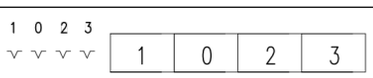
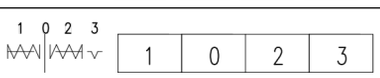
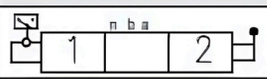
11	
13*	
16*	
13R**	
12**	

- Table 7

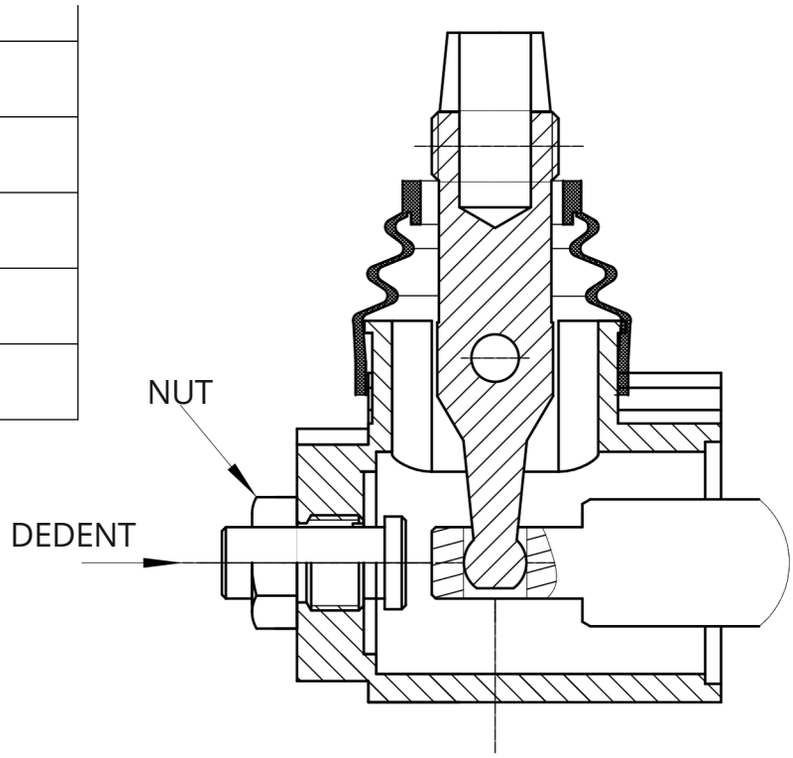
Code	Incorporated microswitch	
E		Microswitch type- Omron-V 165/C5

- Table 8

Code	Operation feature	
P		On-Off pneumatic control; 5-10 bar; parts G1/4
H		On-Off hydraulic control; 5-20 bar; parts G1/4

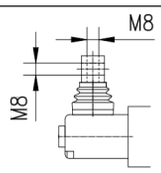
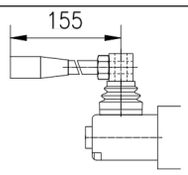
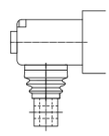
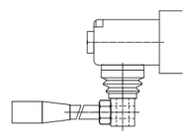
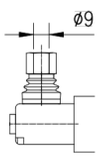
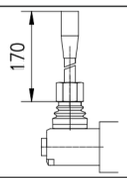
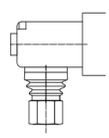
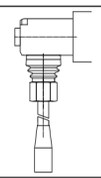
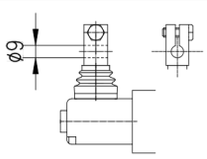
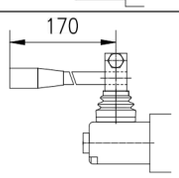
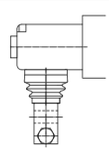
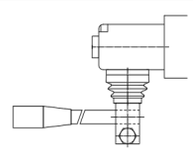
- Table 9

Code	Ports (treads)			
	P	A; B	T	N
M	M22X1.5	M18X1.5	M22X1.5	M22X1.5
G	G1/2	G3/8	G1/2	G1/2
S	7/8-14UNF	3/4-14UNF	7/8-14UNF	7/8-14UNF



Element size model selection (ordering code)

- Table 10

Code	Feature	Code	Feature	Code	Feature	Code	Feature
KZ		KZ1		KZ0		KZ01	
KY		KY1		KY0		KY01	
KL		KL1		KL0		KL01	
-	Without hand control						

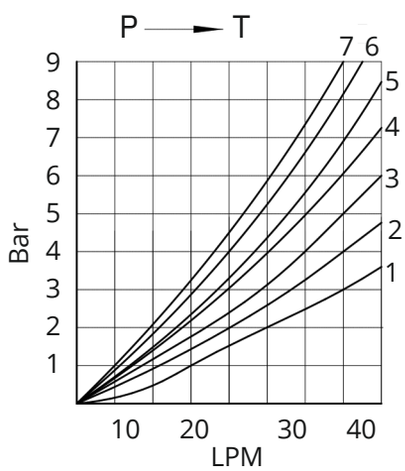
- Table 11

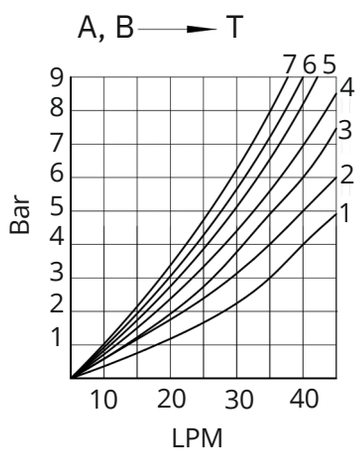
Code	
C	Closed center
C1	Part for power beyond sleeve (carry over) (N : Ø14 M22X1.5)
C2	Part for power beyond sleeve (carry over) (N : G1/2 M22X1.5)
-	Without part for pressure carry over
X	Power beyond ever to tank

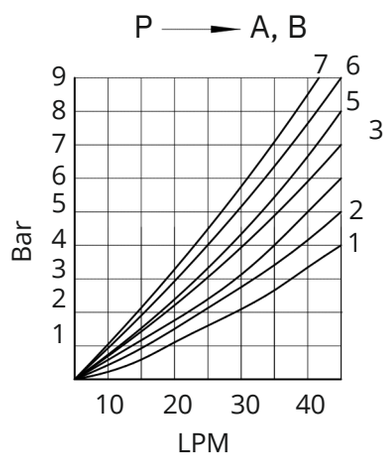
- Table 12

Code	Used connection ports
11	P1 ; T1
12	P1 ; T2
21	P2 ; T1
22	P2 ; T2

Pressure drop curves

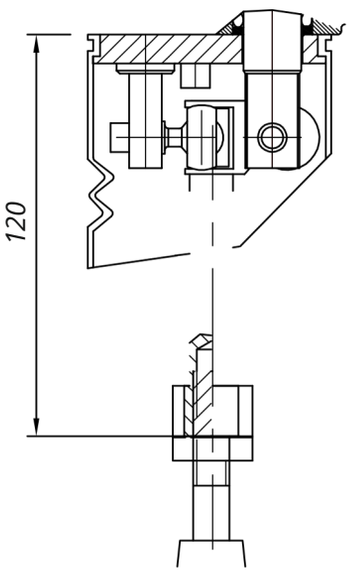


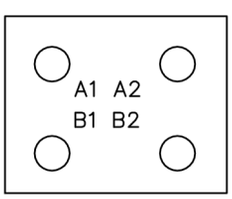




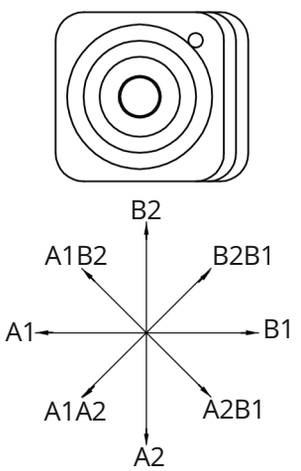
Joystick details

Joystick “+”
This control gives the possibility to operate, at the same time two spools with a “+” movement.

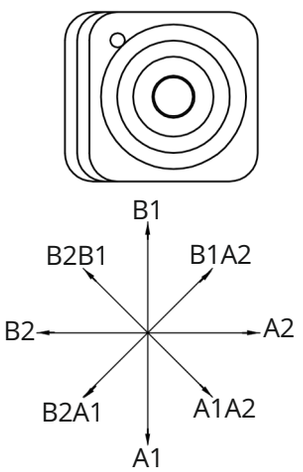




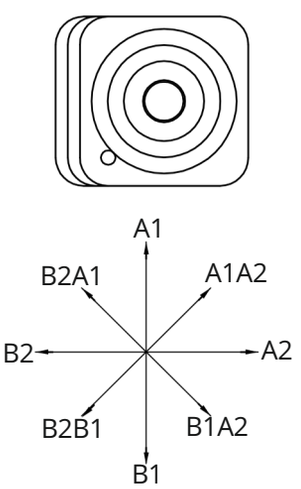
Standard version 1



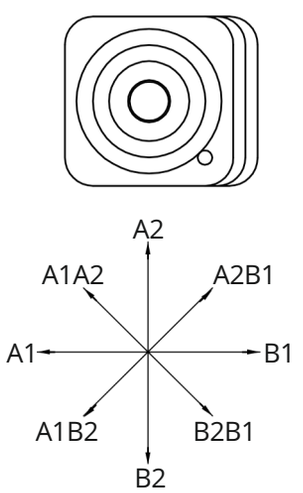
Standard version 2

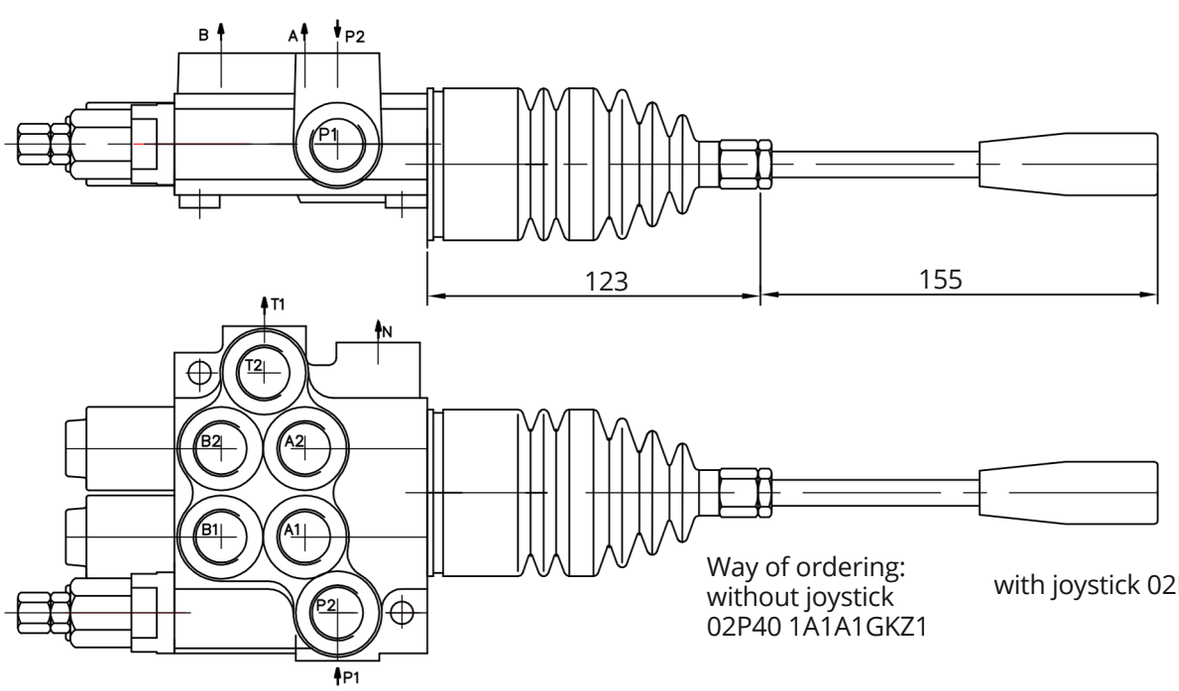


Standard version 3



Standard version 4





Way of ordering:
without joystick
02P40 1A1A1GKZ1

with joystick 02P40 1(A1A1)(js+3)G