

P40

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



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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.

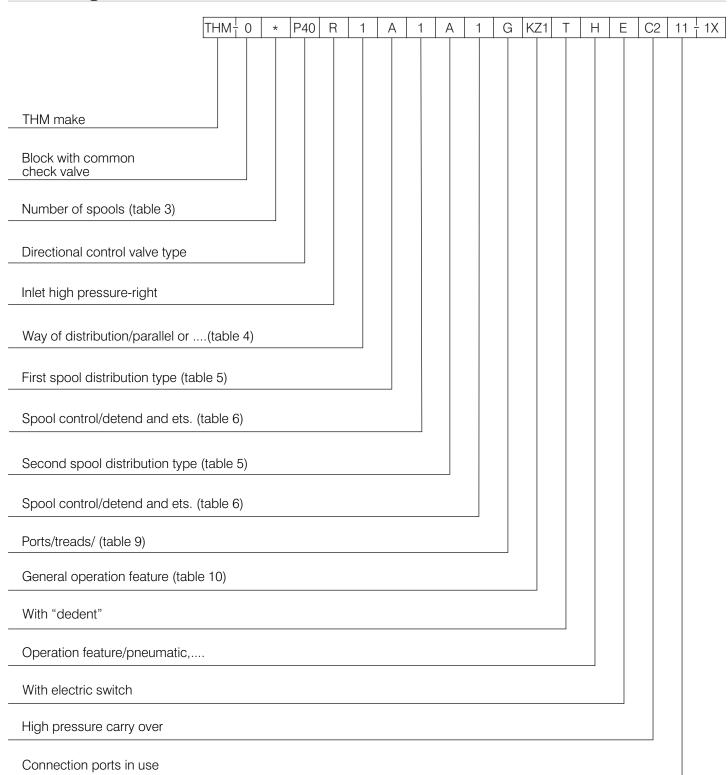
Mounting: The distributor is fixed with two bolts M8.

• Specifications

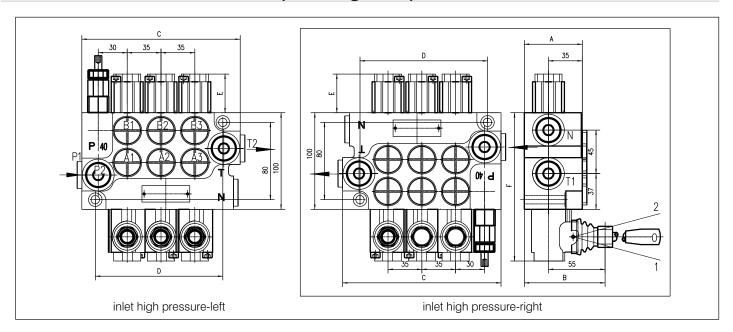
Valve monoblock	Valve monoblock		
Mounting	2 bolts M8		
Pressure connections	internal thread		
Ambient temperature	-40°C~+60°C		
Pressure medium	Mineral oil based hydraulic oil		
Viscosity	12800mm²/s permissible range, 20100mm²/s recommended range		
Fluid temperature	-15°C+80°C		
Filtration	Oil contamination 10 to NAS1638		
Max. operating pressure	P= 250bar T= 50bar A,B = 300bar		
Leakage	15cm ³ /min at 120bar		
Nominal flow	401/min(see "operating" diagram)		
Spool stoke	±6mm		
Actuating force	<200N in spool axis direction		



Ordering code







• Table 1

	Α	В	С	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	Е	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

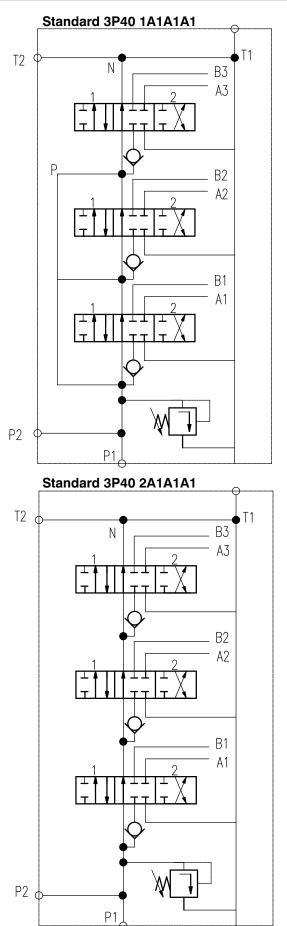
• Table 4

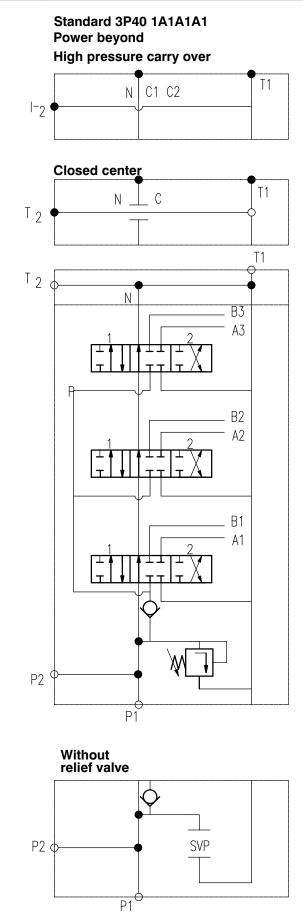
Code	Way of distribution		
1	parallel		
2	tanden (series parallel)		

• Table 5

Code	Spool type	Code	Spool type	Code	Spool type
А		G	[]+ ++/-	Q	[‡]][‡; ‡ X]
В		Н		R	[‡1][‡‡][‡X]
С		М		S	
D	<u> </u>	N		Т	
Е	[‡]]][<u>‡</u>]	0		К	3 1 n b a 2 T T T T T
F	[‡]][‡][‡X]	Р	<u> </u>	L	









• Table 6

Code	Spool control
1	1 0 2 WV VV 1 0 2
2	1 0 2 V VVI 1 0 2
3	1 0 2
4	
5	
6	1 2
7	1 2 1 2
8	1 0 2
9	1 0
10	0 2
11	0 2 1 2
13*	3 1 0 2 v v v v 3 1 0 2
16*	3 1 0 2 VAVA AVA 3 1 0 2
13R**	1 0 2 3 v v v v 1 0 2 3
12**	1 0 2 3

• Table 7

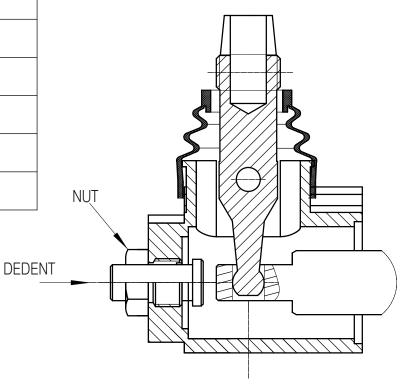
Code	Incorporated microswitch					
Е	n b a	Microswitch type- Omron-V 165/C5				

• Table 8

Code	Operation feature					
Р	1 n b a 2	On-Off pneumatic control; 5-10 bar; parts G1/4				
Н	1 1 2 1	On-Off hydraulic control; 5-20 bar; parts G1/4				

• Table 9

Code	Ports (treads)					
	Р	A; B	Т	Ν		
М	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		





• Table 10

Code	Feature	Code	Feature	Code	Feature	Code	Feature
KZ	M8 8M	KZ1	155	KZ0		KZ01	
KY	ø9	KY1	170	KY0		KY01	
KL		KL1	170	KL0		KL01	
-	Without hand control						

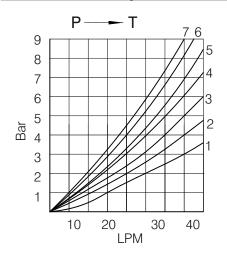
• Table 11

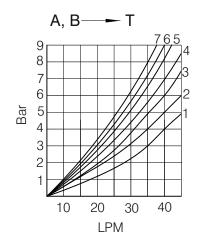
Code	
С	Closed center
C1	Part for power beyond sleeve (carry over) (N: Ø14 M22X1.5)
C2	Part for power beyond sleeve (carry over) (N: G1/2 M22X1.5)
-	Without part for pressure carry over
X	Power beyond ever to tank

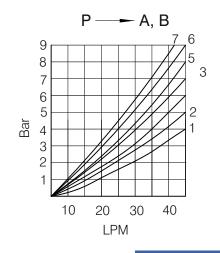
• Table 12

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

Pressure drop curves





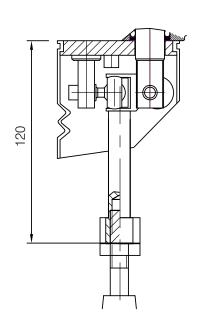


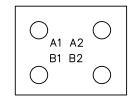


Joystick details

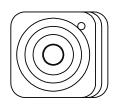
Joystick "+"

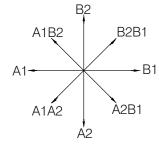
This control gives the possibility to operate, at the same time two spools with a "+" movement.





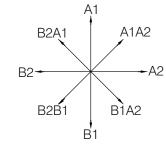
Standard version 1



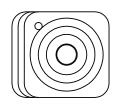


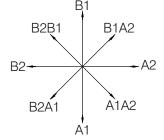
Standard version 3





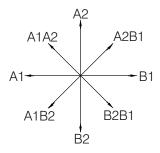
Standard version 2

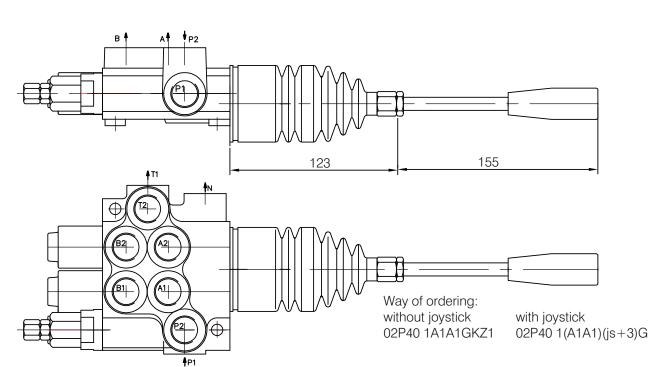




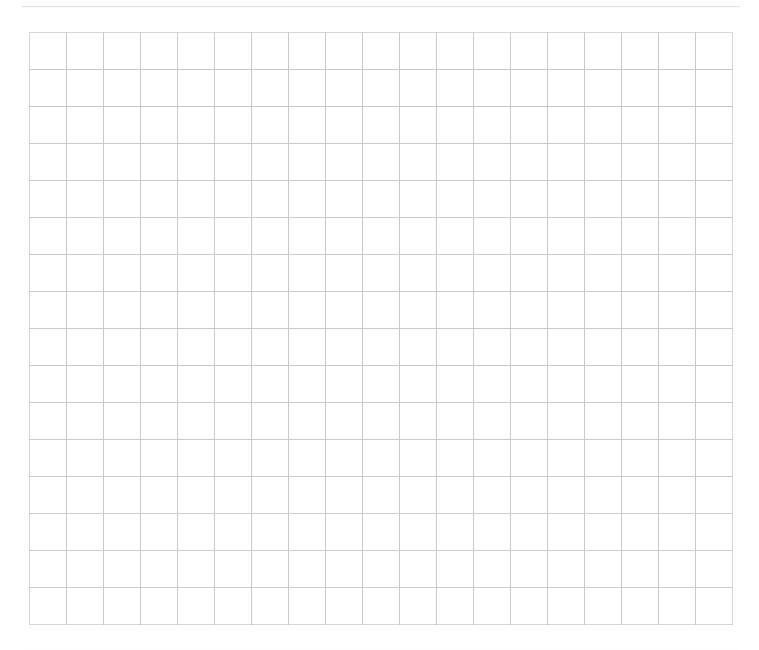
Standard version 4











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