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directional control valve P120

Type: P120

# HYDRAULIC DIRECTIONAL CONTROL VALVES



## Description

For starting, controlling and stopping the working fluid between the generator of pressured flow, the consumers and the Tank.

### Specifications

1. Valve monoblock

2.Mounting 3 bolts M10

3.Pressure connections internal thread

4. Ambient temperature -40C...+60C

5.Pressure medium mineral oil based hydraulic oil

6.Viskosity 12...800 mm²/s permissible range 20...100 mm²/s recommended range

7.Fluid temperature - 15C...+80C

8.Filtration Oil contamination 10 to NAS1638

9. Max. operating pressure P = 250 bar

T = 50 barA, B = 300 bar

10.Leakage (A, B – T) 30 cm³/min at 120 bar

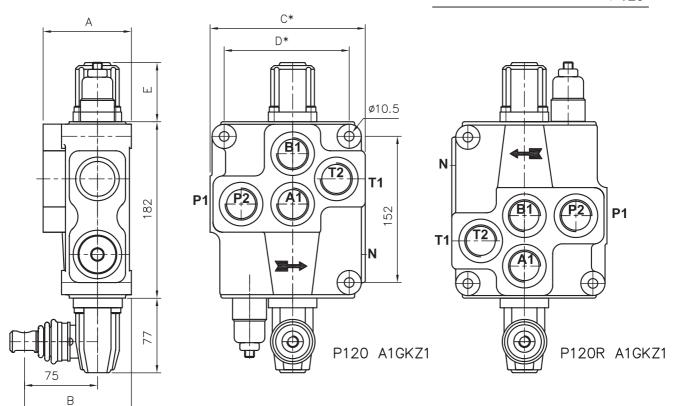
11. Nominal flow 120 l/min (see "operating" diagram)

12. Spool stroke  $\pm$  10 mm, L12 =  $\pm$  10 mm +6 mm

13. Actuating force < 300 N in spool axis direction

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\* for each next spool + 53 mm

Table 1

	Α	В	С	D	P1	P2	T1	T2
P120	92	110	160	129	+	+	+	+

·	Table 2
spool control фиксации золотника	E
1; 2, 3, 4; 5; 6; 7; 8; 9; 10; 11;	64
12	74



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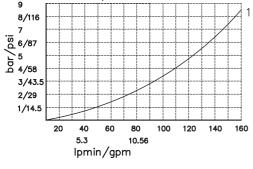
# 02P120 1L12A1 P 1 02, 2 2 03, 3 3 ets.

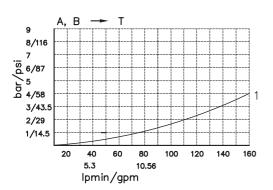
	Table 3		parallel	Table 4
code	Number of spools	code	way of distribution	
Р	1	1	parallel	
02, 2	2	(2)	tandem(series parallel)	
03, 3	3			
ets.		-		

				X	$\mathbb{A}_{-}$	]			
			Ρ						
bar/psi	9 8/116 7 6/87 5 4/58 3/43.5 2/29 1/14.5	P —	T						1
		20	40 5.3 Ipmii	60 n/gp	80 10.56 m	100	120	140	160
s:	9 8/116 7	P	<b></b> /	A, B					1

	Table 5
code	spool type
Α	1 n b a 2 r r r r r r r r r r r r r r r r r r
В	
С	
D	
Е	[:11115; X]
F	[;1]1;1;X
G	1;1;1/,
Н	
М	
N	
0	
Р	[;]]],;;X]
Q	[;;;;;X]
R	[; ] ] ; ; X
S	111111
Т	
L	1 nba 2 3

		Table 6
code	spool c	ontrol
1	1 <b>0</b> 2	1 0 2
2	1 0 2 √   <del>/√√</del>	1 0 2
3	1 0 2 	1 0 2
4	<b>0</b> 2   <del>V√√</del>	0 2
5	1 0	1 0
6	<b>1</b>	1 2
7	1 2	1 2
8	~~~~	2
9	1 0	1 0
10	~ ~	
11	~-~	
12	1 0 2 <b>3</b>	1 0 2 3
13	~~~	3





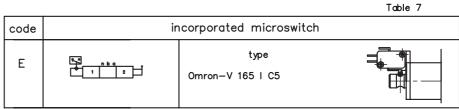


		Table 8
code		operation feature
Р	n b a	on-off pneumatic contol; 5-10 bar ; ports G1/4
Н	1 2	on-off hydraulic control ; pn = 5 - 20 bar ; ports G1/4



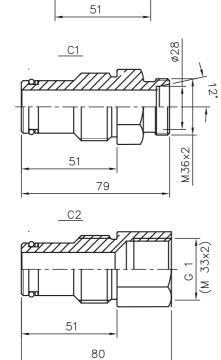
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treads for conection		pai	Table 9	
outlets/ports/	metric	BSP	SAE	NPT
P, A, B, T	M33x2	G 1"	SAE 16	1 - 11.5
N	M36x1.5	_	_	_

	N	\	M36x1.5 —				_
			_			_	Table 10
code	with thread M12	code		e Ø12	code	with car	nge Ø12
KZ	M12 922 777 777	KY	ø12		KI		Ø12-
KZ1		KY1			KI1		
KZO		KY0			KIO		
KZ01		KY0°			KI01		



\_\_C\_

M36×1.5

		Table 11
code	metric	
Х	without N	
_	with N, but closed	
С	with N, closed center	
C1	with N —carry over for ermeto	
C2	with N-carry over, internal thread	

		Table 12
code	ports for connection in uze	
11	P1 ; T1	
12	P1 ; T2	
21	P2 ; T1	
21	P2 ; T1	