Hydraulic Directional Control Valves





Description

For starting, controlling and stopping the working uid between the generator of pressured ove thousumers a the Tank.

3 bolts M8

12...800 mm²/s permissible range

Speci cations

6.Viskosity

8.Filtration

1.Valve monoblock

2.Mounting

(A, B - T)

3.Pressure connections internal thread

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

5.Pressure medium mineral oil based hydraulic oil

•

 $20...100 \; \text{mm}^2/\text{s} \; \text{recommended range} \\ 7. \text{Fluid temperature} \qquad \qquad -15 \text{C}...+80 \text{C}$

Oil contamination 10 to NAS1638

9. Max. operating pressure P = 250 bar
max. bar
T = 50 bar

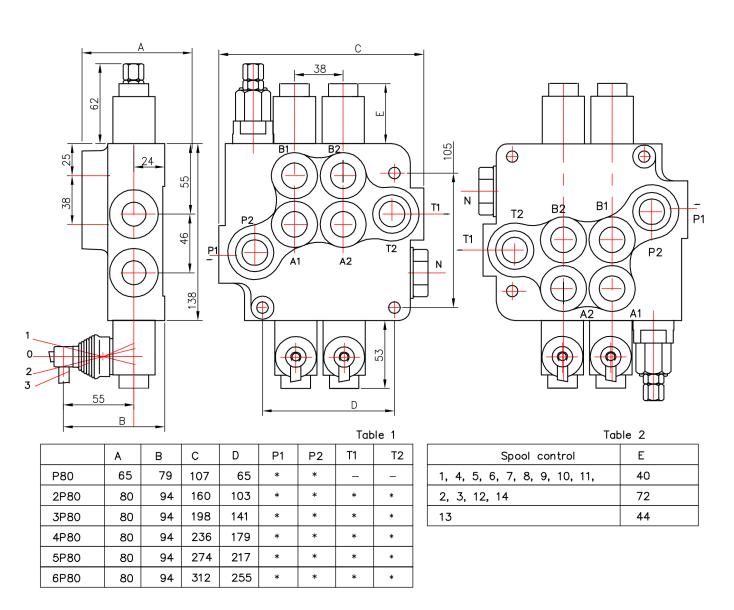
A, B = 300 bar 10.Leakage $18 \text{ cm}^3/\text{min at } 120 \text{ bar}$

11.Nominal ow 80 l/min (see "operating" diagram)

12.Spool stroke \pm 7 mm

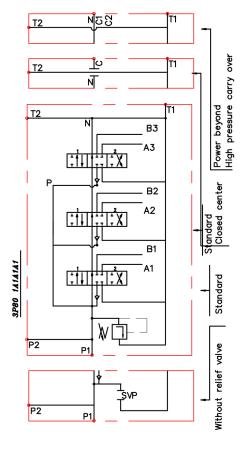
13. Actuating force < 220 N in spool axis direction





0	2	P80 	R	1	A 	1	A	1	G 	KZ1	T	H 	E 	C2]
k valve		type	ht	lel or/	tуре	d ets./	type	d estr./				matic,/			
common check	sloods	control valve	ssure – right	of distribution/parallel	distribution ty	detend and	distribution	detend and	_	general operation feature		feature /pneumatic <u>,</u>	switsh	carry over	ports in use
with	number of sp	directional cor	inlet high pressure		loods	ol control/detend	loods	ol control/detend	ts /treads,	eral opera	"teton"	operation feat	electric	pressure	connection po
plock plock	E nu	direc	inlet	way	first	spool	second	loods	ports	gene	with	oper	with	high	





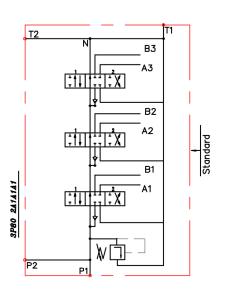


Table 3

	Table 3		Table 4
code	Number of spools	code	way of distribution
	1	1	parallel
2	2	2	tandem(series parallel)
3	3		

ets.

Т	abl	е	5
		•	•

code	spool type
Α	
В	1:111:1:7
С	
D	[#######
Е	[11115][X]
F	[;;;;;;X]
G	1:11:7
Н	[11] 1,
М	[;]];;;;;;X]
N	111 111 11/1
0	
Р	[;]][;];X]
Q	[X; [X; [11;]
R	[#####################################
S	11111
Т	
L	

Table 6

		14010 0
code	spool	control
1	1 0 2 M/M	1 0 2
2	1 0 2 V WM	102
3	1 0 2 WW ~	1 0 2
4	0 2 WM	0 2
5	1 0	1 0
6	1 2 1	1 2
7	1 2	1 2
8	102	102
9	1 0	1 0
10	0 2	0 2
11	1 2	1 2
12	1 0 2 3 MM VM v	1 0 2 3
13	1023	1023

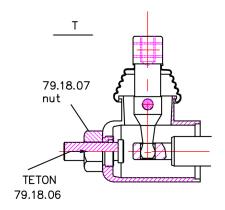
Table 7

code		incorporated microswi	tch
E	1 2	mikroswitch type Omron–V 165 I C5	

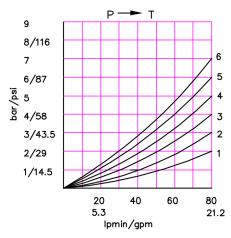
Table 8

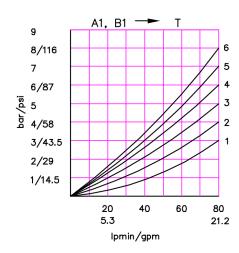
code	operation feature			
Р	1 2 1 2	on-off pneumatic contol; 5-10 bar ; ports G1/4		
Н	n b a 1 2	on-off hydraulic control ; pn = 5 - 20 bar ; ports G1/4		

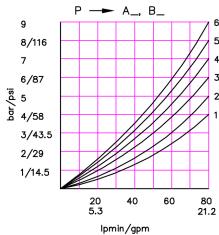




	-11		
200	directional	control	vaive







P80				Table 9			
code	ports (threads)						
	Р	А; В	Т	N			
М	M22x1.5	M22x1.5	M26x1.5	M26x1.5			
G	G1/2	G1/2	G3/4	G3/4			
S	7/8-14UNF	7/8-14UNF	1 1/16-14UNF	1 1/16-14UNF			

kir	nd of hand control; Bug	ручного	о управления		Toble 10
code	ескиз feature	code	ескиз feature	code	ескиз feature
KZ	M10	KY	#9	KI	
KZ1	155	KY1	170	KI1	170
KZ0		KY0		KI0	
KZ01		KY01		KI01	
_	without hand contro	ol .			

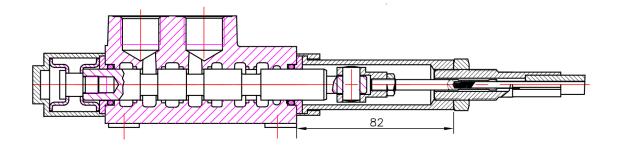
		Table 11
code	вид	
С	omвор "N" затворен closed center	
C2	omвор "N" продължава за следващ консуматор part for power beyond sleeve(carry over)	G 1/2 M22x1.5
_	omвор "N" е свързан с "T" without part for pressure carry over	- 11
Х	omвор "N" е винаги свързан с "T" power beyond ever to tank	

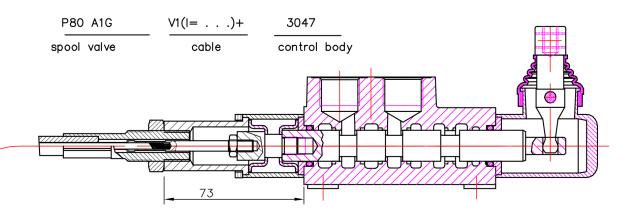
Table 12

code	used connection ports
11	P1 ; T1
12	P1 ; T2
21	P2 ; T1
22	P2 ; T2



REMOTE CONTROLS





P80 A1G V2KZ1(I= . . .)+ 3047

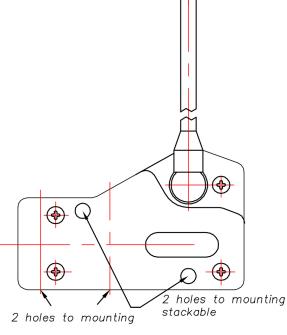
spool valve cable control body

Cable "INDEMAR" Cod. IT 3056 /I=1.00; 1.50; 2.00; 2.50; 3.00 m/ +control body "INDEMAR" code 3047, 3076, 3077

Technical specifications			
	3047	3076	3077
Stroke	13+13 mm	13+13 mm	13+13 mm
Max. load	45 kg	45 kg	45 kg
Level ratio	10:1	10:1	10:1
Lock in neutral	No	No	Yes
Antireverse lock	No	Yes	No
Body colour	Black	Black	Black
Cables type	Heavy Duty	Heavy Duty	Heavy Duty
Operating temperature	-40/+80C	-40/+80C	-40/+80C

High solidity controls for easy mounting on every type of distributor. They can by mounted stand alone or packed together.

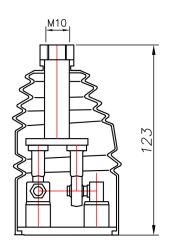
They use push—pull heavy duty cables that provide a positive smooth operating lever and are manifactured in a three differents models to meet different needs of Clients.

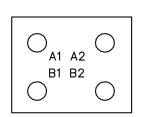




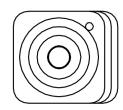
JOYSTICK "+"

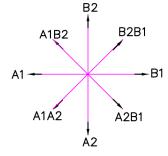
This control gives the possibility to operate, at the same time two spools with a"+"movement.



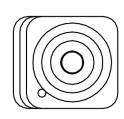


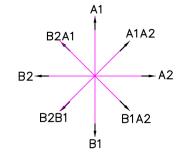
standard version 1



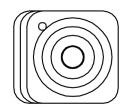


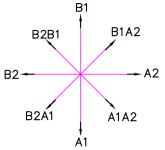
standard version 3



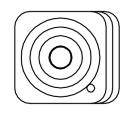


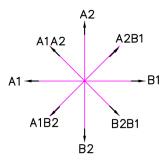
standard version 2

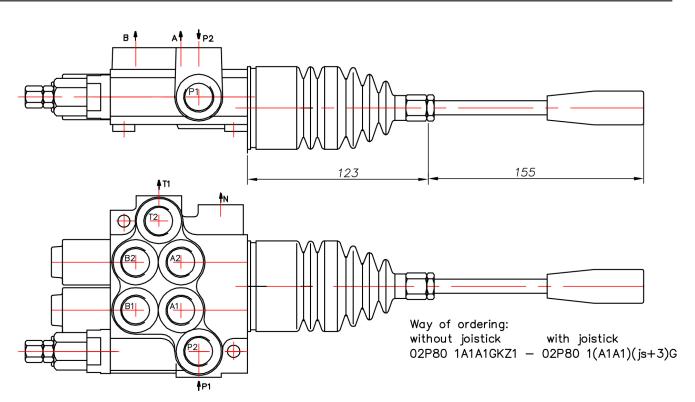




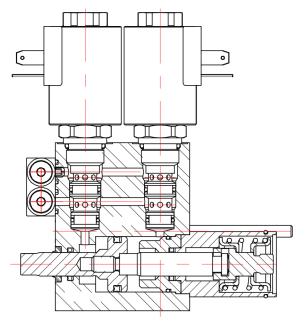
standard version 4

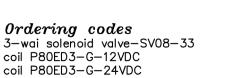


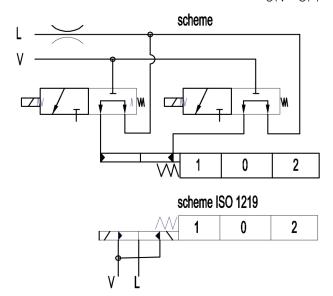




ED3 - electro-hydraulic control ON-OFF ON-OFF



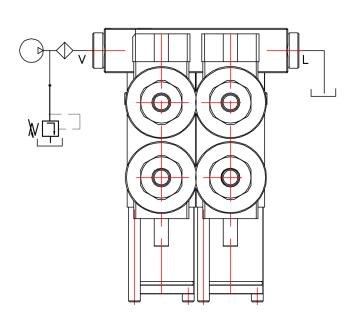




Operating pressure min 10 bar(145 psi) max 50 bar(725 psi) Max operating pressure in L (T line) 25 bar(360 psi)

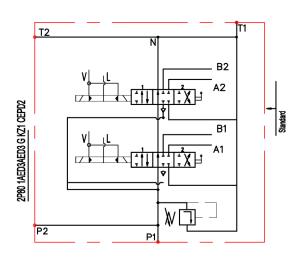
Solenoid operating features
Nominal voltage tolerance ±10%
Power rating 24W
Duty cycle 100 %

Collector kit for external pilot and drain - CEED...(1,2,3 ...)



Ordering example

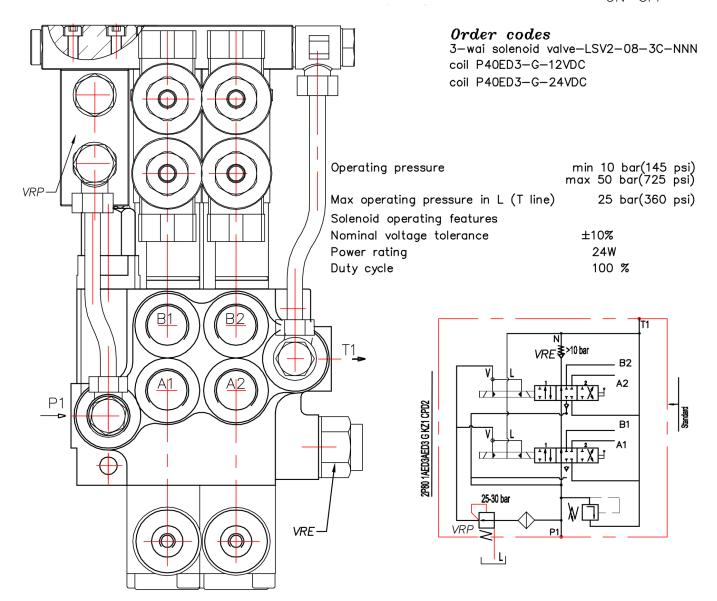
2P80 1A1ED3A1ED3 G KZ1-CEED2-12VDC



Ordering codes (BSP threads)

CEED1P80 Kit for 1 section
CEED2P80 Kit for 2 section
CEED3P80 Kit for 3 section
CEED480 Kit for 4 sektion

. . . .



Ordering example

2P80 VRP 1A1ED3A1ED3 G KZ1-CED2-VRE-12VDC

Colector kit

CED1P80 CED2P80 CED3P80 CED480

Ordering codes BSP threads

Kit for 1 section Kit for 2 section Kit for 3 section Kit for 4 sektion

Back pressure value VRE-P80

