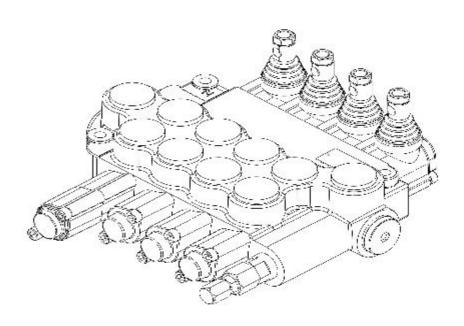
HYDRAULIC DIRECTIONAL CONTROL VALVES РАСПРЕДЕЛИТЕЛИ ГИДРАВЛИЧЕСКИЕ



Description

Назначение и область применения

For starting, controlling and stopping the working fluid between the generator of pressured flow, the consumers at the Tank.Предназначен для изменения направления потока, ограничения давления рабочей жидкости гидролиниях, разгрузки насоса в нейтральной позиции золотников.

Specifications

Основные показатели:

4	T 7 1	1 1	
- 1	Valve	monob	Inck

Конструктивное выполнение

2. Mounting

Крепление

3. Pressure connections

Присоединительние отверстия

4. Ambient temperature

Температура воздуха

5.Pressure medium

Рабочая жидкость

6. Viskosity

Кинематическая вязкость

7.Fluid temperature

8.Filtration

9. Max. operating pressure

Давление max. bar

10.Leakage

Внутренние потери (А, В – Т)

11.Nominal flow

Разход рабочей жидкости

12.Spool stroke

Ход золотника

13. Actuating force

моноблок 3 bolts M8

internal thread внутренние резби

-40C...+60C

mineral oil based hydraulic oil

12...800 mm²/s permissible range

20...100 mm²/s recommended range

- 15C...+80C

Oil contamination 10 to NAS1638

P = 250 bar

T = 50 bar

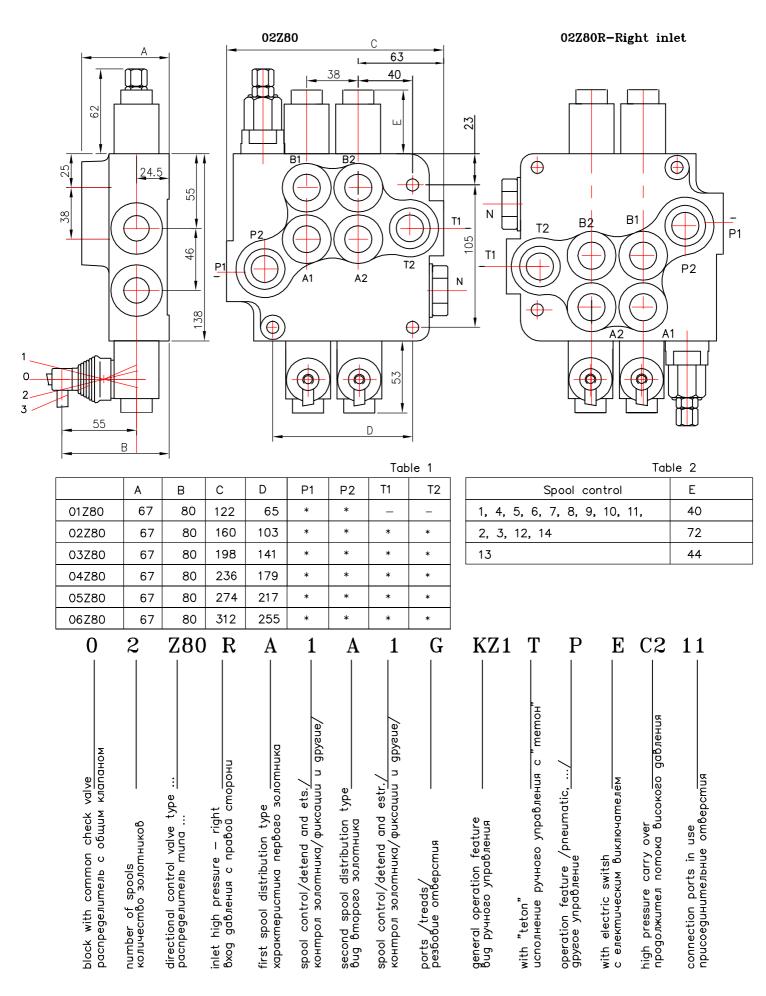
A, B = 300 bar

18 cm³/min at 120 bar

80 l/min (see "operating" diagram)

 \pm 7 mm

< 220 N in spool axis direction



way of distribution — parallel; распределение — паралелное

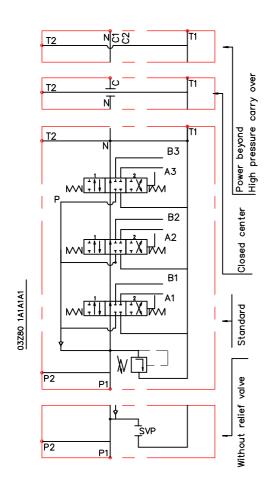
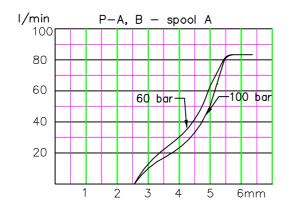


	Table 3
code	spool type
Α	
В	1:11:::::/
С	[;1; 1;; 1;
D	;;;;;;X
E	:11115 :X
F	[;;;;;;X]
G	1;1;7;
Η	[;1;1;\
М	[1] [1] [X]
Z	********
0	1111111
Р	:::::X
Q	[;;;;;X]
R	[;1];;;X
S	11111
Т	-1
L	1 nbg 2 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

		Tuble +
code	spool	control
1	1 0 2 	1 0 2
2	1 0 2 → WM	102
3	1 0 2 	1 0 2
4	0 2 WM	0 2
5	1 0 	1 0
6	1 2 \\\\\\\	1 2
7	1 2 *********	1 2
8	1 0 2	102
9	1 0 ~ ~	10
10	0 2 ~ ~	0 2
11	$\frac{1}{\mathbf{v}} - \frac{2}{\mathbf{v}}$	1 2
12	1 0 2 3 W W ~	1 0 2 3
13	1 0 2 3 ~ ~ ~ ~	1023

Table 4



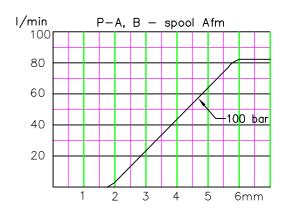
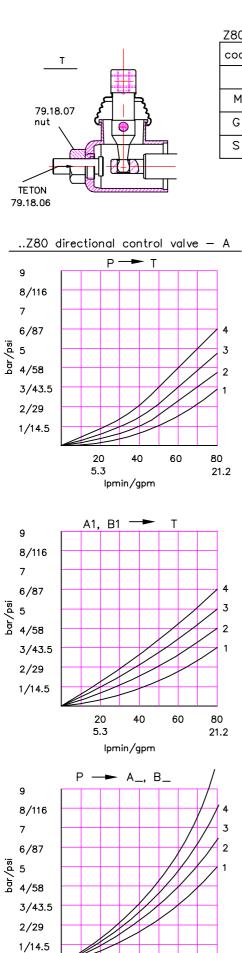


Tabla E	code	с микро шалп	nep ; incorporated	microswitch
Table 5	E	n b o	mikroswitch type Omron-V 165 I C5	

Table 6	code	gpyгое ynpaвление ; operation feature					
Tuble 0	Ф	n b a	пневматическое				
	'		on—off pneumatic contol; 5—10 bar ; ports NPTF 1/8—27				
	I	n b a	гидравлическое				
	· · • • • · · · · · · · · · · · · ·		on-off hydraulic control ; pn = $5 - 20$ bar ; ports $G1/4$				



40

Ipmin/gpm

60

80

21.2

						_				
Z80									Tat	ole 7
code			ports (th	reads); npucoe	guнum	ельни	е о	mßepcm	ия
		Р	A ; B		T		N		C	2
М	М2	2x1.5	M22x1.5	м	26x1.5	M26x	1.5		M26x1.	5
G	G1	/2	G1/2	G	3/4	G3/4			G3/4	
S	7/8	3–14UNF	7/8-14UN	F 1	1 1/16-14UNF		1 1/16-14UNF		1 1/16-	14UNF
	kir	nd of han	d control ;	Bug py	чного управ.	ления			Tab	ole 10
c	ode	ескиз featur	е	code	ескиз feature		code		скиз eature	
_A		<u>↓</u> —•	— — M10			ø9			<u> </u>	<u>₩</u>

	kir	kind of hand control ; вид ручного управления Тable 10					
	code	ескиз feature	code	ескиз feature	code	ескиз feature	
_	KZ	M10	KY.	ø9 • • • • • • • • • • • • • • • • • • •	KI	6	
	KZ1	155	KY1	170	KI1	170	
	KZ0		KYO		KIO		
	KZ01		KY01		KI01		
	_	without hand cor	ntrol ;	без ричажная с	ucme	иа управления	
	Toble 11						

code	вид продължение на geбита	
С	omвор "N" затворен closed center	ED
C2	omвор "N" продължава за следващ консуматор part for power beyond sleeve(carry over)	
_	omвор "N" е свързан с "T" without part for pressure carry over	-1
Х	omвop "N" e винаги свързан с "T" power beyond ever to tank	

Toble 12

code used connection ports; присоединительние отверстия

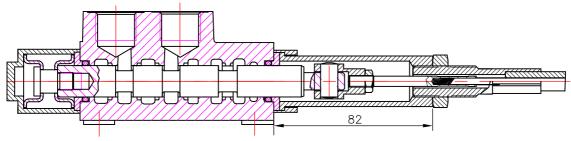
11 P1; T1

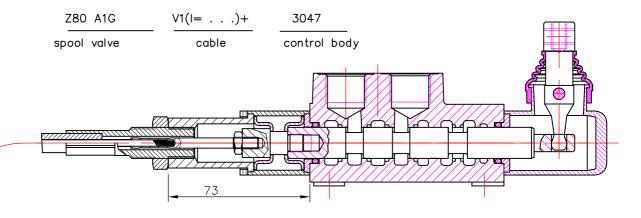
12 P1; T2

21 P2; T1

22 P2; T2







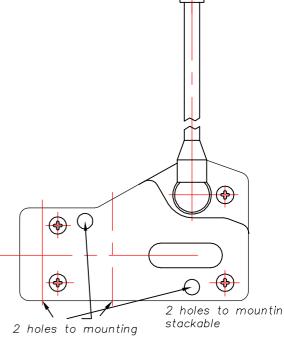
Z80 A1G V2KZ1(I= . . .)+ 3047
spool valve cable control body

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		

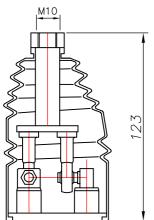
High solidity controls for easy mounting on every type of distributor. They can by mounted stand alone or packed together.

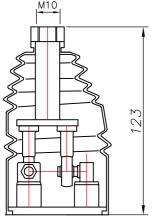
They use push—pull heavy duty cables that provide a positive smooth operating lever and are manifactured in a three differents models to meet different needs of Clients.

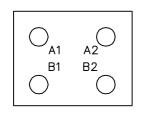


JOYSTICK "+"

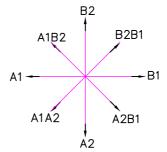
This control gives the possibility to operate, at the same time two spools with a"+"movement.



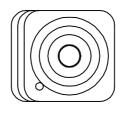


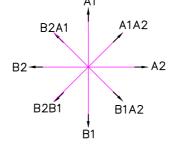




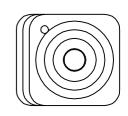


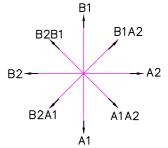






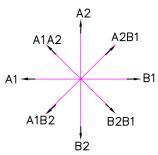
standard version 2

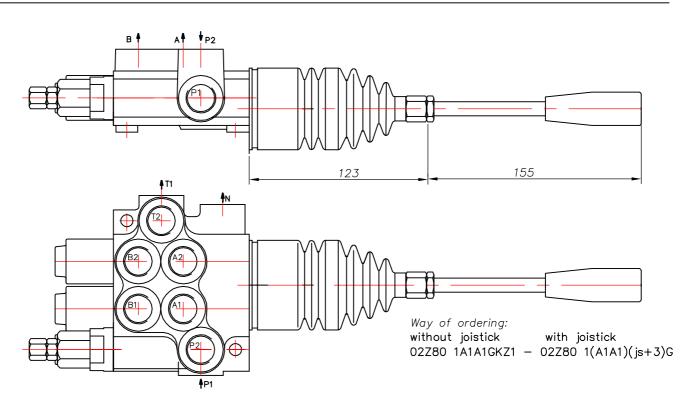




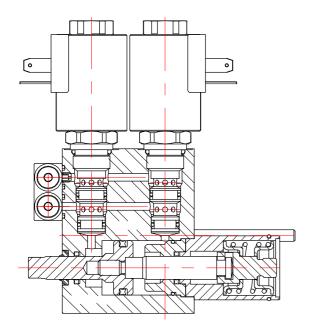
standard version 4



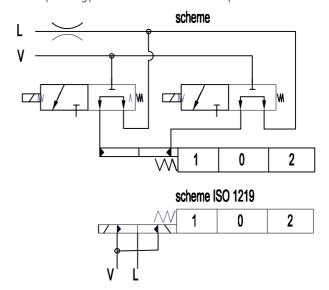




ED3 — electro-hydraulic control ON-OFF Електрогидравлический контрол ON-OFF



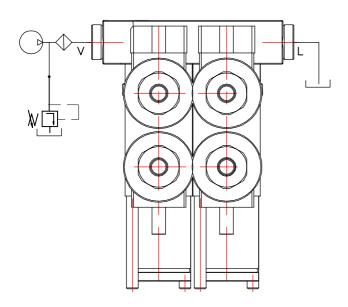
Ordering codes 3-way solenoid valve-SV08-33 coil P40ED3-G-12VDC coil P40ED3-G-24VDC



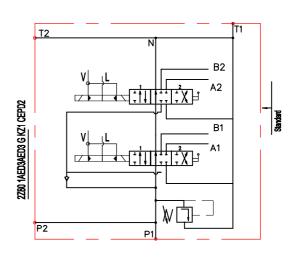
Operating pressure min 10 bar(145 psi) max 50 bar(725 psi) Max operating pressure in L (T line) 25 bar(360 psi)

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

Collector kit for external pilot and drain — CEED...(1,2,3 ...) Коллектор для внешнего питания управления и слив



Ordering example
02Z80 1A1ED3A1ED3 G KZ1-CEED2-12VDC

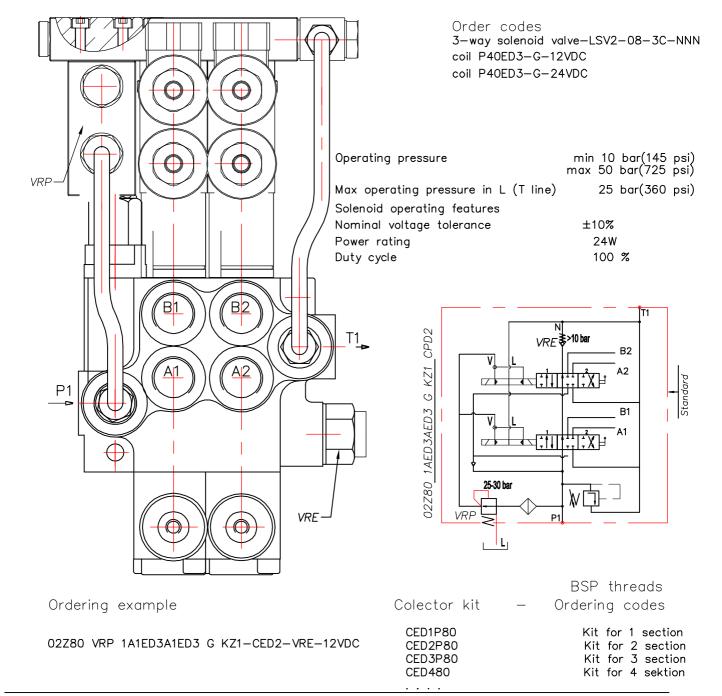


Ordering codes (BSP threads)

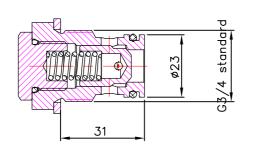
CEED1P80 Kit for 1 section
CEED2P80 Kit for 2 section
CEED3P80 Kit for 3 section
CEED480 Kit for 4 sektion

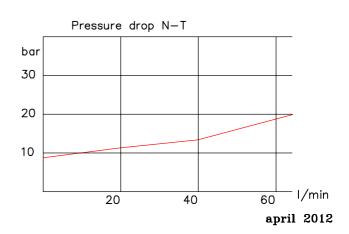
. . . .

ED3 — electro-hydraulic control ON-OFF Електрогидравлический контрол ON-OFF

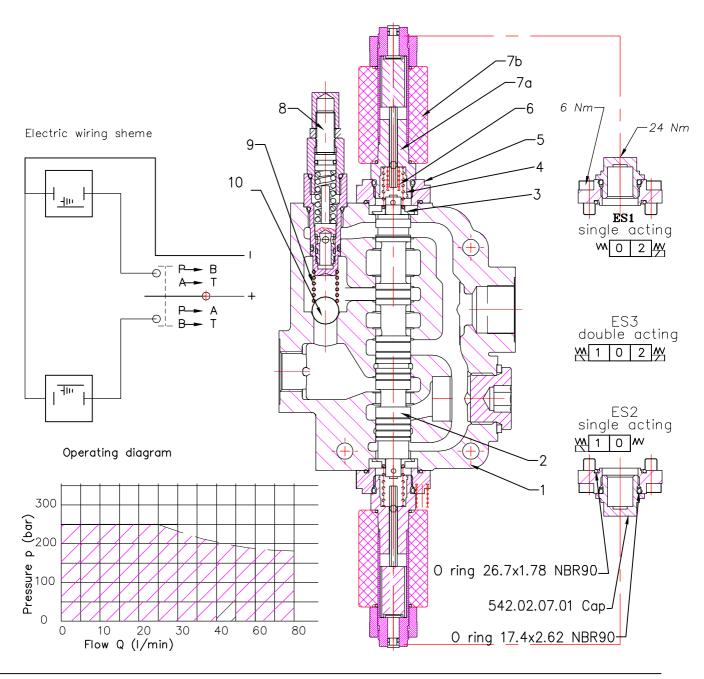


Back pressure valve VRE-P80 Клапан подпора





ES ... SOLENOID DIRECT CONTROL



Operating features Технические примечания

Control

Internal leakage $A(B) \rightarrow T$

(p=120 bar, Viscosity=32 mm 2 /s : max 40 ccm/min) Fluid temperature -20° C(short time) ... 80° C

Max. back pressure on outlet port T-25 bar (360psi)

Nominal voltage tolerance $\pm 10\%$ Coil insulance . . Duty cicle Connector ISO 4400 Imergency manual override

pos.	Part.No	Description	Quantity
10		Ball 14.28	1
9	123.00.47	Spring	1
8	79.04.00	Relief valve	1
7b	C35D012RC P01	Solenoid coil	2
7a	GM4060/BD	Solenoid Tube	2
6	542.02.00.07	Additional spring	2
5	511.02.02.00	Intermediate unit	2
4	542.02.00.04	Spring	2
3	511.02.00.02	Washer	2
2		Spool	1
1		Body	1
	•		•

ES ... SOLENOID DIRECT CONTROL

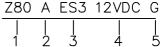
Solenoid direct control with spring return to neutral position. Needs special spools and special body Z80.

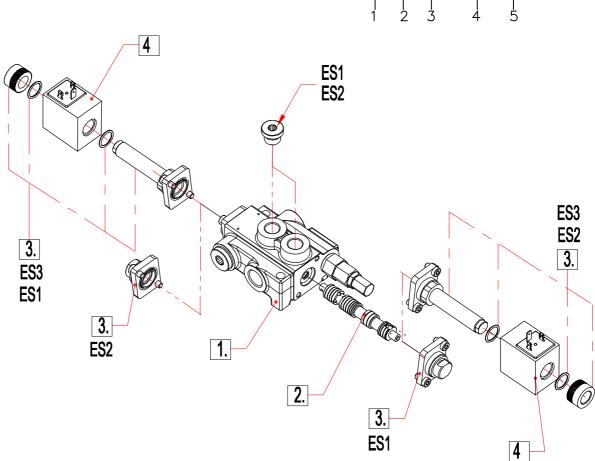
with A and B closed in neutral position

D Double acting, 3 positions

with A and B open to Tank in neutral position

ORDERING EXAMPLE





1.Body kit		3.Contro	ol kit
Type 01Z80	Description 1 spool	Туре	Description
02Z80 03Z80	2 spool 3 spool 4 spool 5 spool 6 spool	ES1	Single acting P — A with spring return in neutral position
04Z80 05Z80 06Z80		ES2	Single acting P — B with spring return in neutral position
		ES3	Double acting P — A (B) with spring return in neutral position
2.Spool options		4.Coils	
Type A with A and B	Description Double acting, 3 positions closed in neutral position	Type (with conr 12VDC	Description nector ISO 4400) Nominal voltage 12VDC

24VDC

G

5.Threads

10 / 10 april 2012

Nominal voltage 12VDC Nominal voltage 24VDC

P, A, B - G1/2; T - G3/4