

Edition 10/2020



Contents For us, quality comes first

For us, quality comes first. Our Hydraulic multiway valve have earned a legendary reputation in terms of reliability, robustness and precision.

Our excellent design and technical expertise plays a key part in this regard.

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 1

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R&D

20 years professional experience

Manufacture

made in Germany

Qulity

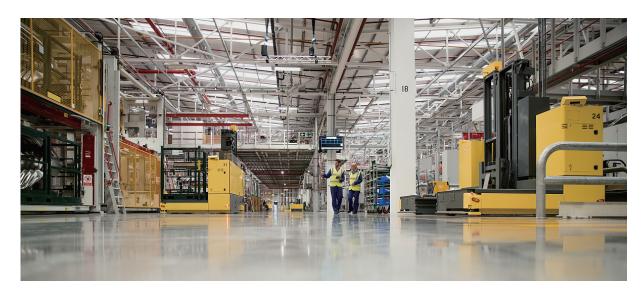
Providing Reliable safe solutions

Service

Meet the customized needs

Company

IHE Deutschland GmbH was founded in 2016 in Langenhagen, Hanover, Germany. It focuses on the working conditions of various construction machinery and provides professional solutions for various types of machinery according to their characteristics.



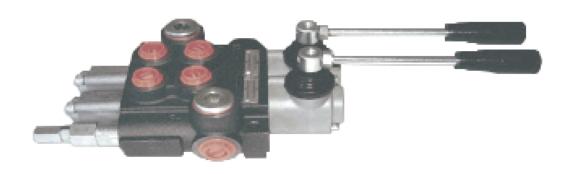
Vision

Integrate global high-quality industry chain resources

Provide reliable and safe construction machinery solutions



P35 series



Description

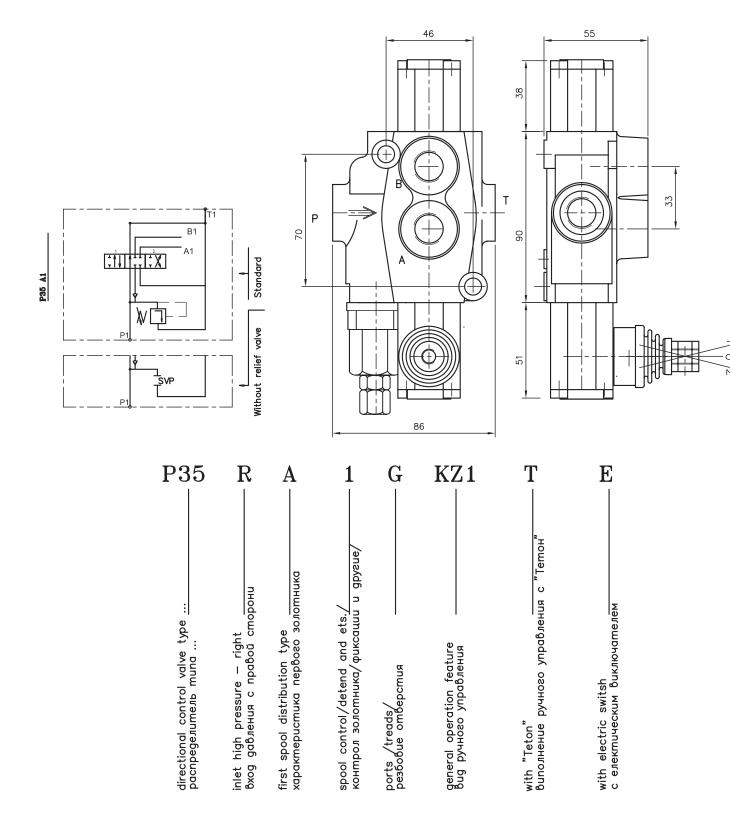
For starting, controlling and stopping the working fluid between the generator of pressure flow, the consumers and the Tank.

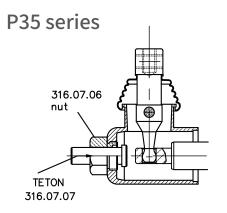
Specifications:

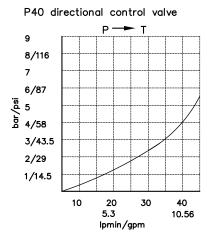
Valve monoblock	
	P=250 bar
Max operating pressure:	T=50 bar
	A, B=300 bar
Norminal flow:	35 l/min (see operating diagram)

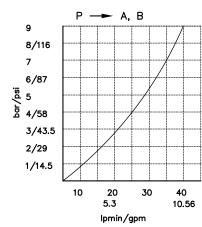
Monoblock Directional Valve

P35 series









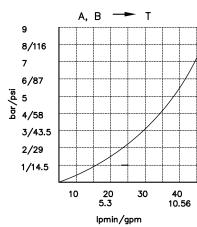


Table	5
code	spool type
Α	
В	[1;1[1;1];7]
С	
D	(X:14111;X)
E	:111151:X
F	[;;;;;;X]
М	[;;;;;X]
N	[;;];;;;
0	
Р	[;;;;;X]
Q	[;;;;X]
R	

		Table 6
code		control
1	1 0 2	1 0 2
2	1 0 2 V W	1 0 2
3	1 0 2 	1 0 2
4	0 2 ₩₩	0 2
5	1 0 	1 0
6	1 2 	1 2
7	1 2	1 2
8	102	102
9	1 0	1 0
10	0 2 ~ ~	0 2
11	1 2 v	1 2
		Table 7

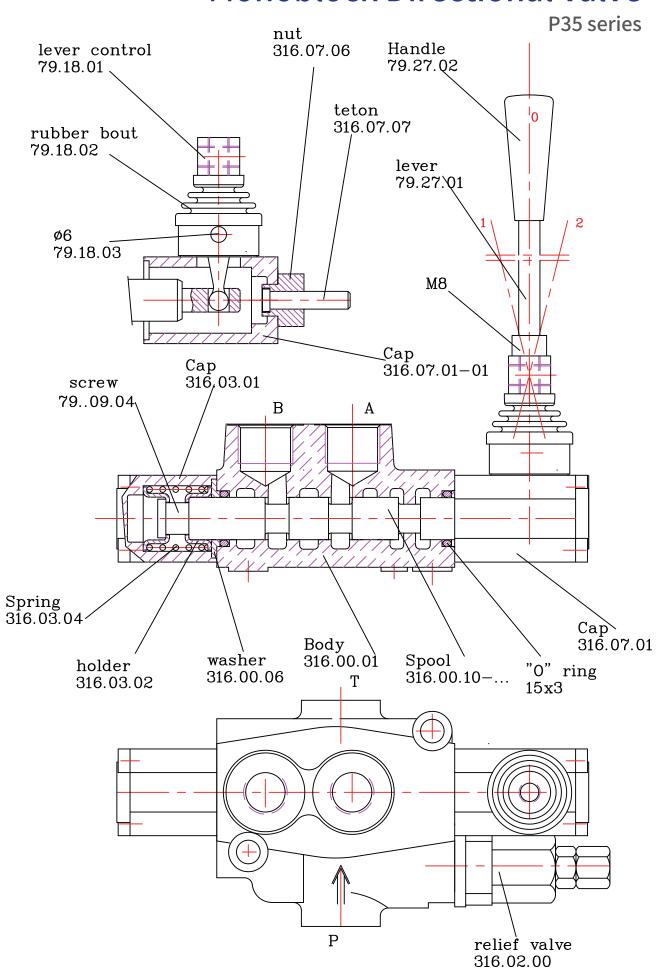
mikroswitch type

E	1 2	☐ Omron-V	165 I C5
code	ports (treads) ;	присоединительн	ие отверстия
	Р	A ; B	Т
М	M18x1.5	M18x1.5	M18x1.5
G	G3/8	G3/8	G3/8
S	3/4-16UNF	3/4-16UNF	3/4-16UNF

с микро шалтер; incorporated microswitch

kind	of hand control;	Bug p			
code	ескиз feature	code	ескиз feature	code	ескиз feature
ΚZ	NA MA	KY	ø9	KI	68
KZ1	155	KY1	170	KI1	170
KZ0		KY0		KIO	
KZ01		KY01		KI01	
without hand control ; без рукоятки управления					

Monoblock Directional Valve



ΛE

Monoblock Directional Valve

P40 series



Description

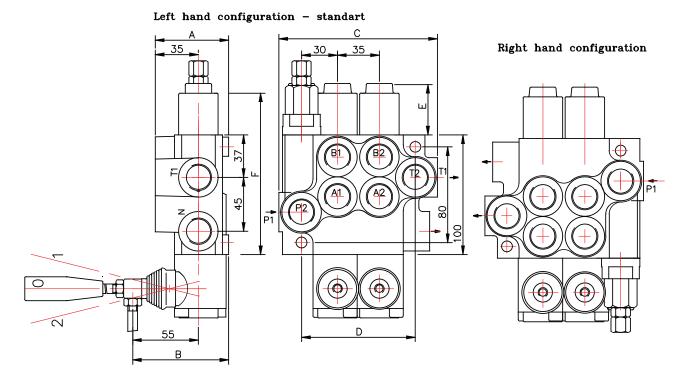
For starting, controlling and stopping the working fluid between the generator of pressure flow, the consumers and the Tank.

Specifications:

Specifications:	
Valve monoblock	
Mounting	2 bolts M8
Pressure connections	internal thread
Ambient temperature	-40C-+60C
Pressure medium	mineral oil based hydraulic oil
Viskosity	12-800mm²/s per missible range
	20-100mm ² /s recommended range
Fluid temperature	-15C-+80C
Filtration	Oil contamination 10 to NAS1638
Max. operating pressure	P=250bar
	T=50 bar
	A,B=300bar
internal(46mm²/s)leakage	7 em³/min at 100 bar
Norminal flow	401/min (see operating diagram)
Spool stroke	±6mm
Actuating force	<200N in spool axis direction

Monoblock Directional Valve

P40 series

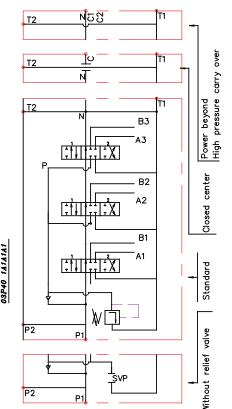


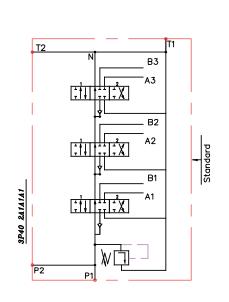
						la	ole 1	
	Α	В	C	D	P1	P2	T1	T2
P40	60	80	85	60	+	ı	+	_
02P40	60	80	129	97	+	+	+	+
03P40	60	80	164	132	+	+	+	+
04P40	60	80	199	167	+	+	+	+
05P40	60	80	234	202	+	+	+	+
06P40	60	80	269	237	+	+	+	+
07P40	60	80	304	272	+	+	+	+
2P40	60	80	129	97	+	+	+	+
3P40	60	80	164	132	+	+	+	+
4P40	60	80	199	167	+	+	+	+

Ia	ble 2	<u>'</u>	
spool control	Ε	F	
1; 4; 5; 6; 7; 8; 9; 10; 11;	40	193	
2; 3;	72	225	
16	+	+	

)
number of spools	2
directional control valve type	P40
relief valve; — standard setting 175 bar; (svp) relief valve blanking plug; (4) Spring for 160 to 315 bar; standard setting 220 bar;	$^{\circ}$ R
way of distribution/pardiel or/ first spool distribution type	1 A
spool control/detend and ets./	1
second spool distribution type	A
spool control/detend and estr <u>./</u>	1
ports /treads/	G
general operation feature	KZ.
with "teton"	1 T
operation feature /pneumatic <u>,/</u>	H
with electric switsh	E
high pressure carry over	C2
connection ports in use	11

P40 series





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

Table 5

	19010 0
code	spool type
Α	1 nba 2 1 1 1 1 1 1 1 X
В	1:11::::7
С	[;1;1;:1,\]
D	;;;;;;X
E	:11115 : X
F	<u> </u>
G	1:1:7
Н	[;1;1;\]
М	;11,1;;; X
N	11 111 11/
0	
Р	;111;41;X
Q	X; 7; 11;
R	[;1][;X]
S	::1:7
Т	111111
K	3 1 n b 2 2
	A B C D E F G H M N O P Q R S T

only for left hand configuration

only for right hand configuration

	Table 4
code	way of distribution
1	parallel;
2	tandem(series parallel)

		Table 6
code	spool	control
1	1 0 2	1 0 2
2	1 0 2 √ ₩	1 0 2
3	1 0 2 W v	1 0 2
4	0 2 WM	0 2
5	1 0	1 0
6	1	1 2
7	1 2	1 2
8	102	102
9	1 0	10
10	0 2 V V	0 2
11	1 2 v — v	1 2

*	15	3 1 0 2 v v v v 3 1 0 2
*	16	3 1 0 2 V-WW WM 3 1 0 2

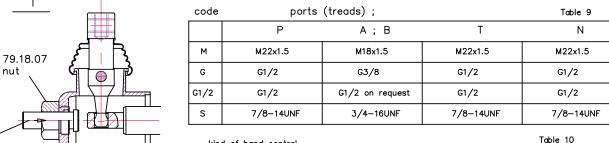
- only for left hand configuration 1 0 2 3 V V V V 1 0 2 3
- only for right hand configuration

only for	right hand configuration		Table 7
code		incorporated micros	witch
E	, nb.	mikroswitch type Omron–V 165 I C5	
			Table 8

		1.00.0
code		operation feature
Т	n b a	on-off pneumatic contol; 5-10 bar ; ports NPTF 1/8-27
I	n b a	on-off hydraulic control; pn = $5 - 20$ bar; ports $G1/4$

Monoblock Directional Valve

P40 series



TETON 79.18.06

6/87 par/bsi 4/58

> 3/43.5 2/29

8/116

6/87

par/bsi 5 4/58

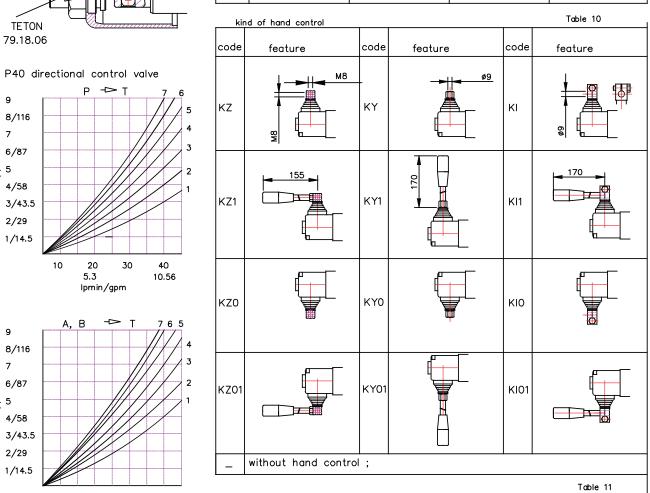
3/43.5 2/29

30

Ipmin/gpm

20

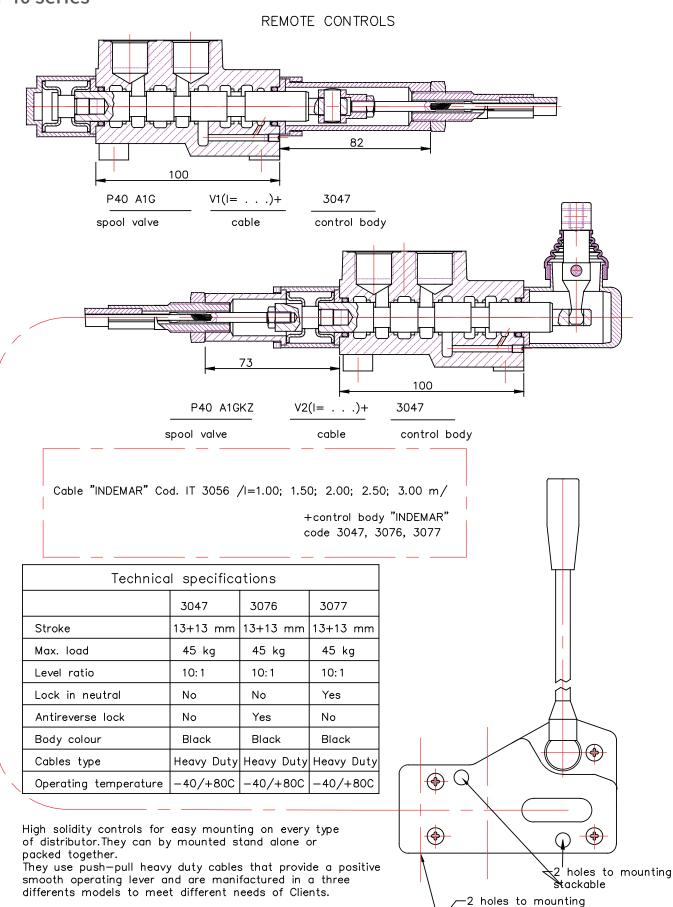
30



	5.3	10.56	code	outlets	
	lpmin/gpm		С	closed center	
	P - → A, B	7 6	C1	part for power beyond sleeve(carry over)	
/116		5	C2	part for power beyond sleeve(carry over)	
-		4	_	without part for pressure carry over	
/87		3	Х	power beyond ever to tank	
/58		1			Table 1
/43.5			code	used connection ports;	
/29			11	P1 · T1	

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

P40 series

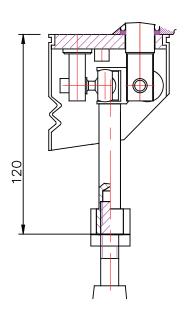


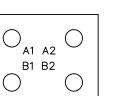
Monoblock Directional Valve

P40 series

JOYSTICK "+"

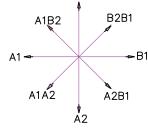
This control gives the possibility to operate, at the same time two spools with a"+"movement.



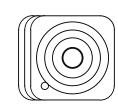


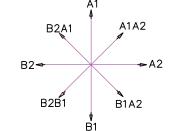
B2

standard version 1

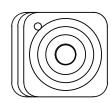


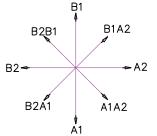
standard version 3



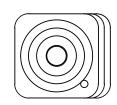


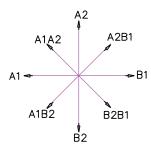
standard version 2

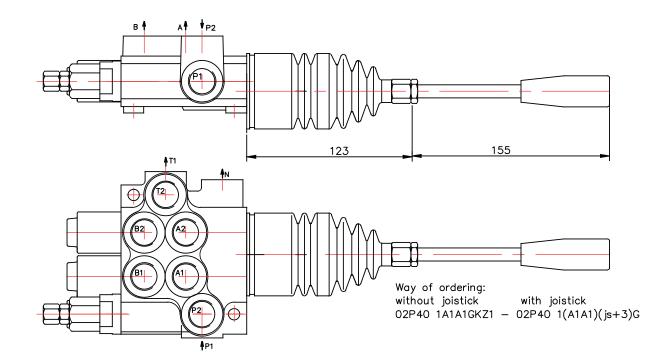




standard version 4

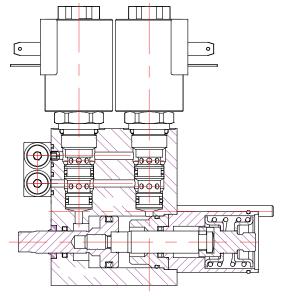




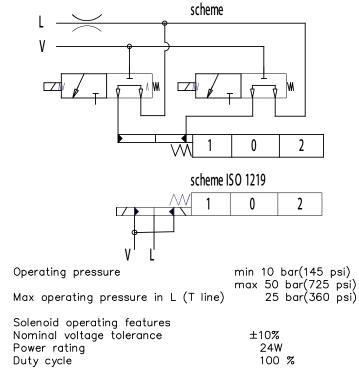


P40 series

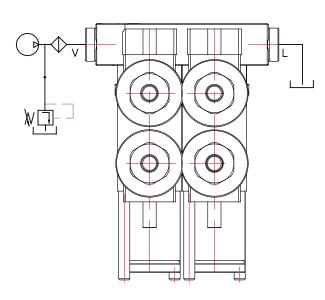
ED3 - electro-hydraulic control ON-OFF



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

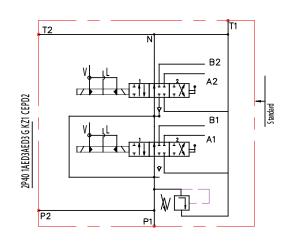


Collector kit for external pilot and drain - CEED...(1,2,3 ...)



Ordering example

2P40-1A1ED3A1ED3 G KZ1-CEED2-12VDC



Ordering codes (BSP threads)

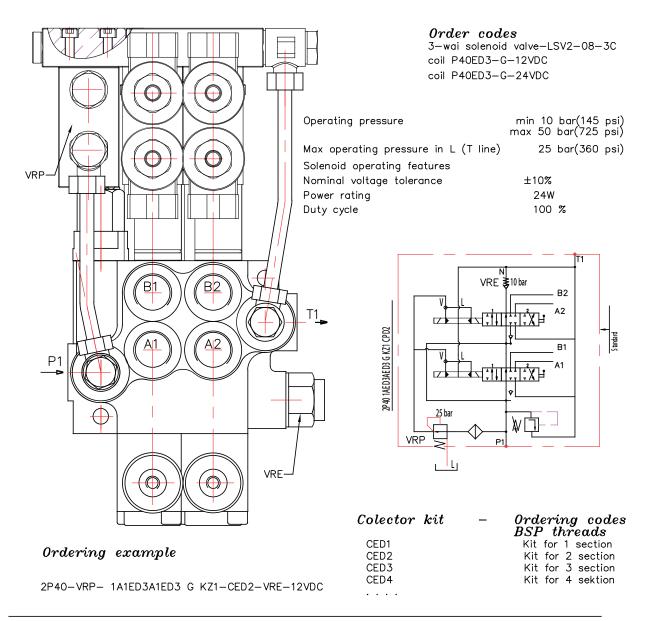
CEED1P40	Kit for 1 section
CEED2P40	Kit for 2 section
CEED3P40	Kit for 3 section
CEED4P40	Kit for 4 sektion

Monoblock Directional Valve

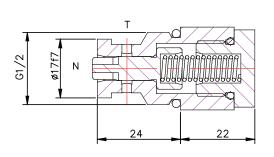
P40 series

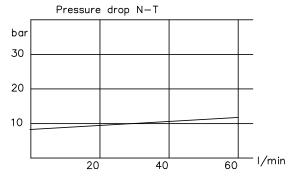
12

ED3 — electro-hydraulic control ON-OFF



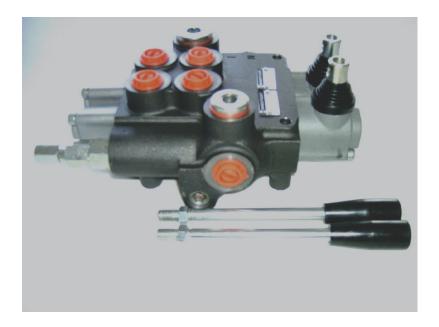
Back pressure valve VRE-P40





14

P80 series



Description

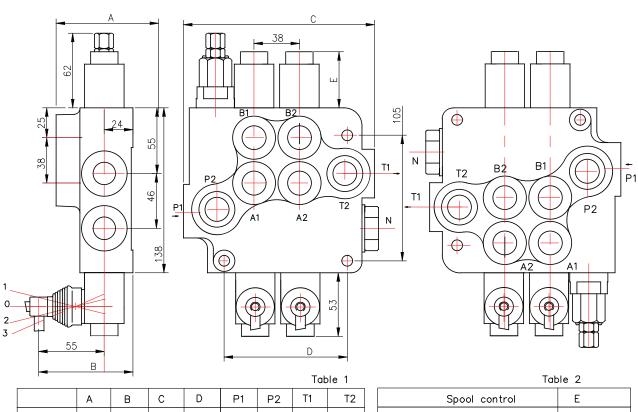
For starting, controlling and stopping the working fluid between the generator of pressure flow, the consumers and the Tank.

Specifications:

specifications.	
Valve monoblock	
Mounting	3 bolts M8
Pressure connections	internal thread
Ambient temperature	-40C-+60C
Pressure medium	mineral oil based hydraulic oil
Viskosity	12-800mm²/s per missible range
	20-100mm ² /s recommended range
Fluid temperature	-15C-+80C
Filtration	Oil contamination 10 to NAS1638
Max. operating pressure	P=250bar
	T=50 bar
	A,B=300bar
internal(46mm²/s)leakage	8 cm³/min at 100 bar
Norminal flow	801/min (see operating diagram)
Spool stroke	±7mm
Actuating force	<220N in spool axis direction

Monoblock Directional Valve

P80 series



							TUL	10 1
	Α	В	С	D	P1	P2	T1	T2
P80	65	79	107	65	*	*	_	_
2P80	80	94	160	103	*	*	*	*
3P80	80	94	198	141	*	*	*	*
4P80	80	94	236	179	*	*	*	*
5P80	80	94	274	217	*	*	*	*
6P80	80	94	312	255	*	*	*	*

10	ble Z
Spool control	E
1, 4, 5, 6, 7, 8, 9, 10, 11,	40
2, 3, 12, 14	72
13	44

16

P80 series

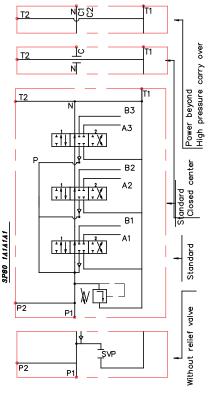


Table 3				Table 4
code	Number of spools	code	way of distribution	
	1	1	parallel	
2	2	2	tandem(series parallel)	
3	3			

code	spool type
А	1 n b c 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
В	1:111:1:7
С	[11] [11]
D	[;11]1;1;X]
Е	:111151:X
F	[;1][1;][;X]
G	1:11:%]
Н	[;1;1;\]
М	:111::::X
N	111111111
0	1111111
Р	[;]][;;][X]
Q	[;];;;X]
R	[:11 :: :X]
S	1:11:7
Т	
L	- 1 1 1 1 2 1 3 1 H

Table 5

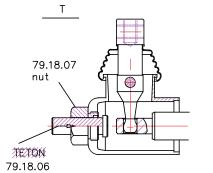
		Table 6
code	spool (control
1	1 0 2	1 0 2
2	1 0 2 √ ₩	102
3	1 0 2 ₩√ √	1 0 2
4	0 2 //// 1	0 2
5	1 0	1 0
6	1 2 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	1 2
7	1 2	1 2
8	102	1 0 2
9	1 0	1 0
10	0 2 ~ ~	0 2
11	1 2 	1 2
12	1 0 2 3	1 0 2 3
13	1 0 2 3	1023

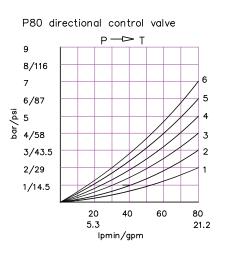
			Table 7
code		incorporated microswitch	
E	1 2	mikroswitch type Omron—V 165 I C5	

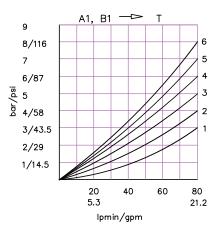
		Table 8
code		operation feature
Р	1 2 1 2	on-off pneumatic contol; 5-10 bar ; ports G1/4
Н	n b a	on-off hydraulic control ; pn = 5 - 20 bar ; ports G1/4

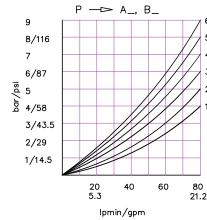
Monoblock Directional Valve

P80 series









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		

kin	nd of hand control ;				Table 10
code	feature	code	feature	code	feature
KZ	M10	KY	\$9	KI	000
KZ1	155	KY1	170	KI1	170
KZ0		KY0		KIO	
KZ01		KY01		KI01	
	without hand contro	ol O			

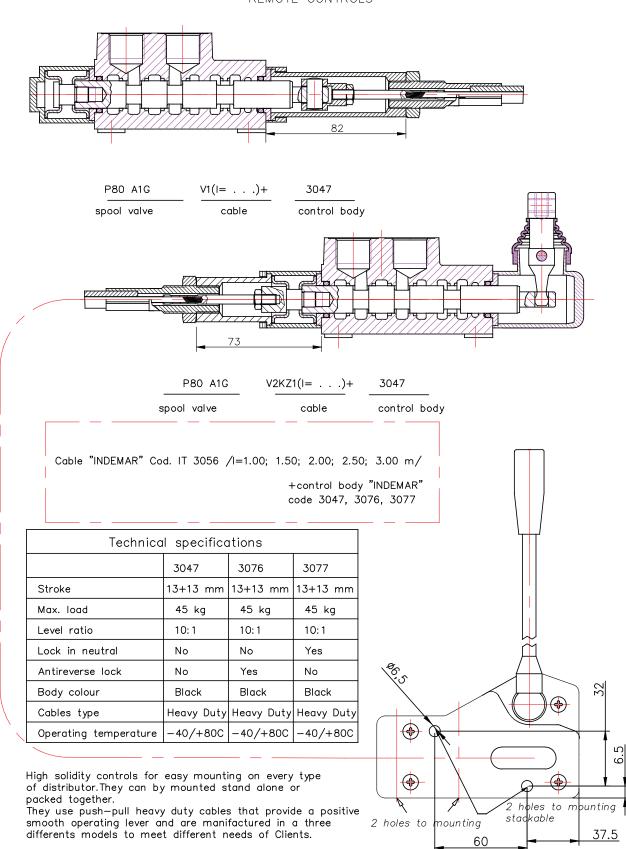
		Table 11
code		
С	outlets closed center	± 0[
C2	part for power beyond sleeve(carry over)	G 1/2 M22xl.5
_	without part for pressure carry over	-11
Х	power beyond ever to tank	

used connection ports
P1 ; T1
P1 ; T2
P2 ; T1
P2 ; T2

Table 12

P80 series

REMOTE CONTROLS

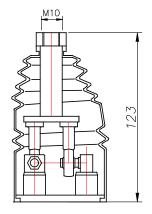


Monoblock Directional Valve

P80 series

JOYSTICK "+"

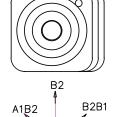
This control gives the possibility to operate, at the same time two spools with a"+"movement.

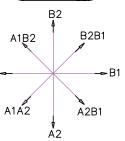


 $\bigcirc_{A1\ A2}$

B1 B2

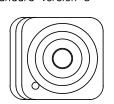
standard version 1

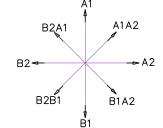




standard version 3

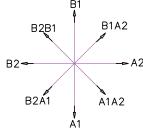
A1 →



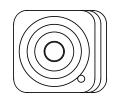


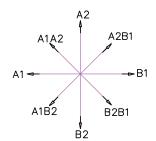
standard version 2

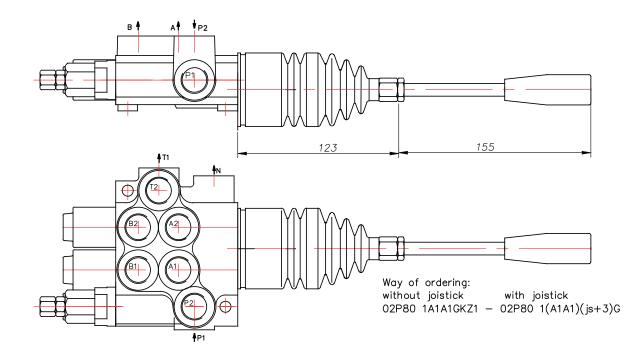




standard version 4

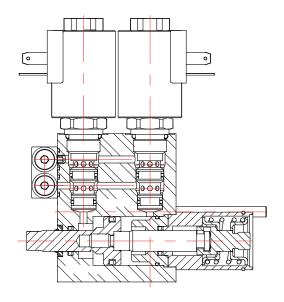


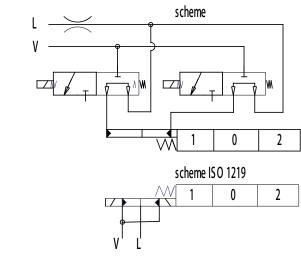




P80 series

ED3 - electro-hydraulic control ON-OFF





Operating pressure

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

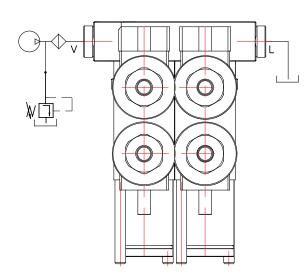
Ordering codes 3-wai solenoid valve-SV08-33 coil P80ED3-G-12VDC

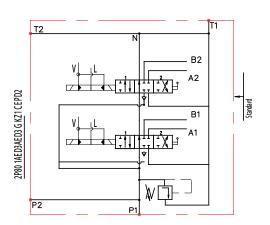
coil P80ED3-G-24VDC

Solenoid operating features Nominal voltage tolerance Power rating Duty cycle

±10% 24W 100 %

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





Ordering example

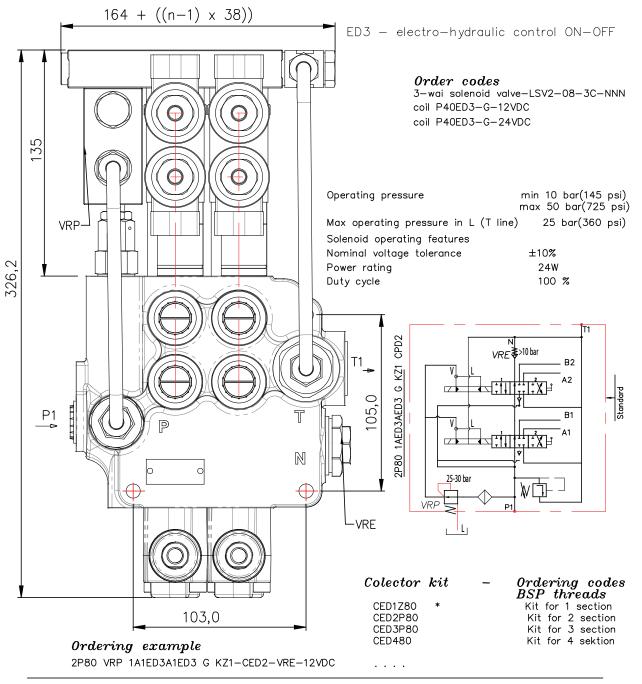
2P80 1A1ED3A1ED3 G KZ1-CEED2-12VDC

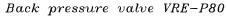
Ordering codes (BSP threads)	
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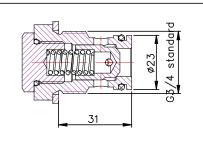
FFD1P80	Kit	for	1	section
EED2P80				section
EED3P80	Kit	for	3	section
EED480	Kit	for	4	sektion

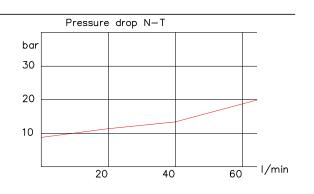
Monoblock Directional Valve

P80 series









P120 series



Description

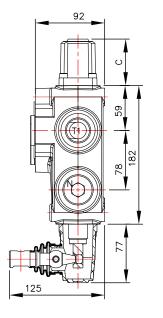
For starting, controlling and stopping the working fluid between the generator of pressure flow, the consumers and the Tank.

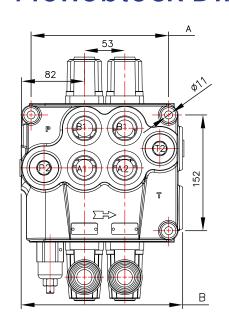
Specifications:

openieurono.	
Valve monoblock	
Mounting	3 bolts M10
Pressure connections	internal thread
Ambient temperature	-40C-+60C
Pressure medium	mineral oil based hydraulic oil
Viskosity	12-800mm²/s per missible range
	20-100mm ² /s recommended range
Fluid temperature	-15C-+80C
Filtration	Oil contamination 10 to NAS1638
Max. operating pressure	P=250bar
	T=50 bar
	A,B=300bar
internal(46mm²/s)leakage	30 cm ³ /min at 120 bar
Norminal flow	120 1/min (see operating diagram)
Spool stroke	\pm 10 mm, L12= \pm 10mm + 6mm
Actuating force	<300 N in spool axis direction

Monoblock Directional Valve

P120 series





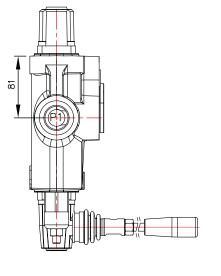
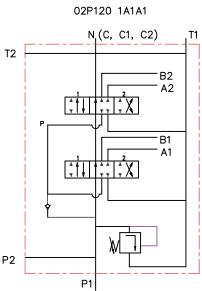


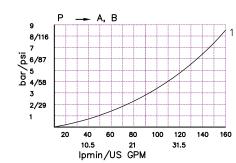
	Table					ole 1	
	Α	В		P1	P2	T1	T2
P120	129	160		+	+	+	+
02P120	182	213		+	+	+	+
03P120	235	266		+	+	+	+
04P120	288	319		+	+	+	+

Tal	ole 2
spool control фиксации золотника	С
1; 2, 3, 4; 5; 6; 7; 8; 9; 10; 11;	64
12	74

P120 series



	P -	- ⊺	,					
9 8/116 7 6/87 5 4/58 3 2/29								1
	20	40 10.5	60	80 21	100	120 31.5	140	160
			n/US	GPM				



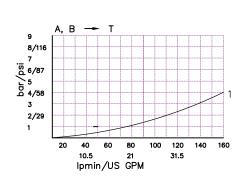


Table 3				
ode	Number of spools			
⊃120	1			
2P120	2			

	Table 5
code	spool type
Α	1 n b a 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
В	1:11:1:/.
С	
D	\$1111\$X
Ε	\$11115 \$X
F	[;1][1;1];X
G	1,1,7
Ι	
М	-11 X
N	11 11 11 11
0	111 111 111
Р	[;]]];;;X]
Q	[;] ;;; ;X
R	[;]];;;];X
S	11111
Т	

	Table 4
code	way of distribution
	распределение потока
1	parallel ; паралельное

		Table 6
code	spool o	control
1	1 0 2	1 0 2
2	1 0 2 WH	1 0 2
3	1 0 2	1 0 2
4	0 2 ₩₩	0 2
5	1 0	1 0
6	1 2 	1 2
7	1 2	1 2
8	1 0 2	1 0 2
9	1 0	1 0
10	0 2	0 2
11	1 2	1 2
	•	•

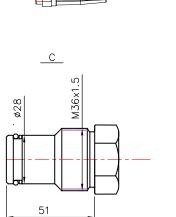
			Toble 7
code		incorporated microsw	itch
E	1 2	mikroswitch type Omron-V 165 I C5	
			Table 8

code		operation feature
Р	n b a	on-off pneumatic contol; 5-10 bar ; ports NPTF 1/8-27
	1 2	on-off hydraulic control ; pn = 5 - 20 bar ; ports G1/4

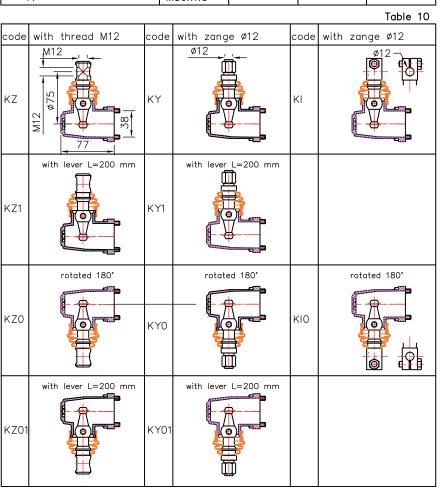
Monoblock Directional Valve

P120 series

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



Teton (T)



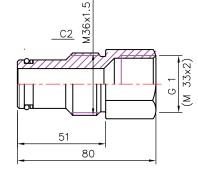
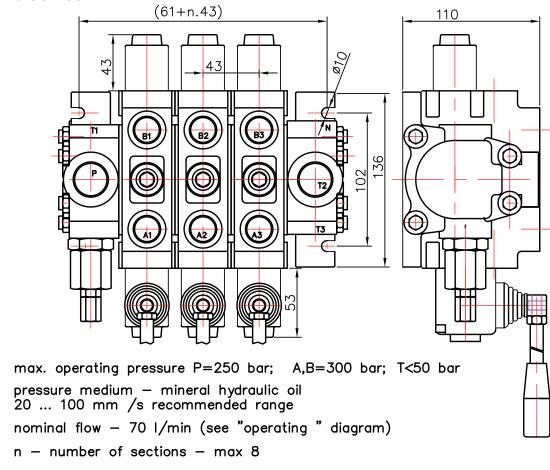


		Table 11
code	metric	
Х	without port N	
_	with port N, closed	
С	with port N and plug C — closed center	
C1	port N — carry over for EO	
C2	port N — carry over, internal thread	
		Table 12

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

Stackable/Sectional Directional Valve

PC70 series

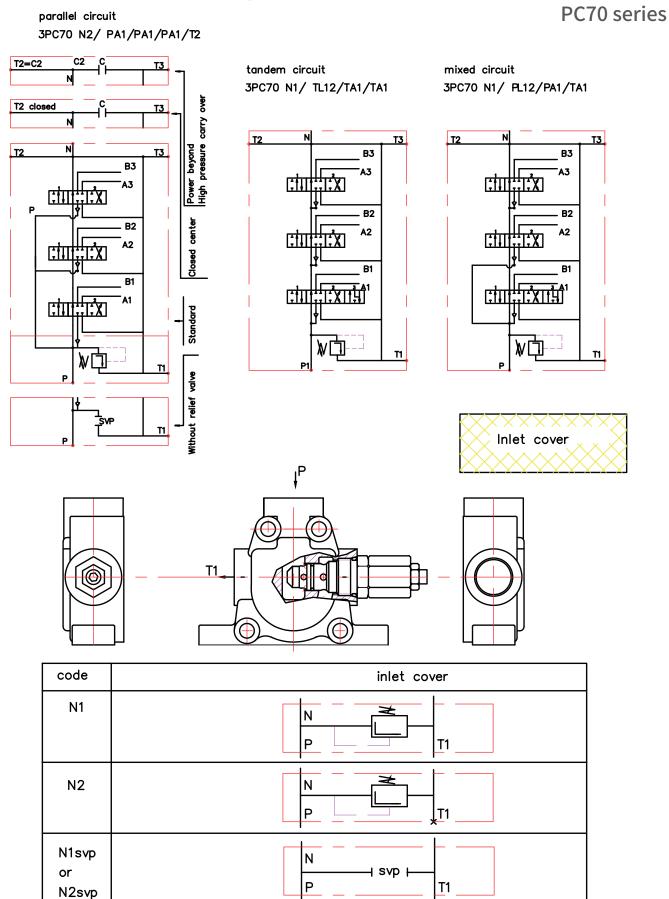


Order code

number of spools	3
directional control valve	PC7
inlet high pressure — right	70 R
type of the inlet cover	: N
first spool distribution type	2/PA
second spool distribution type	1/PA8/
tird spool distribution	AyBz/PD
type of the outlet cover (T port))1/T2
threads (P, A, B, T, N)	: /G
lever options	K Z
operation feature	1 1 P
with microswitsh	' E
high pressure carry over	C2

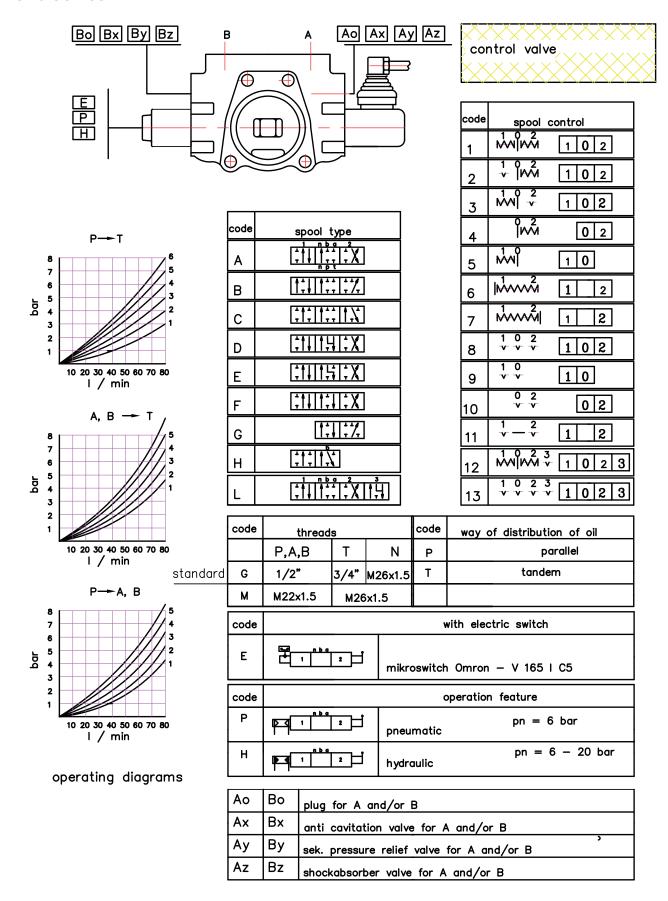
^{*} All detend in operating positions, provided with hydraulic control, have to be ordered explanative.

Stackable/Sectional Directional Valve



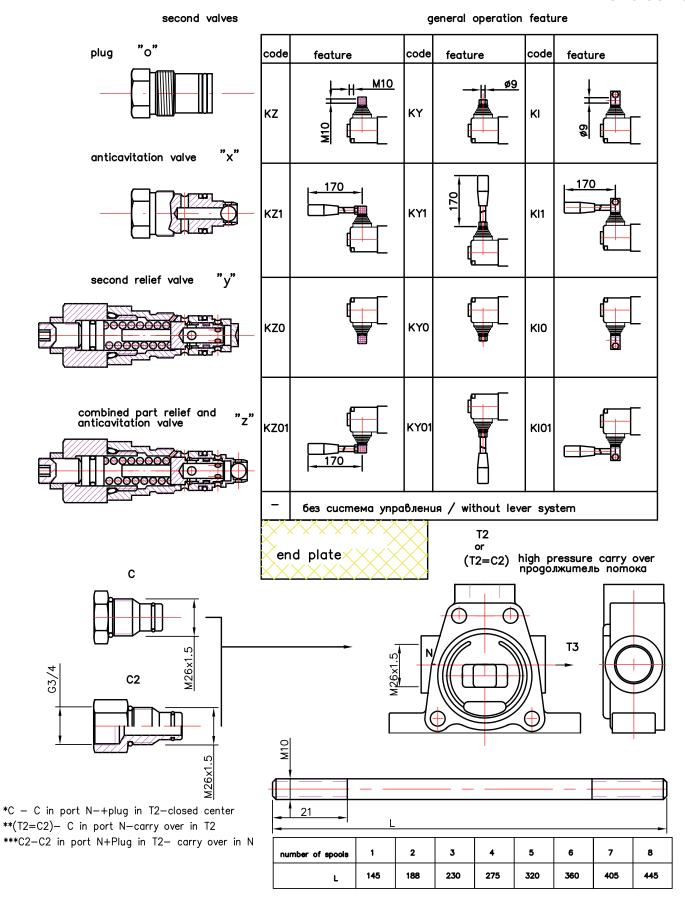
Stackable/Sectional Directional Valve

PC70 series

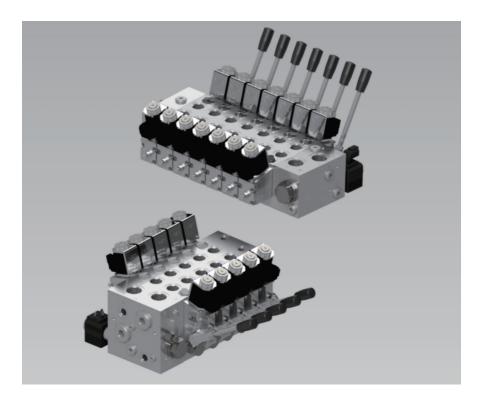


Stackable/Sectional Directional Valve

PC70 series



VBR series-VL14/VP14



Description:

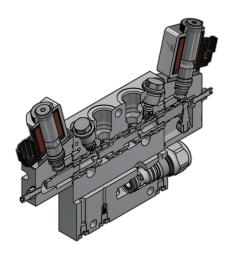
- o Load sensing with pressure compensation
- o Open/closed center configuration user switchable
- o Electro -hydraulic controls with or without manual lever
- o Flow rating on A and B ports up to 80 l/mir
- o Supply pressure: up to 250 bar (aluminium body)
 - up to 350 bar (zinc plated steel body)
- o Available with (VP14) or without (VL) local pre -compensator
- o Auxiliary valves on A and B ports
- o Spool position sensor
- o Special spool for pressure control
- o Electro -hydraulic pilot valves with manual override

Load sensitive multiway valve

VBR series-VL14/VP14



VL14





Specifications:

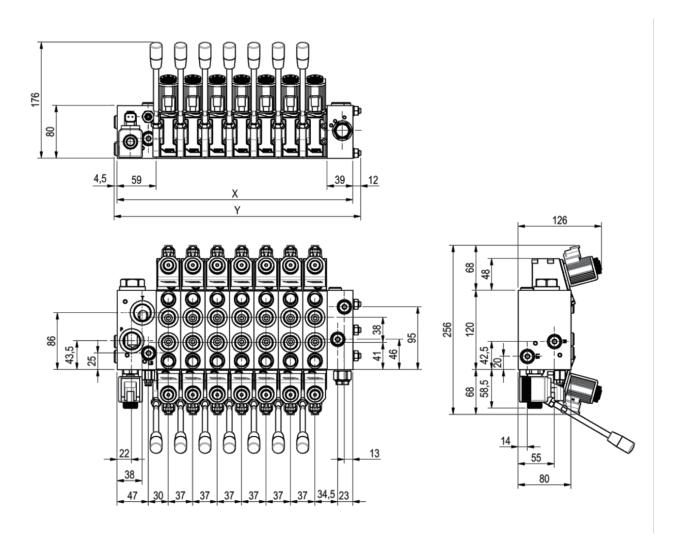
Load sensitive multiway valve		
Nominal inlet flowrate	120	l/min
Nominal flowrate on working port @ Stand-By 11bar	80	bar
Max pressure on P and A, B port	250 (aluminium body) – 350 (steel body)	bar
Max back pressure on T port	30	bar
Internal leakages @ 100bar with port valves	18 24	cc/min
Fluid	Mineral oil	
Ambient temperature range	-20 / +50	° C
Fluid temperature range	-20 / +80	° C
Fluid viscosityange	10 ÷ 200	cSt
Fluid contamination degree	18/16/13	ISO4406
Materials	Aluminium or Steel Zinc plated	
Port dimensions	P, T: BSP G3/4" – SAE12 A, B: BSP G1/2 – SAE10; LS, L, D, X: BSP G1/4 – SAE 06	
Nominal voltage	12 / 24	VDC
Coil power	19	W
Proportional control current	0-1500 (12V) / 0-750 (24V)	mA
Connector type	DT04-2P, AMP-JPT, DIN	

Note: technical specification measured with mineral oil 46cSt @ $40^{\circ}\,$ C

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VBR series-VL14/VP14

DEMENSIONS-VL14

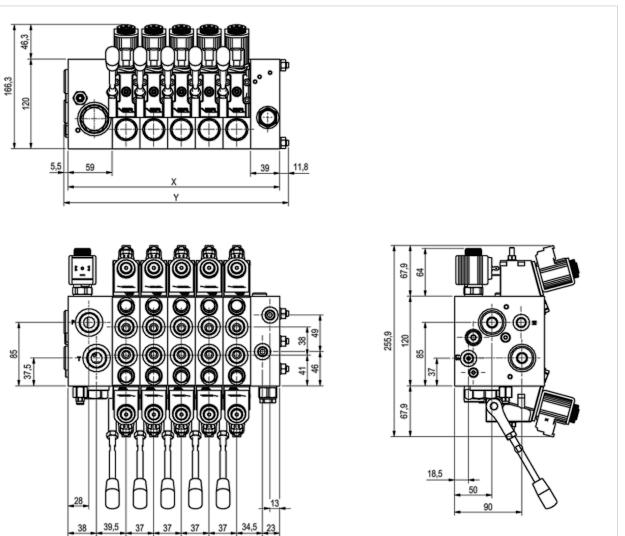


Working section	X	Υ
	[mm]	[mm]
\2	172	188,5
\3	209	225.5
\4	246	262,5
\5	283	299,5
\6	320	336,5
\7	357	37,5
\8	394	410,5

Load sensitive multiway valve

VBR series-VL14/VP14

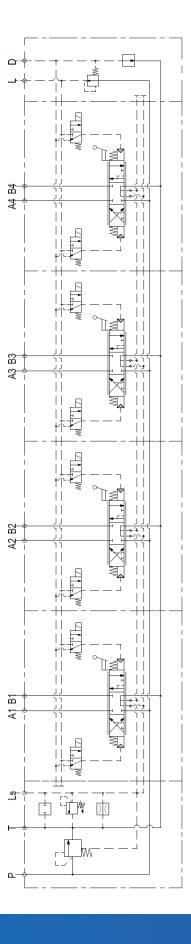
DEMENSIONS-VP14



Working	Х	Υ
section	[mm]	[mm]
\2	172	188,5
\3	209	225.5
\4	246	262,5
\5	283	299,5
\6	320	336,5
\7	357	37,5
\8	394	410,5

VBR series-VL14/VP14

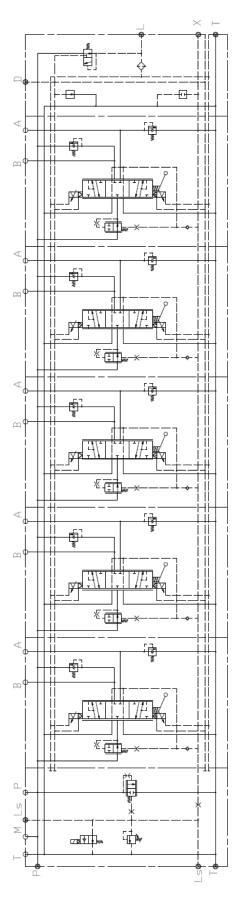
HYDRUALIC DIAGRAM-VL14



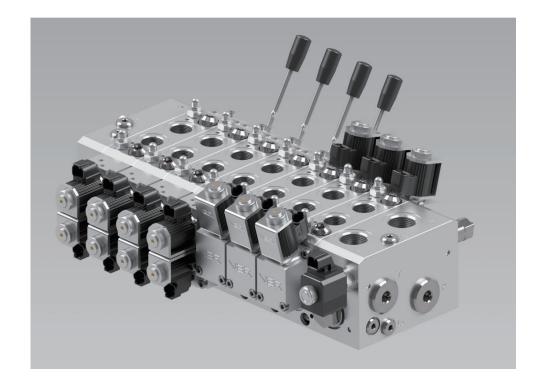
Load sensitive multiway valve

VBR series-VL14/VP14

HYDRUALIC DIAGRAM-VP14



VBR series-VP20

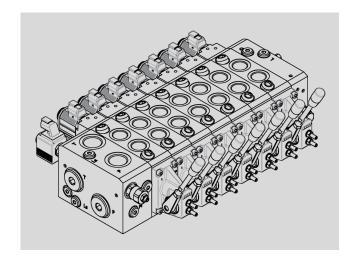


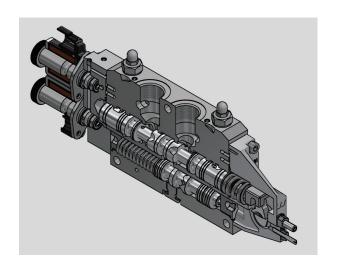
Description:

- o Load Sensing Pressure Pre-Compensated
- o Open/Closed center configuration user switchable
- o Electro-hydrualic controls with or without manual lever
- o Flow rating: up to 220/min
- o Supply pressure: max 400bar
- o LsA/LsB relief valves
- o Auxiliary valves on A and B ports
- o Spool position sensor
- o Special spool for pressure control
- o Availabe with or without local pressure compensators

Load sensitive multiway valve

VBR series-VP20



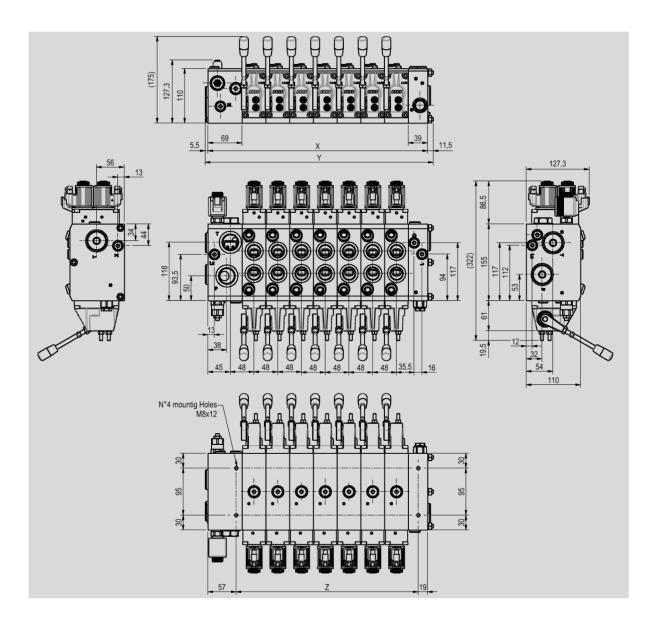


Specifications:

Load sensitive multiway valve	220	l/mi	
Nominal inlet flowrate	220	l/min	
Nominal flowrate on working port @ Stand-By 11bar	160	bar	
Max pressure on P and A, B port	400	bar	
Max back pressure on T port	30	bar	
Internal leakages @ 100bar with port valves	23 29	cc/min	
Fluid	Mineral oil		
Ambient temperature range	-20 / +50	°C	
Fluid temperature range	-20 / +80	°C	
Fluid viscosity range	10 ÷ 200	cSt	
Fluid contamination degree	18/16/13 ISO		
Materials	Steel Zinc plated		
Port dimensions	P, T: BSP G1" – SAE16 A, B: BSP G3/4 – SAE12; BSP G1" (without LsA, LsB and aux valves) LS, L, D, X: BSP G1/4 – SAE 06		
Nominal voltage	12 / 24	VDC	
Coil power	19 l		
Proportional control current	0-1500 (12V) / 0-750 (24V) m		
Connector type	DT04-2P, AMP-JPT, DIN		

VBR series-VP20

DEMENSIONS-VP20

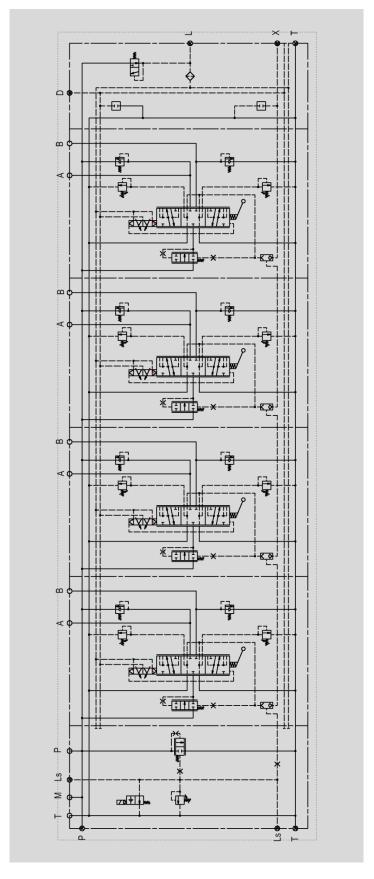


WORKING SECTION	X [mm]	Y [mm]	Z [mm]
\2	117	173	80
\3	165	221	128
\4	213	269	176
\5	261	317	224
\6	309	365	272
\7	357	413	320
\8	405	461	368
\9	453	509	416
\10	501	557	464

Load sensitive multiway valve

VBR series-VP20

HYDRUALIC DIAGRAM-VP20



Instructions

Installations

- 1. Clean the oil tank and hydraulic oil to prevent damage caused by liquid pollution;
- 2. It is better to exhaust the compressed air from the hose, accessories and other connecting parts before installation;
- 3. The installation of valve is generally divided into horizontal installation and vertical installation, and the installation bottom plate should be clean and flat
- 4. The installation and debugging of Valve should be carried out under the guidance of professional personnel

Conditions

1. working environment temperature: - 40C.. + 60C

2. viscosity 12.. 800mm2gs

3. liquid temperature - 15C. + 80C

4. piston vibration + / - 6mm

Material

- 1. The valve body is made of high strength cast iron, and its surface has been treated
- 2. The material of valve core is carburized 30 with hard chromium coating
- 3 aluminum lever end seat

More

For more information about electronic control, hydraulic control, pneumatic control and other products, please contact Baohe Hydraulic Sales Department.