



大象流体

Elephant Fluid Power



大象流体有限公司
Elephant Fluid Power Co.,Ltd

中国·石家庄



大象流体有限公司 Elephant Fluid Power Co.,Ltd



Efficiency



Plan



Solution



公司简介

Company Introduction

大象流体有限公司成立于2001年，是一家专注核心液压部件的生产商。

现有员工350名，工程师20名，年产能约90万件。

主要产品有多路换向阀，电控阀，齿轮油泵，转向器，动力单元等液压产品。

多达500多个型号，广泛应用于农业机械，工程机械，环卫车辆，专用车辆，钻探机械等等。

品质为产品的核心，大象流体建立了完善的品质管理系统，通过了IATF16949、ISO9001、CE等认证。

“液压驱动世界，大象智造未来”是大象流体数十年来坚持的信念。我们决心进一步扩展高端市场，提高产品的定位和工艺水平，以更高的水平服务全球市场。

Established in 2001, Elephant Fluid Power Co., Ltd. is a manufacturer specialized in hydraulic parts. After decades of development, we now have become one of the biggest hydraulic parts manufacturers in China. With 350 employees, 20 engineers and millions of dollars worth equipments, Our annual production capacity has reached 900k pieces.

Elephant Fluid Power has passed the certificate of IATF16949, ISO9001 and EC.

“Powering Future” has been the spirit of Elephant for decades. Hydraulics is powering industry, Elephant is powering the future.

核心
竞争力
Why
Choose
EFP

19

- 19年生产和研发经验
- 19 years experience of manufacturing and innovation

20

- 20名从业10年以上的专业工程师
- 20 engineers with more than 10 years of experience

350

- 350名熟练员工
- 350 experienced workers

90

- 90万年产能
- 900,000 annual production capacity

100

- 100%成品负载试验检测
- 100% workload simulation test

30

- 30多个国家的客户的认可
- 30+ oversea market approval

工厂规模 Factory Capacity

大象流体工厂占地28000平方米，拥有1个铸造中心，2个机加车间，3个组装车间，2个清洗车间和2个喷涂车间。为了满足市场，大象流体先后采购了20台质检设备、95台加工设备和12台成品负载试验机。

The factory of Elephant Fluid Power covers an area of 28000m². We now have 1 casting center, 2 machining workshops, 3 assembly workshops, 2 cleaning workshops and 2 painting workshops. To meet the requests of the market, Elephant owns 20 inspection equipments, 95 high precision machining equipments and 12 workload simulation machines.





DCV系列多路换向阀

DCV Series Directional Control Valve

DCV 系列多路换向阀具有工作压力高，结构紧凑，安全阀和过载阀启闭特性好，通用性好等特点。广泛应用于工程机械、环卫机械和钻探机械中。

DCV directional control valve is designed for high pressure hydraulic system such as drilling machine, sanitation, etc.

☆ 可选装过载阀、补油阀、组合阀等（不适用于DCV20-45）

Auxiliary valve: over-load valve, anti-cavitation valve, combined valve, etc. (not for DCV40-45)

☆ 控制方式：手控、气控、电磁控、电气控、电液控等

Control type: manual, joystick, cable, pneumatic, solenoid, electro-pneumatic, electro-hydraulic, etc.

☆ 结构：整体式，分片式

Structure: monoblock, sectional.

☆ 过桥可用于为其他液压元件提供液压源

Carry-over port as hydraulic source for other parts.



• 订货编号 | Ordering code

DCV XX / X - XXX - XXXX - XXXX ... - X - XX

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

①流量 Flow: 20, 40, 45, 60, 100, 140, 200

②联数 Number of spools: 1-12

③进油片类型 Inlet section type: 见表(1) see table (1)

④安全阀设置压力 Relief valve set pressure: 100-315 bar

⑤进油口尺寸 Inlet port size: 见表(2) see table (2)

⑥阀杆类型 Spool type: 见表(3) see table (3)

⑦手柄侧选项 Handle side arrangement: 见表(4) see table (4)

⑧端盖侧选项 Spool cap side arrangement: 见表(5) see table (5)

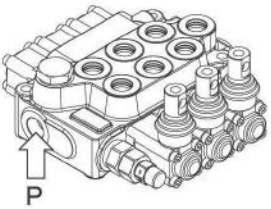
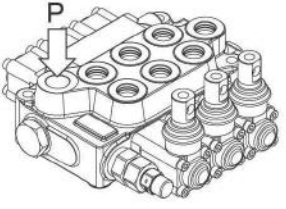
⑨工作片选项 Working section arrangement: 见表(6) see table (6)

⑩工作油口尺寸 Work port size: 见表(2) see table (2)

⑪出油片类型 Outlet section type: 见表(7) see table (7)

⑫出油口尺寸 Outlet port size: 见表(2) see table (2)

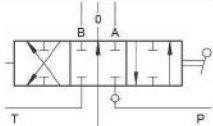
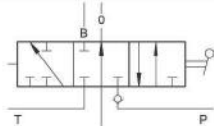
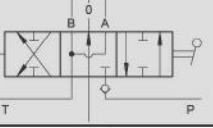
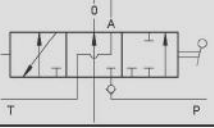
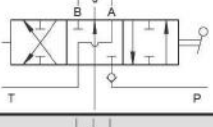
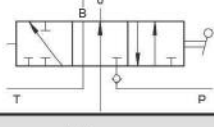
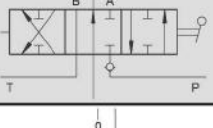
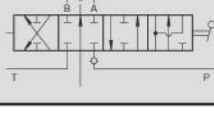
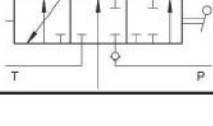
• 表(1) Table (1)

代号 Code	类型 Type	描述 Description	代号 Code	类型 Type	描述 Description
A1		侧进油，带安全阀 Side inlet, with relief valve	A2		顶进油，带安全阀 Top inlet, with relief valve
A3		侧进油，无安全阀 Inlet port on top of inlet section, Outlet on outlet section (only for DCV60-100, see table 7, F5-F6)	A4		进、出油口位于进油片顶端 (仅DCV60-100) Inlet and outlet port on top of inlet section (only for DCV60-100, match F7 in table 7)

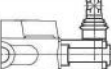
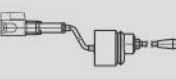
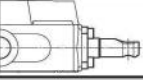
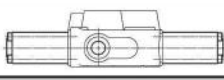
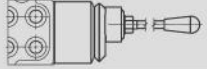
• 表(2) Table (2)

BSP螺纹 BSP thread		公制螺纹 Metric thread		美标UNF螺纹 US standard UNF thread		美标NTP螺纹 US standard NTP thread	
代号 Code	螺纹尺寸 Thread size	代号 Code	螺纹尺寸 Thread size	代号 Code	螺纹尺寸 Thread size	代号 Code	螺纹尺寸 Thread size
G04	G1/4	M16	M16X1.5	U08	1/2-20UNF	N04	NPT1/4
G06	G3/8	M18	M18X1.5	U10	5/8-18UNF	N06	NPT3/8
G08	G1/2	M20	M20X1.5	U12	3/4-16UNF	N08	NPT1/2
G12	G3/4	M22	M22X1.5	U16	1-12UNF	N12	NPT3/4
G16	G1	M27	M27X2	U22	1 1/8-12UNF	N16	NPT1
		M33	M33X2				

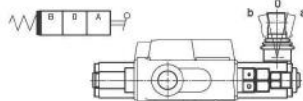
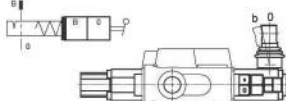
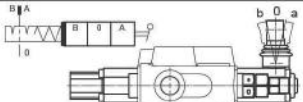
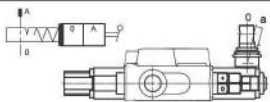
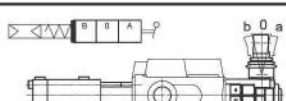
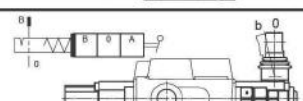
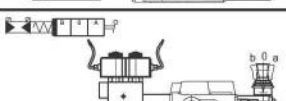
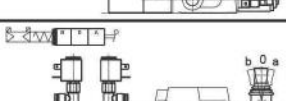
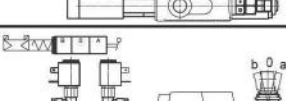
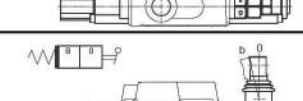
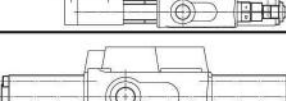
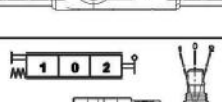
• 表(3) Table (3)

代号 Code	阀杆类型 Spool type	描述 Description	代号 Code	阀杆类型 Spool type	描述 Description
ST1		3位，双动作，A，B口封闭 3 positions, double acting	ST6		3位，单动作，B口封闭 3 positions, single acting in B
ST2		3位，双动作，A，B，T口相通 3 positions, double acting, A & B open	ST7		3位，单动作，A，T口相通 3 positions, single acting in A, A open
ST3		3位，双动作，B口封闭，A，T口相通 3 positions, double acting, A open, B blocked	ST8		3位，单动作，B，T口相通 3 positions, single acting in B, B open
ST4		3位，双动作，A口封闭，B，T口相通 3 positions, double acting, A blocked, B open	ST9		4位，双动作，A，B口封闭，第4位浮动 4 positions, double acting with 4th floating position
ST5		3位，单动作，A口封闭 3 positions, single acting in A			

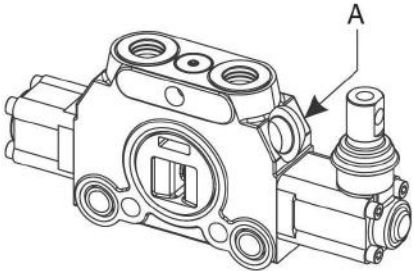
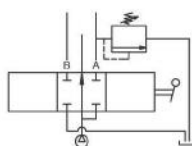
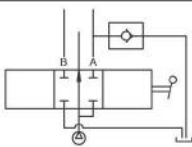
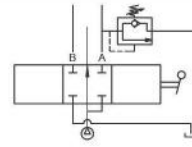
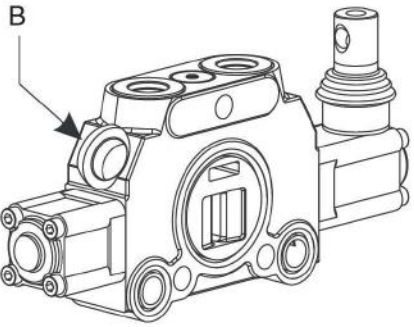
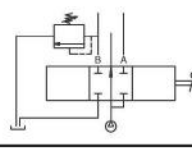
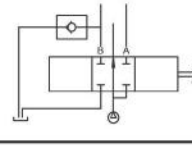
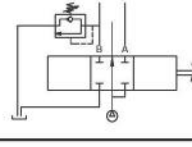
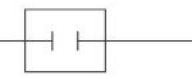
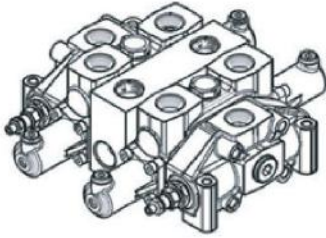
• 表(4) Table (4)

代号 Code	类型 Type	描述 Description	代号 Code	类型 Type	描述 Description
C1		标准手柄 Standard handle	C5		软轴 Flexible cable (standard length 1.5m, customizable)
C2		手柄倒置180° Handle at 180°	C6		软轴+一控二手柄 Flexible cable with cable (standard length 1.5m, customizable)
C3		无手柄 Handle at 180°	C7		液控 先导控制压力5-10bar Hydraulic control Pilot pressure: 5-10bar
C4		一控二手柄 Joystick			

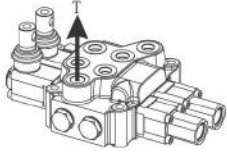
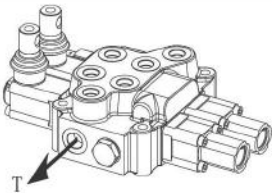
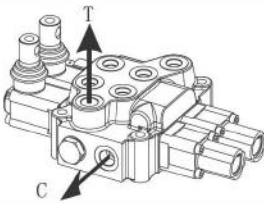
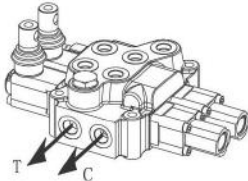
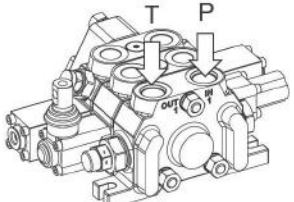
• 表(5) Table (5)

代号 Code	类型 Type	描述 Description	代号 Code	类型 Type	描述 Description
D1		3位, 弹簧复位 3 positions, spring return	D10		2位(0,b), 弹簧复位, b位钢球定位 2 positions(0, b), spring return, detent in b
D2		3位, 弹簧复位, ab位钢球定位 3 positions, spring return, detent in a and b	D11		2位(0,a), 弹簧复位, a位钢球定位 2 positions(0, a), spring return, detent in a
D3		3位, 弹簧复位, a位钢球定位 3 positions, spring return, detent in a	D12		气控, 先导压力5-10bar pneumatic control ON/OFF, pilot pressure 5-10 bar
D4		3位, 弹簧复位, b位钢球定位 3 positions, spring return, detent in b	D13		电液控, 12V, 带减压阀, 先导压力20-25bar electro-hydraulic control ON-OFF, 12 Vdc, with pressure reduce valve, pilot pressure 20-25 bar
D5		4位, 弹簧复位, 第4位钢球定位 4 positions, spring return, detent in 4th position	D14		电液控, 24V, 带减压阀, 先导压力20-25bar electro-hydraulic control ON-OFF, 24 Vdc, with pressure reduce valve, pilot pressure 20-25 bar
D6		4位, 弹簧复位, 1-4位全钢球定位 4 positions, spring return, detent in all 4 positions	D15		电气控, 12V, 先导压力5-10bar electro-pneumatic control ON-OFF, 12 Vdc, pilot pressure 5-10 bar
D7		3位, 弹簧复位, 0,a,b位钢球定位 3 positions, spring return, detent in 0, a & b	D16		电气控, 24V, 先导压力5-10bar electro-pneumatic control ON-OFF, 24 Vdc, pilot pressure 5-10 bar
D8		2位(0,b), 弹簧复位 2 positions(0, b), spring return	D17		液控 先导控制压力20-25bar Hydraulic control Pilot pressure: 20-25bar
D9		2位(0,a), 弹簧复位 2 positions(0, a), spring return	D18		双控, 弹簧复位 Dual control with spring return, M8 thread

表(6) Table (6)

代号 Code	工作片选项 Work section arrangement	类型 Type	描述 Description
E1			A位置选装过载阀 Overload valve in position A
E2			A位置选装补油阀 Anti-cavitation valve in position A
E3			A位置选装过载+补油组合 Anti-cavitation relief valve in position A
E4			A位置预留孔位 (带堵头) Prearrangement cavity(plugged)
E5			B位置选装过载阀 Overload valve in position B
E6			B位置选装补油阀 Anti-cavitation valve in position B
E7			B位置选装过载+补油组合 Anti-cavitation relief valve in position B
E8			B位置预留孔位 (带堵头) Prearrangement cavity (plugged)
E9		汇流片 Intermediate outlet section	分片阀用中间连接片 Intermediate section for sectional valves
E10		中间连接片 Intermediate connection section	

表(7) Table (7)

代号 Code	类 型 Type	描 述 Description
F1		顶部出油 (DCV60-100 此选项时无过桥) Top outlet (for DCV60-100 no carry-over for this arrangement)
F2		侧面出油 (DCV60-100此选项时无过桥) Side outlet (for DCV60-100 no carry-over for this arrangement)
F3		顶部出油，带过桥 Top outlet with carry over
F4		侧面出油，带过桥 Side outlet with carry over
F5		进出油口都在进油片顶部，带过桥 (仅适用于DCV60-100) Inlet & outlet both on inlet section, carry-over available (only for DCV60-100)

DCV20 整体式多路换向阀 Monoblock Directional Control Valve



参数 Specifications

额定流量 Nominal flow rate		20 L/min	5.3 US GPM
最大压力 Max pressure		350bar	5076 psi
	工作粘度范围 operating range	15 ~ 75 mm ² /s	15 ~ 75 cst
粘度 Viscosity	最小 min	12 mm ² /s	12 cst
	最大 max	400 mm ² /s	400 cst
环境温度 Ambient temperature range		-40° ~ 80°C	-40° ~ 176°F
结构 Structure		整体式: 6 联 monoblock: 6 sections	

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DCV40 整体式多路换向阀

Monoblock Directional Control Valve



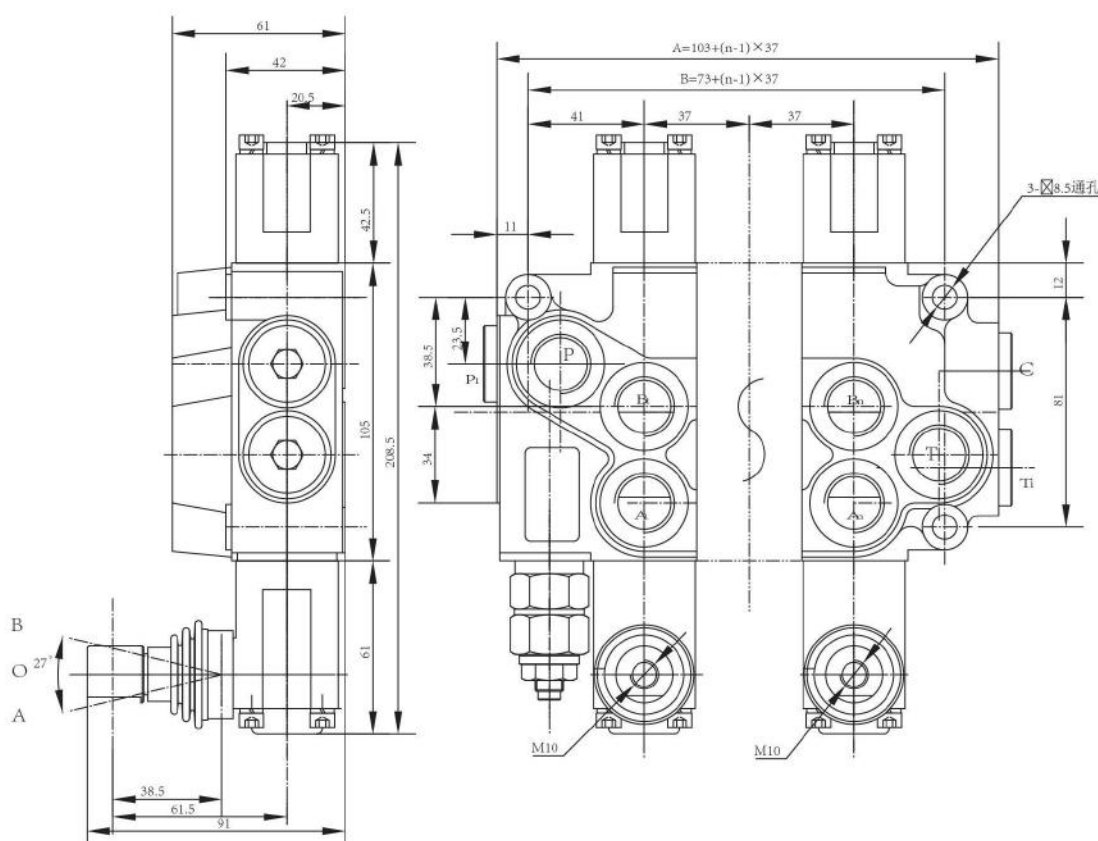
参数 Specifications

额定流量 Nominal flow rate		40 L/min	10.5 US GPM
最大压力 Max pressure		350 bar	5076 psi
	工作粘度范围 operating range	15 ~ 75 mm ² /s	15 ~ 75 cst
粘度 Viscosity	最小 min	12 mm ² /s	12 cst
	最大 max	400 mm ² /s	400 cst
环境温度 Ambient temperature range		-40° ~ 80°C	-40° ~ 176°F
结构 Structure		整体式: 1~8联 monoblock: 1~8 sections	

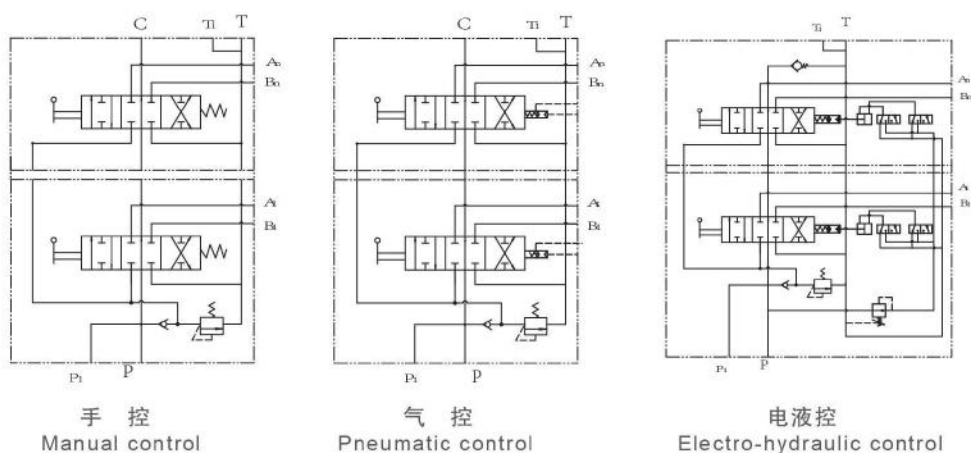
DCV40 整体式多路换向阀

Monoblock Directional Control Valve

外观尺寸图 Dimension



液压原理图 Hydraulic Schema



DCV45 整体式多路换向阀

Monoblock Directional Control Valve

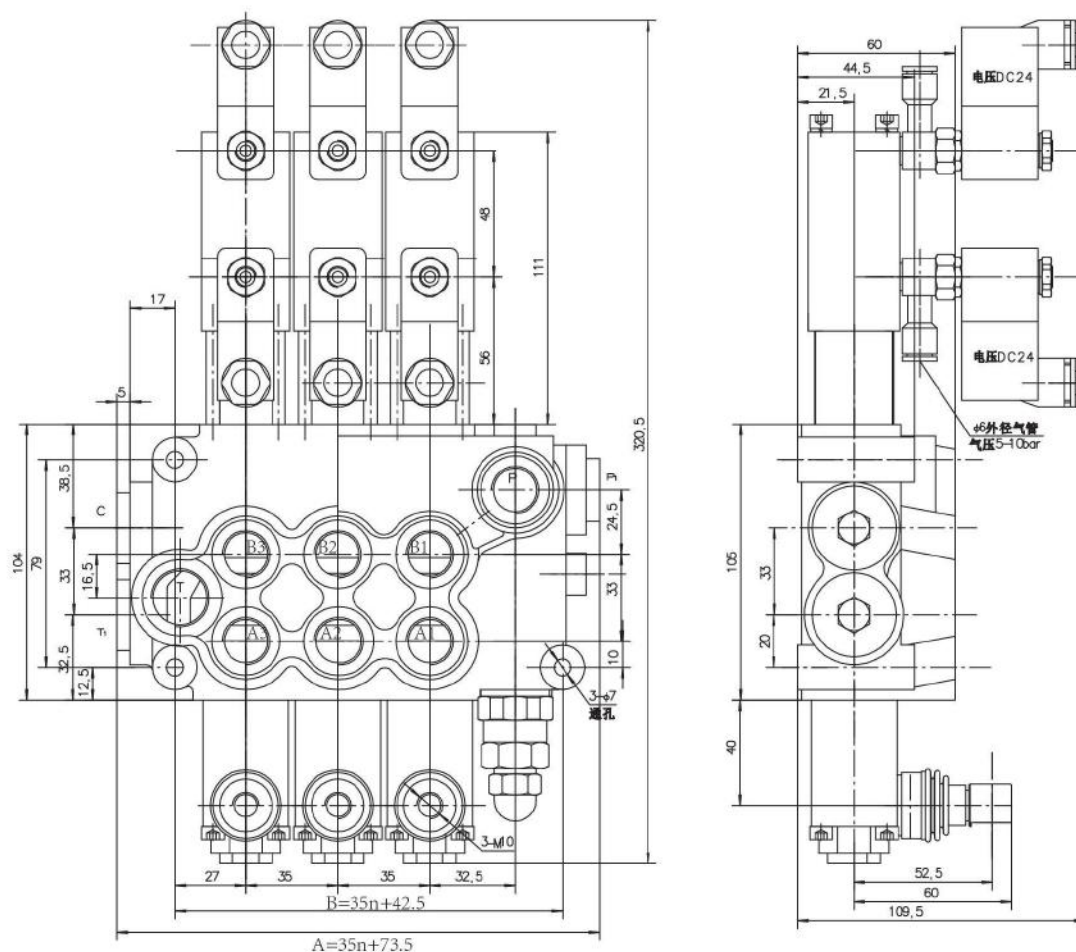


参数 Specifications

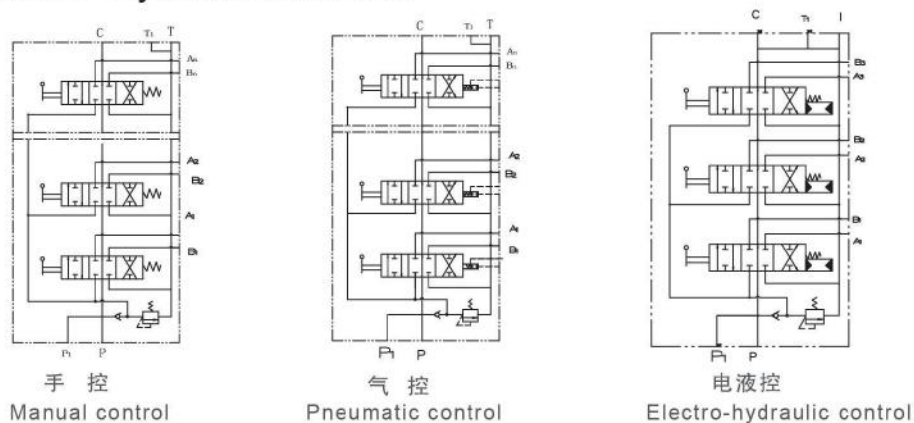
额定流量 Nominal flow rate		45 L/min	11.8 US GPM
最大压力 Max pressure		350bar	5076 psi
	工作粘度范围 operating range	15 ~ 75 mm ² /s	15 ~ 75 cst
粘度 Viscosity	最小 min	12 mm ² /s	12 cst
	最大 max	400 mm ² /s	400 cst
环境温度 Ambient temperature range		-40°~ 80°C	-40° ~176°F
结构 Structure		整体式: 1~8联 monoblock: 1~8 sections	

DCV45整体式多路换向阀 Monoblock Directional Control Valve

外观尺寸图 Dimension



液压原理图 Hydraulic Schema



DCV60分片式多路换向阀 Sectional Directional Control Valve

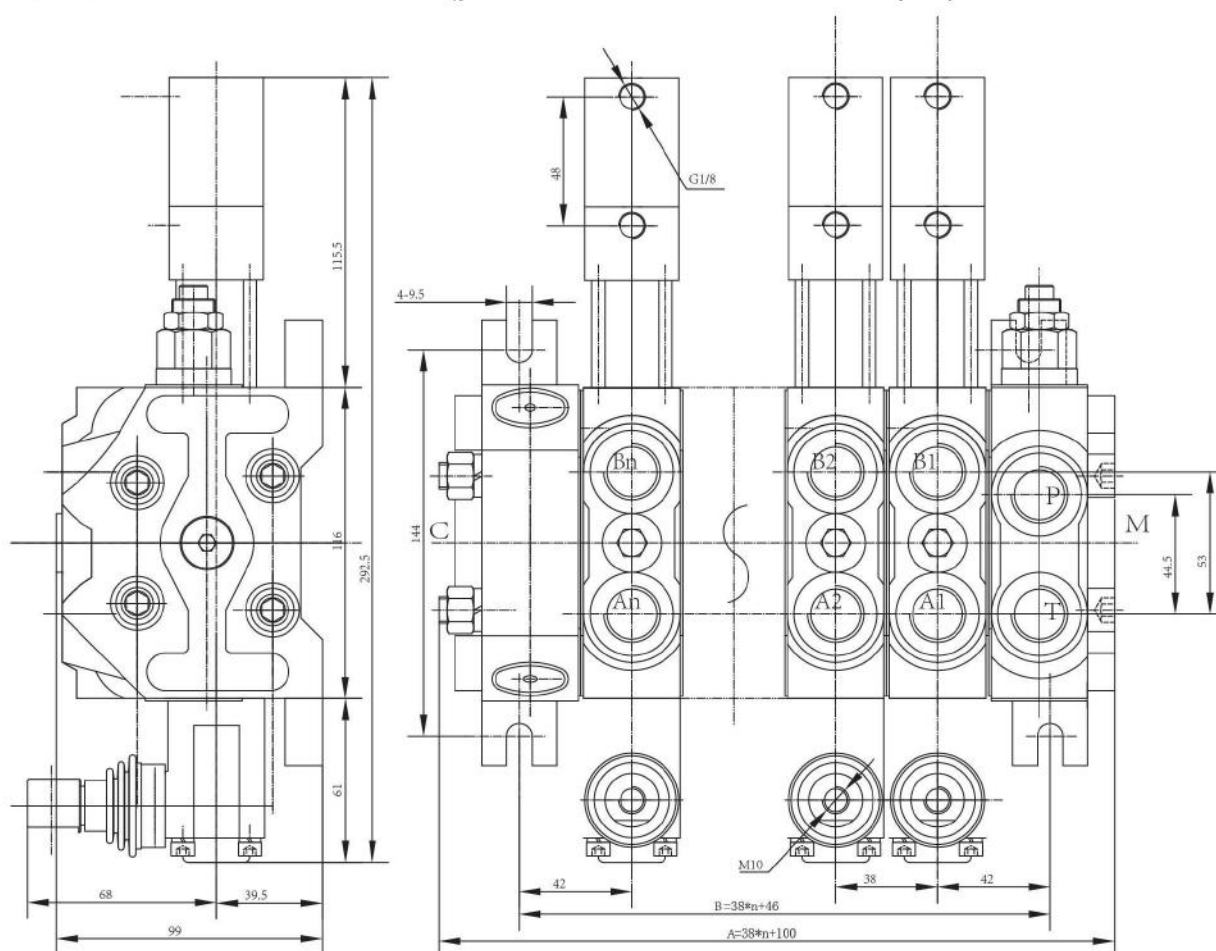


参数 Specifications

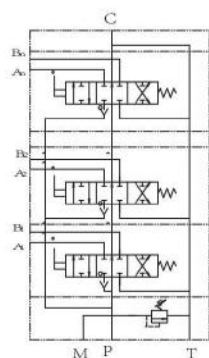
额定流量 Nominal flow rate		60 L/min	15.8 US GPM
最大压力 Max pressure		350bar	5076 psi
	工作粘度范围 operating range	15 ~ 75 mm ² /s	15 ~ 75 cst
粘度 Viscosity	最小 min	12 mm ² /s	12 cst
	最大 max	400 mm ² /s	400 cst
环境温度 Ambient temperature range		-40° ~ 80°C	-40° ~ 176°F
结构 Structure		分片式: 1~12联 sectional: 1~12 sections	

DCV60分片式多路换向阀 Sectional Directional Control Valve

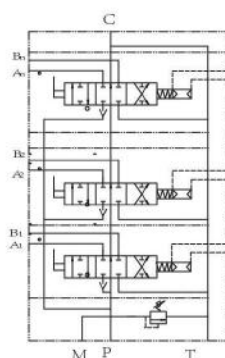
外观尺寸图 Dimension (pneumatic control as example)



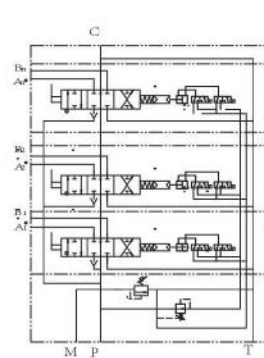
液压原理图 Hydraulic Schema



手 控
Manual control



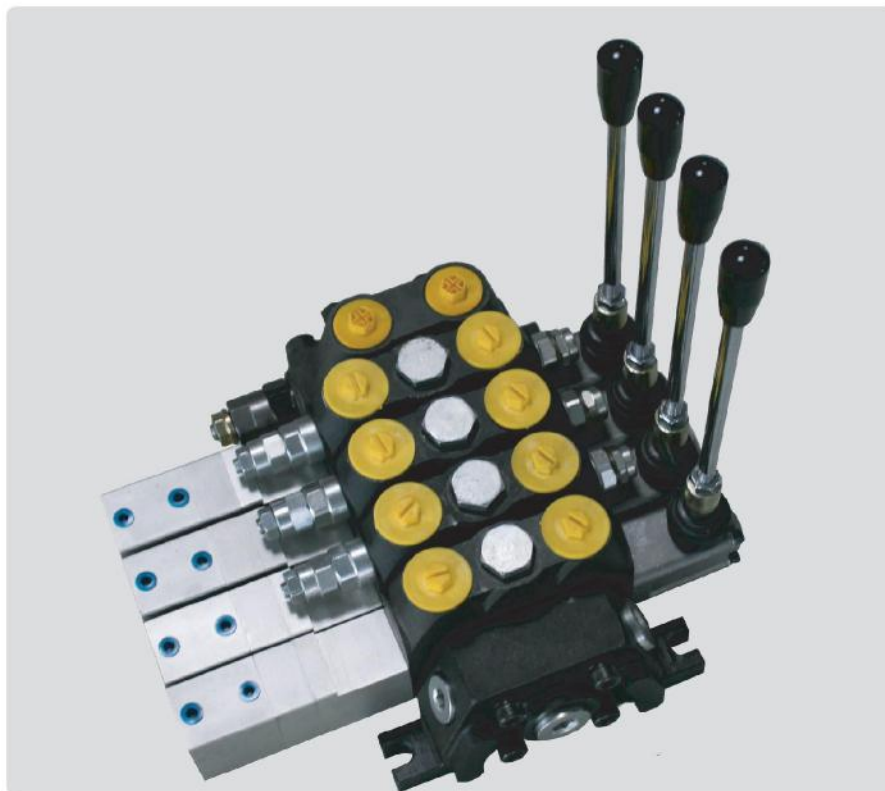
气 控
Pneumatic control



电液控
Electro-hydraulic control

DCV100分片式多路换向阀

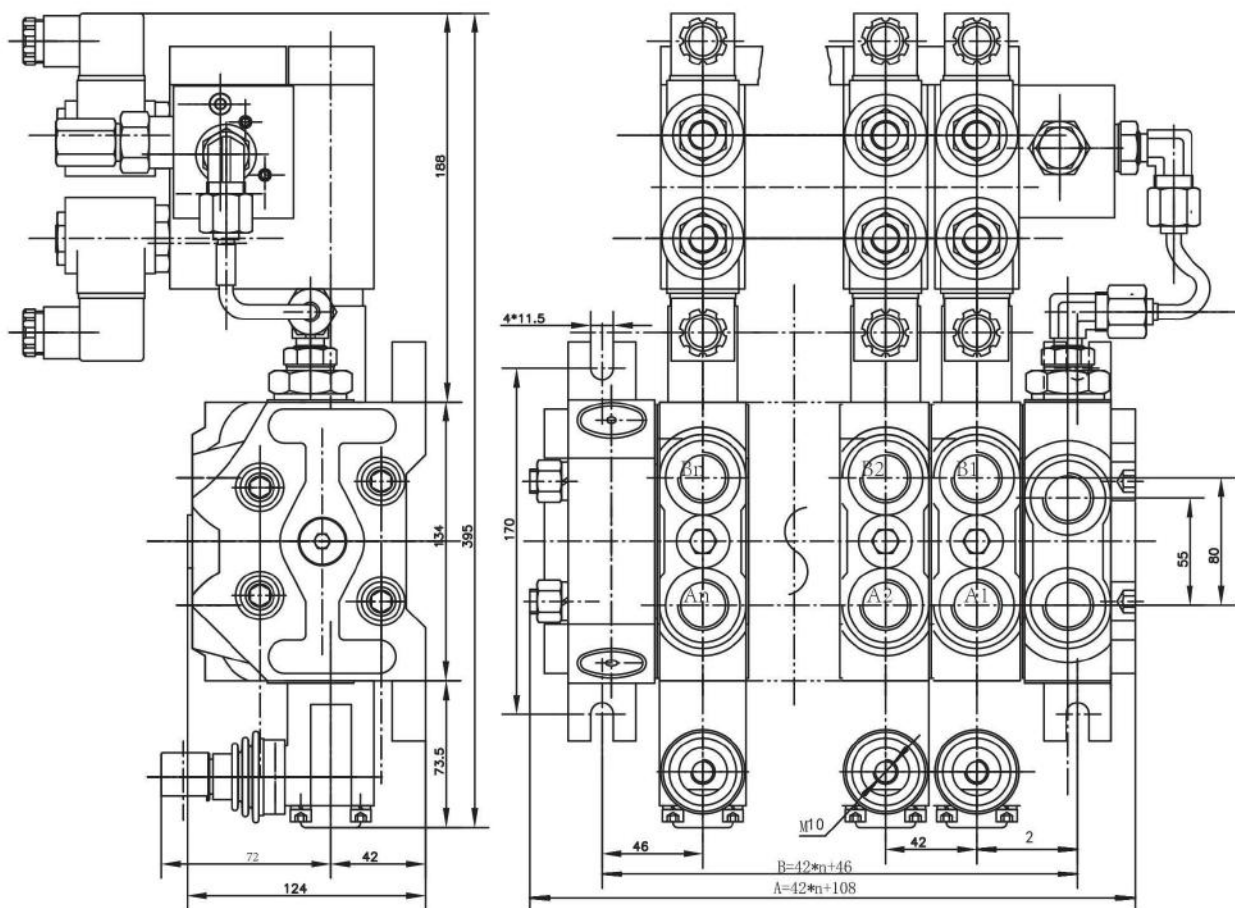
Sectional Directional Control Valve



参数 Specifications

额定流量 Nominal flow rate		100 L/min	26.2 US GPM
最大压力 Max pressure		350bar	5076 psi
	工作粘度范围 operating range	15 ~ 75 mm ² /s	15 ~ 75 cst
粘度 Viscosity	最小 min	12 mm ² /s	12 cst
	最大 max	400 mm ² /s	400 cst
环境温度 Ambient temperature range		-40°~ 80°C	-40° ~ 176°F
结构 Structure		分片式: 1~12联 sectional: 1~12 sections	

外观尺寸图 Dimension



电液控
Electro-hydraulic control

DCV140分片式多路换向阀

Sectional Directional Control Valve

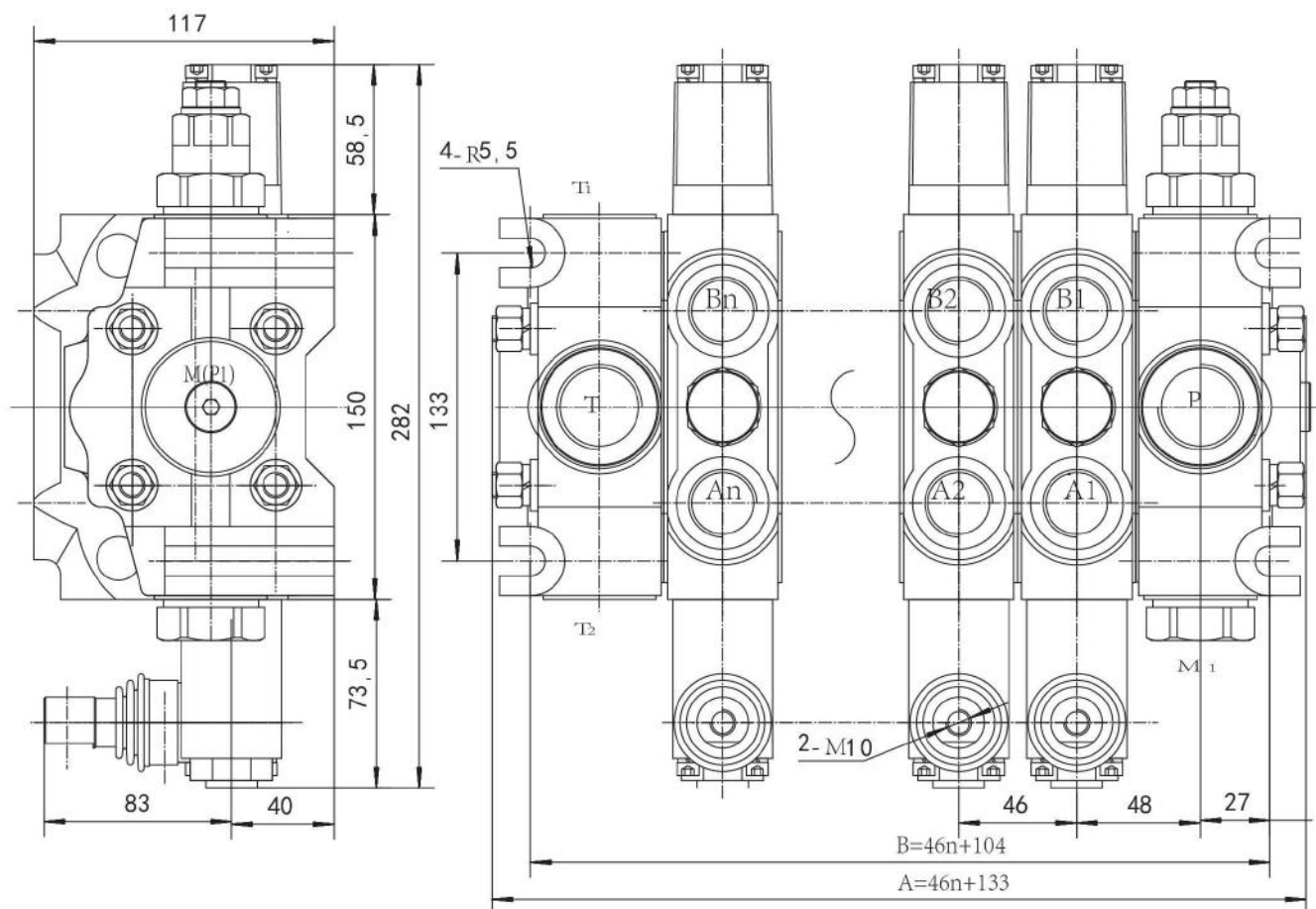


参数 Specifications

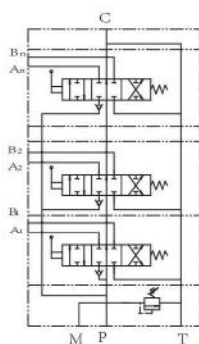
额定流量 Nominal flow rate		140 L/min	36.8 US GPM
最大压力 Max pressure		350bar	5076 psi
	工作粘度范围 operating range	15 ~ 75 mm ² /s	15 ~ 75 cst
粘度 Viscosity	最小 min	12 mm ² /s	12 cst
	最大 max	400 mm ² /s	400 cst
环境温度 Ambient temperature range		-40°~ 80°C	-40° ~ 176°F
结构 Structure		分片式: 1~12联 sectional: 1~12 sections	

DCV140分片式多路换向阀 Sectional Directional Control Valve

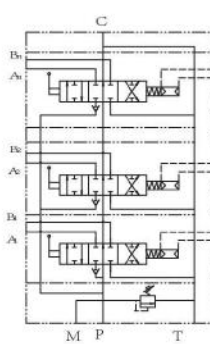
外观尺寸图 Dimension



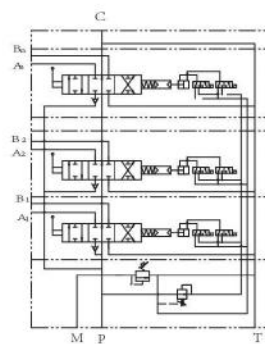
液压原理图 Hydraulic Schema



手控
Manual control



气控
Pneumatic control



电液控
Electro-hydraulic control

DCV200分片式多路换向阀 Sectional Directional Control Valve

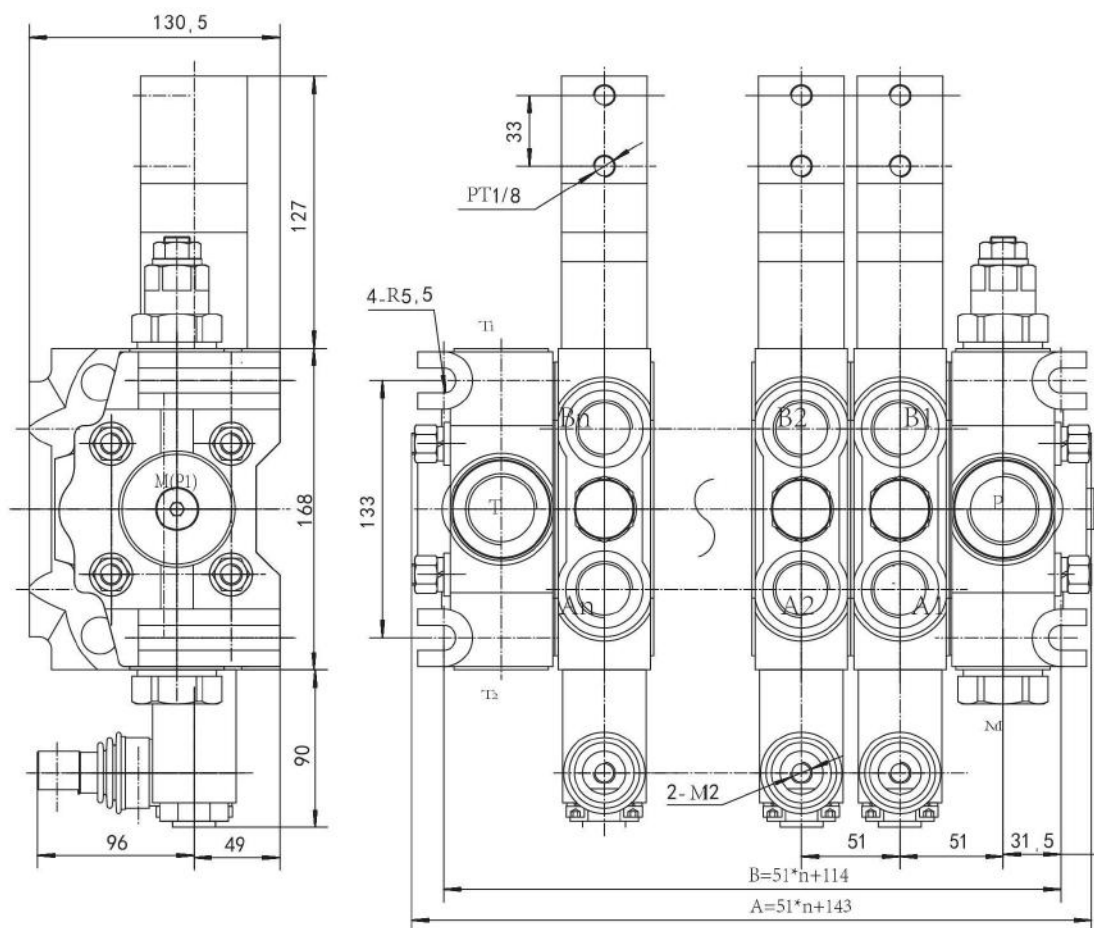


参数 Specifications

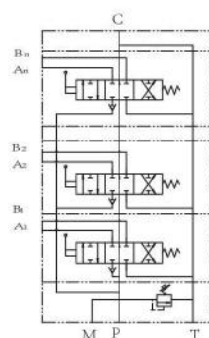
额定流量 Nominal flow rate		200 L/min	52.5 US GPM
最大压力 Max pressure		350 bar	5076 psi
工作粘度范围 operating range		15 ~ 75 mm ² /s	15 ~ 75 cst
粘度 Viscosity	最小 min	12 mm ² /s	12 cst
	最大 max	400 mm ² /s	400 cst
环境温度 Ambient temperature range		-40°~ 80°C	-40° ~ 176°F
结构 Structure		分片式: 1~12联 sectional: 1~12 sections	

DCV200 分片式多路换向阀 Sectional Directional Control Valve

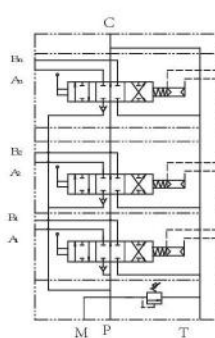
外观尺寸图 Dimension



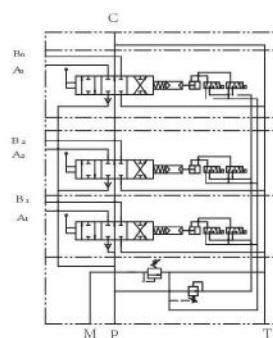
液压原理图 Hydraulic Schema



手控
Manual control



气控
Pneumatic control



电液控
Electro-hydraulic control



P40/80系列多路换向阀

P40/80 Series Directional Control Valve

P40, P80 系列多路换向阀是一种通用型整体多路换向阀，具有价格低廉，性能稳定，通用性高等特点

P40, P80 series are economical monoblock directional control valves with various applications and features of compact structure, stable performance, low price and high universality.

- ☆ 控制方式：手控，软轴，气控，电液控，电磁控等
Control type: manual, cable, solenoid, pneumatic, electro-hydraulic, etc.
- ☆ 油路：并联
Circuit type: parallel
- ☆ 结构：整体式，1-8联
Monoblock structure, 1-8 sections



• 订货编号 | Ordering code

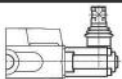
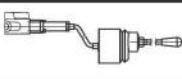
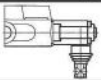
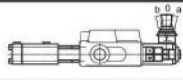
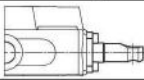
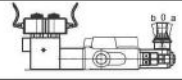
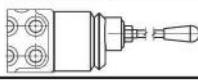
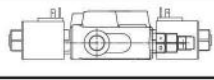
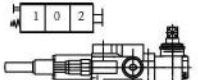
P XX - X - X - X - X X X - X X X ... - X - X
①
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④
⑤
⑥
⑦
⑤
⑥
⑦
⑧
⑨

- ①流量 Flow: 40, 80
- ②联数 Number of sections: 1-8
- ③安全阀设定压力 Relief valve set pressure: 100-250 bar
- ④进油口尺寸 inlet port size: 见表 (1) see table (1)
- ⑤控制方式 Control type: 见表(2) see table (2)
- ⑥阀杆类型 Spool type: 见表(3) see table (3)
- ⑦阀杆复位类型 Spool returning type: 见表(4) see table (4)
- ⑧工作油口尺寸 Work port size: 见表(1) see table (1)
- ⑨出油口尺寸 Outlet port size: 见表(1) see table (1)

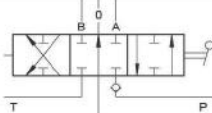
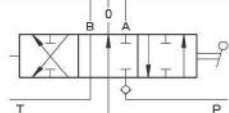
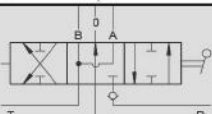
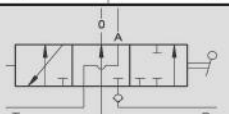
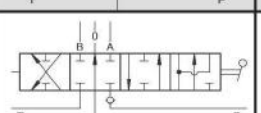
• 表(1) Table (1)

BSP螺纹 BSP thread		公制螺纹 Metric thread		美标UNF螺纹 US standard UNF thread		美标NTP螺纹 US standard NTP thread	
代号 Code	螺纹尺寸 Thread size	代号 Code	螺纹尺寸 Thread size	代号 Code	螺纹尺寸 Thread size	代号 Code	螺纹尺寸 Thread size
G04	G1/4	M16	M16X1.5	U10	5/8-12UNF	N06	NPT3/8
G06	G3/8	M18	M18X1.5	U12	3/4-16UNF	N08	NPT1/2
G08	G1/2	M20	M20X1.5	U14	7/8-14UNF	N12	NPT3/4
G12	G3/4	M22	M22X1.5	U16	1-12UNF		
		M27	M27X2				

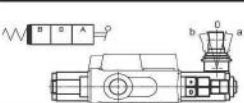
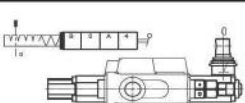
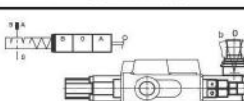
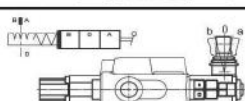
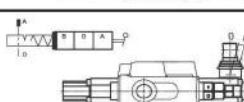
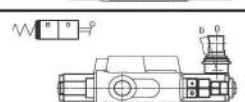
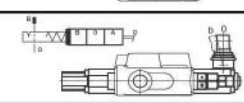
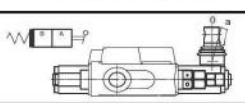
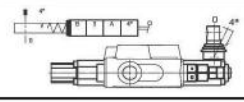
• 表(2) Table (2)

代号 Code	类型 Type	描述 Description	代号 Code	类型 Type	描述 Description
C1		标准手柄 Standard handle	C6		软轴+一控二手柄 软轴标准长度1.5m, 可定制 Joystick with cable (standard length 1.5m, customizable)
C2		手柄倒置180° Handle at 180°	C7		气控 Pneumatic control
C3		无手柄 Handle at 180°	C8		电液控 Electro-hydraulic control
C4		一控二手柄 Joystick	C9		电磁控制 Solenoid control
C5		软轴 软轴标准长度1.5m, 可定制 Flexible cable (standard length 1.5m, customizable)	C10		双控, 弹簧复位 Dual control

• 表(3) Table (3)

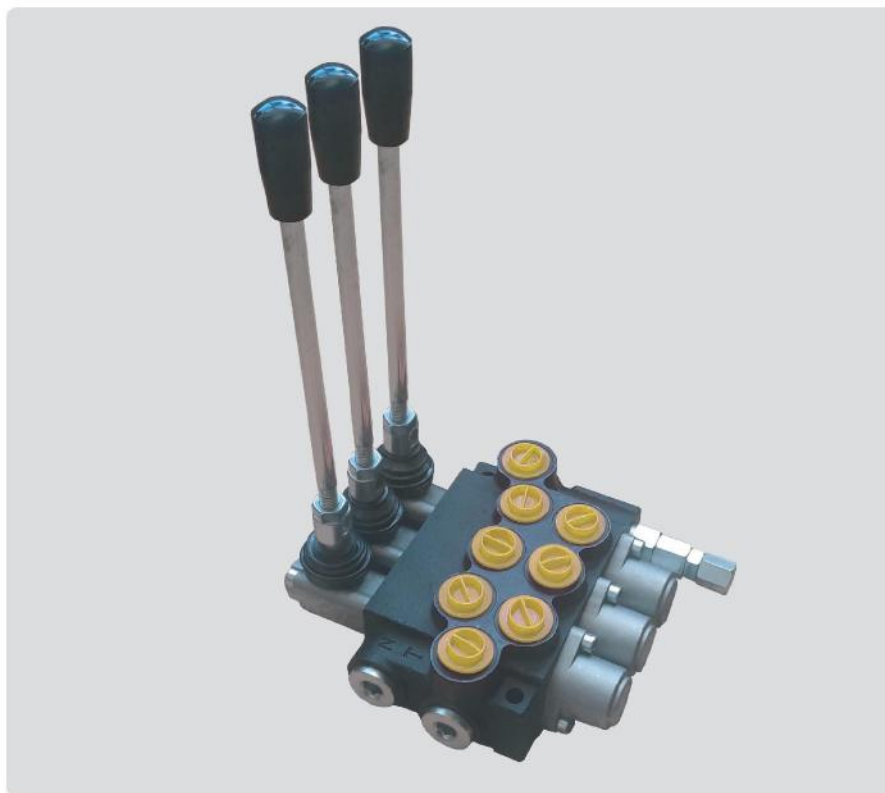
代号 Code	阀杆类型 Spool type	描述 Description	代号 Code	阀杆类型 Spool type	描述 Description
ST1		3 位, 双动作 3 positions, double acting	ST4		3 位, 双动作, A口关, B口开 3 positions, double acting, A blocked, B open
ST2		3 位, 双动作, AB口打开 3 positions, double acting, A & B open	ST5		3 位, 单动作, A口开 3 positions, single acting in A, A open
ST3		3 位, 双动作, A口开, B口关 3 positions, double acting, A open, B blocked	ST6		4 位, 双动作, 第四位带浮动 4 positions, double acting with 4th floating position

• 表(4) Table (4)

代号 Code	类型 Type	描述 Description	代号 Code	类型 Type	描述 Description
D1		3 位, 弹簧复位 3 positions, spring return	D6		4 位, 弹簧复位, 四位 全定位 4 positions, spring return, detent in all 4 positions
D2		3 位, 弹簧复位, AB定位 3 positions, spring return, detent in a and b	D7		3 位, 弹簧复位, AB0定位 3 positions, spring return, detent in 0, a & b
D3		3 位, 弹簧复位, A定位 3 positions, spring return, detent in a	D8		2 位(0, b), 弹簧复位 2 positions(0, b), spring return
D4		3 位, 弹簧复位, B定位 3 positions, spring return, detent in b	D9		2 位(0, a), 弹簧复位 2 positions(0, a), spring return
D5		4 位, 弹簧复位, 第4位定位 4 positions, spring return, detent in 4th position			

P40 整体式多路换向阀

Monoblock Directional Control Valve



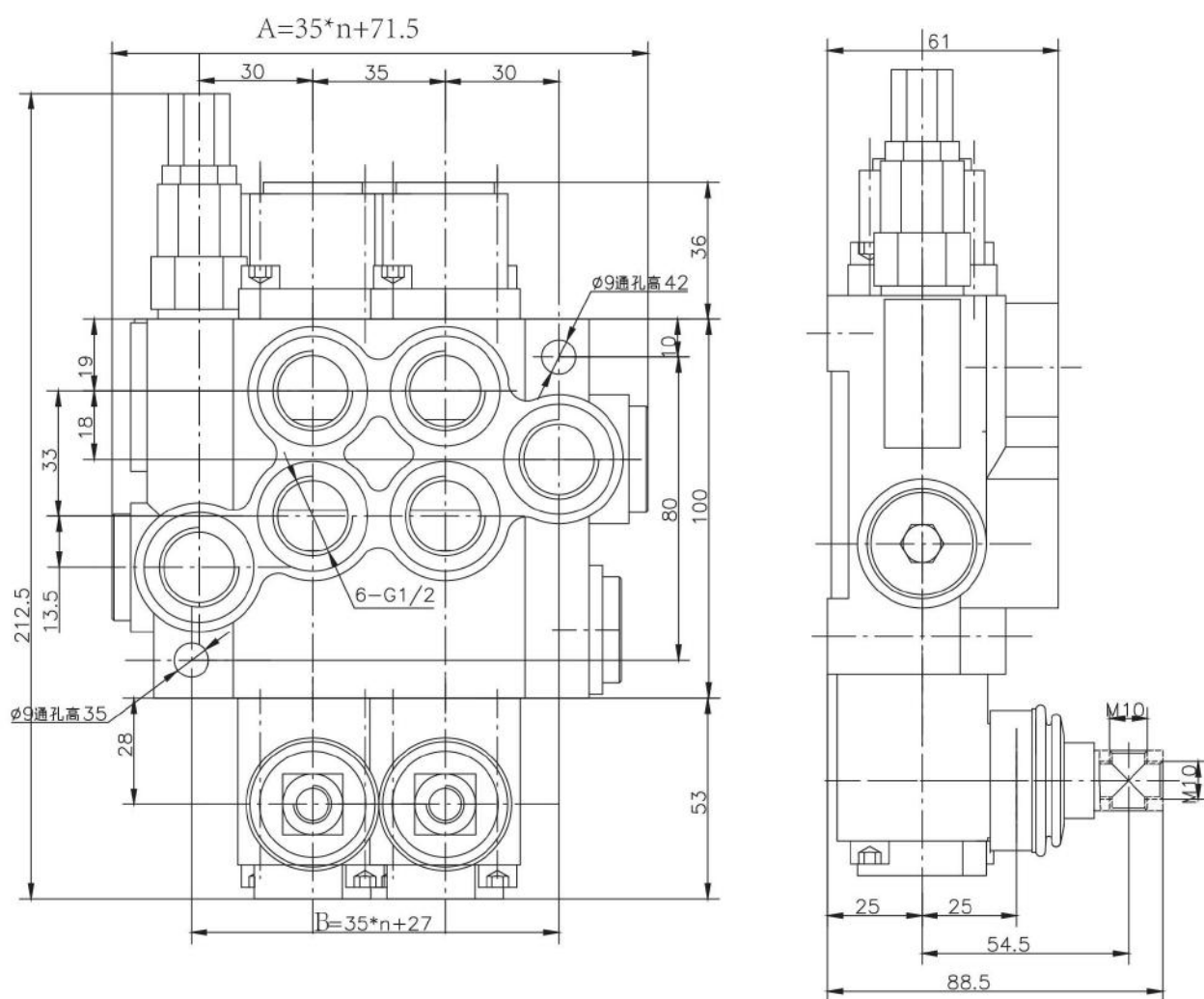
参数 Specifications

额定流量 Nominal flow rate		40 L/min	10.6 US GPM
最大工作压力 Operating pressure (max)		250 bar	3626 psi
工作粘度范围 operating range		15 ~ 75 mm ² /s	15 ~ 75 cst
粘度 Viscosity	最小 min	12 mm ² /s	12 cst
	最大 max	400 mm ² /s	400 cst
环境温度 Ambient temperature range		-40° ~ 80°C	-40° ~ 176°F
结构 Structure	整体式: 1~7 联 monoblock: 1~7 sections		

P40 整体式多路换向阀

Monoblock Directional Control Valve

外观尺寸图 Dimension



P80 整体式多路换向阀

Monoblock Directional Control Valve



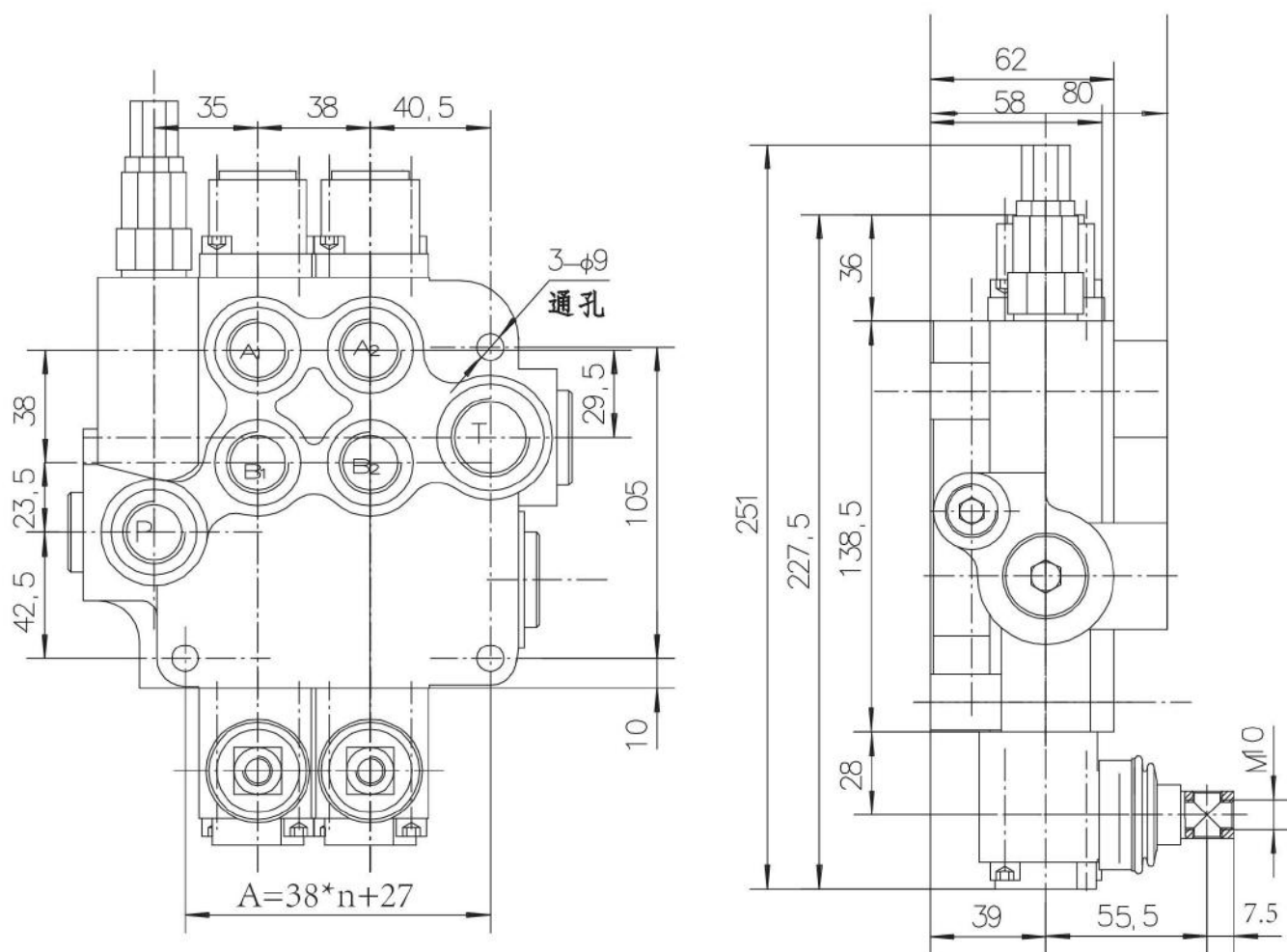
参数 Specifications

额定流量 Nominal flow rate		80 L/min	21 US GPM
最大工作压力 Operating pressure (max)		250 bar	3626 psi
工作粘度范围 operating range		15 ~ 75 mm ² /s	15 ~ 75 cst
粘度 Viscosity	最小 min	12 mm ² /s	12 cst
	最大 max	400 mm ² /s	400 cst
环境温度 Ambient temperature range		-40° ~ 80°C	-40° ~ 176°F
结构 Structure	整体式: 1~7 联 monoblock: 1~7 sections		

P80 整体式多路换向阀

Monoblock Directional Control Valve

外观尺寸图 Dimension





HDCF系列多路换向阀
HDCF Series Directional Control Valve

HDCF系列电磁多路换向阀由我司单独研发，内置单向液压锁。
可应用于农业机械，环卫车辆，工程机械等的液压系统

HDCF series valve is developed independently by BXHS, it can be used in agricultural, sanitation, and construction machines, with a built-in single direction lock and anti-pollution direct-action relief valve.



参数 Specifications

型号 Model	HDCF 50
公称通径 Nom. Dia.	6mm
额定流量 Rated flow	40 L/min
工作压力 Working pressure	20Mpa
许用背压 Allowed back pressure	3Mpa
工作油温 Oil Temp.	-20~80℃

订货编号 Ordering code

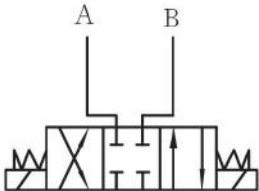
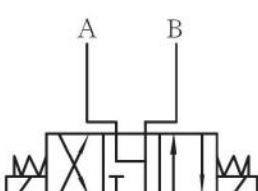
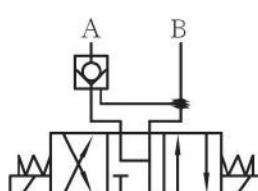
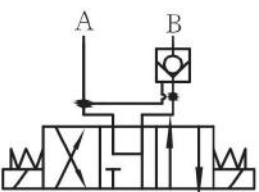
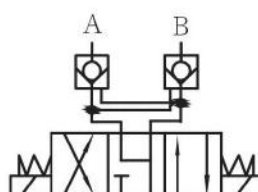
HDCF 50- X - X X - X X - X X ... - X X X
 ① ② ③④ ⑤⑥ ⑤⑥ ⑦⑧⑨

- ① 额定流量 Rated flow : 50L/min
- ② 联数 Number of spools: 1-12
- ③ 进油口尺寸 Inlet port size :见表(1) see table (1)
- ④ 安全阀设定压力 Relief valve set pressure: 150-250 bar
- ⑤ 滑阀机能 Spools type: 见表(2) see table (2)
- ⑥ 工作油口尺寸 Work port size: 见表 (1) see table (1)
- ⑦ 电磁线圈类型 Solenoid type: 见表 (3) see table (3)
- ⑧ 控制电压 Voltage: 12V, 24V
- ⑨ 出油口尺寸 Outlet port size: 见表(1) see table (1)

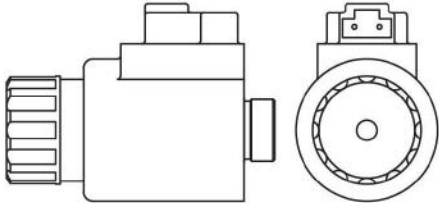
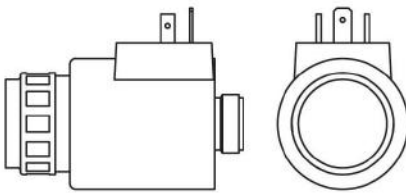
•表(1) Table (1)

BSP螺纹 BSP thread		公制螺纹 Metric thread		美标UNF螺纹 US standard UNF thread		美标NTP螺纹 US standard NTP thread	
代号 Code	螺纹尺寸 Thread size	代号 Code	螺纹尺寸 Thread size	代号 Code	螺纹尺寸 Thread size	代号 Code	螺纹尺寸 Thread size
G06	G3/8	M18	M18X1.5	U10	5/8-18UNF	N06	NPT3/8
G08	G1/2					N08	NPT1/2

•表(2) Table (2)

代号 Code	阀杆机能 Description	代号 Code	阀杆机能 Description	代号 Code	阀杆机能 Description
O		Y		YSA	
YSB		YS2			

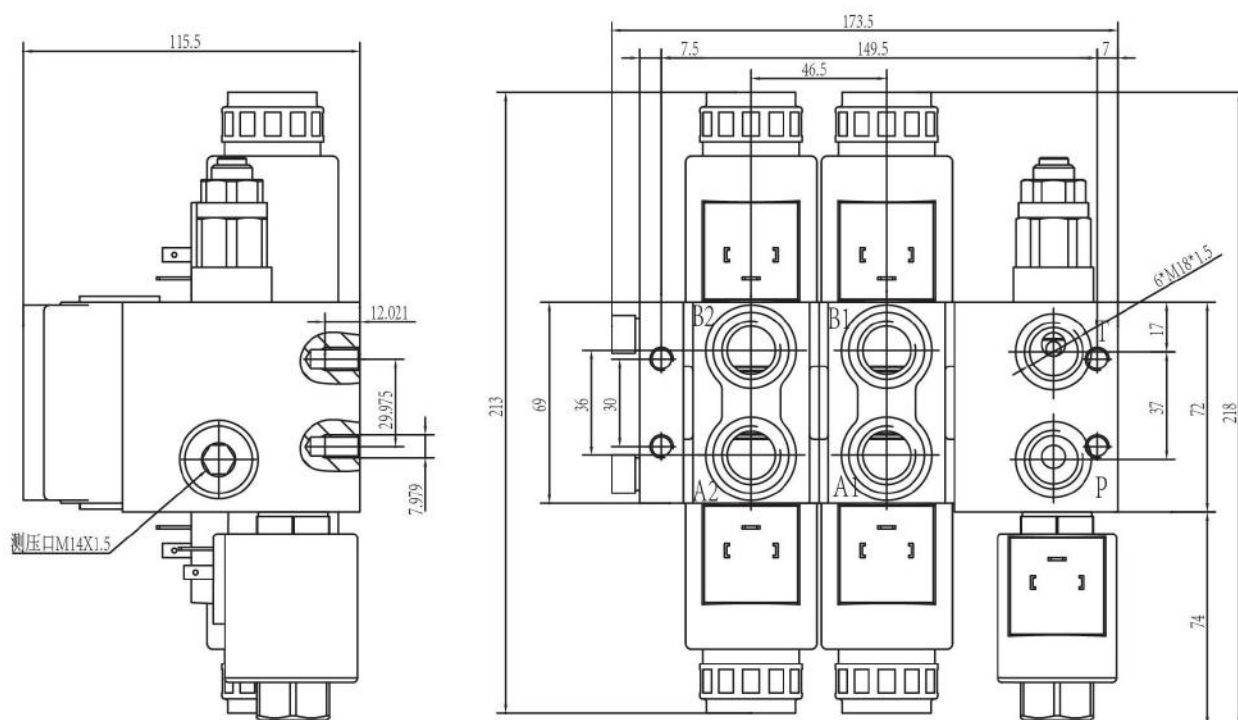
•表(3) Table (3)

代号 Code	电磁线圈接头 Solenoid type	描述 Description
S1		2插头, 防水 2 pin water-proof
S2		3 插头 3 pin

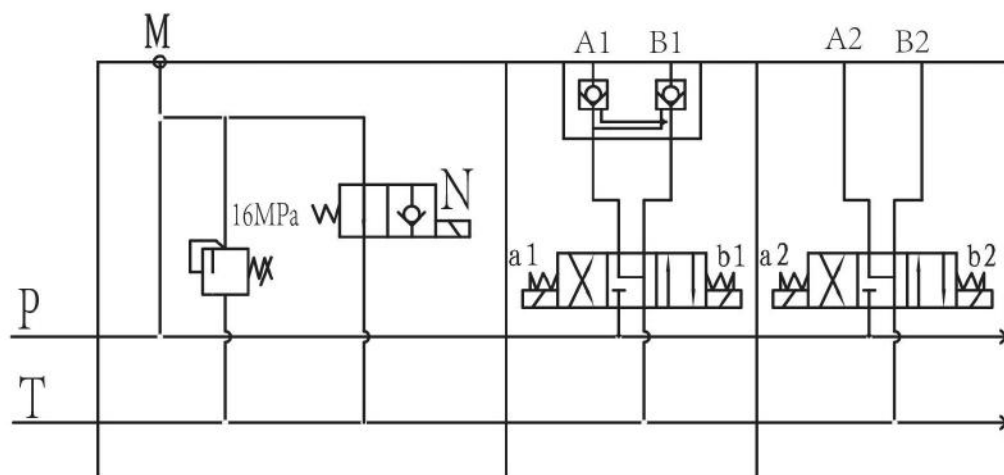
HDCF50分片式多路换向阀

HDCF solenoid directional valve

外观尺寸图 Dimension



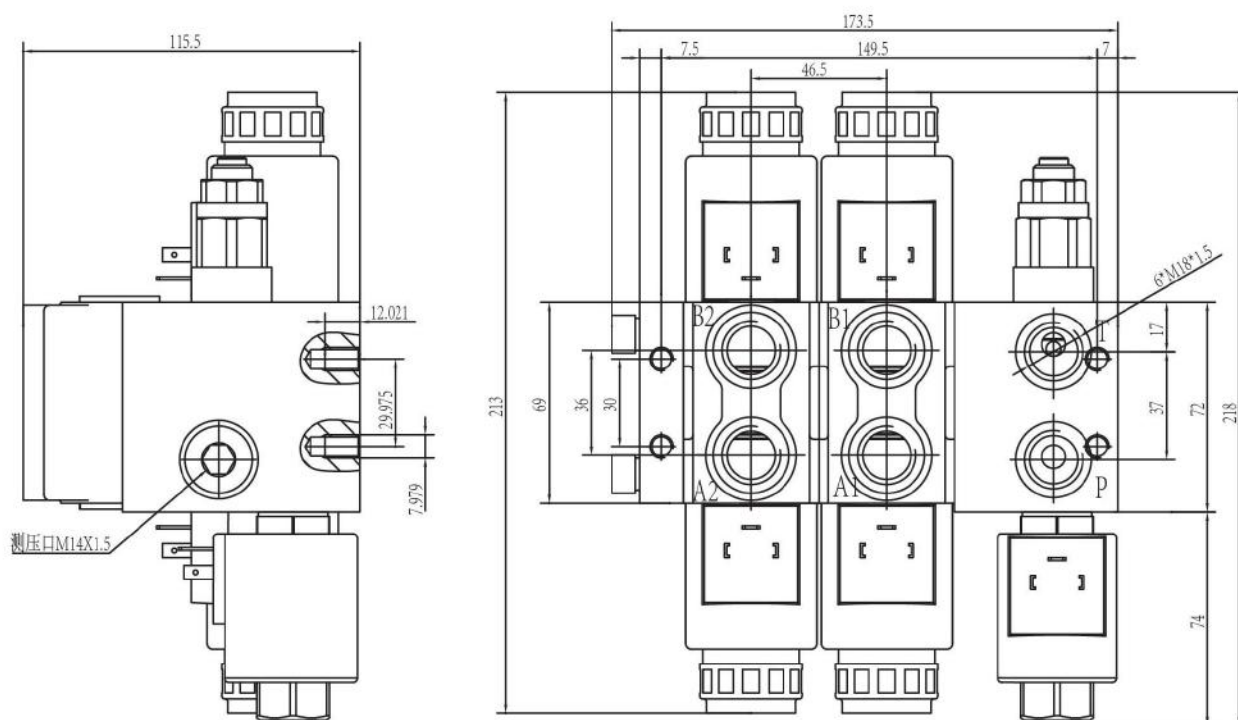
液压原理图 Hydraulic schema



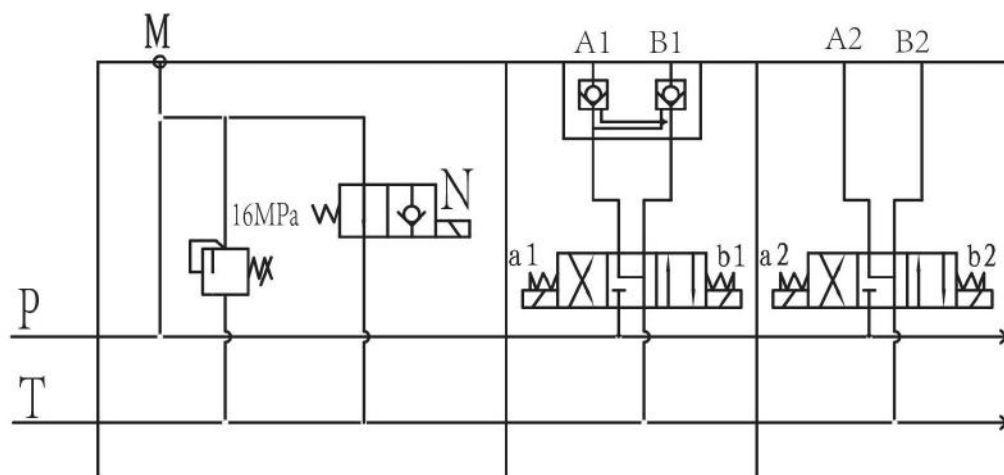
HDCF50分片式多路换向阀

HDCF solenoid directional valve

外观尺寸图 Dimension



液压原理图 Hydraulic schema





HSV系列多路换向阀

HSV Series Directional Control Valve

HSV6系列选流阀可以实现在不同流量压力的油路之间切换。可以连接多路换向阀，从而把油路输入或者输出到不同设备。还可以连接油泵，把液压油引向2个不同油路。

HSV6 series selector valve is capable of switching from one circuit to another at a variety of flows and pressures. It can be connectd to the service ports of a directional control valve and used to direct service line flow to and from either of two separate devices. It can also be connected to a pump and direct the flow to either one of two different circuits.

- ☆ 可并联，最多3联（A,B型）
Stack up to 3 sections (A,B type)
- ☆ 12V/24V直流可选
12V/24V DC optional
- ☆ 3插头、防水2插头可选
3-pin or 2-pin water-proof plug optional



参 数 Specifications

最大流量 Max flow	50L/min
公称压力 Rated pressure	25Mpa
油温范围 Oil temp range	-20~80℃

• 订货编号 | Ordering code

HSV6- X - X - X - X

① ② ③ ④ ⑤

- ①系列号 Series code
- ②A,B,C型号 Model type
- ③ 联数 Number of sections: 1-3 (并联仅适用于A,B型 Model A,B available for stack)
- ④油口尺寸 Oil port size: 见表1 see table (1)
- ⑤电磁接头类型 Solenoid type: 见表2 see table (2)

• 表(1) Table (1)

代 号 Code	螺纹尺寸 Port thread size
P1	G1/2
P2	G3/8
P3	7/8-14UNF

HSGK 剪叉式高空作业车电磁控制阀

HSGK solenoid valve for Electric Scissor Lifts

HSGK系列专用于剪叉式高空作业平台，具有结构紧凑，安装方便，高安全性的特点。HSGK阀将举升功能与行走功能互锁，提高使用安全性；转向与行走的流量分配采用定压差阀控制，使整车具有良好的动作协调性；集成可调节平衡阀，克服了坡道驻车后启动溜车及下坡行走不顺畅的缺陷。HSGK阀具有快慢速切换功能，方便用户选择。

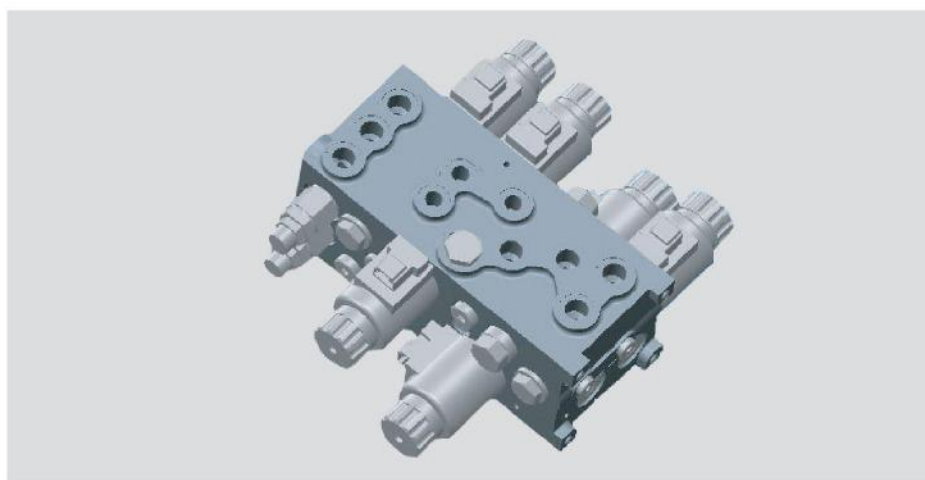
HSGK series solenoid valve is specially designed for electric scissor lifts, with the features of compact structure, easy to install and high safety. Lifting function and walking function are separately arranged to ensure safety. Constant pressure difference valve controls the flow distribution to steering and walking, the action coordination is well ensured. A built-in adjustable counterbalance valve prevents the defect of un-smooth during start or down hill. A fast/slow switch is also include.

☆ 12V/24V直流可选

☆ 12V/24V DC optional

☆ 3插头、防水2插头可选

☆ 3-pin or 2-pin water-proof plug optional

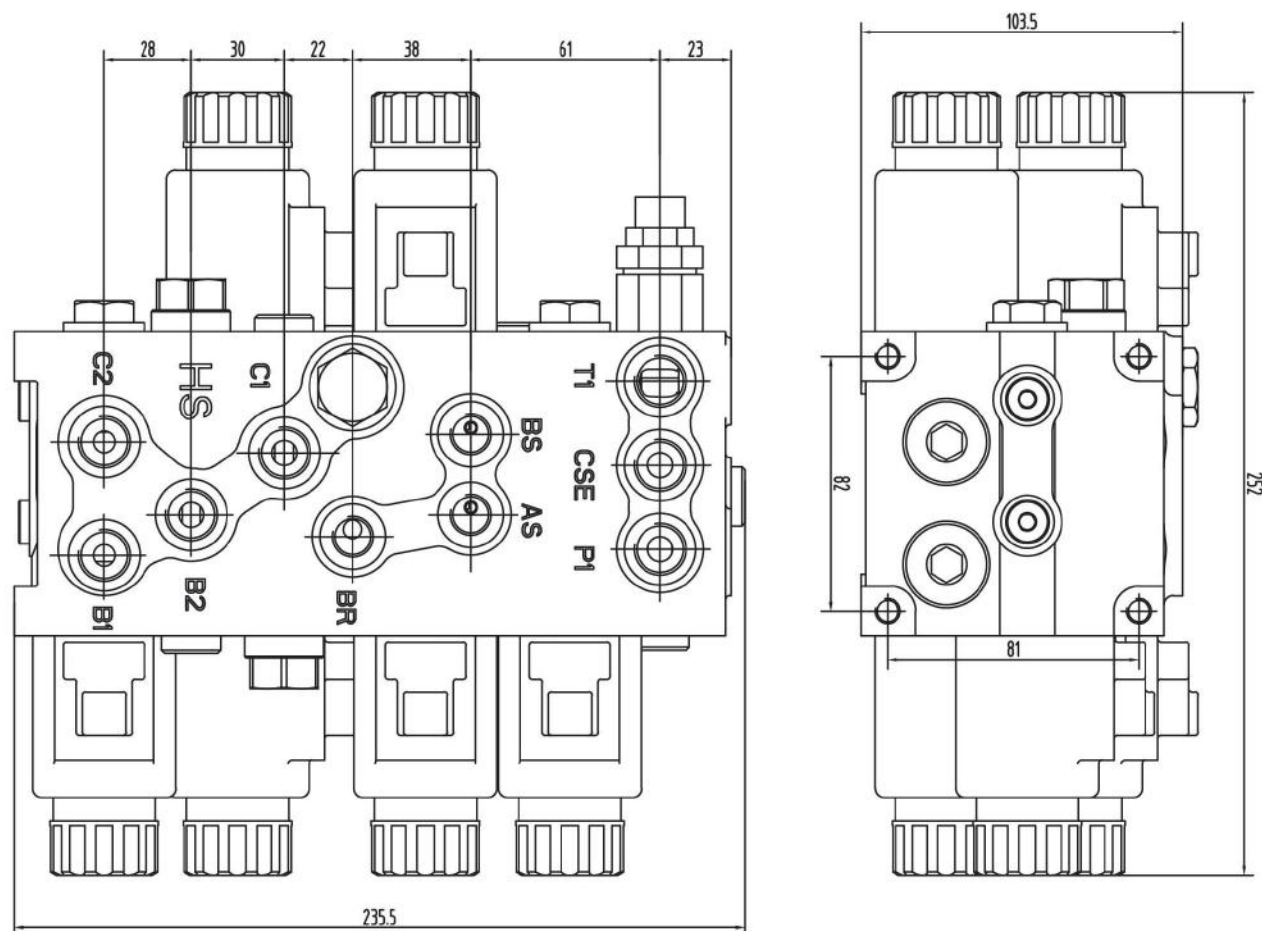


参数 Specifications

最大流量 Max flow	40L/min
公称压力 Rated pressure	24Mpa
油温范围 Oil temp range	-20~80℃

HSGK 剪叉式高空作业车电磁控制阀 HSGK solenoid valve for Electric Scissor Lifts

外形图 Dimension





ZT系列多路换向阀

ZT Series Directional Control Valve

ZT12是一种用途广泛的中压力整体式多路换向阀

ZT12 is an economical monoblock valve with wide application and middle range working pressure.

☆ 内置单向阀，防止液压油回流

Built-in check valve: to prevent oil from backflow

☆ 控制方式有手控，软轴，一控二等

Control type: manual, joystick, cable, etc.

☆ 结构：整体式1-7联

Monoblock structure, 1-7 sections



参数 Specifications

型号 Model	ZT12
额定流量 Rated flow	40L/min
工作压力 Working pressure	20Mpa
公称通径 Nom. Dia.	12mm

• 订货编号 | Ordering code

ZT 12 - X - X - X - X X X - X X X ... - X - X

① ② ③ ④ ⑤ ⑥ ⑦ ⑤ ⑥ ⑦ ⑧ ⑨

① 公称通径 Nom. diameter: 12

② 联数 Number of sections: 1-7

③ 安全阀设定压力 Relief valve set pressure: 150-250 bar

④ 进油口尺寸 Oil port size: 见表 (1) see table (1)

⑤ 控制方式 Control type: S(手控 manual), J(一控二 joystick), C(软轴 Cable)

⑥ 滑阀机能 Spool type: 见表(2) See table (2)

⑦ 阀杆复位形式 Spool return type: 见表(3) See table (3)

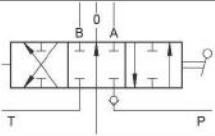
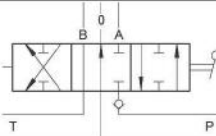
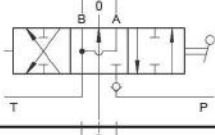
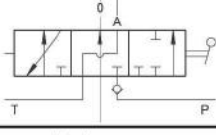
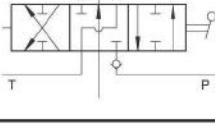
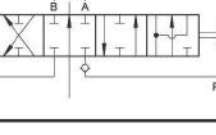
⑧ 工作油口尺寸 Work port size: 见表(1) See table (1)

⑨ 回油口尺寸 Outlet port size: 见表(1) See table (1)

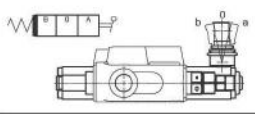
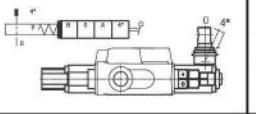
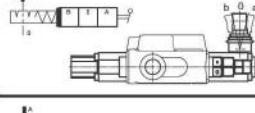
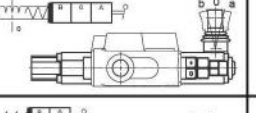
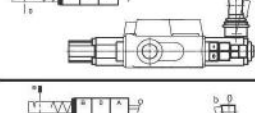
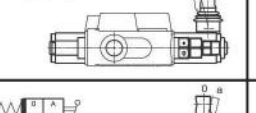
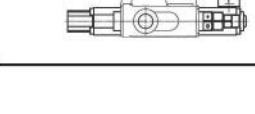
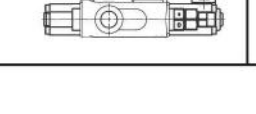
表(1) Table (1)

BSP螺纹 BSP thread		公制螺纹 Metric thread		美标UNF螺纹 US standard UNF thread		美标NTP螺纹 US standard NTP thread	
代号 Code	螺纹尺寸 Thread size	代号 Code	螺纹尺寸 Thread size	代号 Code	螺纹尺寸 Thread size	代号 Code	螺纹尺寸 Thread size
G06	G3/8	M16	M16X1.5	U10	5/8-18UNF	N06	NPT3/8
G08	G1/2	M18	M18X1.5	U12	3/4-16UNF	N08	NPT1/2
		M20	M20X1.5	U16	1-12UNF	N12	NPT3/4
		M22	M22X1.5				

表(2) Table (2)

代号 Code	阀杆类型 Spool type	描述 Description	代号 Code	阀杆类型 Spool type	描述 Description
ST1		3位, 双动作 3 positions, double acting	ST4		3位, 双动作, B口打开, A堵死 3 positions, double acting, B open, A blocked
ST2		3位, 双动作, A, B打开 3 positions, double acting, A & B open	ST5		3位, 单动作, B打开 3 positions, single acting in A, A open
ST3		3位, 双动作, A口打开, B堵死 3 positions, double acting, A open, B blocked	ST6		4位, 双动作, 第4位浮动 4 positions, double acting with 4th floating position

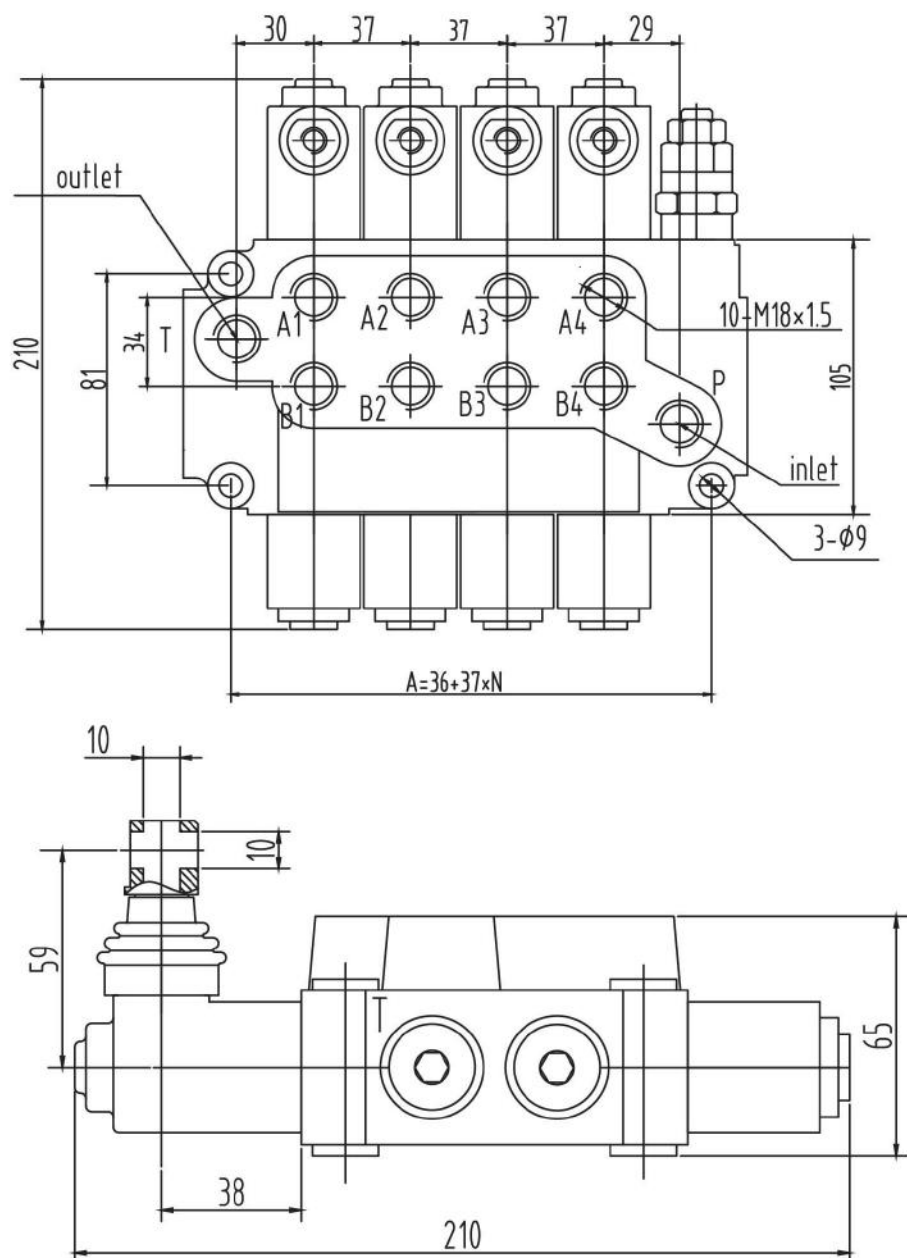
表(3) Table (3)

代号 Code	类型 Type	描述 Description	代号 Code	类型 Type	描述 Description
D1		3 位, 弹簧复位 3 positions, spring return	D5		4 位, 弹簧复位, 第4位定位 4 positions, spring return, detent in 4th position
D2		3 位, 弹簧复位, AB定位 3 positions, spring return, detent in a and b	D6		3 位, 弹簧复位, AB0定位 3 positions, spring return, detent in 0, a & b
D3		3 位, 弹簧复位, A定位 3 positions, spring return, detent in a	D7		2 位(0, b), 弹簧复位 2 positions(0, b), spring return
D4		3 位, 弹簧复位, B定位 3 positions, spring return, detent in b	D8		2 位(0, a), 弹簧复位 2 positions(0, a), spring return

ZT12 整体式多路换向阀

Monoblock Directional Control Valve

外观尺寸图 Dimension





CDB系列多路换向阀

CDB Series Directional Control Valve

CDB15系列多路阀内置了稳流阀，可以为转向系统提供稳定的流量。具有功能全、性能稳定、结构紧凑、易于维护等特点，适用于小吨位叉车、装载机、挖掘机、环卫机械等的液压系统中。

CDB15 series valve has a built-in flow steady valve to supply constant flow for steering function. Designed for small forklift, loader, excavator and sanitation machines.

- ☆ 内置稳流阀，为转向系统提供稳定流量
Built-in flow steady valve
- ☆ 每一联内置单向阀，防止倒流
Check valve in each section to prevent back-flow
- ☆ 带有阀杆自锁功能，防止门架倾斜时的振动，并可防止熄火后叉车门架倾斜造成安全隐患
Spool auto lock to ensure safety after power off
- ☆ 选装阀：工作油片可选装过载阀、补油阀
Secondary auxiliary valve for work section
- ☆ 结构：分片式，1-10联
Structure: sectional 1-10 sections
- ☆ 阀杆类型：A,O,Y,Q等可选
Spool type: A,O,Y,Q,etc



参数 Specifications

公称流量 Rated flow	80L/min
公称压力 Rated pressure	20Mpa
公称通径 Nom. Diameter	15mm
分流流量 Dividing flow.	8~12L/min
分流安全阀压力 Dividing flow valve pressure	9Mpa

• 订货编号 | Ordering code

CDB - F 15 - X X X X - X X X X - - X - X X

① ② ③ ④ ⑤ ⑥ ⑦ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

① CDB 系列series

② 压力等级Pressure grade F:20mpa

③ 公称通径Nom. diameter: 15

④ 滑阀机能Spool type: 见表 (1)see table (1)

⑤ 选装阀Auxiliary valve: 见表 (2)see table (2)

⑥ 选装过载阀设定压力Auxiliary overload valve pressure: 150-200 bar

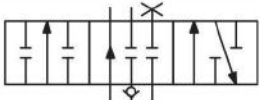
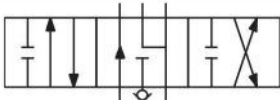
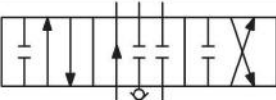
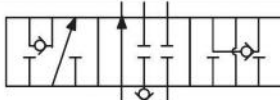
⑦ 阀杆复位形式Spool return type: 见表 (3)see table (3)

⑧ 分流流量Dividing flow: 8-16

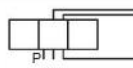
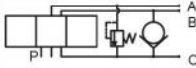
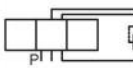
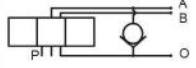
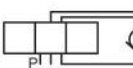
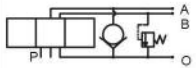
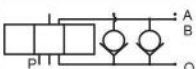
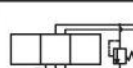
⑨ P,T 油口尺寸port size: 见表 (4)see table (4)

⑩ A,B 油口尺寸: 见表 (4)see table (4)

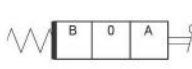
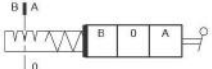
表(1) Table (1)

滑阀机能 Spool Type	代号 Code	机能符号 Symbo	滑阀机能 Spool Type	代号 Code	机能符号 Symbo
A	A		Y	Y	
O	O		M	M	

表(2) Table (2)

代 号 Code	液压符号 Symbol	辅助阀 Auxiliary valve		代 号 Code	液压符号 Symbol	辅助阀 Auxiliary valve	
		A port	B port			A port	B port
N/A		无 no	无 no	5		过载阀 overload valve	补油阀 anti-cavitation valve
1		无 no	过载阀 overload valve	6		补油阀 anti-cavitation valve	无 no
2		无 no	补油阀 anti-cavitation valve	7		补油阀 anti-cavitation valve	过载阀 overload valve
3		过载阀 overload valve	无 no	8		补油阀 anti-cavitation valve	补油阀 anti-cavitation valve
4		过载阀 overload valve	过载阀 overload valve				

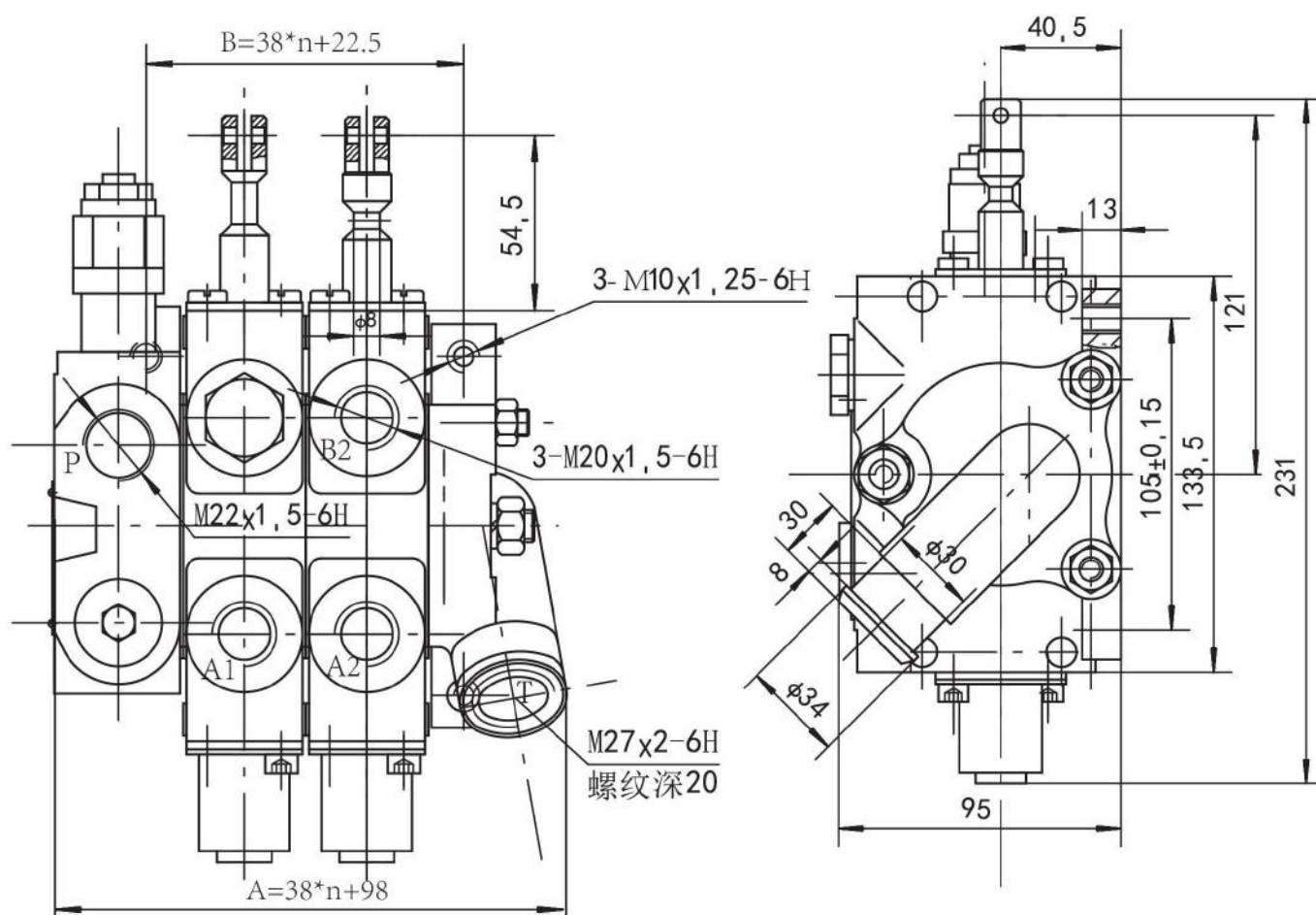
表(3) Table (3)

代 号 Code	阀杆复位方式 Spool return type	液压符号 Symbol	代 号 Code	阀杆复位方式 Spool return type	液压符号 Symbol
T1	3位弹簧复位 3 positions, spring return		W1	3位全钢球定位 3 positions, all detent	
T2	3位弹簧复位, 第4位钢球定位 4 positions, 1-3 spring return, 4th detent		S	4位全钢球定位 4 positions, all detent	

•表(4) Table (4)

代号 Code	油口 Port 尺寸 Size	A, B	P, T
M18	M18*1.5	√	
M20	M20*1.5	√	
M22	M22*1.5		√
G06	G3/8	√	√
G08	G1/2	√	√

外观尺寸图 Dimension





DF系列多路换向阀

DF Series Directional Control Valve

DF 系列多路换向阀可广泛应用于农业机械，具有压力损失低、可靠性高、便于安装和维护等特点。

DF series directional control valve is specially designed for agricultural machines, with the features of low pressure-loss, high reliability, easy to install and maintain.

- ☆ 每一联带单双向调节阀，可用于连接单/双向油缸

Single/double acting switch in each work section, available to connect single or double acting cylinder.

- ☆ 每一联内置单向阀

Single direction valve in each work section.

- ☆ 多种阀杆类型，可以连接油缸、马达等

Multiple spool type for cylinder, motor, etc.

- ☆ 结构：DF50整体式：1-3联

DF80整体式：3联，分片式：1-10联

Structure: DF50: monoblock: 1-3 sections,

DF80: monoblock: 3 sections, sectional: 1-10 sections



参数 Specifications

型号 Model	DF50	DF80
流量 flow	50L/min	80L/min
公称压力 Rated pressure	16Mpa	16Mpa
最大压力 Max pressure.	20Mpa	20Mpa

订货编号 | Ordering code

$\overline{\text{DF}}$ $\overline{\text{X}}$ $\overline{\text{XX}}$ - $\overline{\text{X}}$ $\overline{\text{X}}$ - $\overline{\text{X}}$ $\overline{\text{X}}$ - - $\overline{\text{X}}$ $\overline{\text{X}}$
 ① ② ③ ④ ⑤ ④ ⑤ ⑥ ⑦

①DF 系列 Series code

②联数 Number of sections

③流量 Flow : 50, 80

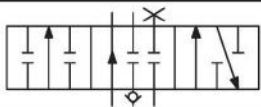
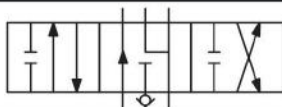
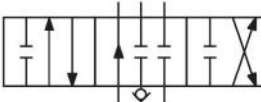
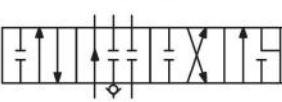
④滑阀机能 Spool type: 见表 (1) see table (1)

⑤阀杆复位形式 Spool return type: 见表 (2) see table (2)

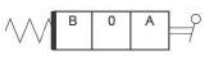
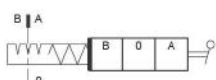
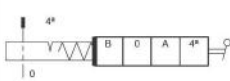
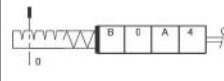
⑥P,T 油口尺寸 P,T port size: 见表 (3) see table (3)

⑦A,B 油口尺寸 A,B port size: 见表 (3) see table (3)

表(1) Table (1)

滑阀机能 Spool Type	代号 Code	机能符号 Symbo	滑阀机能 Spool Type	代号 Code	机能符号 Symbo
A	A		Y	Y	
O	O		Q	Q	

表(2) Table (2)

代 号 Code	阀杆复位方式 Spool return type	液压符号 Symbol	代 号 Code	阀杆复位方式 Spool return type	液压符号 Symbol
T1	3位弹簧复位 3 positions, spring return		W1	3位全钢球定位 3 positions, all detent	
T2	3位弹簧复位, 第4位钢球定位 4 positions, 1-3 spring return, 4th detent		S	4位全钢球定位 4 positions, all detent	

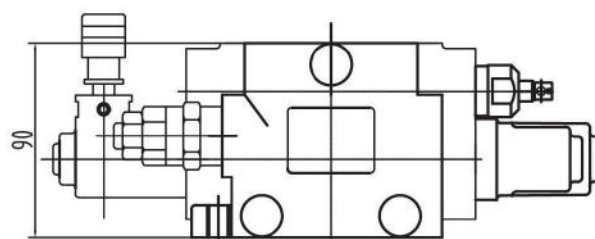
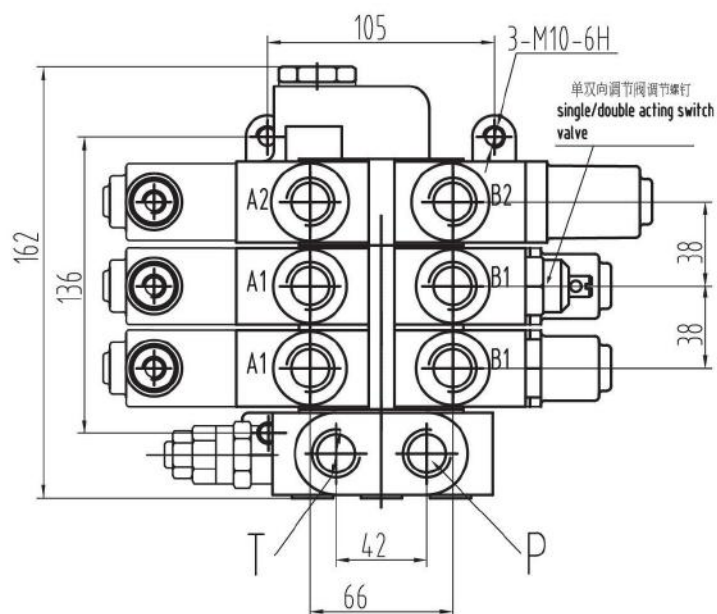
表(3) Table (3)

代号 Code	油口 Port 尺寸 Size	DF50		DF80		
		A,B	P,T	A,B	P	T
M18	M18*1.5	√				
M20	M20*1.5	√				
M22	M22*1.5		√	√		
M27	M27*2				√	
M06	G3/8					√
G08	G1/2	√	√	√		
G12	G3/4				√	√

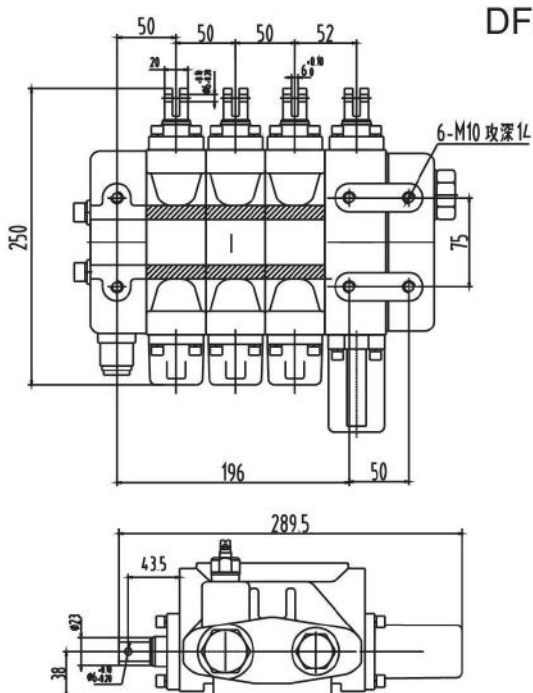
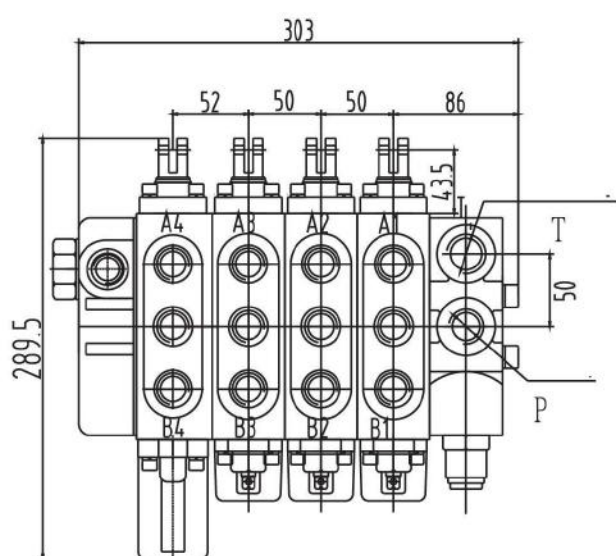
DF 多路换向阀 Directional Control Valve

外观尺寸图 Dimension

DF50



DF80





DFS系列多路换向阀

DFS Series Directional Control Valve

DFS 系列是一种由我司特别设计的多路换向阀，在DF的基础上增加了内置液压锁，有效防止了在升举动作中的静沉降问题。

DFS series directional control valve is a special model designed by Boxinhuasheng, it has a built-in single direction valve to prevent the static back flow of lift movement.

☆ 内置液压锁防止静沉降

Built-in single direction valve to prevent static drop

☆ 每一联带单双向调节阀，可用于连接单/双向油缸

Single/double acting switch in each work section, available to connect single or double acting cylinder.

☆ 每一联内置单向阀

Single direction valve in each work section

☆ 结构：DF50S整体式：1-3联，分片式：1-10联

DF80S整体式：3联，分片式：1-10联

Structure: DF50S: monoblock: 1-3 sections, sectional: 1-10 sections

DF80S: monoblock: 3 sections, sectional: 1-10 sections



参数 Specifications

型号 Model	DF50S	DF80S
流量 flow	50L/min	80L/min
公称压力 Rated pressure	16Mpa	16Mpa
最大压力 Max pressure	20Mpa	20Mpa

订货编号 | Ordering code

DF X XX S - X X - X X - - X X

① ② ③ ④ ⑤ ⑥ ⑤ ⑥ ⑦ ⑧

① DF 系列 Series code

② 联数 Number of sections

③ 流量 Flow: 50, 80

④ S: 液压锁 single direction valve

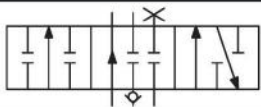
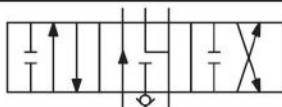
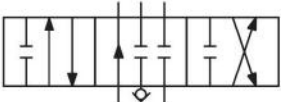
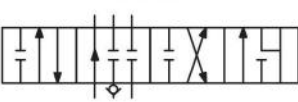
⑤ 滑阀机能 Spool type: 见表 (1) see table (1)

⑥ 阀杆复位形式 Spool return type: 见表 (2) see table (2)

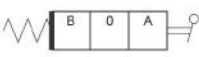
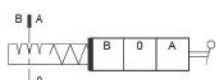
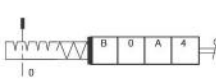
⑦ P,T 油口尺寸 P,T port size: 见表 (3) see table (3)

⑧ A,B 油口尺寸 A,B port size: 见表 (3) see table (3)

表(1) Table (1)

滑阀机能 Spool Type	代号 Code	机能符号 Symbo	滑阀机能 Spool Type	代号 Code	机能符号 Symbo
A	A		Y	Y	
O	O		Q	Q	

表(2) Table (2)

代 号 Code	阀杆复位方式 Spool return type	液压符号 Symbol	代 号 Code	阀杆复位方式 Spool return type	液压符号 Symbol
T1	3位弹簧复位 3 positions, spring return		W1	3位全钢球定位 3 positions, all detent	
T2	3位弹簧复位, 第4位钢球定位 4 positions, 1-3 spring return, 4th detent		S	4位全钢球定位 4 positions, all detent	

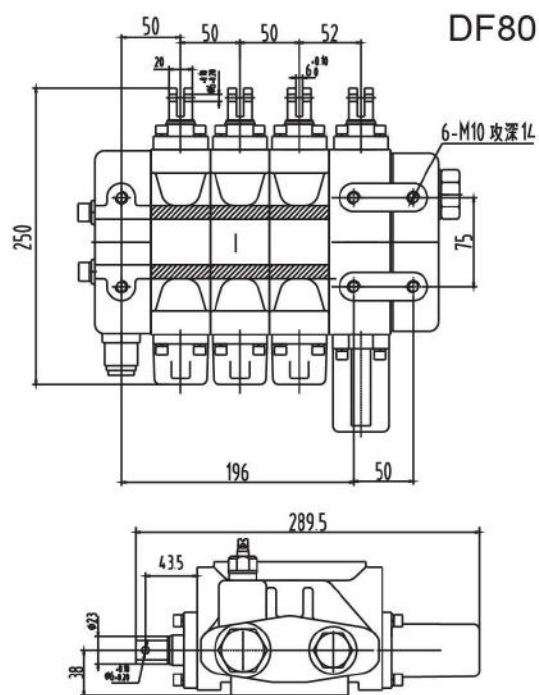
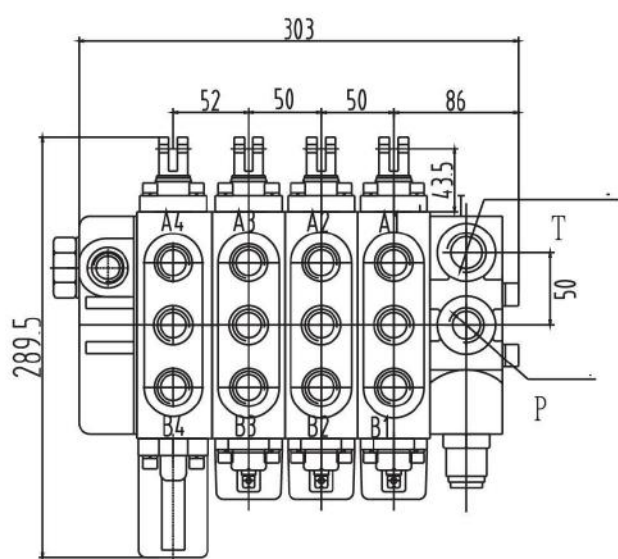
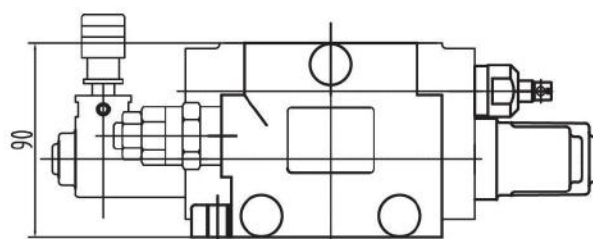
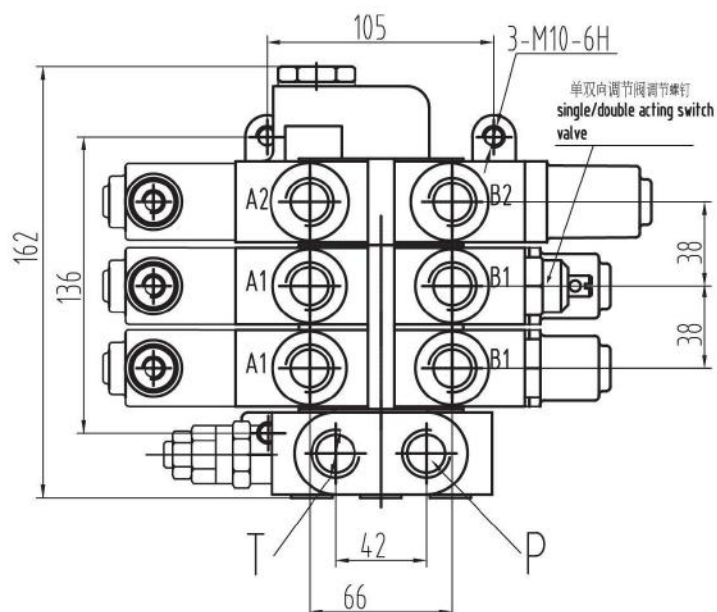
表(3) Table (3)

代号 Code	油口 Port 尺寸 Size	DF50s		DF80s		
		A,B	P,T	A,B	P	T
M18	M18*1.5	√				
M20	M20*1.5	√				
M22	M22*1.5		√	√		
M24	M24*2				√	
M27	M27*2					√
G08	G1/2	√	√	√		
G12	G3/4				√	√

DFS 多路换向阀 Directional Control Valve

外观尺寸图 Dimension

DF50





DL系列多路换向阀

DL Series Directional Control Valve

DL 系列是一种结构紧凑、流量大、低泄露、安全阀性能优良的整体式多路换向阀。可广泛应用于装载机、矿山机械等。

DL series directional control valve is a kind of monoblock valve with the features of compact structure, big flow, low risk of leakage and high performance of relief valve. It is widely used in loader, mining machine, etc.

- ☆ 可选辅助阀：过载阀，补油阀
Auxiliary valve: over-load valve, anti-cavitation valve
- ☆ 每一联内置单向阀
Single direction valve in each work section.
- ☆ 多种阀杆类型，可用于连接油缸、马达等
Multiple spool type for cylinder, motor, etc.
- ☆ 结构：整体式，DL15:1-3联，DL20:2-3联
Structure: monoblock, DL15:1-3 sections, DL20: 2-3 sections



参 数 Specifications

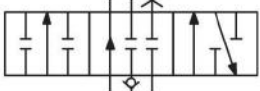
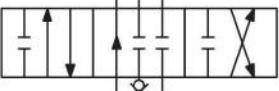
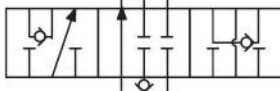
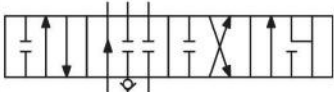
型号 Model	ZL15	ZL20
流量 flow	80L/min	100L/min
公称压力 Rated pressure	16Mpa	16Mpa
最大压力 Max pressure.	20Mpa	20Mpa

• 订货编号 | Ordering code

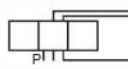
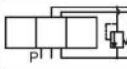
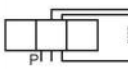
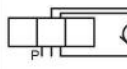
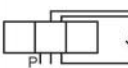
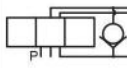
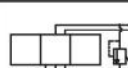
DL XX · X - XXXX - XXXX - -XX
 ① ② ③ ④⑤⑥⑦ ④⑤⑥⑦ ⑧⑨

- ① DL 系列 Series code
- ② 公称通径 Nom. diameter: 15, 20
- ③ 联数 Number of sections
- ④ 阀杆类型 Spool type: 见表 (1) see table (1)
- ⑤ 辅助阀 Auxiliary valve: 见表 (2) see table(2)
- ⑥ 辅助过载阀设定压力 Auxiliary overload valve pressure: 150-200 bar
- ⑦ 阀杆复位形式 Spool return type: 见表 (3) see table (3)
- ⑧ P,T 油口尺寸 P,T port size: 见表 (4) see table (4)
- ⑨ A,B 油口尺寸 A,B port size: 见表 (4) see table (4)

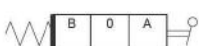
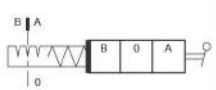
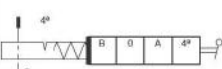
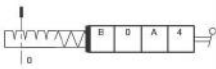
表(1) Table (1)

滑阀机能 Spool Type	代号 Code	机能符号 Symbo	滑阀机能 Spool Type	代号 Code	机能符号 Symbo
A	A		Y	Y	
O	O		M	M	
Q	Q				

表(2) Table (2)

代 号 Code	液压符号 Symbol	辅助阀 Auxiliary valve		代 号 Code	液压符号 Symbol	辅助阀 Auxiliary valve	
		A port	B port			A port	B port
N/A		无 no	无 no	5		过载阀 overload valve	补油阀 anti-cavitation valve
1		无 no	过载阀 overload valve	6		补油阀 anti-cavitation valve	无 no
2		无 no	补油阀 anti-cavitation valve	7		补油阀 anti-cavitation valve	过载阀 overload valve
3		过载阀 overload valve	无 no	8		补油阀 anti-cavitation valve	补油阀 anti-cavitation valve
4		过载阀 overload valve	过载阀 overload valve				

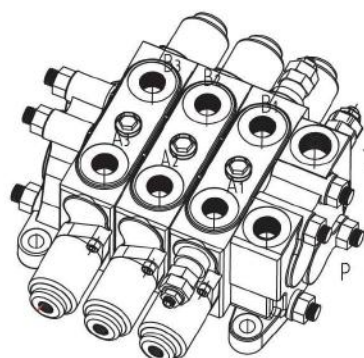
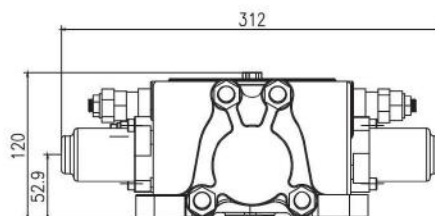
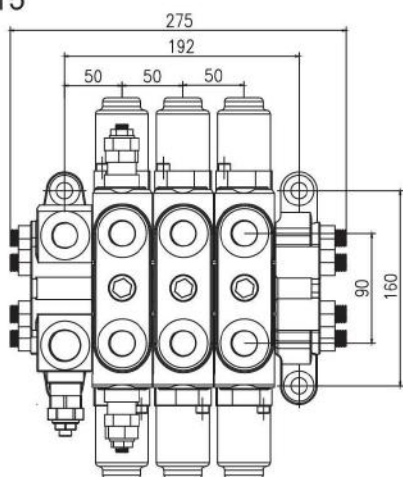
表(3) Table (3)

代 号 Code	阀杆复位方式 Spool return type	液压符号 Symbol	代 号 Code	阀杆复位方式 Spool return type	液压符号 Symbol
T1	3位弹簧复位 3 positions, spring return		W1	3位全钢球定位 3 positions, all detent	
T2	3位弹簧复位, 第4位钢球定位 4 positions, 1-3 spring return, 4th detent		S	4位全钢球定位 4 positions, all detent	

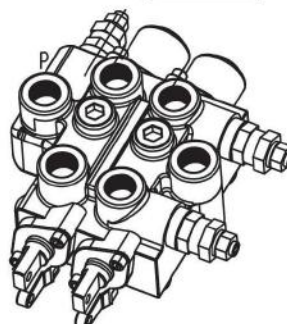
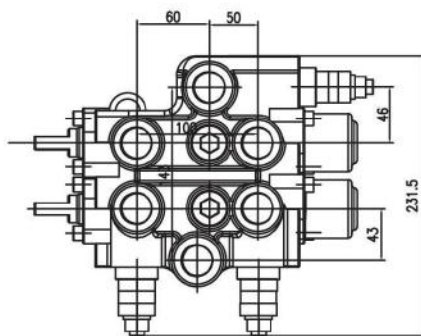
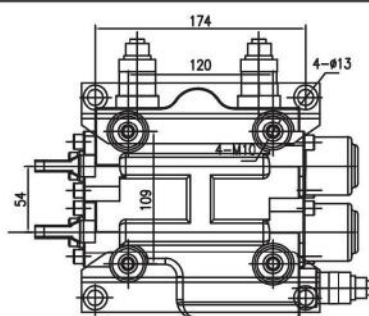
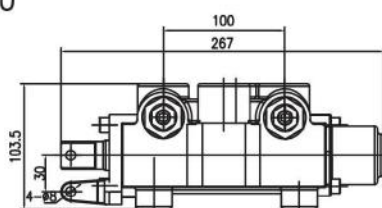
•表(4) Table (4)

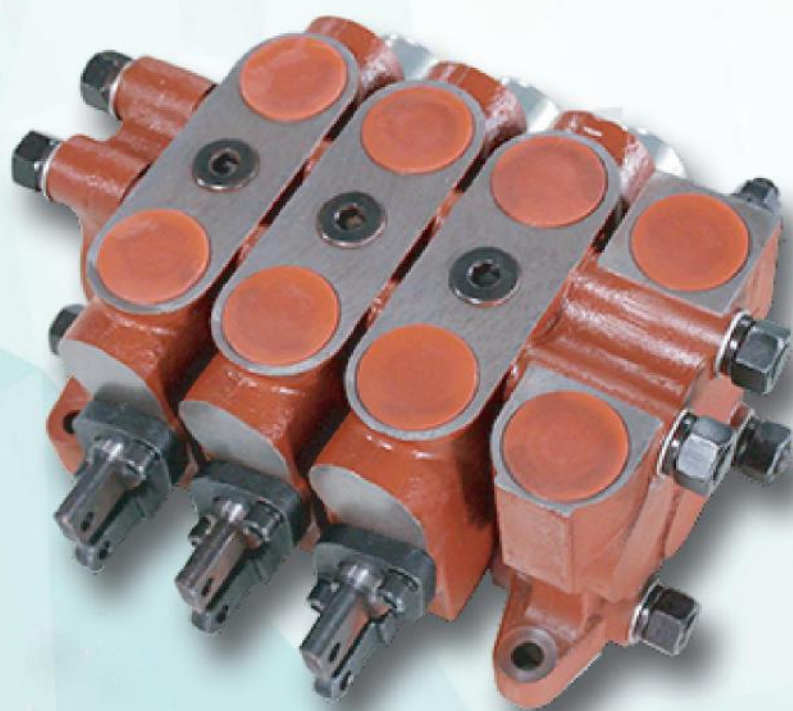
代号 Code	油口 Port 尺寸 Size	DL15		DL20	
		A,B	P,T	A,B	P,T
M22	M22*1.5	√	√		
M27	M27*2		√	√	√
M06	G3/8	√	√		
G08	G1/2	√	√		
G12	G3/4			√	√

外观尺寸图 Dimension
DL15



DL20





ZL系列多路换向阀

ZL Series Directional Control Valve

ZL系列是一种结构紧凑、流量大、低泄露、安全阀性能优良的分片式多路换向阀。可广泛应用于装载机、矿山机械等。

ZL series directional control valve is a kind of sectional valve with the features of compact structure, big flow, low risk of leakage and high performance of relief valve. It is widely used in loader, mining machine, etc.

☆ 可选辅助阀：过载阀，补油阀

Auxiliary valve: over-load valve, anti-cavitation valve

☆ 每一联内置单向阀

Single direction valve in each work section.

☆ 多种阀杆类型，可用于连接油缸、马达等

Multiple spool type for cylinder, motor, etc.

☆ 结构：分片式

Structure: sectional.



参数 Specifications

型号 Model	ZL 15	ZL 20
流量 flow	63L/min	100L/min
公称压力 Rated pressure	16Mpa	16Mpa
最大压力 Max pressure	20Mpa	20Mpa

• 订货编号 | Ordering code

$\overline{\text{ZL}} \overline{\text{XX}} \cdot \overline{\text{X}} - \overline{\text{X}} \overline{\text{X}} \overline{\text{X}} \overline{\text{X}} - \overline{\text{X}} \overline{\text{X}} \overline{\text{X}} \overline{\text{X}} - \dots - \overline{\text{X}} \overline{\text{X}}$
 $\textcircled{1} \quad \textcircled{2} \quad \textcircled{3} \quad \textcircled{4} \textcircled{5} \textcircled{6} \textcircled{7} \quad \textcircled{4} \textcircled{5} \textcircled{6} \textcircled{7} \quad \textcircled{8} \textcircled{9}$

① ZL 系列 Series code

② 公称通径 Nom. diameter : 15, 20

③ 联数 Number of sections

④ 阀杆类型 Spool type: 见表 (1) see table (1)

⑤ 辅助阀 Auxiliary valve: 见表 (2) see table (2)

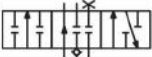
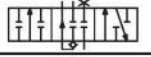
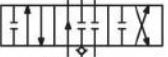
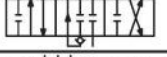
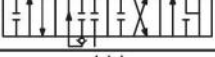
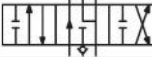
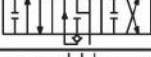
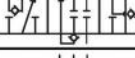
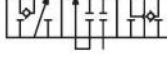
⑥ 辅助过载阀设定压力 Auxiliary overload valve pressure : 150–200 bar

⑦ 阀杆复位形式 Spool return type : 见表 (3) see table (3)

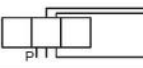
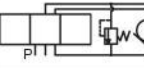
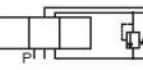
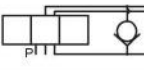
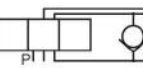
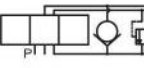
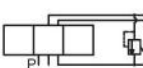
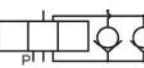
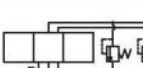
⑧ P,T油口尺寸 P,T port size: 见表 (4) see table (4)

⑨ A,B油口尺寸 A,B port size: 见表 (4) see table (4)

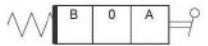
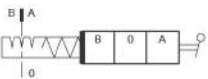
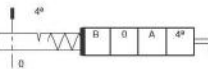
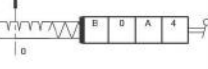
表(1) Table (1)

油路形式 Circuit Type	滑阀机能 Spool Type	代号 Code	机能符号 Symbo	油路形式 Circuit Type	滑阀机能 Spool Type	代号 Code	机能符号 Symbo
并联 油路 parallel circuit	A			串并联 油路 series- parallel circuit	A	A1	
	O				O	O1	
	Q				Q	Q1	
	Y				Y	Y1	
					M	M1	
					K	K1	

表(2) Table (2)

代 号 Code	液压符号 Symbol	辅助阀 Auxiliary valve		代 号 Code	液压符号 Symbol	辅助阀 Auxiliary valve	
		A port	B port			A port	B port
N/A		无 no	无 no	5		过载阀 overload valve	补油阀 anti-cavitation valve
1		无 no	过载阀 overload valve	6		补油阀 anti-cavitation valve	无 no
2		无 no	补油阀 anti-cavitation valve	7		补油阀 anti-cavitation valve	过载阀 overload valve
3		过载阀 overload valve	无 no	8		补油阀 anti-cavitation valve	补油阀 anti-cavitation valve
4		过载阀 overload valve	过载阀 overload valve				

• 表(3) Table (3)

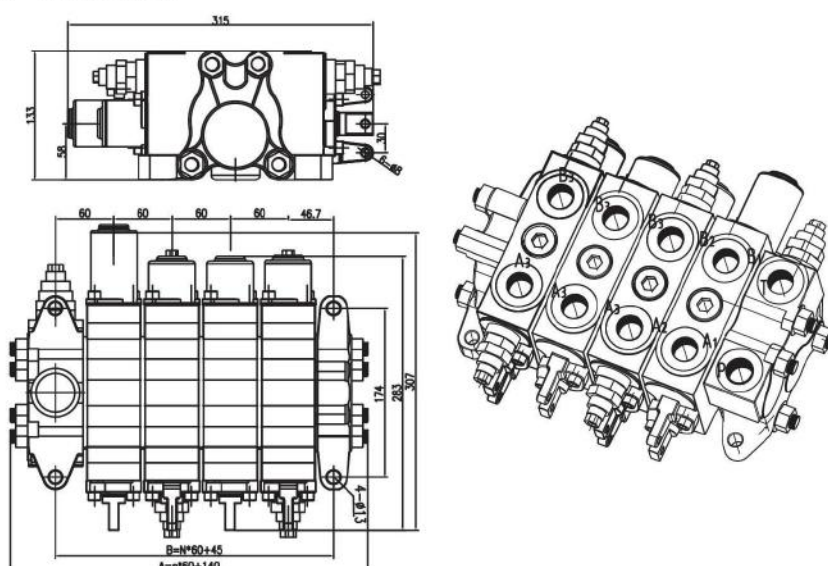
代 号 Code	阀杆复位方式 Spool return type	液压符号 Symbol	代 号 Code	阀杆复位方式 Spool return type	液压符号 Symbol
T1	3位弹簧复位 3 positions, spring return		W1	3位全钢球定位 3 positions, all detent	
T2	3位弹簧复位, 第4位钢球定位 4 positions, 1-3 spring return, 4th detent		S	4位全钢球定位 4 positions, all detent	

•表(4) Table (4)

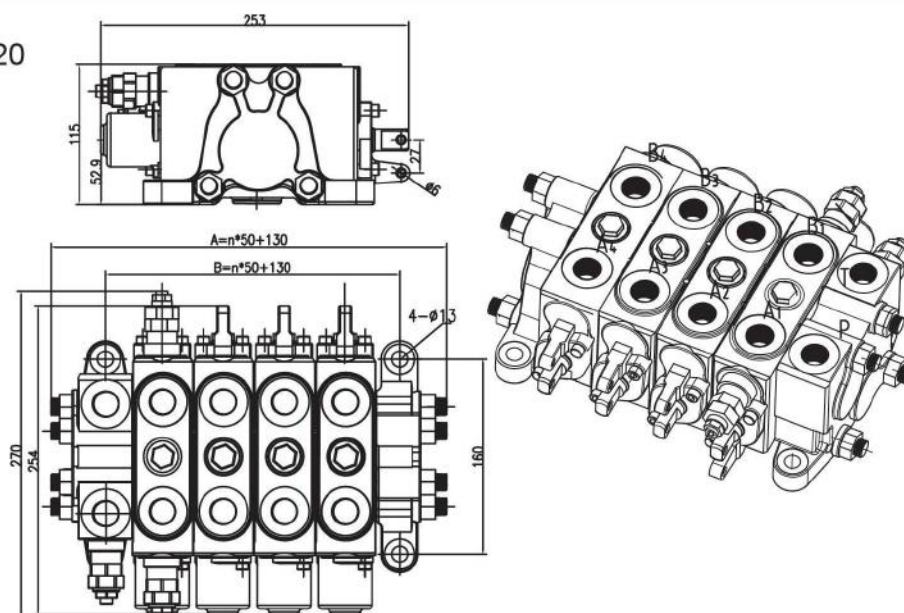
代号 Code	油口 Port 尺寸 Size	ZL15		ZL20	
		A,B	P,T	A,B	P,T
M22	M22*1.5	√	√		
M27	M27*2			√	√
M06	G3/8	√	√		
G08	G1/2	√	√		
G12	G3/4			√	√

外观尺寸图 Dimension

ZL15



ZL20





齿轮油泵
Gear Pump

CBHST1 齿轮油泵

CBHST1 Gear Pump

☆ 高强度铸铁泵体

High strength cast iron body

☆ 高性能密封元件，工作介质温度范围：-20℃~+120℃

High performance sealing, work temp. -20℃~+120℃

☆ 输入轴有2种矩形花键可供选择

Inlet shaft: 2 kinds of rectangle spline

☆ 进、出油口可以选择侧进侧出、侧进后出、后进侧出、后进后出等形式

Inlet/outlet port position: side in side out, side in bottom out, bottom in bottom out, etc.



订货编号 Ordering code

CBHST1 - ** - B L * * *

① ② ③ ④ ⑤ ⑥ ⑦

① 产品代号 Model code

② 公称排量 Nominal displacement (ml/r)

③ 安装形式 Mounting B: 方形法兰 Square flange

④ 油口形式 Joining port L: 螺纹连接 Screw

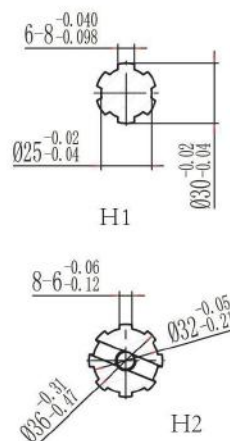
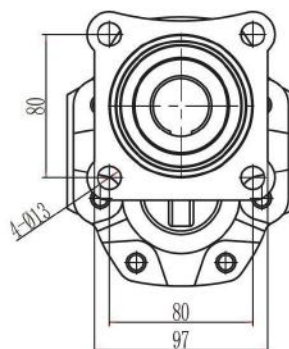
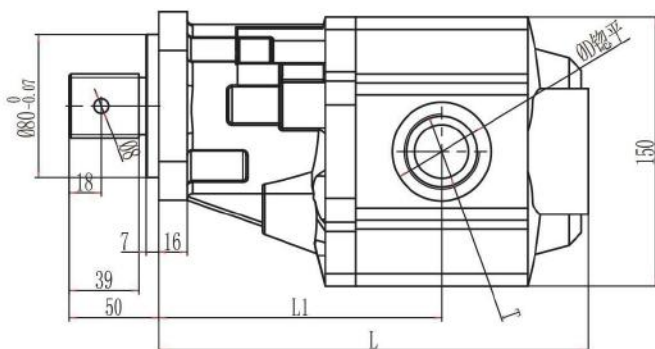
⑤ 轴伸形式 Shaft end 矩形花键 Rectangle spline :

H1: $\Phi 30$, H2: $\Phi 36$

⑥ 旋 向 Rotation L: Left (逆时针 counterclockwise),
R: Right (顺时针 clockwise)

⑦ 油口位置 Port position 1: 侧进侧出 side in side out,
2: 侧进底出 side in bottom out,
3: 底进底出 bottom in bottom out,
4: 底进侧出 bottom in side out

外观尺寸图 Dimension



参 数 Specifications

型号 Model	公称排量 Nom. Displacement (ml/r)	压力 Pressure (mpa)		转速 Speed (r/min)		容积效率 Volumetric efficiency (≥%)	L	L1	油口 Joining port			
		额定 Rated	最高 Max.	额定 Rated	最高 Max.				进油口 Inlet		出油口 Outlet	
									D	T	D	T
CBHST1-80	80	23	25	2000	2500	92	232	150	48	G1	48	G1
CBHST1-100	100						240	158	55	G1¼	55	G1¼

CBHSTL 双联泵 CBHSTL Double Gear Pump

- ☆ 高强度铸铁泵体，后泵采用铝合金泵体
High strength cast iron body, rear pump with aluminium body
- ☆ 高性能密封元件，工作介质温度范围：-20℃~+120℃
High performance sealing, work temp. -20℃~+120℃
- ☆ 输入轴为矩形花键
Inlet shaft: rectangle spline
- ☆ 进、出油口连接形式为螺纹
Inlet/outlet port is screw



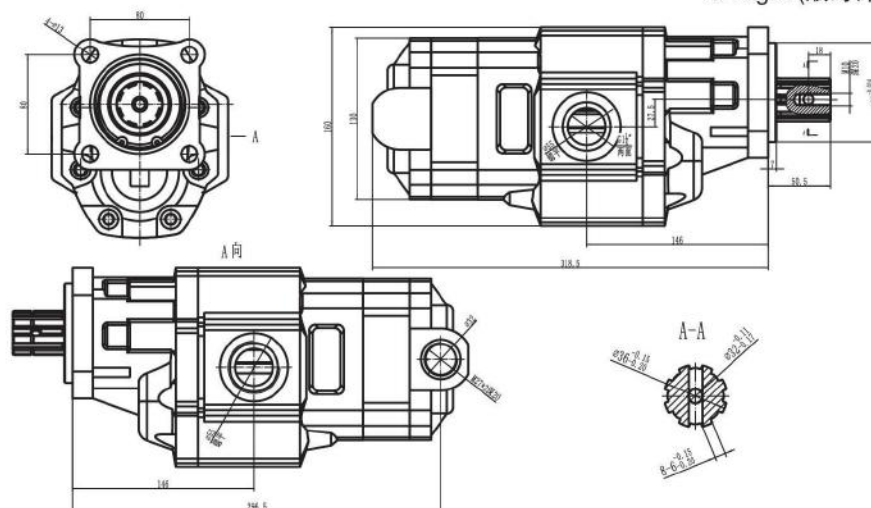
订货编号 Ordering code

CBHSTL - F ** / E ** - B L H *

① ② ③ ② ③ ④ ⑤ ⑥ ⑦

- ① 产品代号 Model code
- ② 前后泵压力等级 Front/rear pump pressure grade
F: 20MPa, E: 16MPa
- ③ 前后泵公称排量 Front/rear nominal displacement (ml/r)
- ④ 安装形式 Mounting B: 方方法兰 Square flange
- ⑤ 油口形式 Joining port L: 螺纹连接 Screw
- ⑥ 轴伸形式 Shaft end H: 矩形花键 Rectangle spline
- ⑦ 旋 向 Rotation L: Left (逆时针 counterclockwise),
R: Right (顺时针 clockwise)

外观尺寸图 Dimension



参 数 Specifications

型号 Model	公称排量 Nom. Displacement (ml/r) 前泵/后泵 Front/rear pump	前泵压力 Front pump pressure (mpa)		后泵压力 Rear pump pressure (mpa)		转速 Speed (r/min)		容积效率 Volumetric efficiency (≥%)
		额定 Rated	最高 Max.	额定 Rated	最高 Max.	额定 Rated	最高 Max.	
CBHSTL-F100/E20	100/20	20	25	16	20	2000	2500	92

CBHST2 齿轮油泵

CBHST2 Gear Pump

- ☆ 高强度铸铁泵体
High strength cast iron body
- ☆ 高性能密封元件，工作介质温度范围：-20℃~+120℃
High performance sealing, work temp. -20℃~+120℃
- ☆ 输入轴为矩形花键
Inlet shaft: rectangle spline
- ☆ 进、出油口为螺纹
Inlet/outlet port is screw



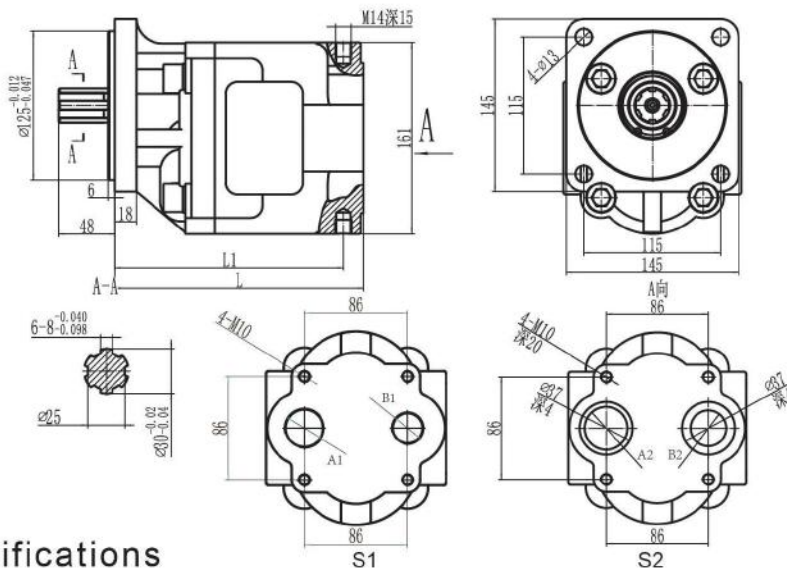
订货编号 Ordering code

CBHST2 - ** - B * H *

① ② ③ ④ ⑤ ⑥

- ① 产品代号 Model code
- ② 公称排量 Nominal displacement (ml/r)
- ③ 安装形式 Mounting B: 方方法兰 Square flange
- ④ 油口形式 Joining port 螺纹连接 Screw S1,S2
(见下图see drawings)
- ⑤ 轴伸形式 Shaft end H: 矩形花键 Rectangle spline
- ⑥ 旋 向 Rotation L: Left (逆时针 counterclockwise),
R: Right (顺时针 clockwise)

外观尺寸图 Dimension



参 数 Specifications

型号 Model	公称排量 Nom. Displacement (ml/r)	压力 Pressure (mpa)		转速 Speed (r/min)		容积效率 Volumetric efficiency (≥%)	L	L1	油口 Joining port			
		额定 Rated	最高 Max.	额定 Rated	最高 Max.				S1型螺纹		S2型螺纹	
									进油口 Inlet: A1	出油口 Inlet: B1	进油口 Inlet: A2	出油口 Inlet: B2
CBHST2-80	80	23	25	2000	2500	92	201	184	M27*2	M33*2	M39*2	M33*2
CBHST2-100	100						209	192				

Technical drawing of a mechanical part showing a cross-section A-A and a top view.

Cross-section A-A:

- Central hole diameter: $\varnothing 25$
- Part thickness: $6-8$
- Dimensional tolerances for thickness: -0.040 and -0.098
- Dimensional tolerances for hole diameter: -0.02 and -0.04

Top View:

- Overall width: 86
- Overall height: 84.5
- Feature A: A circular feature on the left side.
- Feature B: A circular feature on the right side.
- Feature C: A circular feature on the bottom right corner.

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CBHST4-5 齿轮油泵

CBHST4-5 Gear Pump

- ☆ 高强度铸铁泵体
High strength cast iron body
- ☆ 高性能密封元件, 工作介质温度范围: $-20^{\circ}\text{C}\sim+120^{\circ}\text{C}$
High performance sealing, work temp. $-20^{\circ}\text{C}\sim+120^{\circ}\text{C}$
- ☆ 输入轴为矩形花键
Inlet shaft: rectangle spline
- ☆ 进、出油口为螺纹式
Inlet/outlet port is screw



订货编号 Ordering code

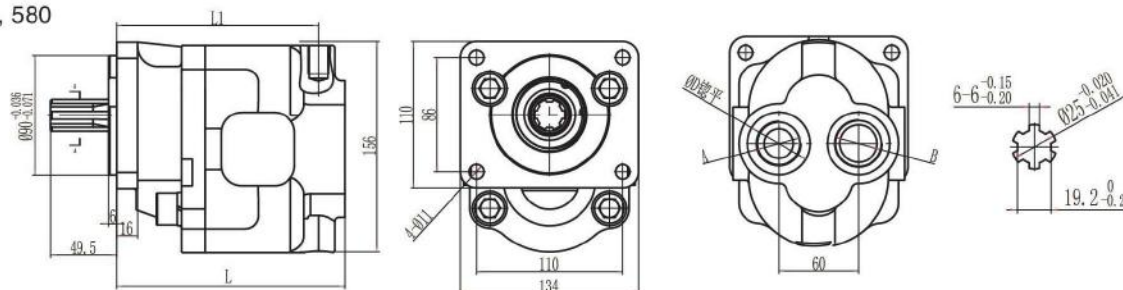
CBHST4 - 5 ** - B L H *

① ② ③ ④ ⑤ ⑥ ⑦

- ① 产品代号 Model code
- ② 系 列 号 Series number
- ③ 公称排量 Nominal displacement (ml/r)
- ④ 安装形式 Mounting B: 方方法兰 Square flange
- ⑤ 油口形式 Joining port L: 螺纹连接 Screw
- ⑥ 轴伸形式 Shaft end H: 矩形花键 Rectangle spline
- ⑦ 旋 向 Rotation L: Left (逆时针 counterclockwise),
R: Right (顺时针 clockwise)

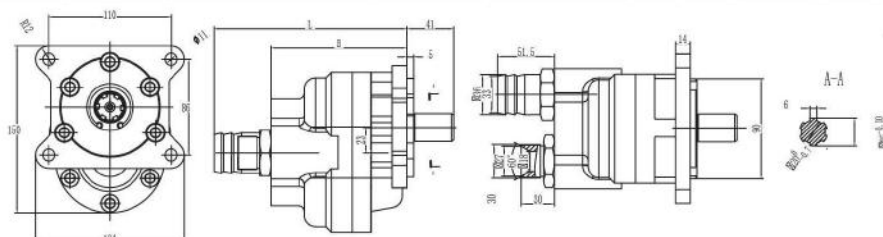
外观尺寸图 Dimension

CBHST4-5100, 580



型号 Model	公称排量 Nom. Displacement (ml/r)	压力 Pressure (mpa)		转速 Speed (r/min)		容积效率 Volumetric efficiency ($\geq\%$)	L	L1	进油口 Inlet port		出油口 Outlet port	
		额定Rated	最高Max.	额定Rated	最高Max.				A	D	B	D
CBHST4-5100	100	20	25	2000	2500	92	172	152	M36*1.5	47	M36*1.5	47
CBHST4-580	80						172	152	M36*1.5	47	M36*1.5	47

CBHST4-563, 550, 532



型号 Model	公称排量 Nom. Displacement (ml/r)	压力 Pressure (mpa)		转速 Speed (r/min)		容积效率 Volumetric efficiency ($\geq\%$)	A	B	L
		额定Rated	最高Max.	额定Rated	最高Max.				
CBHST4-563	63	20	25	2000	2500	92	76	146	194
CBHST4-550	50						60	135	183
CBHST4-532	32						60	122	180

CBNL-F5 双联泵

CBNL-F5 Double Gear Pump

☆ 高强度铝合金泵体

High strength aluminium body

☆ 方形法兰安装

☆ 输入轴为矩形花键

Inlet shaft: rectangle spline

☆ 进、出油口为法兰式，侧进侧出，2进油口，2个出油口

Inlet/outlet port is flange, side in side out, 2 inlets, 2 outlets.



订货编号 Ordering code

CBNL - F5 **/5** - B F * *

① ② ③ ④ ⑤ ⑥ ⑦

① 产品代号 Model code

② 公称排量 Nominal displacement (ml/r)

③ 安装形式 Mounting B: 方形法兰 Square flange

④ 油口形式 Joining port 螺纹连接 Screw S1,S2

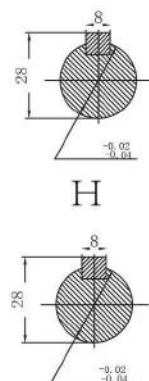
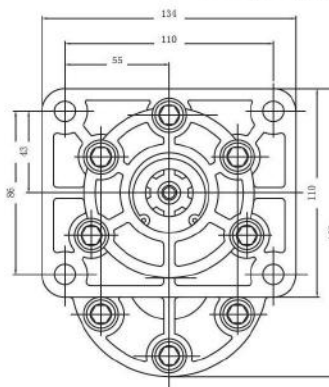
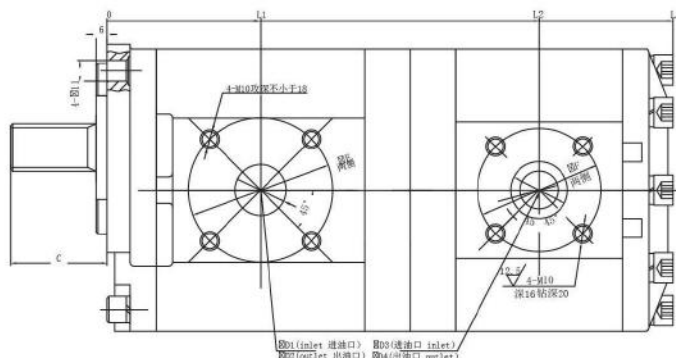
(见下图see drawings)

⑤ 轴伸形式 Shaft end H: 矩形花键 Rectangle spline

⑥ 旋 向 Rotation L: Left (逆时针 counterclockwise),

R: Right (顺时针 clockwise)

外观尺寸图 Dimension



参 数 Specifications

型号 Model	公称排量 Nom. Displacement (ml/r)	压力 Pressure (mpa)		转速 Speed (r/min)		容积效率 Volumetric efficiency (≥%)	L1	L2	L	C	D1	D2	D3	D4	E	F
		额定 Rated	最高 Max.	额定 Rated	最高 Max.											
CBNL-F563/532	63/32	20	25	2000	2500	92	81	221.5	290	51	35	25	25	20	76	65
CBNL-F563/520	63/20						78	218.5	284	51	35	25	25	20	76	65
CBNL-F540/520	40/20						70	205.5	274	51	35	20	25	20	76	65
CBNL-F532/510	32/10						67.5	197.5	262	51	30	20	25	20	65	65

CBHST5-N15 齿轮油泵

CBHST5-N15 Gear Pump

☆ 高强度铸铁泵体

High strength cast iron body

☆ 采用内置花键套与重汽取力器直联

Internal spline gear to connect CNHTC PTO directly

☆ 进、出油口为螺纹

Inlet/outlet port is screw



订货编号 Ordering code

CBHST5- N 15 ** - B L *

①

②

③

④

⑤

⑥

⑦

①产品代号 Model code

②轴伸形式 Shaft end N: 内置齿轮 Internal gear

③齿 数 Number of teeth: 15

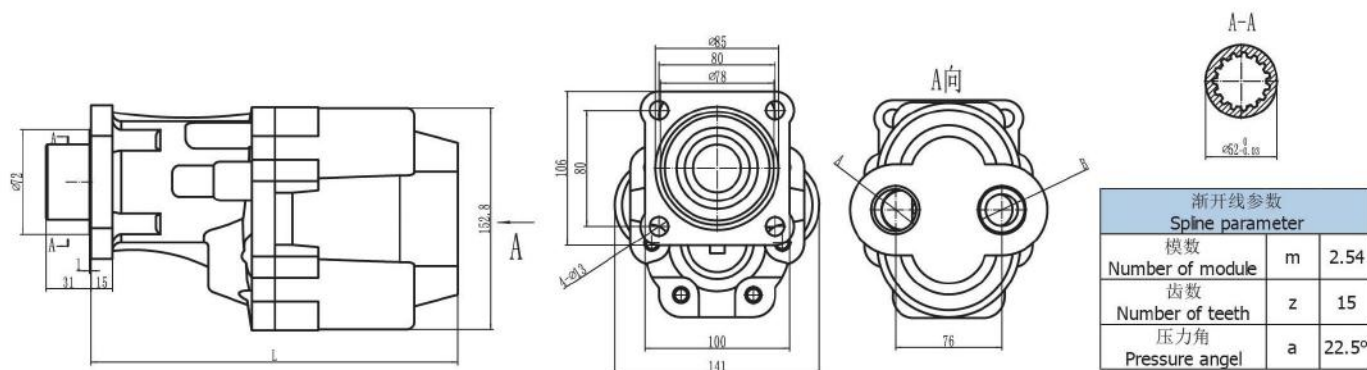
④公称排量 Nominal displacement (ml/r)

⑤安装形式 Mounting B: 方形法兰 Square flange

⑥油口形式 Joining port L: 螺纹连接 Screw

⑦旋 向 Rotation L: Left (逆时针 counterclockwise),
R: Right (顺时针 clockwise)

外观尺寸图 Dimension



参 数 Specifications

型号 Model	公称排量 Nom. Displacement (ml/r)	压力 Pressure (mpa)		转速 Speed (r/min)		容积效率 Volumetric efficiency (≥%)	L	进油口 Inlet	出油口 Outlet
		额定 Rated	最高 Max.	额定 Rated	最高 Max.			A	B
CBHST5-N15-100	100	23	25	2000	2500	92	253	M36*1.5	M36*1.5
CBHST5-N15-80	80						247		

CBHST5-N17 齿轮油泵

CBHST5-N17 Gear Pump

- ☆ 高强度铸铁泵体
High strength cast iron body
- ☆ 采用内置花键套与法士特取力器直联
Internal spline gear to connect FAST PTO directly
- ☆ 进、出油口为螺纹
Inlet/outlet port is screw



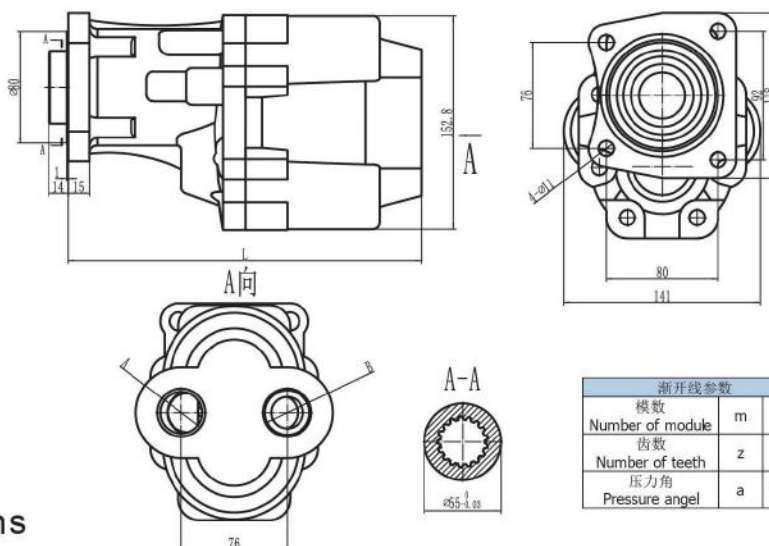
订货编号 Ordering code

CBHST5- N 17 ** - B L *

① ② ③ ④ ⑤ ⑥ ⑦

- ① 产品代号 Model code
- ② 轴伸形式 Shaft end N: 内置齿轮 Internal gear
- ③ 齿 数 Number of teeth: 17
- ④ 公称排量 Nominal displacement (ml/r)
- ⑤ 安装形式 Mounting B: 方形法兰 Square flange
- ⑥ 油口形式 Joining port L: 螺纹连接 Screw
- ⑦ 旋 向 Rotation L: Left (逆时针 counterclockwise), R: Right (顺时针 clockwise)

外观尺寸图 Dimension



参 数 Specifications

型号 Model	公称排量 Nom. Displacement (ml/r)	压力 Pressure (mpa)		转速 Speed (r/min)		容积效率 Volumetric efficiency (≥%)	L	进油口 Inlet	出油口 Outlet
		额定 Rated	最高 Max.	额定 Rated	最高 Max.			A	B
CBHST5-N17-100	100	23	25	2000	2500	92	263	M36*1.	M36*1.
CBHST5-N17-80	80						257	5	5

CBHC 齿轮油泵

CBHC Gear Pump

- ☆ 专为电动叉车设计
Specially designed for electric-forklift
- ☆ 采用非对称齿形双模数齿轮
Dual-module gear
- ☆ 低音设计
Low noise
- ☆ 菱形法兰安装
Oval flange mounting
- ☆ 进、出口为螺纹连接
Inlet/outlet port is screw



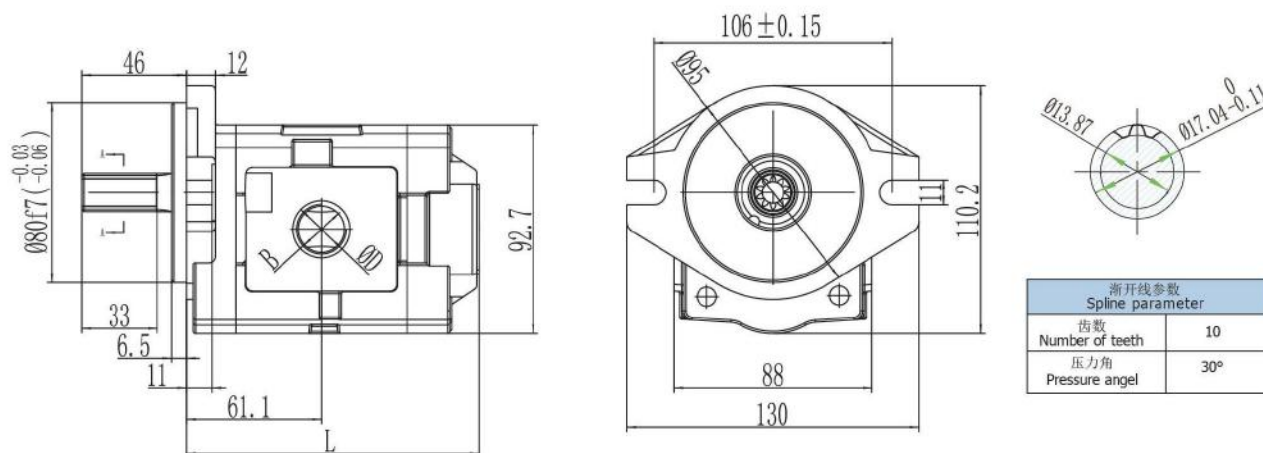
订货编号 Ordering code

CBHC- F ** - ALX *

① ② ③ ④ ⑤ ⑥ ⑦

- ① 产品代号 Model code
- ② 压力等级 Pressure grade F: 20MPa
- ③ 公称排量 Nominal displacement (ml/r)
- ④ 安装形式 Mounting A: 菱形法兰 Oval flange
- ⑤ 油口形式 Joining port L: 螺纹连接 Screw
- ⑥ 轴伸形式 Shaft end X: 渐开线花键 Involute spline
- ⑦ 旋 向 Rotation L: Left (逆时针 counterclockwise),
R: Right (顺时针 clockwise)

外观尺寸图 Dimension



参 数 Specifications

型号 Model	公称排量 Nom. Displacement (ml/r)	压力 Pressure (mpa)		转速 Speed (r/min)		容积效率 Volumetric efficiency (≥%)	L	L1	进油口 Inlet port		出油口 Outlet port	
		额定 Rated	最高 Max.	额定 Rated	最高 Max.				A	D	B	D
CBHC-F16	16	20	25	2000	3000	92	61	131	M24*1.5	25.8	M22*1.5	23.8
CBHC-F20	20	20	25	2000	3000	92	61	131	M24*1.5	25.8	M22*1.5	23.8

- ☆ 专为叉车设计
Pecially designed for fuel forklift
- ☆ 采用非对称齿形双模数齿
Dual-module gear
- ☆ 低音设计
Low noise
- ☆ 菱形法兰安装
Oval flange mounting
- ☆ 进、出油口为螺纹连接
Inlet/outlet port is screw



CBHZ- F ** - A L X *

- ① 产品代号 Model code
- ② 压力等级 Pressure grade F: 20MPa
- ③ 公称排量 Nominal displacement (ml/r)
- ④ 安装形式 Mounting A: 菱形法兰 Oval flange
- ⑤ 油口形式 Joining port L: 螺纹连接 Screw
- ⑥ 轴伸形式 Shaft end H: 矩形花键 Rectangle spline,
X: 渐开线花键 Involute spline
- ⑦ 旋向 Rotation L: Left (逆时针 counterclockwise),
R: Right (顺时针 clockwise)
- ⑧ 油口尺寸 Port size P1, P2 (见参数表 see specifications table)

Technical drawing of a gear pump assembly. The main view is a side elevation showing a housing with a central shaft and two gears. Dimensions include a total width of 115.3, a central shaft diameter of 12, and a gear diameter of 106 ± 0.15. A detail view A-A shows a cross-section of the gear teeth with dimensions 21, 39, and 6.5. The front view shows a circular housing with a diameter of 102 and a total width of 130. Two detail views, H1 and H2, show the gear teeth with dimensions 16 and 15 respectively. Two detail views, X1 and X2, show the gear teeth with dimensions 15.75 and 13.9 respectively. The drawing includes a table of parameters for the gear pump.

渐开线参数 Spline parameter	
模数 Number of module	1.5
齿数 Number of teeth	12
压力角 Pressure angle	30°

渐开线参数 Spline parameter	
模数 Number of module	1.5
齿数 Number of teeth	10
压力角 Pressure angle	30°

参数 Specifications

型号 Model	公称排量 Nom. Displacement (ml/r)	压力 Pressure (mpa)		转速 Speed (r/min)		容积效率 Volumetric efficiency (≥%)	L	代号 Code	进油口 Inlet port		出油口 Outlet port	
		额定 Rated	最高 Max.	额定 Rated	最高 Max.				A	D	B	D
CBHZ-F32	32	20	25	2000	3000	92	127	P1	M24*1.5	25.8	M22*1.5	23.8
								P2	G1		G½	

CBHS-DL 双联泵

CBHS-DL Double Gear Pump

- ☆ 高强度铝合金泵体
High strength aluminium pump body
- ☆ 菱形法兰安装
Oval flange mounting
- ☆ 输入轴为渐开线键
Input shaft is involute spline
- ☆ 进、出口为法兰连接
Inlet outlet ports are flange type



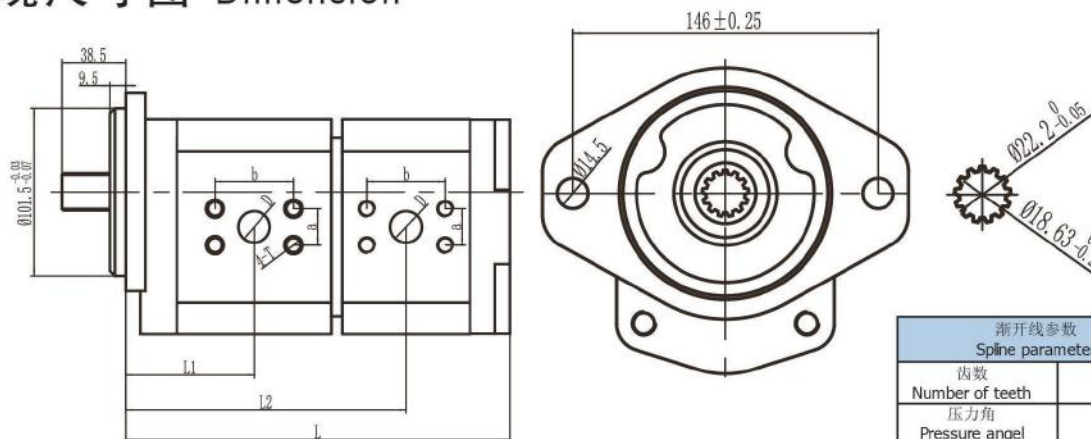
订货编号 Ordering code

CBHS-DL-F 4 **/4 **- A F X *

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① 产品代号 Model code
- ② 压力等级 Pressure grade F: 20MPa
- ③ 系列号 Series number
- ④ 公称排量 Nominal displacement (ml/r):
front/rear pump 前/后泵排量
- ⑤ 安装形式 Mounting A: 菱形法兰 Oval flange
- ⑥ 油口形式 Joining port F: 法兰连接 Flange
- ⑦ 轴伸形式 Shaft end X: 渐开线花键 Involute spline
- ⑧ 旋向 Rotation L: Left (逆时针 counterclockwise),
R: Right (顺时针 clockwise)

外观尺寸图 Dimension



参数 Specifications

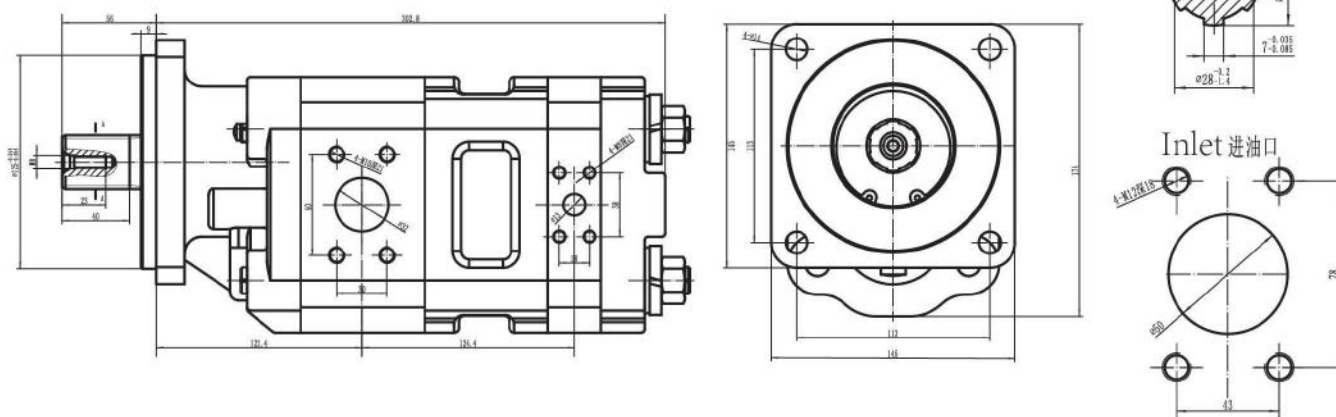
型号 Model	公称排量 Nom. Displacement (ml/r) 前泵/后泵 Front/rear pump	压力 Pressure (mpa)		转速 Speed (r/min)		容积效率 Volumetric efficiency (≥%)
		额定 Rated	最高 Max.	额定 Rated	最高 Max.	
CBHS-DL-F436/422	36/22	20	25	2200	2500	92

前泵进口口 Front pump inlet				前泵出口口 Front pump outlet				后泵出口口 Rear pump outlet			
D	a	b	T	D	a	b	T	D	a	b	T
32	30	58.5	M10	19	22	48	M10	19	22	48	M10

- 订货编号 Ordering code

- ①产品代号 Model code
- ②压力等级 Pressure grade F: 20MPa
- ③前后泵公称排量 Front/rear nominal displacement (ml/r)
- ④安装形式 Mounting B: 方形法兰 Square flange
- ⑤油口形式 Joining port F: 法兰连接 Flange
- ⑥轴伸形式 Shaft end H: 矩形花键 Rectangle spline
- ⑦旋 向 Rotation L: Left (逆时针 counterclockwise),
R: Right (顺时针 clockwise)

外观尺寸图 Dimension



参数 Specifications

型号 Model	公称排量 Nom. Displacement (ml/r) 前泵/后泵 Front/rear pump	压力 Pressure (mpa)		转速 Speed (r/min)			容积效率 Volumetric efficiency (≥%)
		额定 Rated	最高 Max.	工作 Work	额定Rated	最高Max.	
CBHS-DL1-F80/20	80/20	23	25	1000	2200	2500	90/89

CBHS-SL 三联泵

CBHS-SL Triple Gear Pump

- ☆ 高强度铸铁泵体
High strength cast iron pump body
- ☆ 方形法兰安装
Square flange mounting
- ☆ 输入轴为渐开线花键
Input shaft is involute spline
- ☆ 进、出油口为法兰连接，三个进油口，三个出油口
Inlet outlet ports are flange type, 3 inlets, 3 outlets



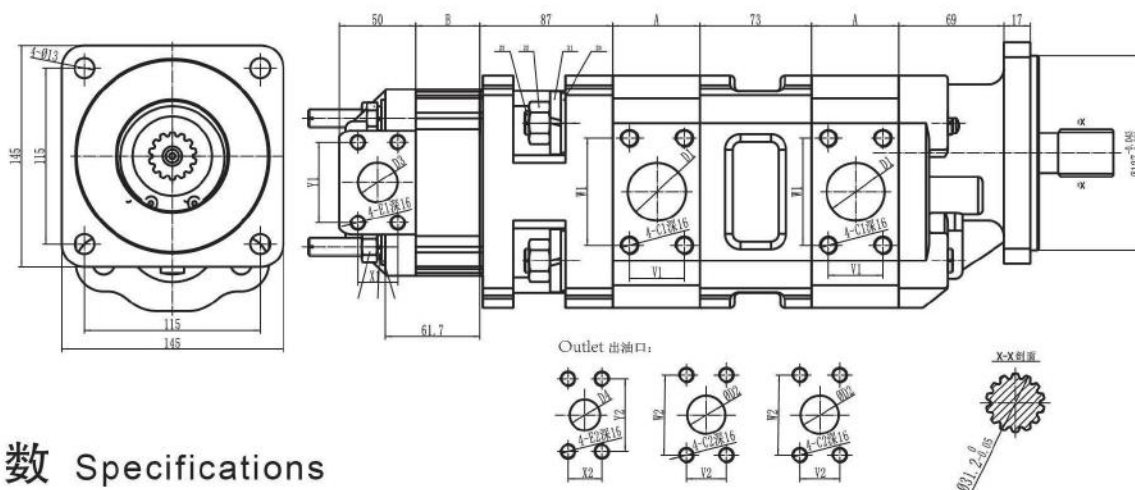
订货编号 Ordering code

CBHS-SL - * **/**/** - B F H *

① ② ③ ④ ⑤ ⑥ ⑦

- ① 产品代号 Model code
- ② 压力等级 Pressure grade F: 20MPa
- ③ 前后泵公称排量 Front/rear nominal displacement (ml/r)
- ④ 安装形式 Mounting B: 方形法兰 Square flange
- ⑤ 油口形式 Joining port F: 法兰连接 Flange
- ⑥ 轴伸形式 Shaft end H: 矩形花键 Rectangle spline
- ⑦ 旋 向 Rotation L: Left (逆时针 counterclockwise), R: Right (顺时针 clockwise)

外观尺寸图 Dimension



参 数 Specifications

型号 Model	公称排量 Nom. Displacement (ml/r) 前泵/中泵/后泵 First/second/third pump	压力 Pressure (mpa)		转速 Speed (r/min)			前/中泵体 厚度 First/second d pump thickness	前泵/中泵进油口 First/second pump inlet				前泵/中泵出油口 First/second pump outlet				后泵体厚度 Third pump thickness	后泵进油口 Third pump inlet				后泵出油口 Third pump outlet				容积效率 Volumetri c efficiency (%)
		额定 Rated	最高 Max.	最低 Min.	额定 Rated	最高 Max.		D1	W1	V1	C1	D2	W2	V2	C2		D3	Y1	X1	E1	D4	Y2	X2	E2	
CBHS-SL-F63/63/25	63/63/25	20	25	800	2000	2500	57.1	38	69.9	35.7	M12	25	52.4	26.2	M10	41.7	26	52.4	26.2	M10	20	47.6	22.2	M10	92/92/92
CBHS-SL-F50/50/25	50/50/25	20	25	800	2000	2500	48.95	38	69.9	35.7	M12	25	52.4	26.2	M10	35.8	26	52.4	26.2	M10	20	47.6	22.2	M10	
CBHS-SL-F40/40/25	40/40/25	20	25	800	2000	2500	42.96	32	58.7	30.2	M10	25	52.4	26.2	M10	30.6	20	47.6	22.2	M10	14	38.1	17.5	M8	

JHP1 齿轮油泵 JHP1 Gear Pump

- ☆ 高强度铸铁泵体
High strength cast iron pump body
- ☆ 菱形法兰安装
Oval flange mounting
- ☆ 输入轴为平键
Input shaft: plain key
- ☆ 进、出油口为法兰连接
Inlet outlet ports are flange type



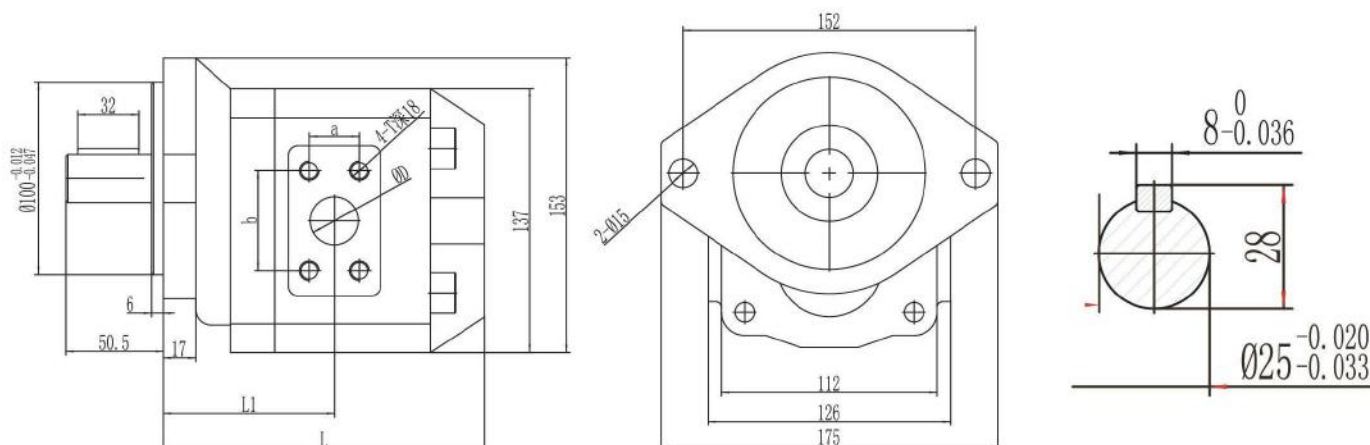
订货编号 Ordering code

JHP1 - F - AFP ***

① ② ③ ④ ⑤ ⑥ ⑦

- ① 产品代号 Model code
- ② 系 列 号 Series number
- ③ 公称排量 Nominal displacement (ml/r)
- ④ 安装形式 Mounting A: 菱形法兰 Oval flange
- ⑤ 油口形式 Joining port F: 法兰连接 Flange
- ⑥ 轴伸形式 Shaft end P: 平键 Plain key
- ⑦ 旋 向 Rotation L: Left (逆时针 counterclockwise),
R: Right (顺时针 clockwise)

外观尺寸图 Dimension



参 数 Specifications

型号 Model	公称排量 Nom. Displacement (ml/r)	压力 Pressure (mpa)		转速 Speed (r/min)		容积效率 Volumetric efficiency (≥%)	L	L1	进油口 Inlet				出油口 Outlet			
		额定 Rated	最高 Max.	额定 Rated	最高 Max.				D	a	b	T	D	a	b	T
JHP1-F32	32	20	25	2200	2500	92	158	78	25	26	52	M10	18	22	48	M10
JHP1-F45	45						168	88								

JHP2 齿轮油泵

JHP2 Gear Pump

- ☆ 高强度铸铁泵体
High strength cast iron pump body
- ☆ 方形法兰安装
Square flange mounting
- ☆ 输入轴有平键、矩形花键、渐开线花键可选
Input shaft: plain key, rectangle spline, involute spline
- ☆ 进、出油口为法兰连接
Inlet outlet ports are flange type



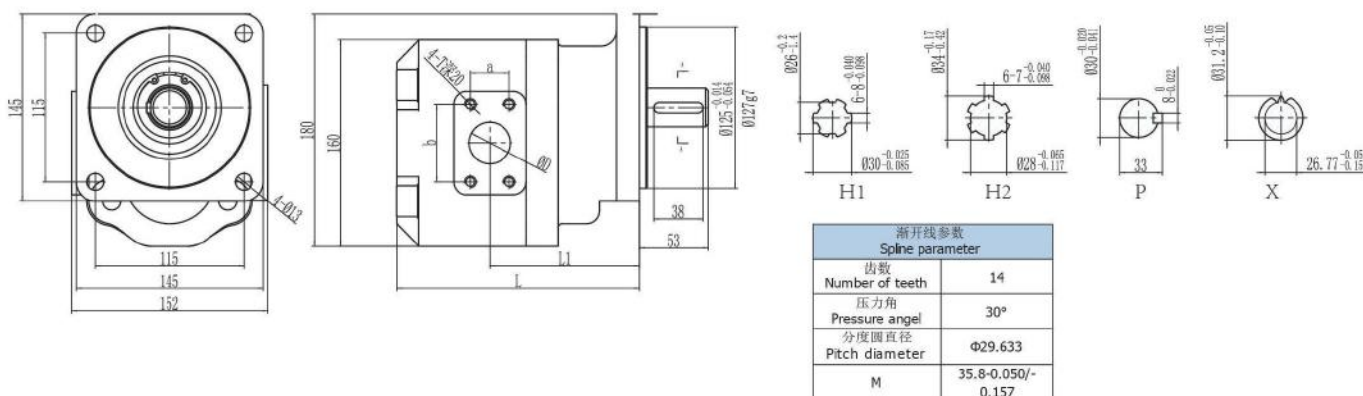
订货编号 Ordering code

JHP2 - * ** - B F * *

① ② ③ ④ ⑤ ⑥ ⑦

- ① 产品代号 Model code
- ② 系列号 Series number
- ③ 公称排量 Nominal displacement (ml/r)
- ④ 安装形式 Mounting B: 方形法兰 Square flange
- ⑤ 油口形式 Joining port F: 法兰连接 Flange
- ⑥ 轴伸形式 Shaft end P: 平键 Plain key
H: 矩形花键 Rectangle spline,
X: 渐开线花键 Involute spline
- ⑦ 旋向 Rotation L: Left (逆时针 counterclockwise)
R: Right (顺时针 clockwise)

外观尺寸图 Dimension



参数 Specifications

型号 Model	公称排量 Nom. Displacement	压力 Pressure (mpa)		转速 Speed (r/min)		容积效率 Volumetric efficiency	L	L1	进油口 Inlet				出油口 Outlet			
		额定 Rated	最高 Max.	额定 Rated	最高 Max.				D	a	b	T	D	a	b	T
JHP2-G40	40	25	31.5	2200	2500	92	178	108	20	22	48	M10	18	22	48	M8
JHP2-G50	50						184	111.5	25	26	52		20	22		
JHP2-F63	63	20	23				189	114.5	32	30	60		25	26		
JHP2-F80	80						200	120.5	35	36	70	M12	32	30	60	
JHP2-E100	100	16	18				210	127	40							

JHP3 齿轮油泵

JHP3 Gear Pump

- ☆ 高强度铸铁泵体
High strength cast iron pump body
- ☆ 方形法兰安装
Square flange mounting
- ☆ 输入轴有矩形花键、渐开线花键可选
Input shaft: rectangle spline, involute spline
- ☆ 进、出油口为法兰连接
Inlet outlet ports are flange type



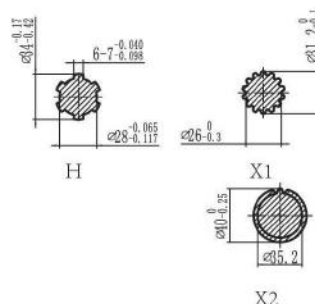
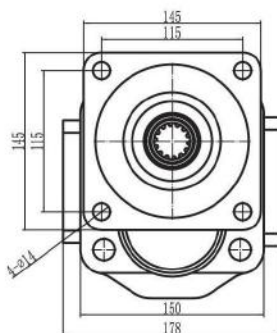
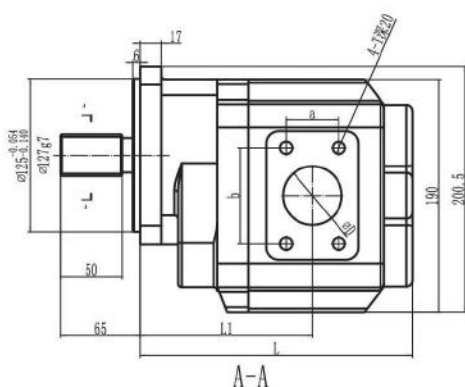
订货编号 Ordering code

JHP3 - * ** - B F * *

① ② ③ ④ ⑤ ⑥ ⑦

- ① 产品代号 Model code
- ② 系 列 号 Series number
- ③ 公称排量 Nominal displacement (ml/r)
- ④ 安装形式 Mounting B: 方形法兰 Square flange
- ⑤ 油口形式 Joining port F: 法兰连接 Flange
- ⑥ 轴伸形式 Shaft end H: 矩形花键 Rectangle spline
X: 渐开线花键 Involute spline
- ⑦ 旋 向 Rotation L: Left (逆时针 counterclockwise)
R: Right (顺时针 clockwise)

外观尺寸图 Dimension



渐开线参数 Spline parameter	
齿数 Number of teeth	14
压力角 Pressure angle	30°
分度圆直径 Pitch diameter	φ29.633

渐开线参数 Spline parameter	
模数 Number of module	2
齿数 Number of teeth	19
压力角 Pressure angle	30°
分度圆直径 Pitch diameter	φ38

参 数 Specifications

型号 Model	公称排量 Nom. Displacement (ml/r)	压力 Pressure (mpa)		转速 Speed (r/min)		容积效率 Volumetric efficiency (≥%)	L	L1	进油口 Inlet				出油口 Outlet			
		额定 Rated	最高 Max.	额定 Rated	最高 Max.				D	a	b	T	D	a	b	T
JHP3-G100	100	25	31.5	2200	2500	92	200	127	35	30	60	M10	30	30	60	M10
JHP3-G125	125						211.5	133.5	38	36	70	M12	32	30	60	M10
JHP3-F140	140	20	23				215	135	38	36	70	M12	35	30	60	M10
JHP3-F160	160						223	140	44	36	70	M12	32	30	60	M10
JHP3-E180	180	16	18				229	143	60	50.8	88.9	M12	35	35.8	69.9	M10

JHP3-P7600 齿轮油泵

JHP3-P7600 Gear Pump

- ☆ 高强度铸铁泵体
High strength cast iron pump body
- ☆ 方形法兰安装
Square flange mounting
- ☆ 输入轴有矩形花键、渐开线花键可选
Input shaft: rectangle spline involute spline
- ☆ 进、出油口为法兰连接
Inlet outlet ports are flange type



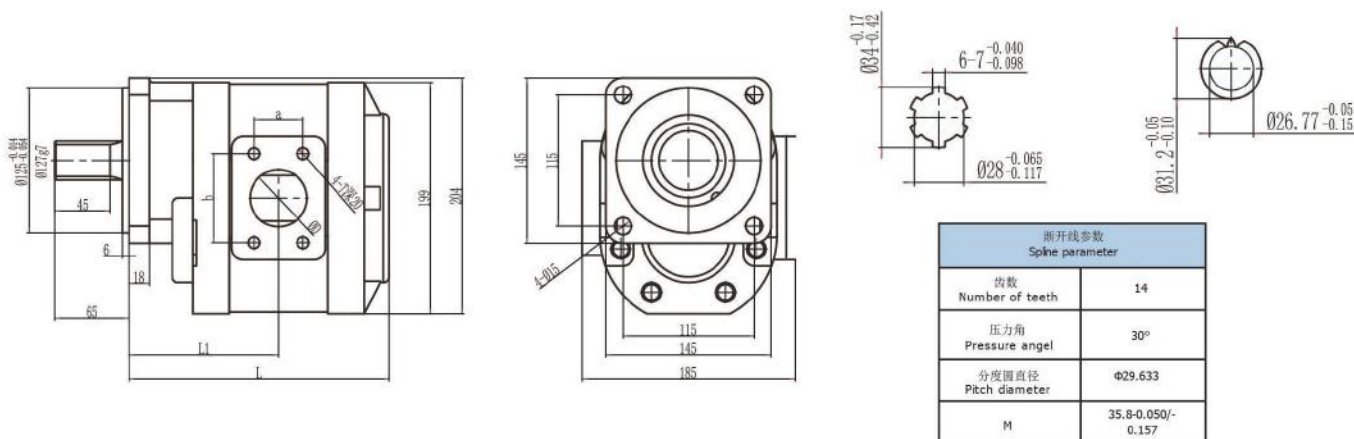
订货编号 Ordering code

JHP3-P7600 - G**- B F * *

① ② ③ ④ ⑤ ⑥ ⑦

- ① 产品代号 Model code
- ② 压力等级 Pressure grade G:25MPa
- ③ 公称排量 Nominal displacement (ml/r)
- ④ 安装形式 Mounting B: 方形法兰 Square flange
- ⑤ 油口形式 Joining port F: 法兰连接 Flange
- ⑥ 轴伸形式 Shaft end H: 矩形花键 Rectangle spline,
X: 渐开线花键 Involute spline
- ⑦ 旋 向 Rotation L: Left (逆时针 counterclockwise),
R: Right (顺时针 clockwise)

外观尺寸图 Dimension



参 数 Specifications

型号 Model	公称排量 Nom. Displacement (ml/r)	压力 Pressure (mpa)		转速 Speed (r/min)		容积效率 Volumetric efficiency (≥%)	L	L1	进油口 Inlet				出油口 Outlet			
		额定 Rated	最高 Max.	额定 Rated	最高 Max.				D	a	b	T	D	a	b	T
JHP3-P7600-G160	160	25	28	2200	2500	92	208	110	35	30	60	M10	30	30	60	M10

JHP 双联泵

JHP Double Gear Pump

- ☆ 高强度铸铁泵体
High strength cast iron pump body
- ☆ 方形法兰安装
Square flange mounting
- ☆ 输入轴有矩形花键
Input shaft: rectangle spline
- ☆ 进、出油口为法兰连接
Inlet outlet ports are flange type
- ☆ 由JHP2系列、1系列、0系列泵串联而成
Tandem by JHP 2,1,0 series pump



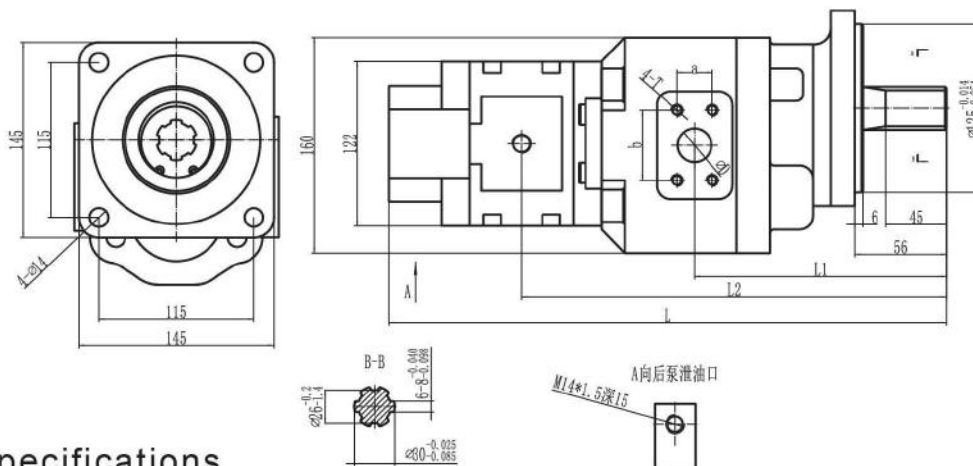
订货编号 Ordering code

JHP - 2 ** / * ** - B F H *

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

- ① 产品代号 Model code
- ② 前泵系列 Front pump series number
- ③ 前泵排量 Front pump displacement (ml/r)
- ④ 后泵系列 Rear pump series number: 1,0 series
- ⑤ 后泵排量 Rear pump displacement (ml/r)
- ⑥ 安装形式 Mounting B: 方形法兰 Square flange
- ⑦ 油口形式 Joining port F: 法兰连接 Flange
- ⑧ 轴伸形式 Shaft end H: 矩形花键 Rectangle spline
- ⑨ 旋 向 Rotation L: Left (逆时针 counterclockwise),
R: Right (顺时针 clockwise)

外观尺寸图 Dimension



参 数 Specifications

型号 Model	公称排量 Nom. Displacement (ml/r) 前泵/后泵 Front/rear pump	压力 Pressure (mpa) 前泵/后泵 Front/rear pump	转速 Speed (r/min)		容积效率 Volumetric efficiency (≥%)	L	L1	L2	前泵进油口 Front pump inlet				前泵出油口 Front pump outlet				后泵出油口 Rear pump outlet
			额定 Rated	最高 Max.					D	a	b	T	D	a	b	T	
JHP-2063/0010	63/10	25/3	2200	2500	92	431.5	179.5	329.2	35	36	70	M12	25	26	52	M10	M14*1.5深20
JHP-2080/0010	80/10					439.5	188.5	337.2	35	36	70	M12	25	26	52	M10	M14*1.5深20
JHP-2100/0010	100/10					452.5	201.5	349.2	35	36	70	M12	25	26	52	M10	M14*1.5深20

CBG1 齿轮油泵

CBG1 Gear Pump

- ☆ 高强度铸铁泵体
High strength cast iron pump body
- ☆ 菱形法兰安装
Oval flangemounting
- ☆ 输入轴为平键
Input shaft: Plain key
- ☆ 进、出油口为法兰连接
Inlet outlet ports are flange type

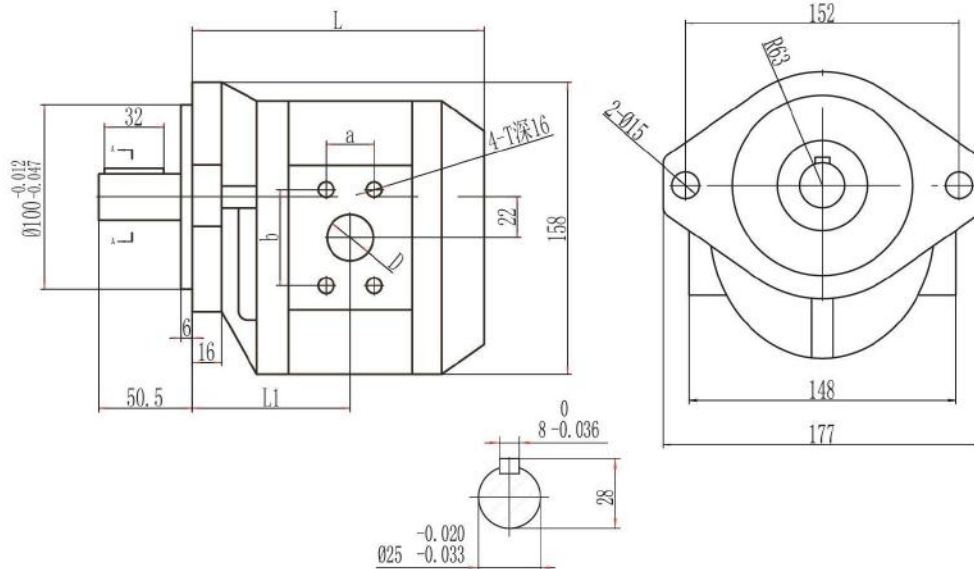


订货编号 Ordering code

CBG - 1 ** - A F P *

- ①产品代号 Model code
- ②系 列 号 Series number
- ③公称排量 Nominal displacement (ml/r)
- ④安装形式 Mounting A: 菱形法兰 Oval flange
- ⑤油口形式 Joining port F: 法兰连接 Flange
- ⑥轴伸形式 Shaft end P: 平键 Plain key
- ⑦旋 向 Rotation L: Left (逆时针 counterclockwise),
R: Right (顺时针 clockwise)

外观尺寸图 Dimension



参数 Specifications

型号 Model	公称排量 Nom. Displacement (ml/r)	压力 Pressure (mpa)		转速 Speed (r/min)		容积效率 Volumetric efficiency (≥%)	L	L1	进油口 Inlet				出油口 Outlet			
		额定 Rated	最高 Max.	额定 Rated	最高 Max.				D	a	b	T	D	a	b	T
CBG1032	32	16	20	2200	2500	90	158	78	25	26	52	M10	18	22	48	M10
CBG1045	45						168	88								

CBG2 齿轮油泵

CBG2 Gear Pump

- ☆ 高强度铸铁泵体
High strength cast iron pump body
- ☆ 方形法兰安装
Square flange mounting
- ☆ 输入轴为平键矩形花键可选
Input shaft: Plain key Rectangle spline
- ☆ 进、出油口为法兰连接
Inlet outlet ports are flange type



订货编号 Ordering code

CBG - 2 ** - B F * *

①

②

③

④

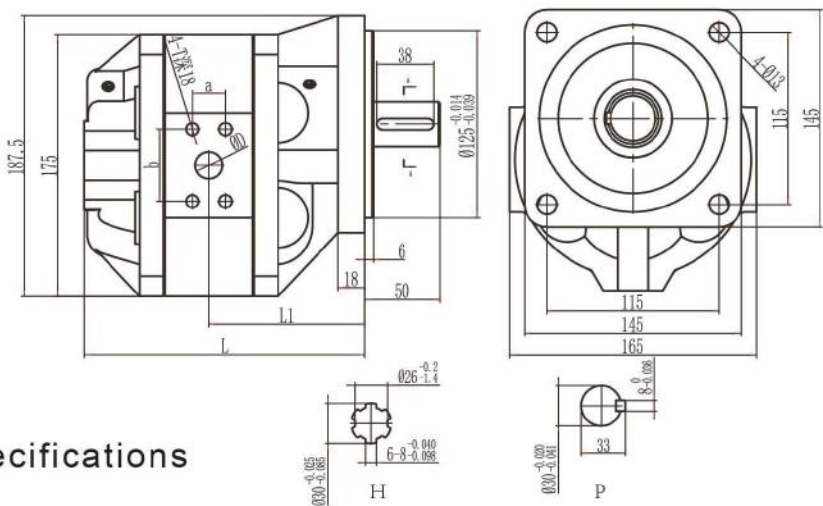
⑤

⑥

⑦

- ① 产品代号 Model code
- ② 系列号 Series number
- ③ 公称排量 Nominal displacement (ml/r)
- ④ 安装形式 Mounting B: 方形法兰 Square flange
- ⑤ 油口形式 Joining port F: 法兰连接 Flange
- ⑥ 轴伸形式 Shaft end P: 平键 Plain key,
H: 矩形花键 Rectangle spline
- ⑦ 旋向 Rotation L: Left (逆时针 counterclockwise),
R: Right (顺时针 clockwise)

外观尺寸图 Dimension



参数 Specifications

型号 Model	公称排量 Nom. Displacement (ml/r)	压力 Pressure		转速 Speed (r/min)		容积效率 Volumetric Efficiency	L	L1	进油口 Inlet				出油口 Outlet			
		额定 Rated	最高 Max.	额定 Rated	最高 Max.				D	a	b	T	D	a	b	T
CBG2040	40	16	20	2200	2500	92	184	100.5	20	22	48	M10	18	22	48	M8
CBG2050	50						189.1	103.3	25	26	52		20	22	48	
CBG2063	63						197	107	32	30	60		25	26	52	
CBG2080	80						206.5	111.5	35	36	70	M12	32	30	60	M10
CBG2100	100	12	16			90	218	117.5	40							

CBG3 齿轮油泵 CBG3 Gear Pump

- ☆ 高强度铸铁泵体
High strength cast iron pump body
- ☆ 方形法兰安装
Square flange mounting
- ☆ 输入轴为矩形花键、渐开线花键可选
Input shaft: Rectangle spline Involute spline
- ☆ 进、出油口为法兰连接
Inlet outlet ports are flange type



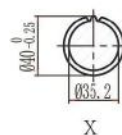
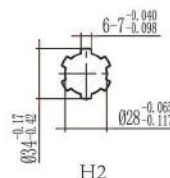
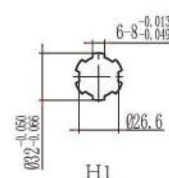
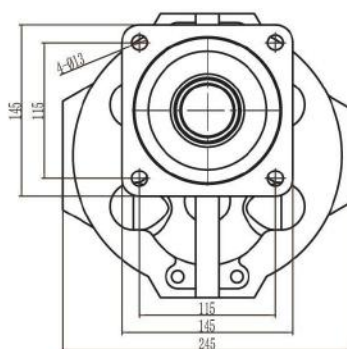
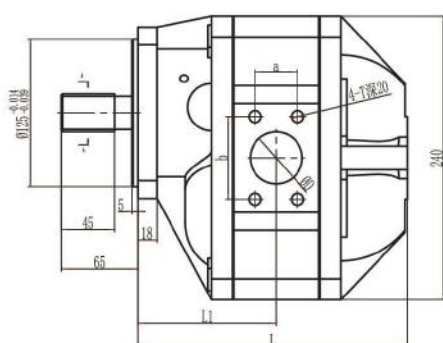
订货编号 Ordering code

CBG - 3 ** - B F * *

① ② ③ ④ ⑤ ⑥ ⑦

- ① 产品代号 Model code
- ② 系列号 Series number
- ③ 公称排量 Nominal displacement (ml/r)
- ④ 安装形式 Mounting B: 方形法兰 Square flange
- ⑤ 油口形式 Joining port F: 法兰连接 Flange
- ⑥ 轴伸形式 Shaft end H: 矩形花键 Rectangle spline, X: 渐开线花键 Involute spline
- ⑦ 旋向 Rotation L: Left (逆时针 counterclockwise), R: Right (顺时针 clockwise)

外观尺寸图 Dimension



渐开线参数 Spline parameter	
模数 Number of module	2
齿数 Number of teeth	19
压力角 Pressure angle	30°
分度圆直径 Pitch diameter	φ38

参数 Specifications

型号 Model	公称排量 Nom. Displacement (ml/r)	压力 Pressure		转速 Speed (r/min)		容积效率 Volumetric efficiency (≥%)	L	L1	进油口 Inlet				出油口 Outlet			
		额定 Rated	最高 Max.	额定 Rated	最高 Max.				D	a	b	T	D	a	b	T
CBG3100	100	16	20	2200	2500	92	202	103	35	30	60	M10	30	30	60	M10
CBG3125	125						209.5	106.7	35	30	60	M10	30	30	60	M10
CBG3140	140						214	109	38	36	70	M12	35	30	60	M10
CBG3160	160						220	112	44	36	70	M12	32	30	60	M10

CBGJ1 齿轮油泵

CBGJ1 Gear Pump

- ☆ 高强度铸铁泵体
High strength cast iron pump body
- ☆ 菱形法兰安装
Oval flangemounting
- ☆ 输入轴为平键
Nput shaft: Plain key
- ☆ 进、出油口为法兰连接
Inlet outlet ports are flange type



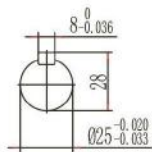
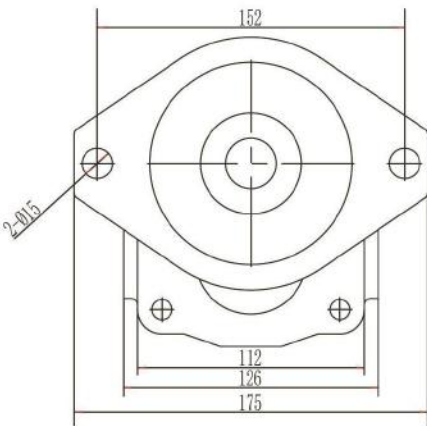
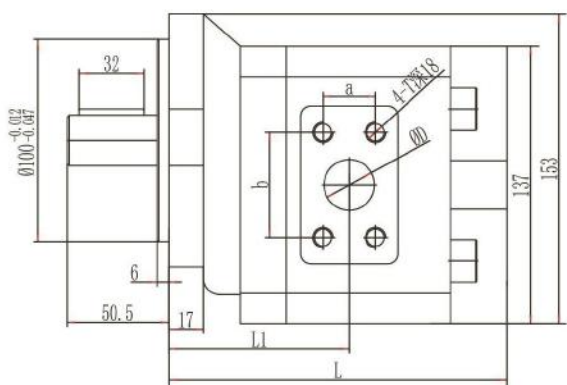
订货编号 Ordering code

CBGJ - 1 - A F P ***

① ② ③ ④ ⑤ ⑥ ⑦

- ① 产品代号 Model code
- ② 系 列 号 Series number
- ③ 公称排量 Nominal displacement (ml/r)
- ④ 安装形式 Mounting A: 菱形法兰 Oval flange
- ⑤ 油口形式 Joining port F: 法兰连接 Flange
- ⑥ 轴伸形式 Shaft end P: 平键 Plain key
- ⑦ 旋 向 Rotation L: Left (逆时针 counterclockwise),
R: Right (顺时针 clockwise)

外观尺寸图 Dimension



参 数 Specifications

型号 Model	公称排量 Nom. Displacement (ml/r)	压力 Pressure (mpa)		转速 Speed (r/min)		容积效率 Volumetric efficiency (≥%)	L	L1	进油口 Inlet				出油口 Outlet			
		额定 Rated	最高 Max.	额定 Rated	最高 Max.				D	a	b	T	D	a	b	T
CBGJ1032	32	20	22	2200	2500	92	109	214	25	26	52	M10	18	22	48	M10
CBGJ1045	45						112	220								

CBGJ2 齿轮油泵

CBGJ2 Gear Pump

- ☆ 高强度铸铁泵体
High strength cast iron pump body
- ☆ 方 形 法 兰 安 装
Square flange mounting
- ☆ 输入轴为平键、矩形花键、渐开线花键可选
Nput shaft: Plain key Rectangle spline Involute spline
- ☆ 进、出油口为法兰连接
Inlet outlet ports are flange type



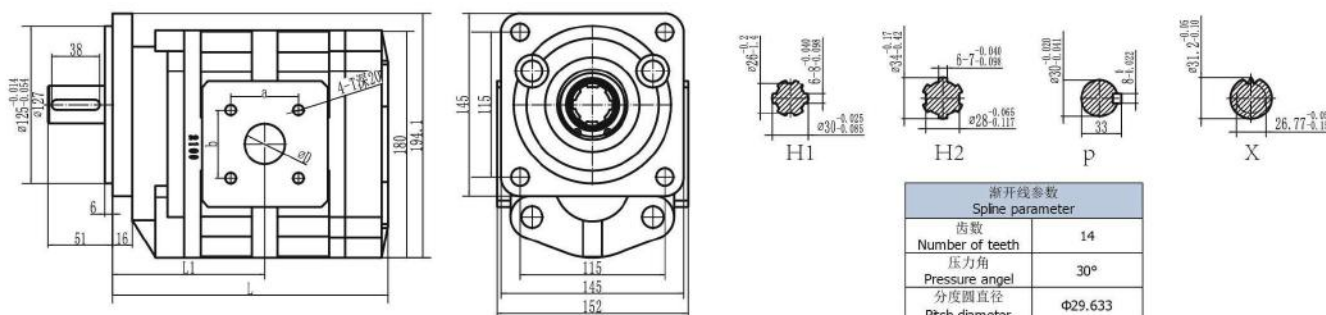
订货编号 Ordering code

CBGJ - 2** - B F * *

① ② ③ ④ ⑤ ⑥ ⑦

- ① 产品代号 Model code
- ② 系 列 号 Peries number
- ③ 公称排量 Nominal displacement (ml/r)
- ④ 安装形式 Mounting B: 方形法兰 Square flange
- ⑤ 油口形式 Joining port F: 法兰连接 Flange
- ⑥ 轴伸形式 Shaft end P: 平键 Plain key,
H: 矩形花键 Rectangle spline X: 渐开线花键 Involute spline
- ⑦ 旋 向 Rotation L: Left (逆时针 counterclockwise),
R: Right (顺时针 clockwise)

外观尺寸图 Dimension



参 数 Specifications

型号 Model	公称排量 Nom. Displacement (ml/r)	压力 Pressure (mpa)		转速 Speed (r/min)		容积效率 Volumetric efficiency (≥%)	L	L1	进油口 Inlet				出油口 Outlet			
		额定 Rated	最高 Max.	额定 Rated	最高 Max.				D	a	b	T	D	a	b	T
CBGJ2040	40	20	25	2200	2500	92	189.5	106.5	20	22	48	M1 0	18	22	48	M8
CBGJ2050	50						194	108.5	25	26	52		20	22		
CBGJ2063	63						200	111.5	32	30	60		25	26		
CBGJ2080	80						208	115.5	35	36	70	M1 2	32	30	60	
CBGJ2100	100						16	20								

CBGJ3 齿轮油泵

CBGJ3 Gear Pump

- ☆ 高强度铸铁泵体
High strength cast iron pump body
- ☆ 方形法兰安装
Square flange mounting
- ☆ 输入轴为矩形花键、渐开线花键可选
Input shaft: Rectangle spline Involute spline
- ☆ 进、出油口为法兰连接
Inlet outlet ports are flange type



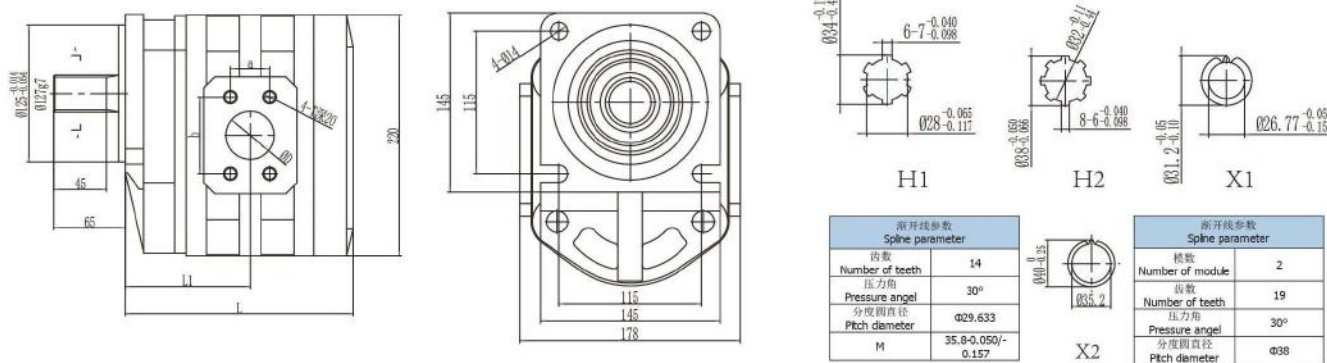
订货编号 Ordering code

CBGJ - 3 - B F * ***

① ② ③ ④ ⑤ ⑥ ⑦

- ① 产品代号 Model code
- ② 系 列 号 Peries number
- ③ 公称排量 Nominal displacement (ml/r)
- ④ 安装形式 Mounting B: 方形法兰 Square flange
- ⑤ 油口形式 Joining port F: 法兰连接 Flange
- ⑥ 轴伸形式 Shaft end H: 矩形花键 Rectangle spline
X: 渐开线花键 Involute spline
- ⑦ 旋 向 Rotation L: Left (逆时针 counterclockwise),
R: Right (顺时针 clockwise)

外观尺寸图 Dimension



参 数 Specifications

型号 Model	公称排量 Nom. Displacement (ml/r)	压力 Pressure (mpa)		转速 Speed (r/min)		容积效率 Volumetric efficiency (≥%)	L	L1	进油口 Inlet				出油口 Outlet			
		额定 Rated	最高 Max.	额定 Rated	最高 Max.				D	a	b	T	D	a	b	T
CBGJ3-F100	100	20	25	2200	2500	92	208	110	35	30	60	M10	30	30	60	M10
CBGJ3-F125	125						216	114	38	36	70	M12	32	30	60	M10
CBGJ3-F140	140						221	116.5	38	36	70	M10	35	30	60	M10
CBGJ3-F160	160						227.5	119.5	44	36	70	M12	35	30	60	M10

CBGJ 双联齿轮油泵

CBGJ Tandem Gear Pump

- ☆ 高强度铸铁泵体
High strength cast iron pump body
- ☆ 方形法兰安装
Square flange mounting
- ☆ 输入轴有矩形花键、渐开线花键可选
Input shaft: Rectangle spline Involute spline
- ☆ 进、出口口为法兰连接
Inlet outlet ports are flange type
- ☆ 由CBGJ3系列、2系列、1系列、0系列泵串联而成,
组合方式有3/3,3/1,3/0,2/2,2/1,2/0等
Tandemed by CBGJ3, 2, 1 series, options: 3/3,3/1,3/0,2/2,2/1,2/0



订货编号 Ordering code

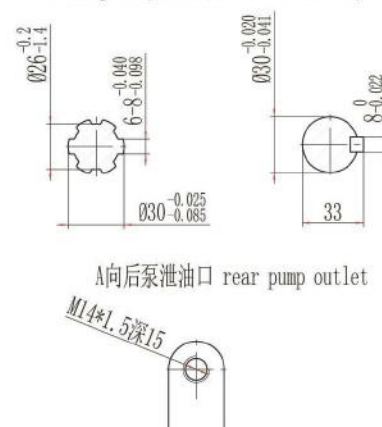
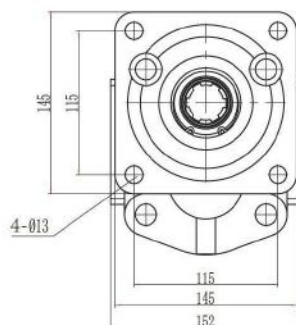
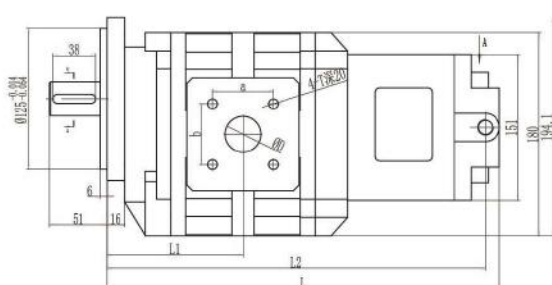
CBGJ - * ** / * ** - B F * *

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

- ① 产品代号 Model code
- ② 前泵系列 Front pump series number: 3,2 series
- ③ 前泵排量 Front pump displacement (ml/r)
- ④ 后泵系列 Rear pump series number: 2,1,0 series
- ⑤ 后泵排量 Rear pump displacement (ml/r)
- ⑥ 安装形式 Mounting B: 方形法兰 Square flange
- ⑦ 油口形式 Joining port F: 法兰连接 Flange
- ⑧ 轴伸形式 Shaft end H: 矩形花键 Rectangle spline, P: 平键 plain key
- ⑨ 旋 向 Rotation L: Left (逆时针 counterclockwise), R: Right (顺时针 clockwise)

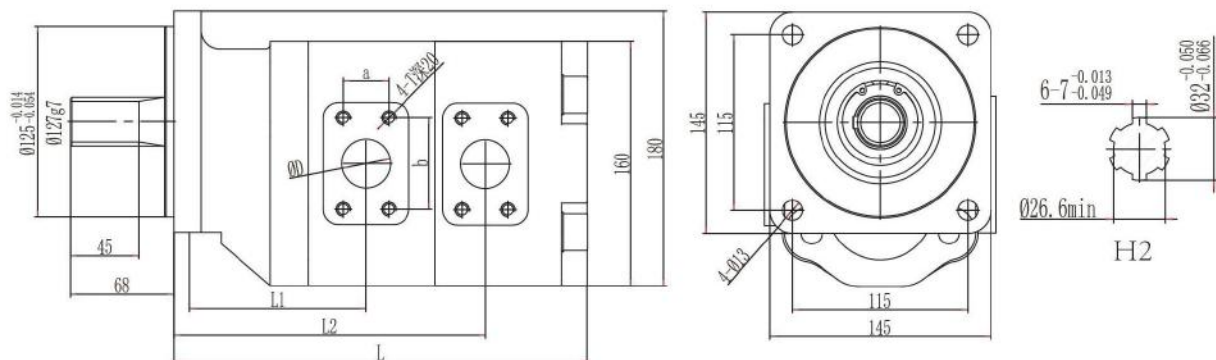
外观尺寸图 Dimension

CBGJ2/1 tandem pump 2/1串联泵

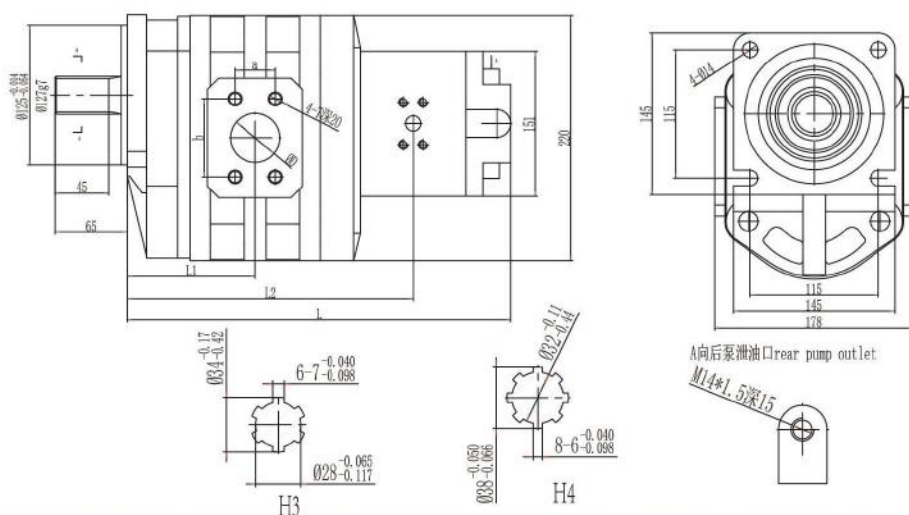


参 数 Specifications

型号 Model	公称排量 Nom. Displacement (ml/r) 前泵/后泵 Front/rear pump	L	L1	L2	转速 Speed (r/min)		容积效率 Volumetric efficiency (≥%)	前泵进油口 Front pump inlet				前泵出油口 Front pump outlet				后泵出油口 Rear pump outlet
					额定 Rated	最高 Max.		D	a	b	T	D	a	b	T	
CBGJ-2063/1016	63/16	333.5	106.5	257.5	2200	2500	92	40	36	70	M12	25	26	52	M10	M14*1.5深20
CBGJ-2080/1010	80/10	337.5	110.5	263.5				40	36	70	M12	25	30	60	M10	



型号 Model	公称排量 Nom. Displacement (ml/r) 前泵/后泵 Front/rear pump	L	L1	L2	转速 Speed (r/min)		容积效率 Volumetric efficiency (≥%)	前泵进油口 Front pump inlet				前泵出油口 Front pump outlet				前泵出油口 Front pump outlet			
					额定 Rated	最高 Max.		D	a	b	T	D	a	b	T	D	a	b	T
CBGJ-2050/2050	50/50	303	123	241	2200	2500	92	40	45	80	M12	25	26	52	M12	25	26	52	M12
CBGJ-2063/2063	63/63	323	135	261				40	36	70	M12	25	26	52	M12	25	26	52	M12



型号 Model	公称排量 Nom. Displacement (ml/r) 前泵/后泵	L	L1	L2	转速 Speed (r/min)		容积效率 Volumetric efficiency (≥%)	前泵进口口 Front pump inlet				前泵出口口 Front pump				前泵出口口 Front pump			
					额定 Rated	最高 Max.		D	a	b	T	D	a	b	T	D	a	b	T
CBGJ-3100/1010	100/10	353.5	110	169.5	2200	2500	92	38	36	70	M12	32	30	60	M10	14	18	38	M8
CBGJ-3160/1010	160/10	373	119.5	179.5				48	43	78	M12	40	43	78	M12	14	22	48	M8

油口尺寸表格

Oil port size table

油口 Thread	型号 Model	P40		P80		DCV40		DCV45		DCV60		DCV100		DCV140		DCV200		CDB15	
		A,B	P,T	A,B	P,T	A,B	P,T	A,B	P,T	A,B	P,T	A,B	P,T	A,B	P,T	A,B	P,T	A,B	P,T
G1/4																			
G3/8		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							✓	✓
G1/2		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓
G3/4				✓	✓					✓	✓	✓	✓	✓	✓	✓	✓		
G1														✓	✓	✓			
M16*1.5		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
M18*1.5		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓							✓	
M20*1.5		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					✓	
M22*1.5		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓
M27*2										✓	✓	✓	✓	✓	✓	✓	✓		
M33*2														✓	✓	✓			
1/2-20UNF																			
5/8-18UNF		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
3/4-16UNF		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
7/8-14UNF		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
1-12UNF					✓	✓	✓	✓	✓		✓		✓		✓				
11/8-12UNF																			
NPT1/4																			
NPT3/8		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓								
NPT1/2		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
NPT3/4				✓	✓					✓	✓	✓	✓	✓	✓	✓	✓		
NPT1														✓	✓	✓			

油口 Thread	型号 Model	CDB20		DF50		DF80		ZT12		DL15		DL20		ZL15		ZL20		LVA	
		A,B	P,T	A,B	P,T	A,B	P,T	A,B	P,T	A,B	P,T	A,B	P,T	A,B	P,T	A,B	P,T	A,B	P,T
G1/4																			
G3/8								✓	✓					✓	✓				
G1/2				✓	✓	✓		✓	✓					✓	✓			✓	✓
G3/4		✓	✓				✓					✓	✓			✓	✓		
G1																			
M16*1.5																			
M18*1.5				✓															
M20*1.5				✓															
M22*1.5					✓	✓		✓	✓	✓	✓			✓	✓				
M27*2		✓	✓				✓				✓	✓	✓			✓	✓		
M33*2		✓	✓																
1/2-20UNF																			
5/8-18UNF								✓	✓										
3/4-16UNF								✓	✓										
7/8-14UNF								✓	✓										
1-12UNF								✓	✓										
11/8-12UNF																			
NPT1/4																			
NPT3/8								✓	✓										
NPT1/2								✓	✓										
NPT3/4		✓	✓					✓	✓										
NPT1		✓	✓																

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