

S Sectional Valve

Item	Pressure (Mpa)	Flow (L/min)	Spool No.	Spool Function	Position Return Model	Port Size	Control Type
	P40 Series E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	40	1-7	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Electro-hydraulic Pneumatic Cable Solenoid Manual Microswitch
	P40 Microswitch Series E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	40	1-7	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	
	P80 Series E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	80	1-6	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	
	P120 (SD18) Series E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	120	1-4	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Manual
	Z50 Series E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	50	1-7	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Solenoid
	Z80 Series E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	50	1-6	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	
	ZT(ZD)-L12 Series E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	50	1-8	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Electro-hydraulic Pneumatic Cable Manual Microswitch
	ZT(ZD)-L15 Series E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	60	1-3	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	
	ZDa-L15 Series E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	60	1-10	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	
	ZT(ZD)-L20 Series E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	100	1-4	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Pneumatic Manual

S Sectional Valve

Item		Pressure (Mpa)	Flow (L/min)	Spool No.	Spool Function	Position Return Model	Port Size	Control Type
	ZT(ZD)-L102 (ZT-L10) Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	40	1-6	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Manual
	SD4 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	40	1	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Manual
	SD5 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	45	1-6	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Electro-hydraulic Pneumatic Solenoid Manual
	SD11 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	70	1-4	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Manual
	SD14 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	110	1	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	
	SD8 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	70	1-10	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Electro-hydraulic Pneumatic Solenoid Manual
	SD180 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	160	1-10	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Pilot Control Pneumatic Manual
	SD25 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	240	1-12	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Manual
	DCV40 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	40	1-8	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Electro-hydraulic Pneumatic Cable Manual Microswitch
	DCV80 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	100	1-4	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Pneumatic Manual

S Sectional Valve

Item	Pressure (Mpa)	Flow (L/min)	Spool No.	Spool Function	Position Return Model	Port Size	Control Type
 DCV60 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	50	1-12	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Electro-hydraulic Pneumatic Manual
 DCV100 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	90	1-14	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	
 DCV140 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	130	1-14	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	
 DCV200 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	180	1-14	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Manual
 ZS-L10 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	40	1-18	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Manual
 ZS-L20 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	100	1-15	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	
 ZS-L25 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	160	1-12	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	
 MB2 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	40	1	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Manual
 MB3 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	45	1-6	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Electro-hydraulic Manual Pneumatic Hydraulic
 MB5 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	70	1-6	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Manual

Item		Pressure (Mpa)	Flow (L/min)	Spool No.	Spool Function	Position Return Model	Port Size	Control Type
	RD5100/ RD5200/ RD5300 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	120	1-3	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Manual
	LKF Series	210bar Mpa	40/ 60/ 114				NPT	
	LVA Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	95	1	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Manual
	JYPM100 Series	E:16Mpa F:20Mpa G:25Mpa H:31.5Mpa	115	1	O,A,Y,Q	T:Spring Return W:Detent Control	M G UNF NPT	Manual



MP 80



MP 100



MPC 70.4



MPC63.3 & MPC63.4



MRS50



MRS80



MRS120



MRS320



MRS100LS



P160



SVV60/SVV90



RV Rotary Diverter Valve

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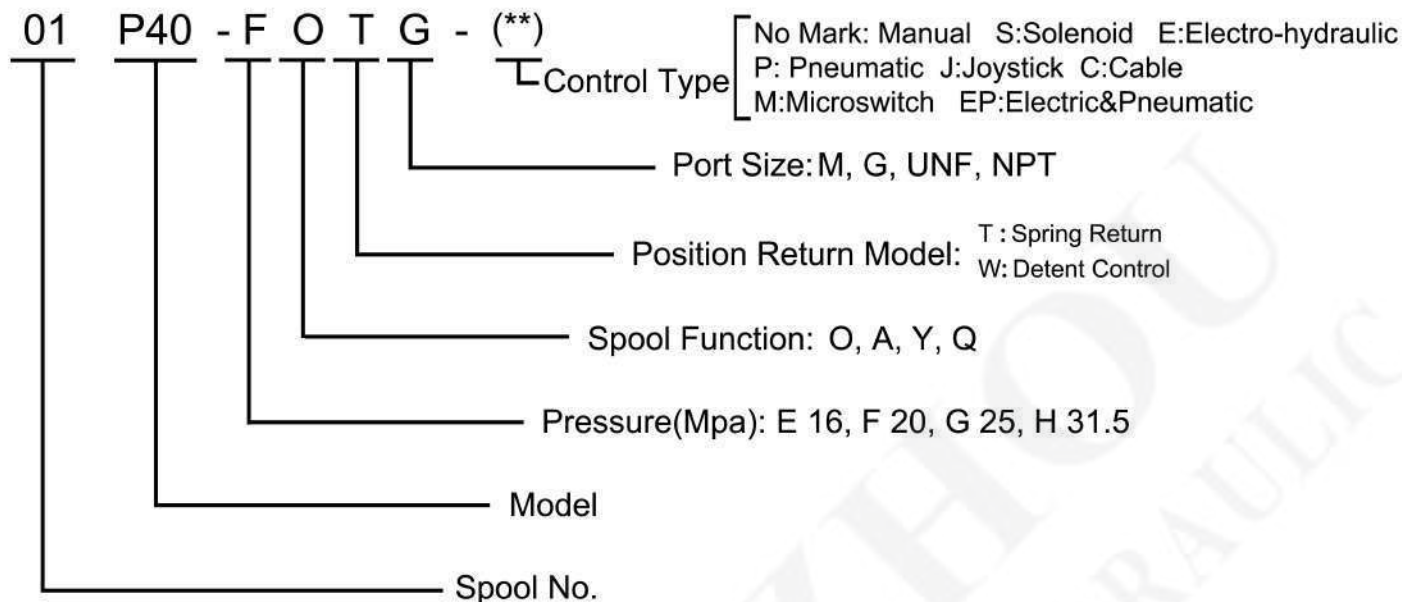
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■ Mode Code



■ Spool Function Symbols



O Spool Function



Y Spool Function



A Spool Function



Q Spool Function

■ Port Size

Flow	M	G	UNF	NPT
≤60L	M18x1.5	G 3/8"	3/4-16 UNF	NPT 3/8"
60-80L	M22x1.5	G 1/2"	7/8-14 UNF	NPT 1/2"
100-140L	M27x2	G 3/4"	1- 1/16-12 UNF	NPT 3/4"
140-160L	M33x2	G 1"	1- 5/16-12 UNF	NPT 1"
160-240L	M42x2	G 1-1/2"	1- 5/8-12 UNF	NPT 1-1/2"

If you need special dimension port size, please consult to our Engineer.

P40 系列整体阀

P40 Series Monoblock Directional Control Valves

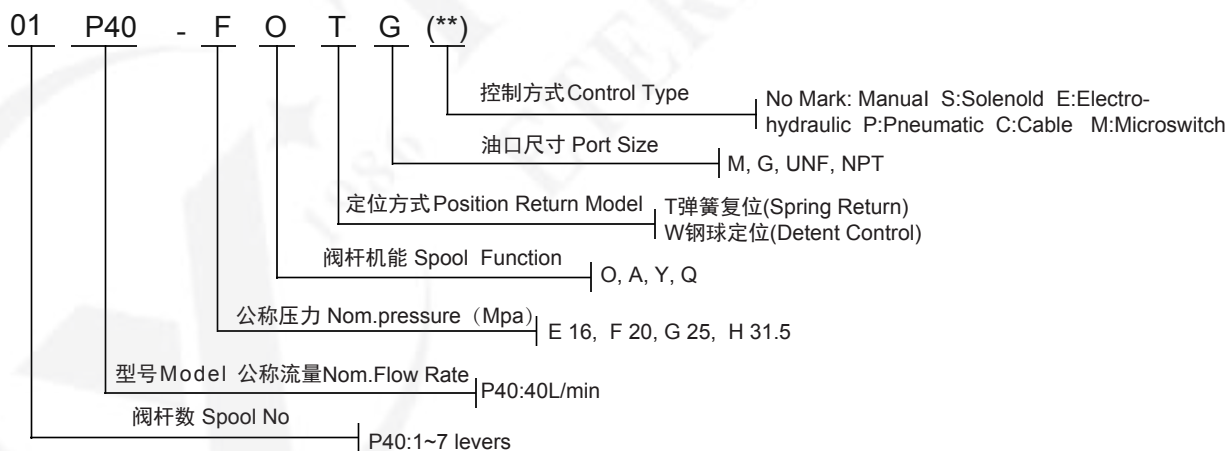
用途与特征/APPLICATIONS&FEATURES

P40系列整体式多路阀是我公司引进欧洲的一种中高压整体式多路阀。可按客户要求在上设溢流阀、单向阀。溢流阀可调节压力，单向阀防止油液倒流。换向阀的滑阀机能A,O,P,Y等，可任意组合，换向手柄有两种安装形式，便于不同方向的操作，该阀采用并联或者串联油路，设计有压力输出与其他液压元件相连接提供动力源。经过特殊设计的密封方式，使阀的密封性能卓越。该阀广泛应用于叉车、环卫车辆、小型装载机等工程机械的液压系统。



- ◆ P40 series valves with middle-high pressure monoblock construction is developed based on Europe technology.
- ◆ Inner check valve: The check valve inside the valve body is to insure the hydraulic oil not to be returned.
- ◆ Inner relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.
- ◆ Oil way: Parallel circuit, power beyond option
- ◆ Control Way: Manual control, pneumatic control, hydraulic and electric control for optional.
- ◆ Valve construction: monoblock construction, 1-7 levers.
- ◆ Spool Function: O,Y, P,A.
- ◆ Option: Hydraulic lock is available to be added on A and B port.
- ◆ Available with manual, pneumatic control, electric and pneumatic control, hydraulic and electric control and etc.

型号说明/MODEL CODE



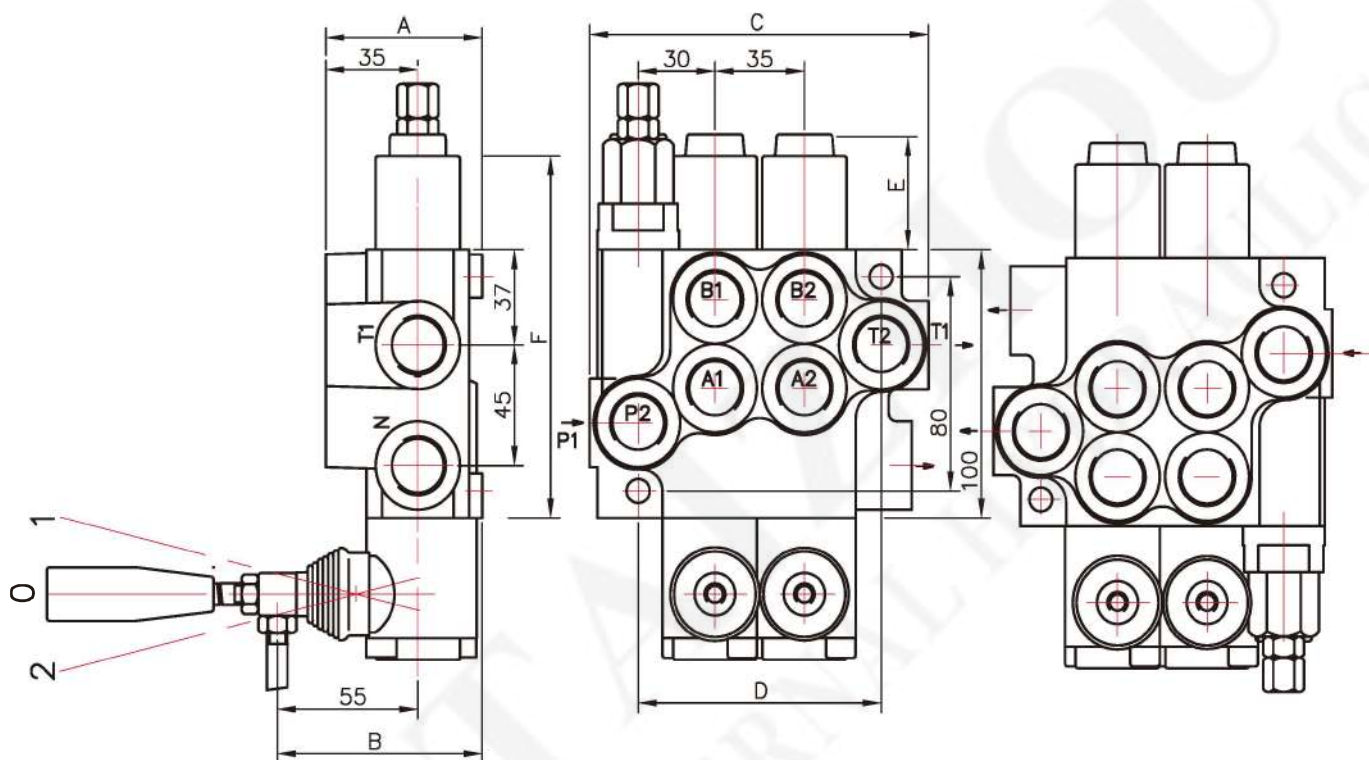
技术参数/PARAMETERS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	最大流量 (L/min) Max. Flow rate	中位背压 (MPa) Back Pressure	工作油液 hydraulic oil		
					温度范围 (℃) Tem.rang	粘度范围 (mm ² /S) Visc.rang	过滤精度 (μm) filtrating accuracy
20	31.5	40	40	≤1	-20 ~ +80	10 ~ 400	≤10

P40 系列整体阀

P40 Series Monoblock Directional Control Valves

P40外形安装连接尺寸/MODEL P40 DIMENSIONAL DATA



	A	B	C	D
01P40	60	80	85	60
02P40	60	80	129	97
03P40	60	80	164	132
04P40	60	80	199	167
05P40	60	80	234	202
06P40	60	80	269	237
07P40	60	80	304	272
08P40	60	80	339	307

注：订货有特殊要求者，请与销售顾问联系。

Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

Z50 系列电磁控整体式多路阀

Z50 Solenoid Control Valve

用途与特征/APPLICATIONS&FEATURES

Z50系列电磁控整体式多路阀是我公司引进欧洲的一种中高压、电磁阀控制的整体多路阀。该阀采用并联或者串联油路，设计有压力出口与其他液压元件相连接提供动力源。经过特殊设计的密封方式，使阀的密封性能卓越。该阀广泛应用于叉车、环卫车辆、小型装载机工程机械的液压系统。



Z50 series valves with middle-high pressure monoblock construction is developed based on Europe technology.

The monoblock directional control valves-solenoid operated, offer perfect choice whether you are designing a new system or just simply trying to get more out of your current system. With two special spools and 7 different monoblock housings these valves can meet the specific needs of your application and hydraulic schemes by their double acting in 3 positions A and D spools.

◆ Inner check valve: The check valve inside the valve body is to insure the hydraulic oil will not be returned.

◆ Inner relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.

◆ Oil way: Parallel circuit, power beyond option

◆ Coils, Connector ISO4400: 12VDC, 24VDC

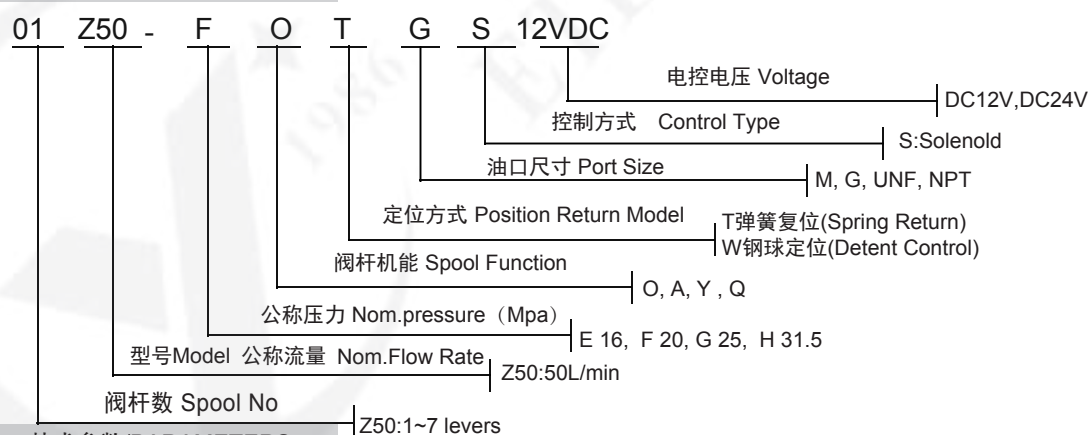
◆ Threads: P,T-G1/2, SAE10, A,B-G3/8,SAE8

◆ Valve construction: Monoblock construction, 1-7 levers.

◆ Precise bore honing and spool grinding results in less cross-port leakage and less wasted energy.

These precise valves also allow for interchangeable spools for easy on place maintenance.

型号说明/MODEL CODE



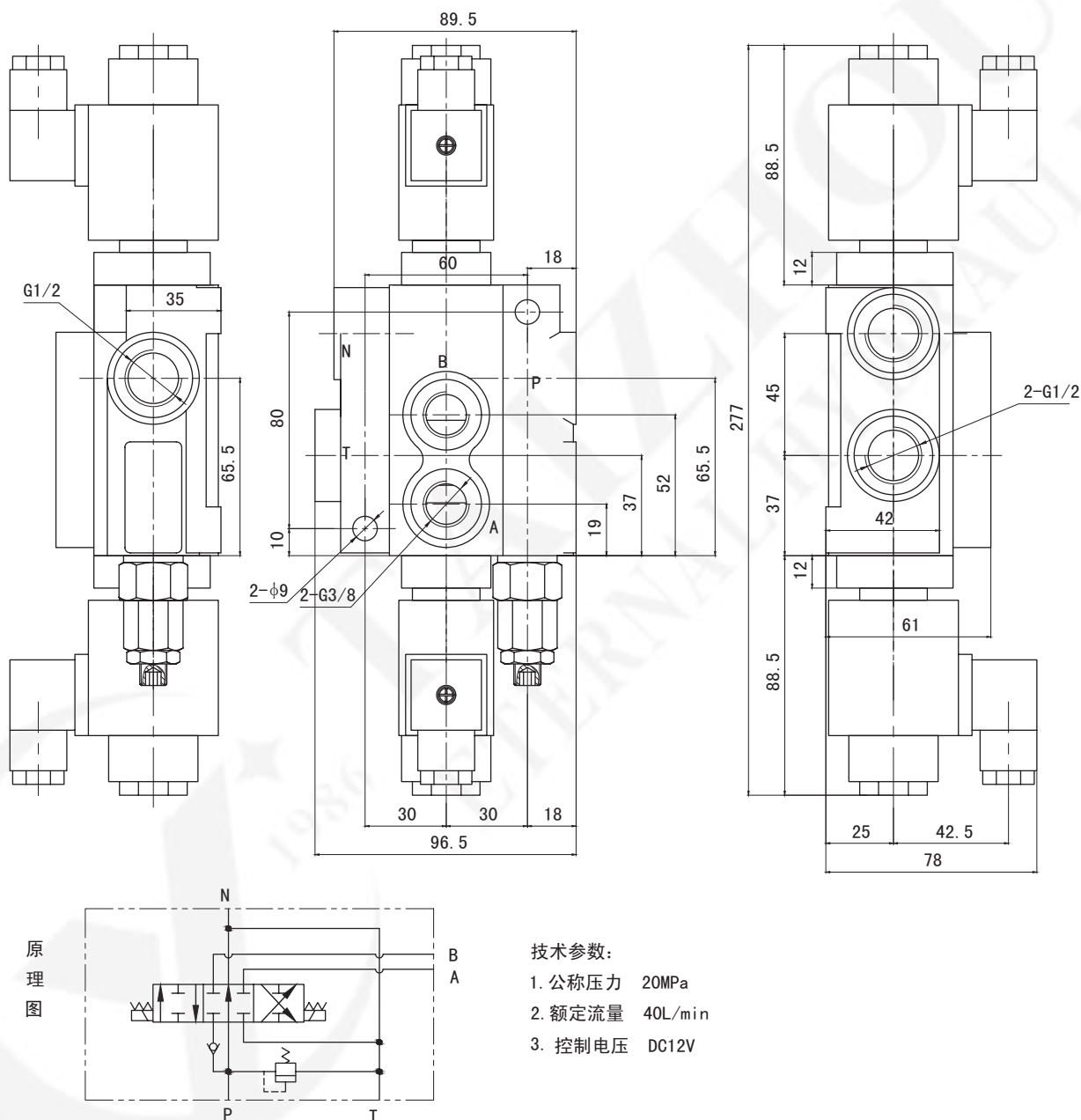
技术参数/PARAMETERS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	最大流量 (L/min) Max. Flow rate	中位背压 (MPa) Back Pressure	工作油液 hydraulic oil		
					温度范围 (℃) Tem.rang	粘度范围 (mm ² /S) Visc.rang	过滤精度 (μm) filtrating accuracy
20	31.5	40	50	≤1	-20 ~ +80	10 ~ 400	≤1

Z50 系列电磁控整体式多路阀

Z50 Solenoid Control Valve

Z50外形安装连接尺寸/MODEL Z50 DIMENSIONAL DATA



注: 订货有特殊要求者, 请与销售顾问联系。

Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

P40 系列电液控多路阀

P40 Electric and Hydraulic Control Valve

用途与特征/APPLICATIONS&FEATURES

P40系列整体式多路阀是我公司引进欧洲的一种中高压整体式多路阀。可按客户要求可在阀上设溢流阀、单向阀。溢流阀可调节压力，单向阀防止油液倒流。换向阀的滑阀机能A,O,P,Y等，可任意组合，换向手柄有两种安装形式，便于不同方向的操作，该阀采用并联或者串联油路，设计有压力输出口与其他液压元件相连接提供动力源。经过特殊设计的密封方式，使阀的密封性能卓越。该阀广泛应用于叉车、环卫车辆、小型装载机工程机械的液压系统。



P40 series valves with middle-high pressure monoblock construction is developed based on Europe technology.

◆ Inner check valve: The check valve inside the valve body is to insure the hydraulic oil will not be returned.

◆ Inner relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.

◆ Oil way: Parallel circuit, power beyond option

◆ Control Way: Manual control, pneumatic control, hydraulic and electric control for optional.

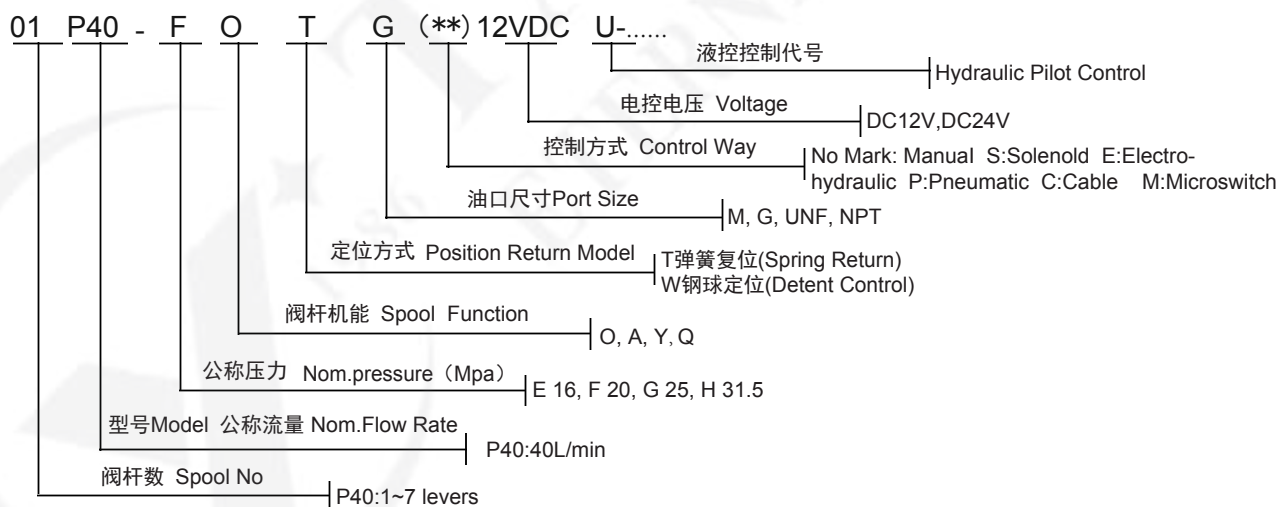
◆ Valve construction: monoblock construction, 1-7 levers.

◆ Spool Function: O,Y, P,A.

◆ Option: Hydraulic lock is available to be added on A and B port.

◆ Available with manual, pneumatic control, electric and pneumatic control, hydraulic and electric control and etc.

型号说明/MODEL CODE



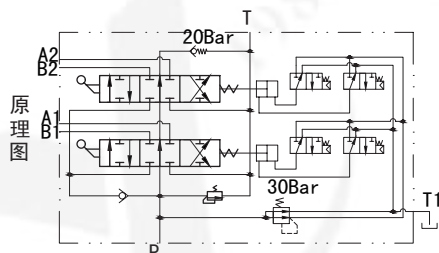
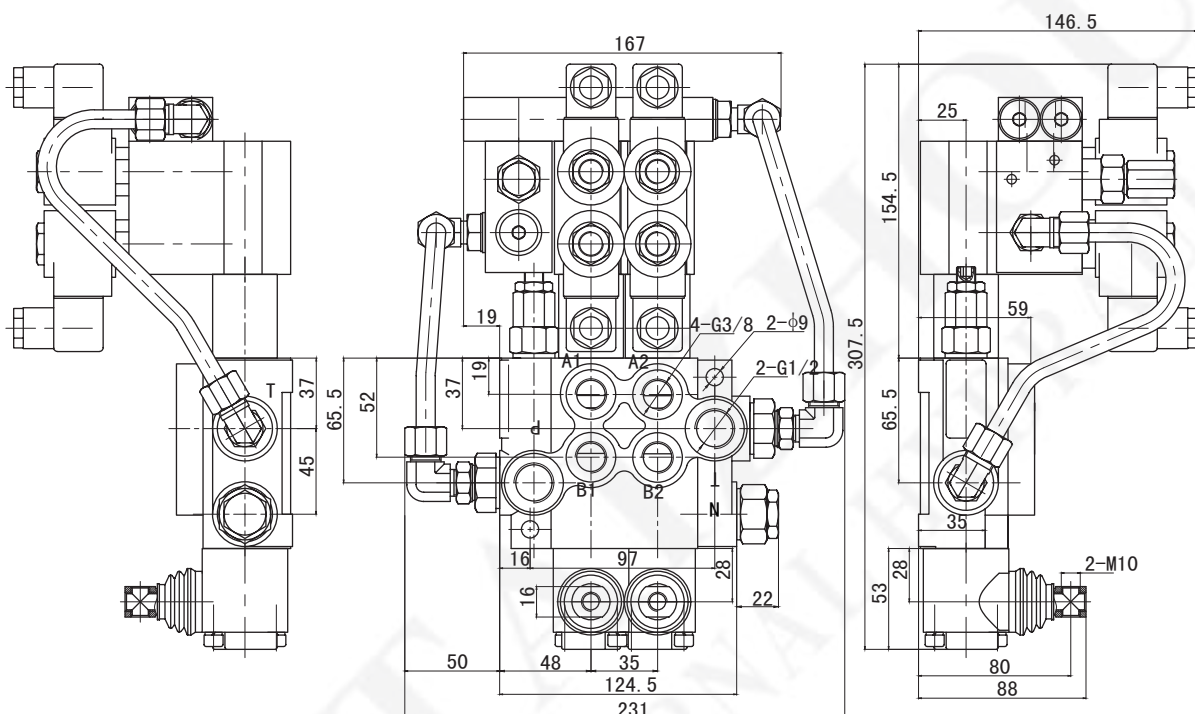
技术参数/PARAMETERS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	最大流量 (L/min) Max. Flow rate	中位背压 (MPa) Back Pressure	工作油液hydraulic oil		
					温度范围 (℃) Tem.rang	粘度范围 (mm ² /S) Visc.rang	过滤精度 (μm) filtrating accuracy
20	31.5	40	50	≤1	-20 ~ +80	10 ~ 400	≤10

P40 系列电液控多路阀

P40 Electric and Hydraulic Control Valve

P40外形安装连接尺寸/MODEL P40 DIMENSIONAL DATA



- 技术参数:
1. 公称压力 20MPa
 2. 额定流量 40L/min
 3. 控制电压为直流 DC12V/DC24V。

注: 订货有特殊要求者, 请与销售顾问联系。

Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

P80 系列整体阀

P80 Series Monoblock Directional Control Valves

用途与特征/APPLICATIONS&FEATURES

P80系列整体式多路阀是我公司引进欧洲的一种中高压整体式多路阀。可按客户要求可在阀上设溢流阀、单向阀。溢流阀可调节压力，单向阀防止油液倒流。换向阀的滑阀机能可有A,O,P,Y等，可任意组合，换向手柄有两种安装形式，便于不同方向的操作，该阀采用并联或者串联油路，设计有压力输出口与其他液压元件相连接提供动力源。经过特殊设计的密封方式，使阀的密封性能卓越。该阀广泛应用于叉车、环卫车辆、小型装载机工程机械的液压系统。



P80 series valves with middle-high pressure monoblock construction is developed based on Europe technology.

◆ Inner check valve: The check valve inside the valve body is to insure the hydraulic oil not to be returned.

◆ Inner relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.

◆ Oil way: Parallel circuit, power beyond option

◆ Control Way: Manual control, pneumatic control, hydraulic and electric control for optional.

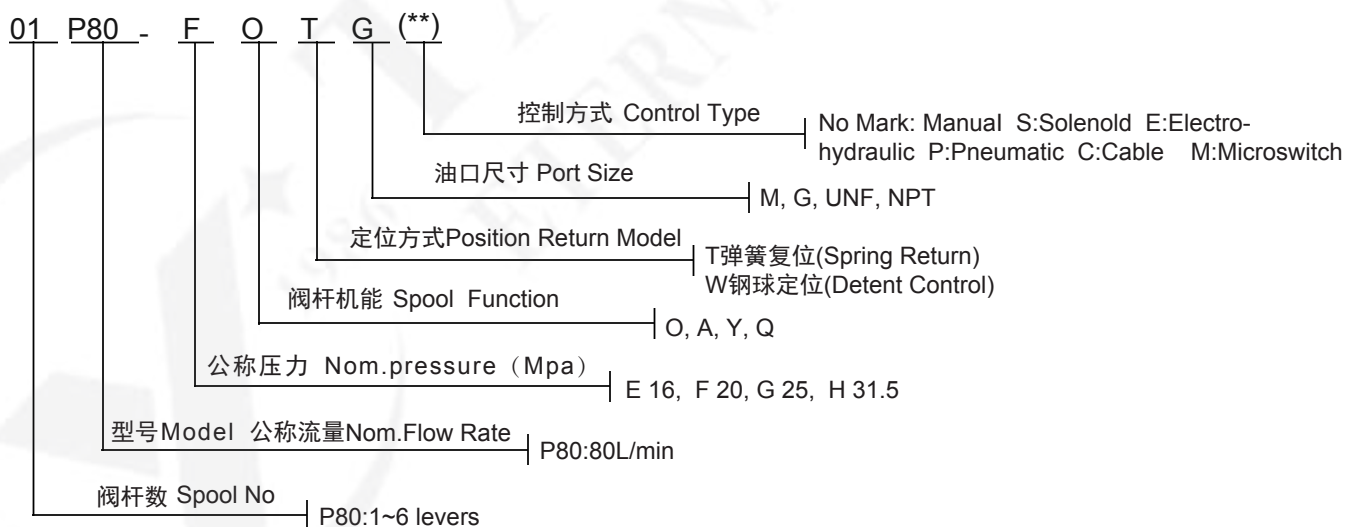
◆ Valve construction: monoblock construction, 1-6 levers.

◆ Spool Function: O,Y, P,A.

◆ Option:Hydraulic lock is available to be added on A and B port.

◆ Available manual, pneumatic control, electric and pneumatic control, hydraulic and electric control and etc.

型号说明/MODEL CODE



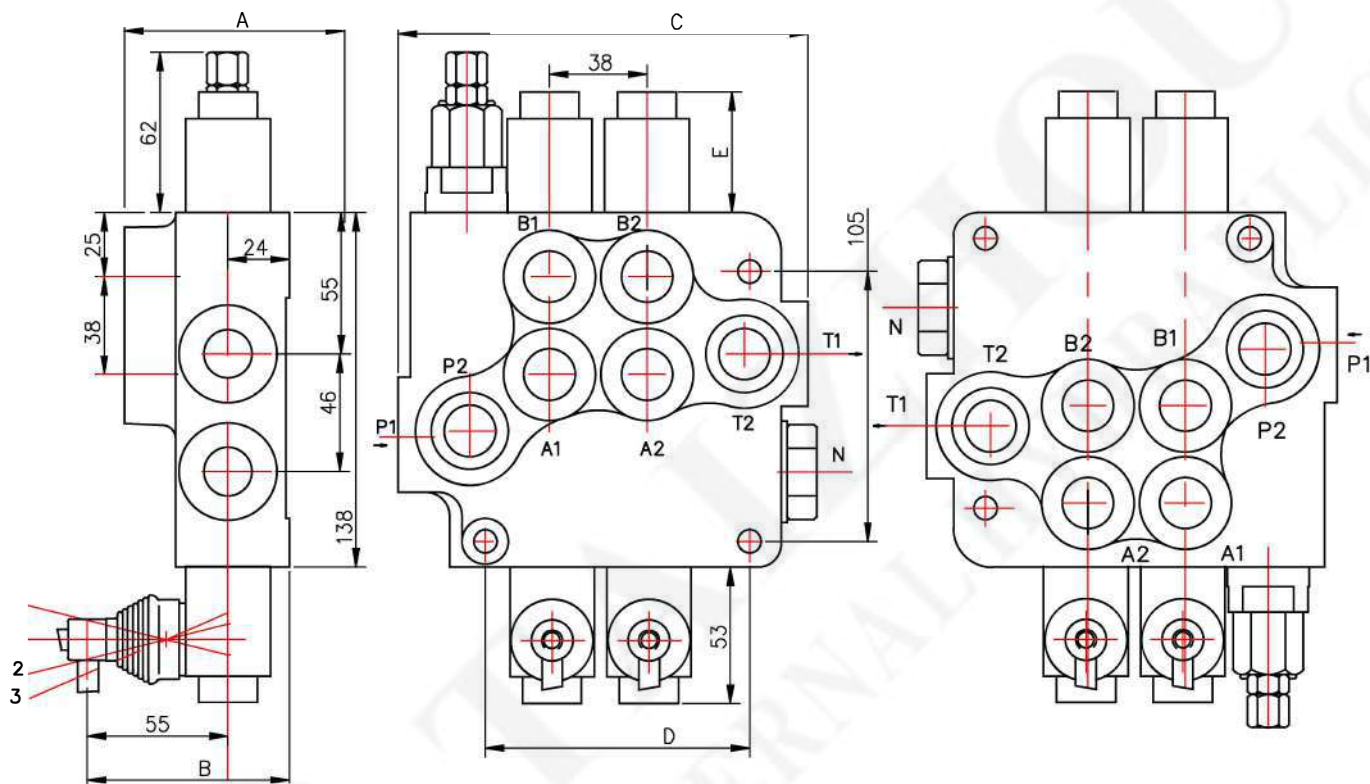
技术参数/PARAMETERS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	最大流量 (L/min) Max. Flow rate	中位背压 (MPa) Back Pressure	工作油液hydraulic oil		
					温度范围 (℃) Tem.rang	粘度范围 (mm ² /S) Visc.rang	过滤精度 (μm) filtrating accuracy
20	31.5	80	80	≤1	-20 ~ +80	10 ~ 400	≤10

P80 系列整体阀

P80 Series Monoblock Directional Control Valves

P80外形安装连接尺寸/MODEL P80 DIMENSIONAL DATA



	A	B	C	D
1P80	65	79	107	65
2P80	80	94	160	103
3P80	80	94	198	141
4P80	80	94	236	179
5P80	80	94	274	217
6P80	80	94	312	255

注：订货有特殊要求者，请与销售顾问联系。

Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

P80系列电磁控整体阀

P80 Solenoid Control Valve

用途与特征/APPLICATIONS&FEATURES

P80系列电磁控整体式多路阀是我公司引进欧洲的一种中高压、电磁阀控制的整体多路阀。该阀采用并联或者串联油路，设计有压力输出口与其他液压元件相连接提供动力源。经过特殊设计的密封方式，使阀的密封性能卓越。该阀广泛应用于叉车、环卫车辆、小型装载机工程机械的液压系统。



P80 series valves with middle-high pressure monoblock construction is developed based on Europe technology.

◆ The monoblock directional control valves-solenoid operated, offer perfect choice whether you are designing a new system or just simply trying to get more out of your current system. With two special spools and 6 different monoblock housings these valves can meet the specific needs of your application and hydraulic schemes by their double acting in 3 positions A and D spools.

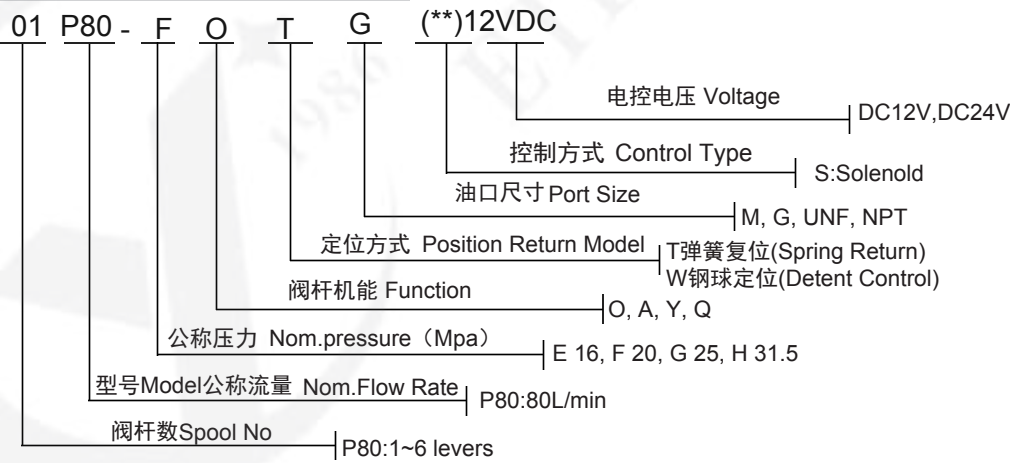
◆ Inner check valve: The check valve inside the valve body is to insure the hydraulic oil not to be returned.

◆ Inner relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.

- ◆ Oil way: Parallel circuit, power beyond option
- ◆ Coils, Connector ISO4400: 12VDC, 24VDC
- ◆ Threads:P,A,B-G1/2, SAE10, T-G3/4,SAE12
- ◆ Valve construction: Monoblock construction, 1-6 levers.

Precise bore honing and spool grinding results in less cross-port leakage and less wasted energy. These precise valves also allow for interchangeable spools for easy on place maintainance.

型号说明/MODEL CODE



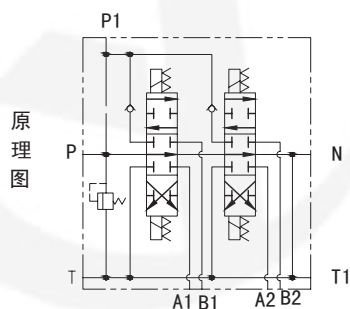
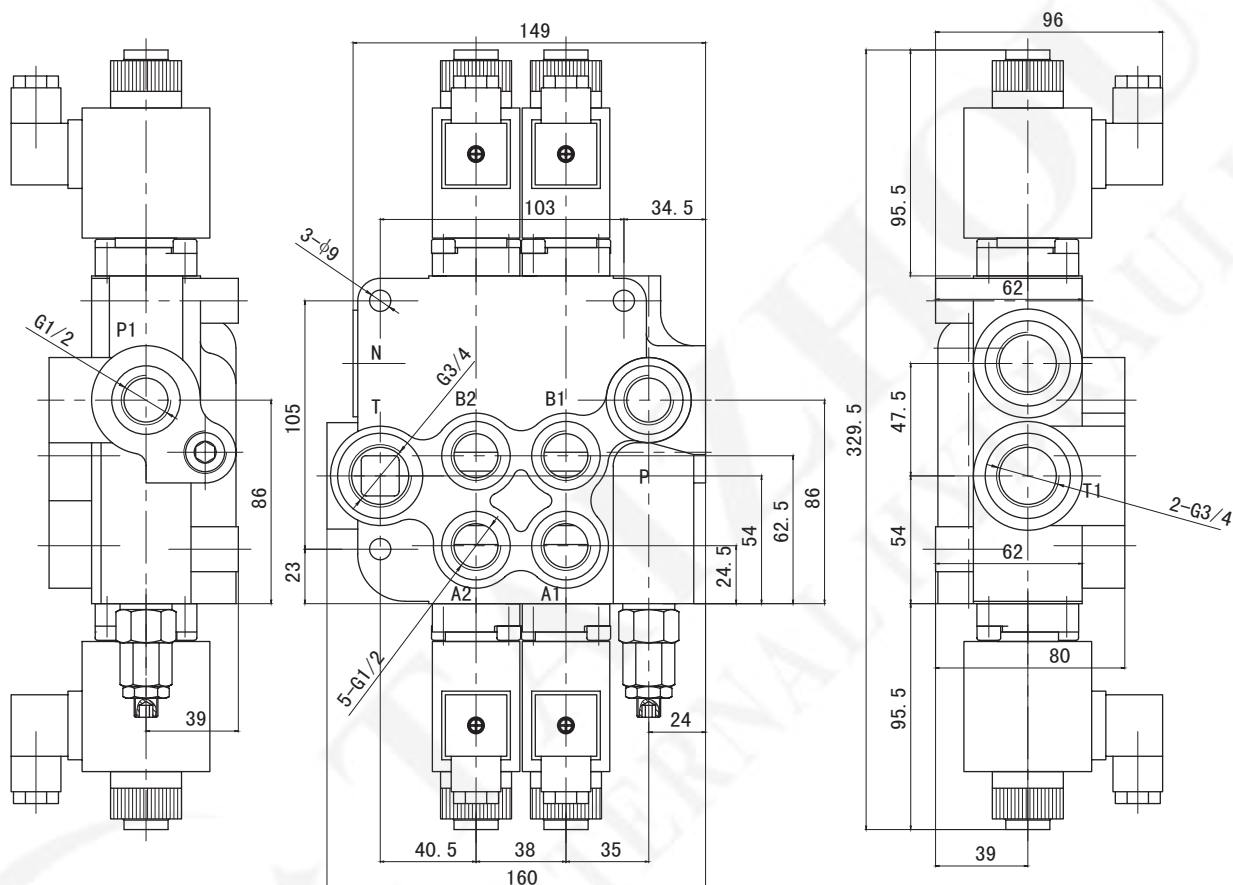
技术参数/PARAMETERS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	最大流量 (L/min) Max. Flow rate	中位背压 (MPa) Back Pressure	工作油液hydraulic oil		
					温度范围 (℃) Tem.rang	粘度范围 (mm2/S) Visc.rang	过滤精度 (μm) filtrating accuracy
20	31	80	80	≤1	-20 ~ +80	10 ~ 400	≤10

P80系列电磁控整体阀

P80 Solenoid Control Valve

P80外形安装连接尺寸/MODELR P80 DIMENSIONAL DATA



- 技术参数:
1. 公称压力 20MPa
 2. 额定流量 80L/min

注: 订货有特殊要求者, 请与销售顾问联系。

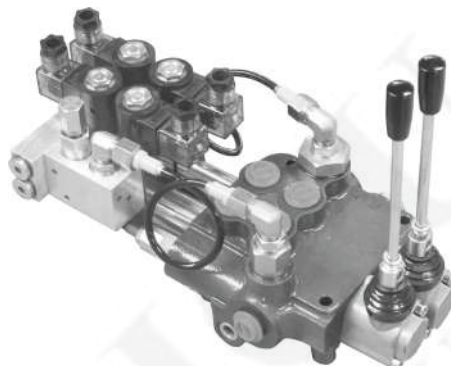
Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

P80 系列电液控多路阀

P80 Electric and Hydraulic Control Valve

用途与特征/APPLICATIONS&FEATURES

P80系列整体式多路阀是我公司引进欧洲的种中高压整体式多路阀。可按客户要求可在阀上设溢流阀、单向阀。溢流阀可调节压力，单向阀防止油液倒流。换向阀的滑阀机能可有A,O,P,Y等，可任意组合，换向手柄有两种安装形式，便于不同方向的操作，该阀采用并联或者串联油路，设计有压力输出口与其他液压元件相连接提供动力源。经过特殊设计的密封方式，使阀的密封性能卓越。该阀广泛应用于叉车、环卫车辆、小型装载机等工程机械的液压系统。



P80 series valves with middle-high pressure monoblock construction is developed based on Europe technology.

◆ Inner check valve: The check valve inside the valve body is to insure the hydraulic oil will not be returned.

◆ Inner relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.

◆ Oil way: Parallel circuit, power beyond option

◆ Control Way: Manual control, pneumatic control, hydraulic and electric control for optional.

◆ Valve construction: monoblock construction, 1-6 levers.

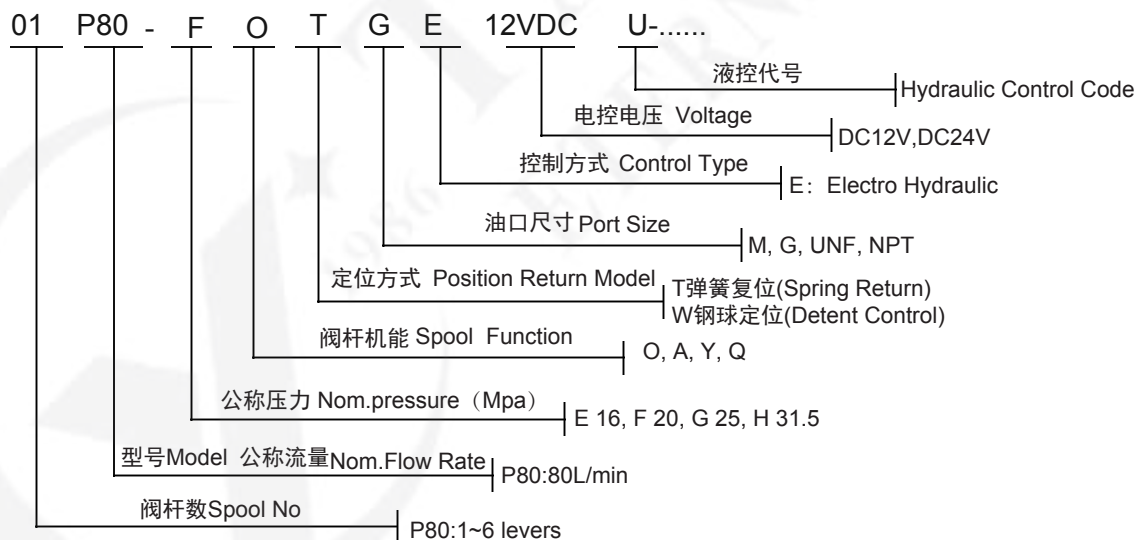
◆ Spool Function: O,Y, P,A.

◆ Option: Hydraulic lock is available to be added on A and B port.

◆ Available with manual, pneumatic control, electric and pneumatic control, hydraulic and electric

control and etc.

型号说明/MODEL CODE



技术参数/PARAMETERS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	最大流量 (L/min) Max. Flow rate	中位背压 (MPa) Back Pressure	工作油液hydraulic oil		
					温度范围 (℃) Tem.rang	粘度范围 (mm ² /S) Visc.rang	过滤精度 (μm) filtrating accuracy
20	31.5	80	80	≤1	-20 ~ +80	10 ~ 400	≤10

P80 系列电液控多路阀

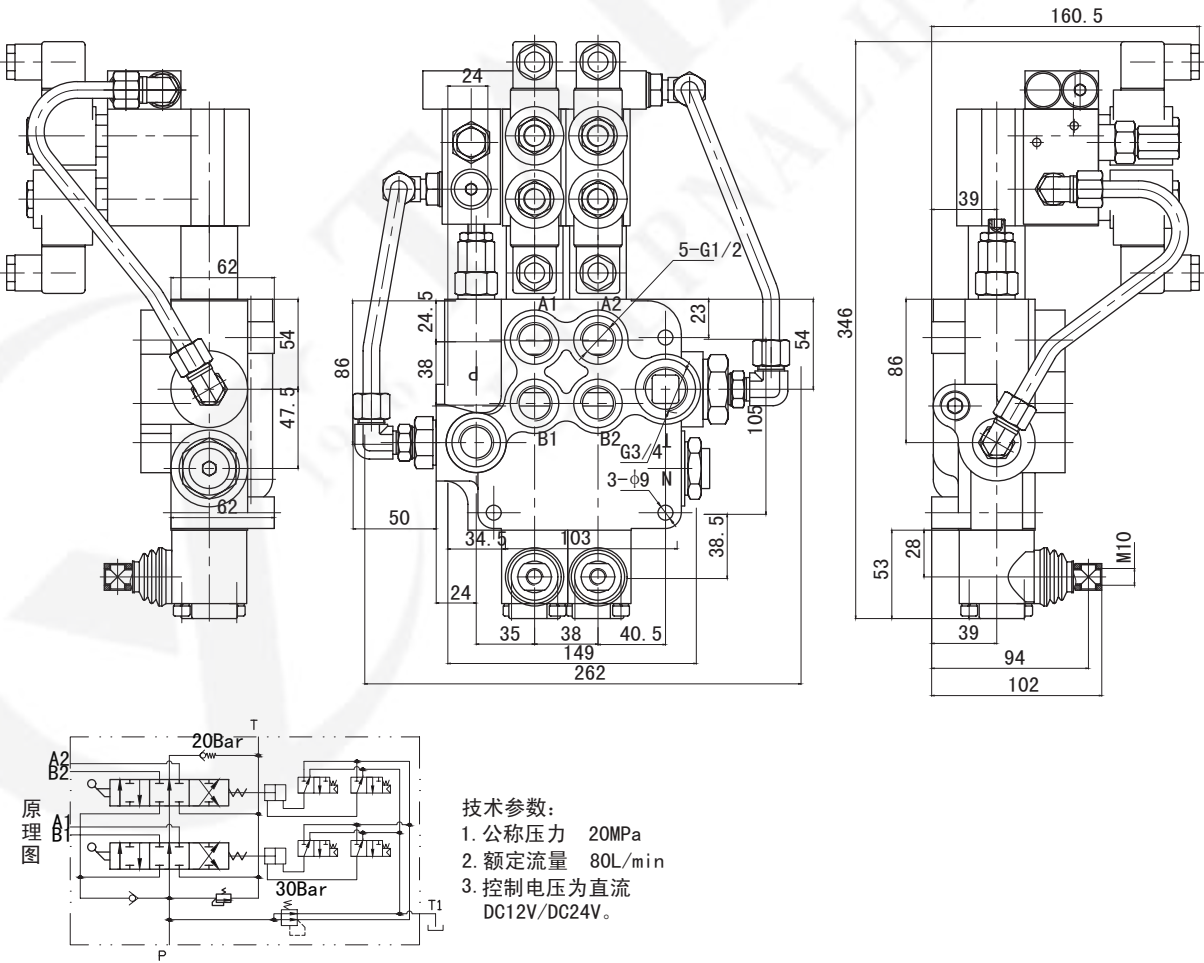
P80 Electric and Hydraulic Control Valve

油口尺寸/PORT SIZE

油口 MAIN PORTS	英制 BSP	美制 UN-UNF	公制 METRIC
进油口 Inlet P	G1/2	7/8-14UNF	M22 × 1,5
工作油口 Ports A and B	G1/2	7/8-14UNF	M22 × 1,5
出油口 Outlet T	G3/4	1 1/16-14UNF	M26 × 1.5
高压输出口 carry-over C	G3/4	1 1/16-14UNF	M26 × 1.5

注：订货有特殊要求者，请与销售顾问联系。
Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

P80外形安装连接尺寸/MODEL P80 DIMENSIONAL DATA



ZP80 Series Monoblock Directional Control Valves

该阀广泛应用于工程机械、环卫机械、矿山机械和其他机械的液压系统。



- ◆ 安全阀：阀体内置溢流阀，可调节控制系统压力
- ◆ 油路形式：并联油路
- ◆ 控制方式：手动换向
- ◆ 阀体结构：整体结构，1连。
- ◆ 阀杆机能：O、A、Y等
- ◆ Relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.
- ◆ Oil way: Parallel circuit.
- ◆ Control Way: manual control
- ◆ Valve construction: monoblock construction, 1 lever
- ◆ Spool Function: O.A.Y etc.

01 ZP80 - F O T G (**) No Mark: Manual S:Solenoid
E:Electrohydraulic
P:Pneumatic C:Cable
M:Microswitch P:Pilot

控制方式 Control Type

油口尺寸 Port Size M, G, UNF, NPT

定位方式 Position Return Model T弹簧复位(Spring Return)
W钢球定位(Detent Control)

阀杆机能 Spool Function O, A, Y, Q

公称压力 Nom.pressure (Mpa) E 16, F 20, G 25, H 31.5

型号 Model 公称流量 Nom.Flow Rate ZP80:80L/min

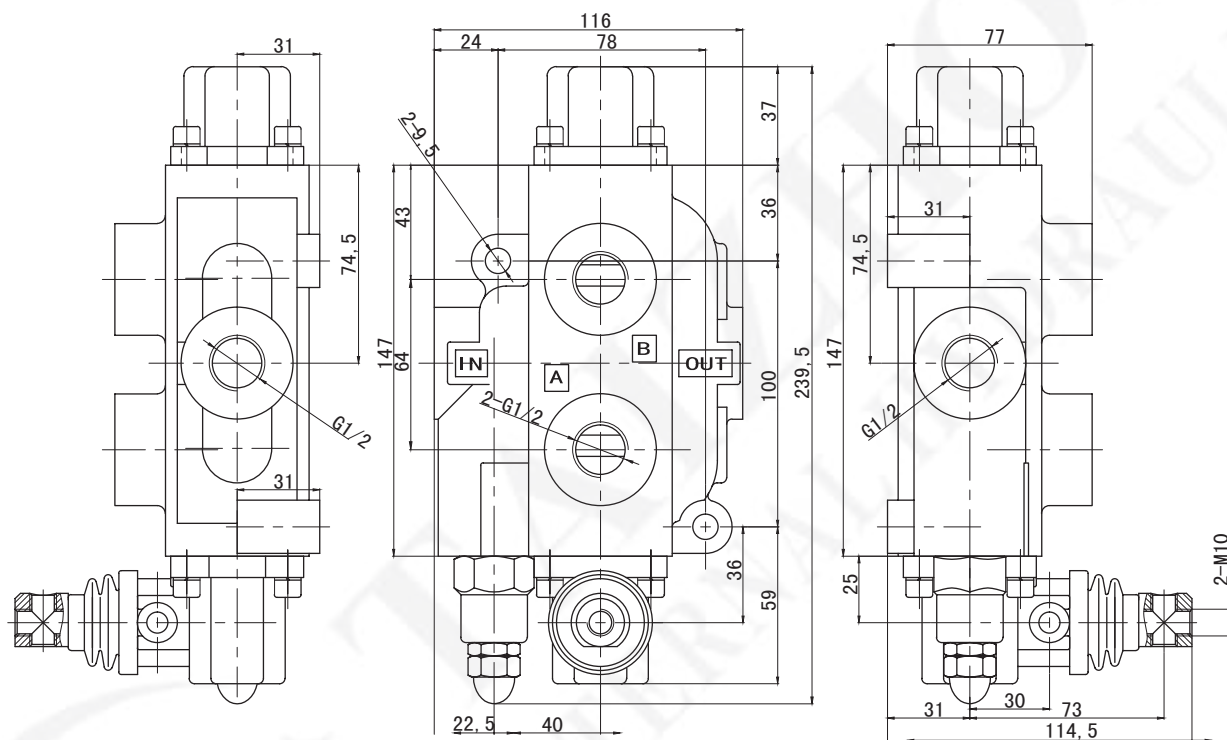
阀杆数 Spool No ZP80:1levers

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	最大流量 (L/min) Max. Flow rate	中位背压 (MPa) Back Pressure	工作油液hydraulic oil		
					温度范围 (℃) Tem.rang	粘度范围 (mm2/S) Visc.rang	过滤精度 (μm) filtrating accuracy
20	31	80	80	≤1	-20 ~ +80	10 ~ 400	≤10

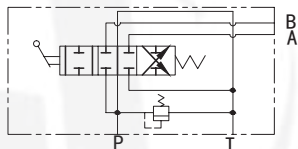
ZP80 系列整体阀

ZP80 Series Monoblock Directional Control Valves

ZP80外形安装连接尺寸/MODEL ZP80 DIMENSIONAL DATA



原理图



技术参数:

1. 公称压力 20MPa
3. 额定流量 80L/min

P120系列整体阀

P120 Series Monoblock Directional Control Valves

用途与特征/APPLICATIONS&FEATURES

P120(SD18)整体阀引进了欧洲先进技术，具有结构紧凑、流量120L/min、重量轻、耐高压。该阀采用并联油路，设计有压力输出口与其他液压元件相连接提供动力源。该阀广泛应用于工程机械、环卫机械、油田设备、矿山机械和其他机械的液压系统。

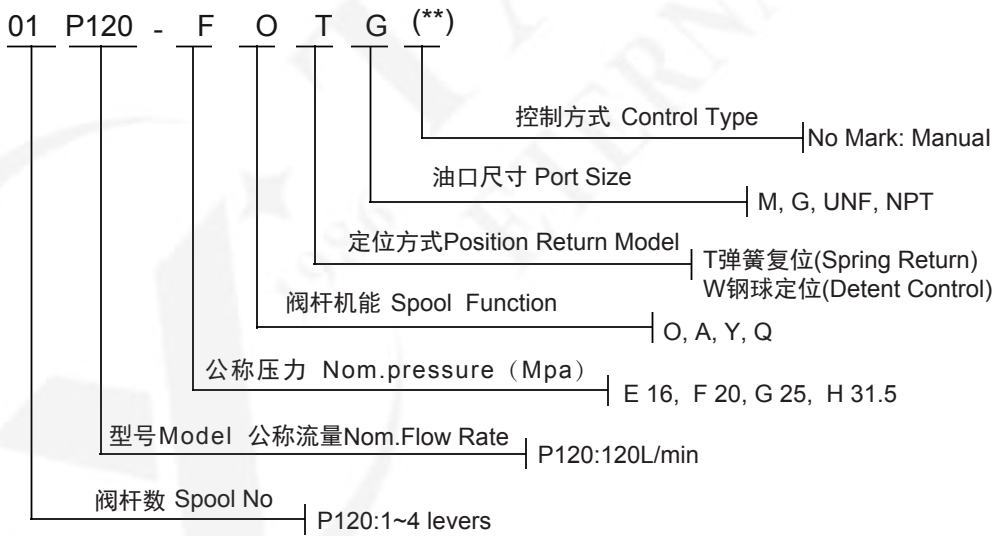


产品特点/FEATURES

Simple, compact and heavy duty designed monoblock from 1 to 4 sections for open and closed center hydraulic systems.

- ◆ Fitted with a direct or pilot operated main pressure relief valve.
- ◆ Parallel circuit.
- ◆ Optional carry-over port.
- ◆ Diameter 25 mm - 0.98 in interchangeable spools.
- ◆ A wide variety of service port valves.
- ◆ Available manual, pneumatic, electro-pneumatic, hydraulic and electro-hydraulic spool control kits.

型号说明/MODEL CODE



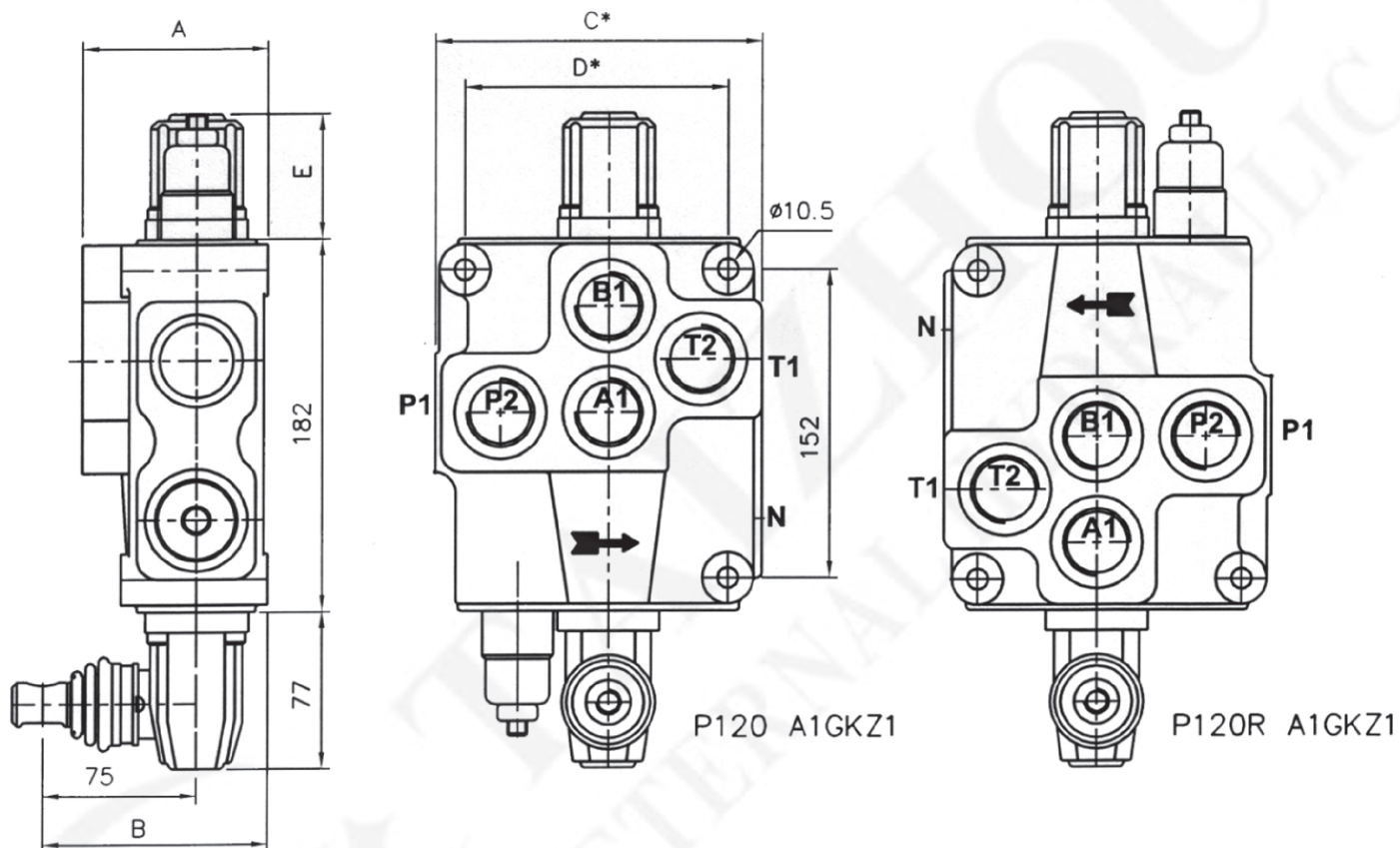
技术参数/PARAMETERS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	最大流量 (L/min) Max. Flow rate	中位背压 (MPa) Back Pressure	工作油液hydraulic oil		
					温度范围 (℃) Tem.rang	粘度范围 (mm2/S) Visc.rang	过滤精度 (μm) filtrating accuracy
20	31.5	120	120	≤1	-20 ~ +80	10 ~ 400	≤10

P120系列整体阀

P120 Series Monoblock Directional Control Valves

P120外形安装连接尺寸/MODEL P120DIMENSIONAL DATA



	A	B	C	D
1P120	90	110	212	182
2P120	90	110	267	235
3P120	90	110	320	288
4P120	90	110	373	341

注：订货有特殊要求者，请与销售顾问联系。

Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

ZD-L102系列整体阀

ZD-L102 Series Monoblock Directional Control Valves.

用途与特征/APPLICATIONS&FEATURES

ZD-L102多路换向阀是我单位自主设计开发的一种中高压整体式多路换向阀。可按客户要求，在阀上设溢流阀、单向阀等。溢流阀可调节系统压力，单向阀防止油液倒流，换向阀滑阀机能可有A、O、Y、P等，可任意组合，换向手柄有两种安装形式，便于不同方向的操作，并采用并联油路。经过特殊设计的密封方式，使阀的密封性能卓越。该阀广泛用于叉车、环卫车辆、小型装载机等工程机械的液压系统。



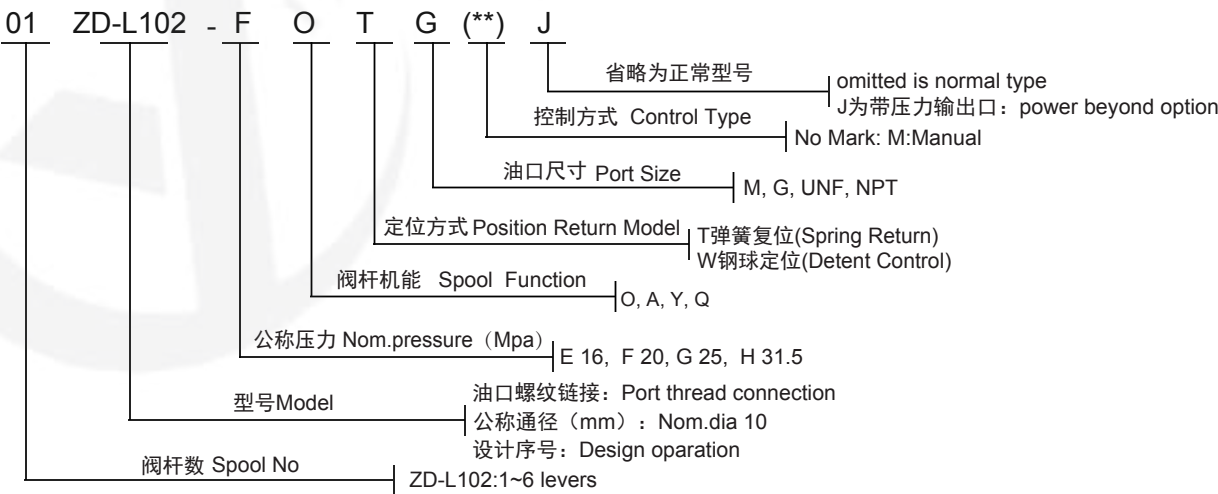
- Model ZD-L102 with middle-high pressure monoblock construction is an independently developed control valves by our company.
- ◆ Inner check valve: The check valve inside the valve body is to insure the hydraulic oil not to be returned.
 - ◆ Inner relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.
 - ◆ Oil way: Parallel circuit
 - ◆ Control Way: Manual control
 - ◆ Valve construction: monoblock construction, 1-3 levers.
 - ◆ Spool Function: O,Y, P,A.

性能参数/SPECIFICATIONS

公称压力 Nominal Pressure (Mpa)	最大压力 Max. pressure (Mpa)	公称流量 Nom. flow (L/min)	允许背压 Allowable Back. pressure (Mpa)	工作油液 Hydraulic Oil		
				温度范围 Tem.range (℃)	粘度范围 Visc.range (mm2/s)	过滤精度 Filtrating accuracy (μ m)
16	20	40	≤ 1	-20~+80	10~400	≤ 10

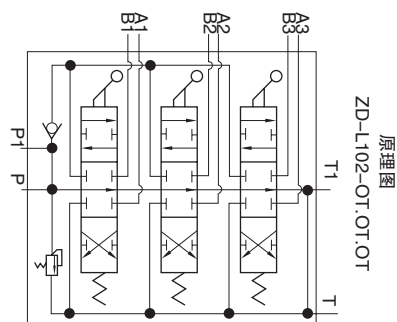
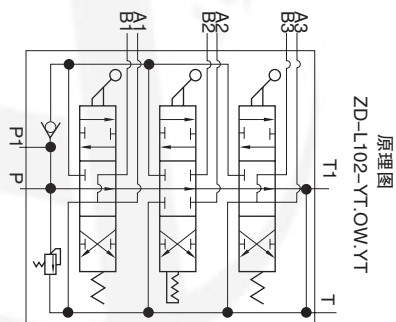
注：油液最高污染等级：按GB/T14039之19/16
Note:maximum permissible degree of contamination of the oil is according to GB/T14039-19/16

型号说明/MODEL CODE



注：订货有特殊要求者，请与销售顾问联系。
Note: Special features not listed on can often be made to your specifications. Please consult your sales representative.

ZD-L102 Series Monoblock Directional Control Valves.

[illegible]

BDL-L40系列整体阀

BDL-L40 Series Monoblock Directional Control Valves.

用途与特征/APPLICATIONS&FEATURES

BDL-L40多路换向阀是我单位主要设计开发的一种中高压整体式换向阀，可按客户要求可在阀上设溢流阀。溢流阀可调节系统压力，换向阀机能有M.O.Y.P。该阀广泛用于叉车、环卫车辆、小型装载机等工程机械的液压系统。

Model BDL-L40 with middle-high pressure monoblock and single spool construction is an independently developed control valves by our company.

- ◆ Inner relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.
- ◆ Oil way: Parallel circuit,
- ◆ Control Way: Manual control
- ◆ Valve construction: monoblock construction, single levers.
- ◆ Spool Function: M,O,Y, P.



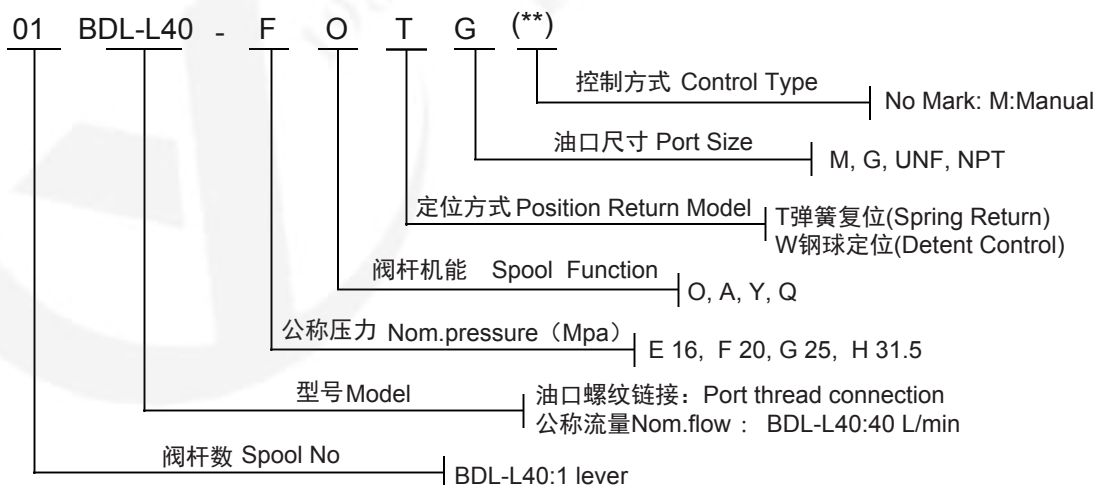
性能参数/SPECIFICATIONS

公称压力 Nominal Pressure (Mpa)	最大压力 Max. pressure (Mpa)	公称流量 Nom. flow (L/min)	允许背压 Allowable Back. pressure (Mpa)	工作油液Hydraulic Oil		
				温度范围 Tem.range (°C)	粘度范围 Visc.range (mm2/s)	过滤精度 Filtrating accuracy (μm)
16	25	40	≤1	-20~+80	10~400	≤10

注：油液最高污染等级:按GB/T14039之19/16

Note: maximum permissible degree of contamination of the oil is according to GB/T14039-19/16

型号说明/MODEL CODE



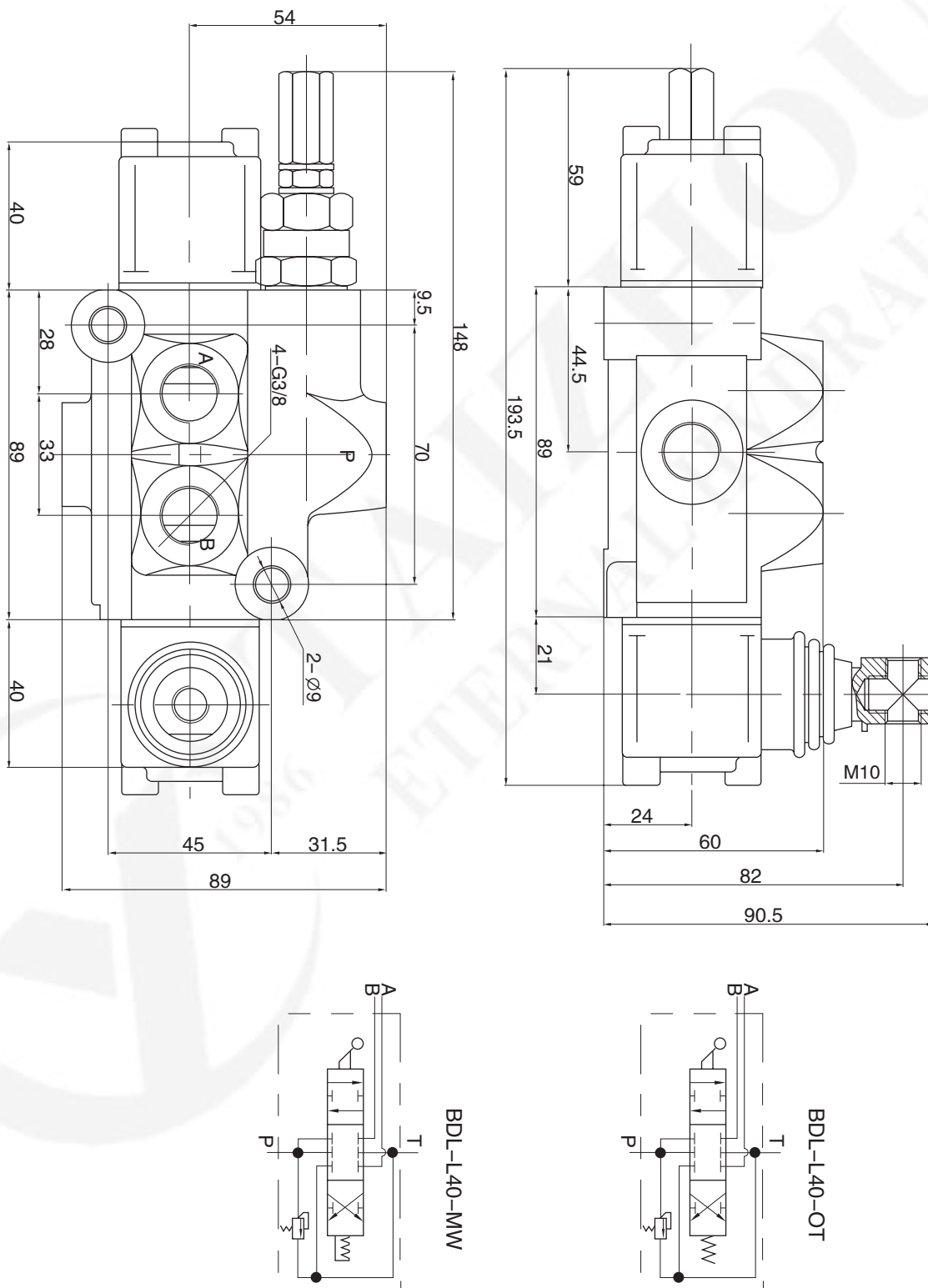
注：订货有特殊要求者，请与您的销售代表联系。

Notes: Special features not listed can often be made to your specifications, Please consult your sales representative.

BDL-L40系列整体阀

BDL-L40 Series Monoblock Directional Control Valves.

BDL-L40外形安装连接尺寸/Model BDL-L40 DIMENSIONAL DATA



ZD-L15系列整体阀

ZD-L15 Series Monoblock Directional Control Valves.

用途与特征/APPLICATIONS&FEATURES

ZD-L15多路换向阀是我单位自主设计开发的一种中高压整体式多路换向阀。可按客户要求可在阀上设溢流阀、单向阀、补油阀等。溢流阀可调节系统压力，单向阀防止油液倒流，换向阀滑阀机能可有A、O、Y、P等，可任意组合。换向手柄有两种安装形式，便于不同方向的操作。该阀采用并联油路，设计有压力出口与其它液压元件相接提供动力源。经过特殊设计的密封方式，使阀的密封性能卓越。该阀广泛用于叉车、环卫车辆、小型装载机等工程机械的液压系统。



Model ZD-L15 with middle-high pressure monoblock construction is an independently developed control valves by our company.

◆ Inner check valve: The check valve inside the valve body is to insure the hydraulic oil not to be returned.

◆ Inner relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.

◆ Oil way: Parallel circuit, power beyond option

◆ Control Way: Manual control, pneumatic control, hydraulic and electric control for optional.

◆ Valve construction: monoblock construction, 2-4 levers.

◆ Spool Function: O, Y, P, A.

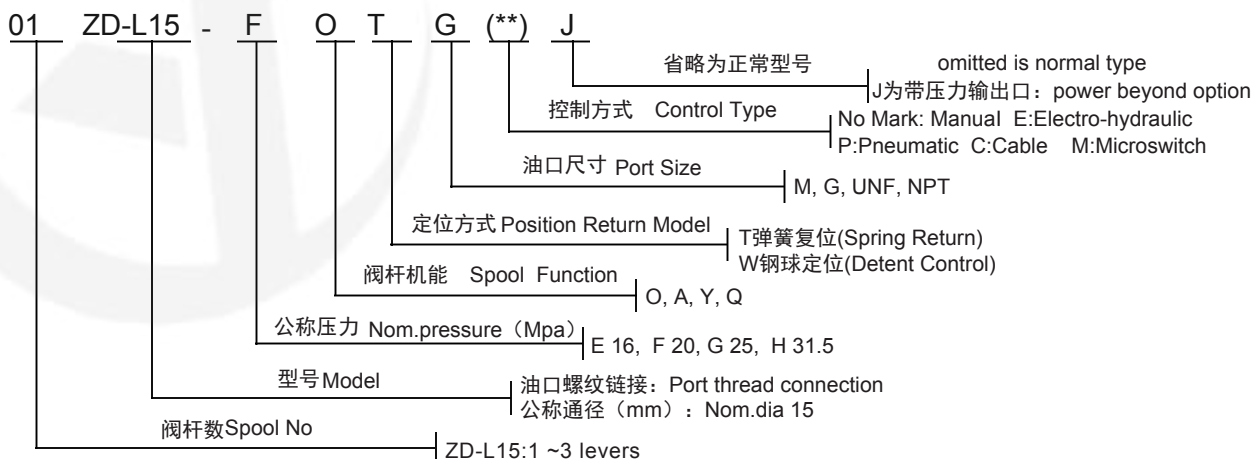
性能参数/SPECIFICATIONS

公称压力 Nominal Pressure (Mpa)	最大压力 Max. pressure (Mpa)	公称流量 Nom. flow (L/min)	允许背压 Allowable Back. pressure (Mpa)	工作油液 Hydraulic Oil		
				温度范围 Tem.range (°C)	粘度范围 Visc.range (mm ² /s)	过滤精度 Filtrating accuracy (μm)
16	31.5	63	≤1	-20~+80	10~400	≤10

注：油液最高污染等级：按GB/T14039之19/16

Note: maximum permissible degree of contamination of the oil is according to GB/T14039-19/16

型号说明/MODEL CODE



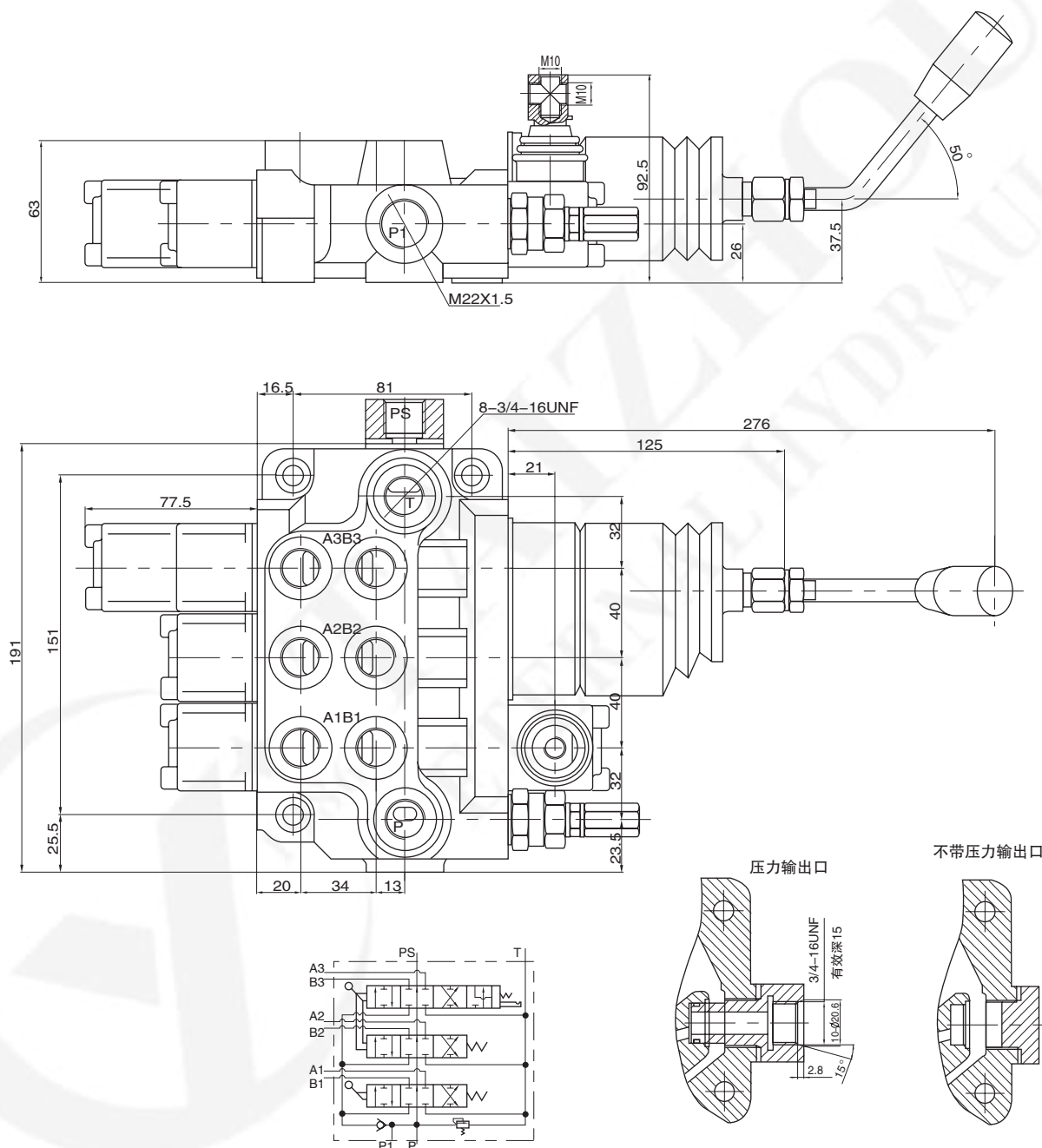
注：订货有特殊要求者，请与您的销售代表联系。

Notes: Special features not listed can often be made to your specifications, Please consult your sales representative.

ZD-L15系列整体阀

ZD-L15 Series Monoblock Directional Control Valves.

ZD-L15外形安装连接尺寸/MODEL ZD-L15 DIMENSIONAL DATA



ZD-L15气控系列多路阀

ZD-L15 Pneumatic Control Valve

产品特点 /APPLICATIONS&FEATURES

ZD-L15气控系列多路阀是在ZD-L15手动控制系列的基础上改进而来。它主要是改变了手动换向阀的操纵机构，在手动的基础上增加了气动控制，能够更好地实现远程控制。ZD-L15系列多路阀的回油端设置了压力输出口，可与其他液压元件串联使用。该阀为整体式，具有结构紧凑，工作压力高，性能好，工作可靠，可实现多个执行机构的近、远程控制的优点。根据用户需要，换向阀的操纵机构可以和普通手动控制进行任意组合。该阀广泛应用于工程机械、环卫机械、矿山机械和其他机械的液压系统。

ZD-L15 series pneumatic control valves are developed on ZD-L15 manual control valves. It changed the control way of these valves, especially, it can be controlled by remote control with the pneumatic control way. The power beyond function is on the ZD-L15 series, it is able to be connected with other hydraulic valves in series. The features of the monoblock construction ZD-L15 pneumatic control valves are compact construction, high working pressure, better functions, reliable working, remote controlling and etc. Besides that, the manual control can be used with the pneumatic control together. The valves are widely used on mechanical machines, sanitation machines, mining machines and other machines' hydraulic systems.

◆ 内置单向阀：阀体内置单向阀，防止油液倒流

◆ Inner check valve: The check valve inside the valve body is to insure the hydraulic oil not be returned.

◆ 内置安全阀：阀体内置溢流阀，可调节控制系统压力

Inner relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.

◆ 油路形式：并联油路，带压力输出口

Oil way: Parallel circuit, with power beyond.

◆ 控制方式：气控换向，也可手动换向

Control Way: pneumatic control, manual control

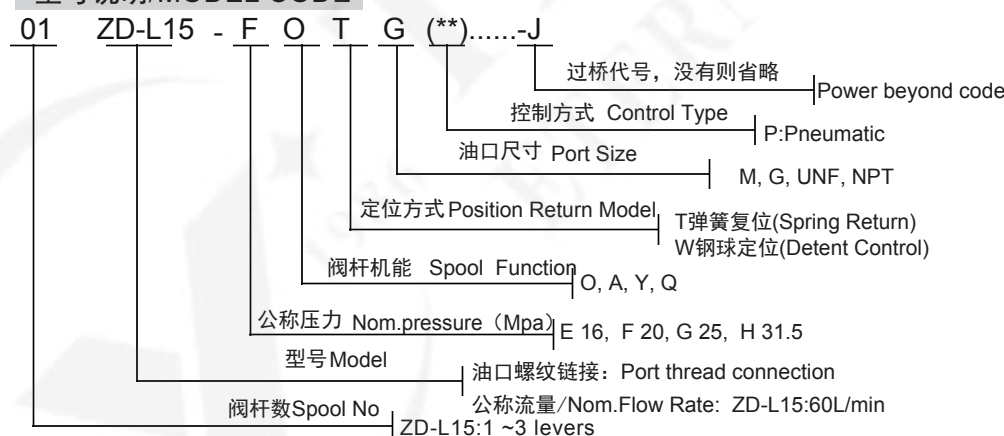
◆ 阀体结构：整体结构，2-4联任意组合

Valve construction: monoblock construction, 2-4 levers are available to assembled as you requests.

◆ 阀杆机能：O、A、Y等

Spool Function: O,A,Y etc.

型号说明/MODEL CODE



技术参数/PARAMETERS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	最大流量 (L/min) Max. Flow rate	中位背压 (MPa) Back Pressure	工作油液hydraulic oil		
					温度范围 (℃) Tem.rang	粘度范围 (mm ² /S) Visc.rang	过滤精度 (μm) filtrating accuracy
20	31.5	50	60	≤1	-20 ~ +80	10 ~ 400	≤10

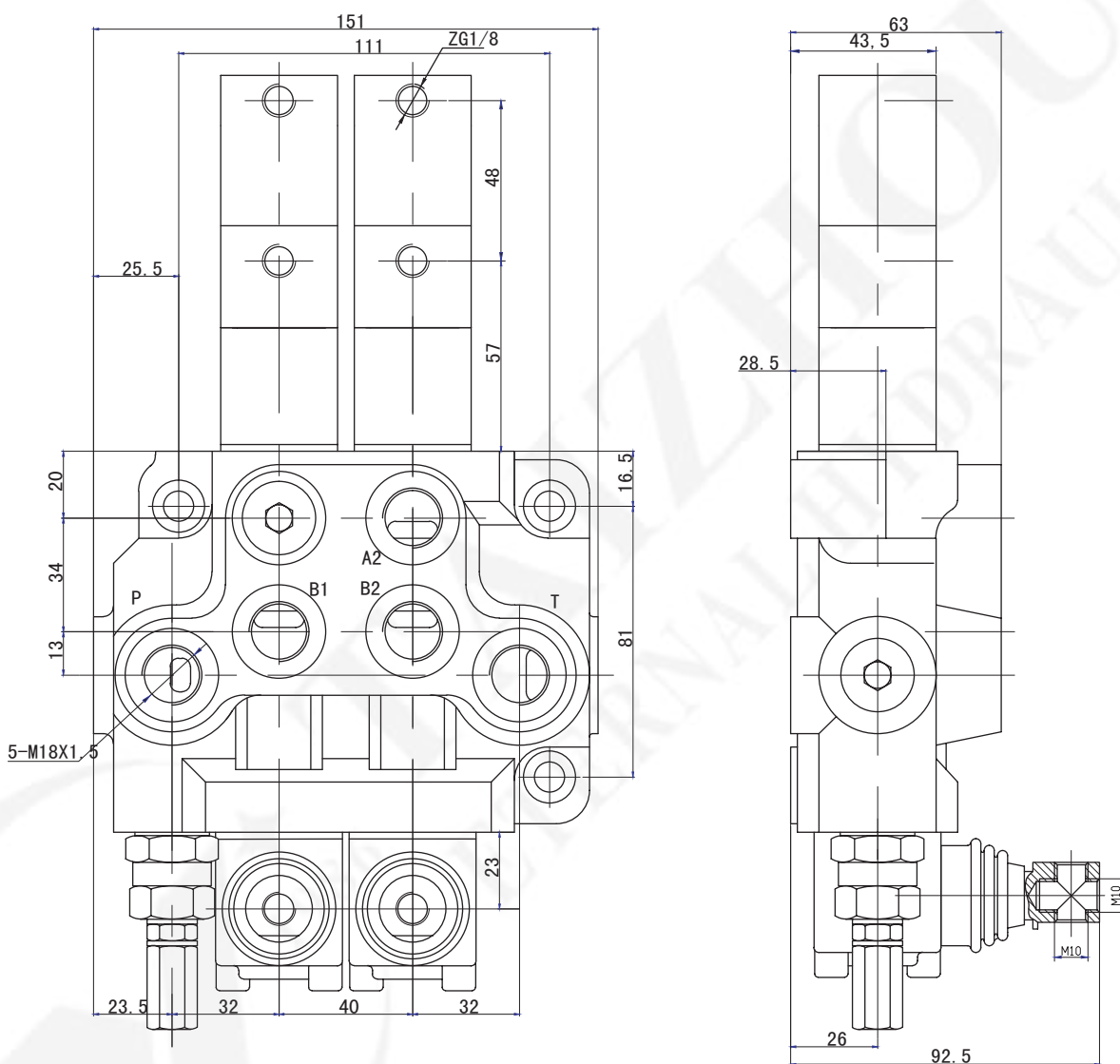
注：订货有特殊要求者，请与您的销售代表联系。

Notes:Special features not listed can often be made to your specifications, Please consult your sales representative.

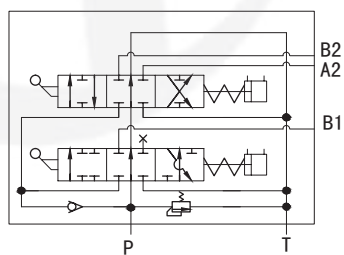
ZD-L15气控系列多路阀

ZD-L15 Pneumatic Control Valve

ZD-L15外形安装连接尺寸/MODEL ZD-L15 DIMENSIONAL DATA



原
理
图



技术参数:

1. 公称通径: 15mm
2. 公称压力: 16MPa,
3. 最大流量: 60L/min.

ZD-L15电气控系列整体阀

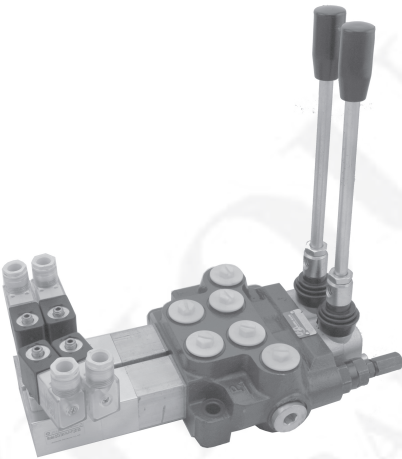
ZD-L15 Electric and Pneumatic Control Valve

用途与特征/APPLICATIONS&FEATURES

ZD-L15电气控制系列多路阀是在ZD-L15气控系列的基础上改进而来。它主要是改变了气控换向阀的操纵机构，在气控的基础上增加了电气控制，并且可以根据客户需求，安装无线遥控，能够更好地实现远程控制。该阀广泛应用于工程机械、环卫机械、矿山机械和其他机械的液压系统。

产品特点/FEATURES

- ◆ 内置单向阀：阀体内置单向阀，防止油液倒流
- ◆ 内置安全阀：阀体内置溢流阀，可调节控制系统压力
- ◆ 油路形式：并联油路，带压力输出口
- ◆ 控制方式：气控换向，也可手动换向
- ◆ 阀体结构：整体结构，2-4联任意组合
- ◆ 阀杆机能：O、A、Y等
- ◆ Inner check valve: The check valve inside the valve body to insure the hydraulic oil not to be returned.
- ◆ Inner relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.
- ◆ Oil way: Parallel circuit, with power beyond.
- ◆ Control Way: pneumatic control, manual control
- ◆ Valve construction: monoblock construction, 2-4 levers are available to be assembled as you requests.
- ◆ Spool Function: O,A,Y etc.

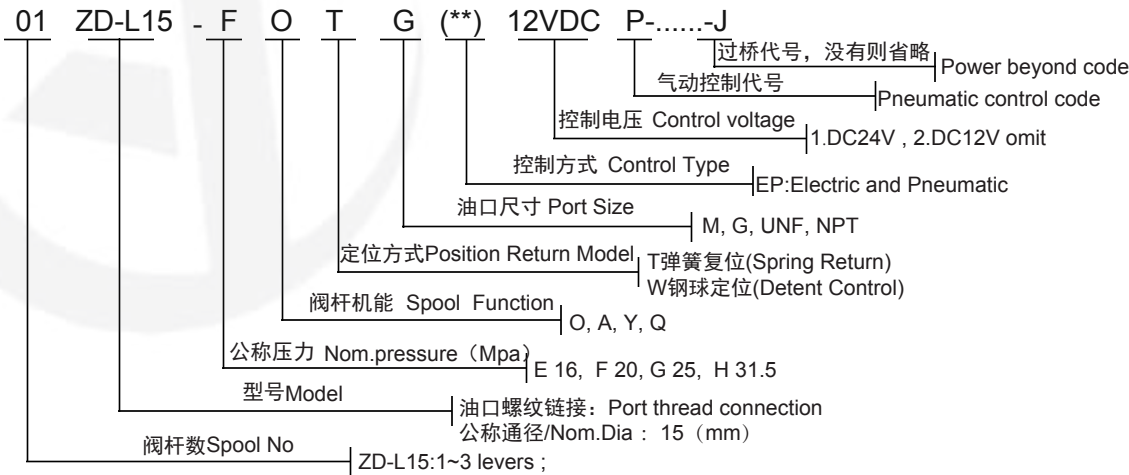


性能参数/SPECIFICATIONS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	最大流量 (L/min) Max. Flow rate	中位背压 (MPa) Back Pressure	工作油液hydraulic oil		
					温度范围 (℃) Tem.rang	粘度范围 (mm2/S) Visc.rang	过滤精度 (μm) filtrating accuracy
20	31.5	50	60	≤1	-20 ~ +80	10 ~ 400	≤10

注：油液最高污染等级:按GB/T14039之19/16
Note:maximum permissible degree of contamination of the oil is according to GB/T14039-19/16

型号说明/MODEL CODE

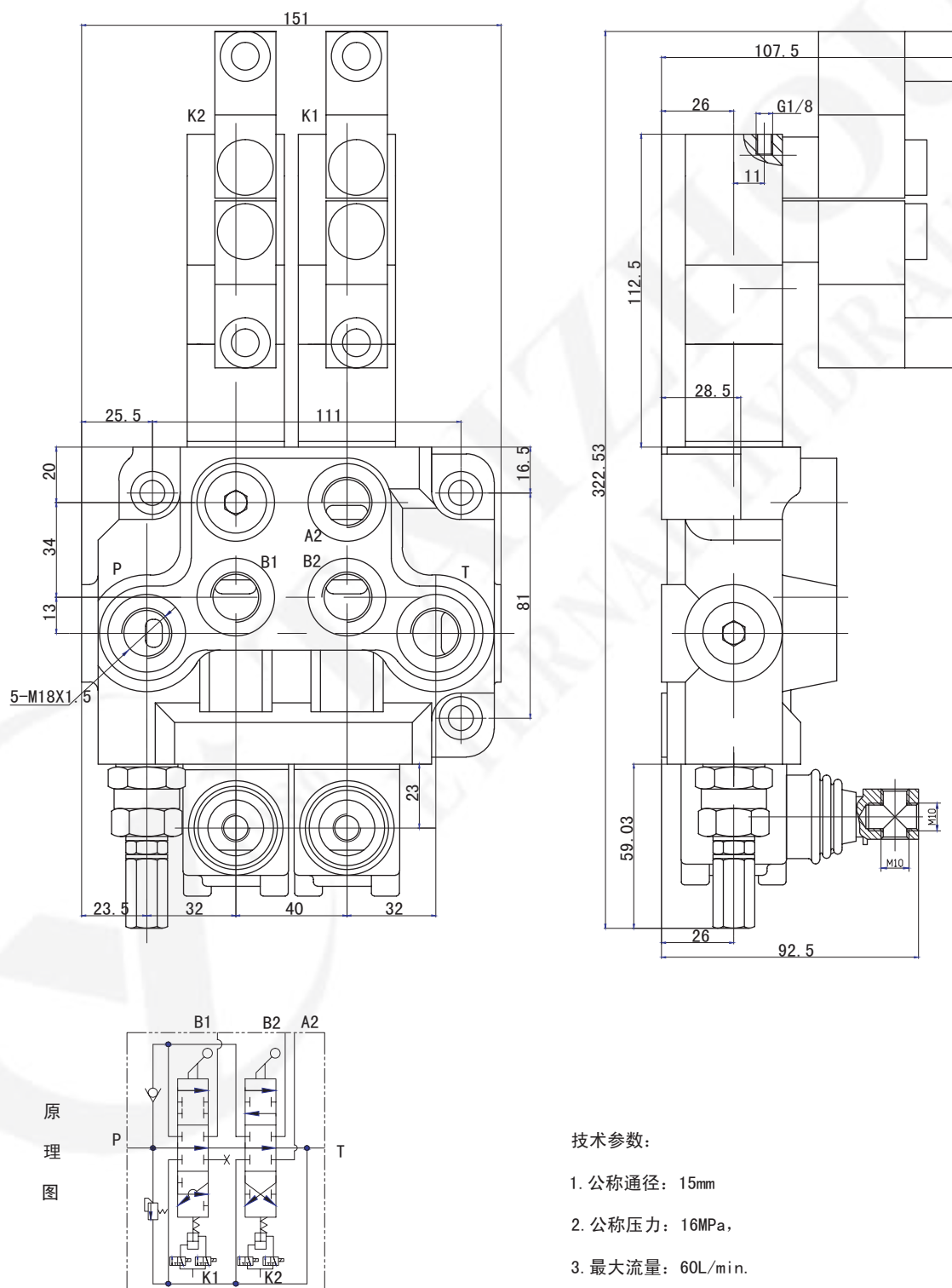


注：订货有特殊要求者，请与您的销售代表联系。
Notes:Special features not listed can often be made to your specifications, Please consult your sales representative.

ZD-L15电气控系列整体阀

ZD-L15 Series Electric and Pneumatic Directional Control Valves

ZD-L15外形安装连接尺寸 / MODEL ZD-L15 DIMENSIONAL DATA



技术参数:

1. 公称通径: 15mm
2. 公称压力: 16MPa,
3. 最大流量: 60L/min.

ZDa-L15系列整体阀

ZDa-L15 Series Monoblock Directional Control Valves.

用途与特征/APPLICATIONS&FEATURES

ZDa-L15多路换向阀是我单位自主设计开发的一种中高压整体式多路换向阀。可按客户要求可在阀上设溢流阀、单向阀。溢流阀可调节系统压力，单向阀防止油液倒流，换向阀滑阀机能A、O、Y、P等，可任意组合。换向手柄有两种安装形式，便于不同方向的操作，该阀采用并联油路，设计有压力出口与其它液压元件相接提供动力源。经过特殊设计的密封方式，使阀的密封性能卓越。该阀广泛用于叉车、环卫车辆、小型装载机等工程机械的液压系统。



Model ZDa-L15 with middle-high pressure monoblock construction is an independently developed control valves by our company.

- ◆ Inner check valve: The check valve inside the valve body is to insure the hydraulic oil not to be returned.
- ◆ Inner relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.
- ◆ Oil way: Parallel circuit, power beyond option
- ◆ Control Way: Manual control, pneumatic control, hydraulic and electric control for optional.
- ◆ Valve construction: monoblock construction, 1-7 levers.
- ◆ Spool Function: O, Y, P, A.
- ◆ The valve is widely used in the hydraulic system of forklift, environment vehicle and light loading machines.

性能参数/SPECIFICATIONS

公称压力 Nominal Pressure (Mpa)	最大压力 Max. pressure (Mpa)	公称流量 Nom. flow (L/min)	允许背压 Allowable Back. pressure (Mpa)	工作油液 Hydraulic Oil		
				温度范围 Tem.range (°C)	粘度范围 Visc.range (mm ² /s)	过滤精度 Filtrating accuracy (μm)
16	31.5	63	≤ 1	-20~+80	10~400	≤ 10

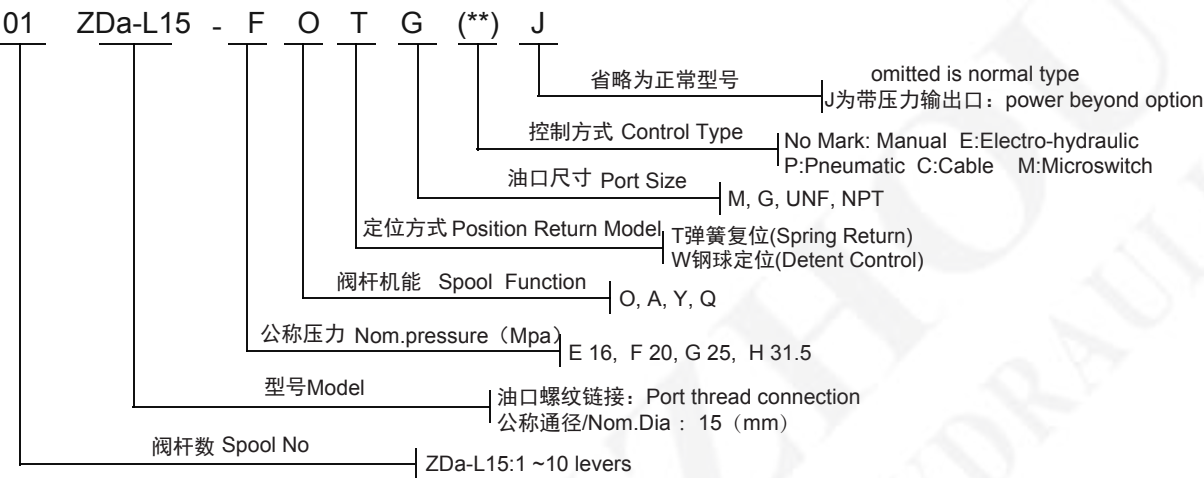
注：油液最高污染等级：按GB/T14039之19/16

Note: maximum permissible degree of contamination of the oil is according to GB/T14039-19/16

ZDa-L15系列整体阀

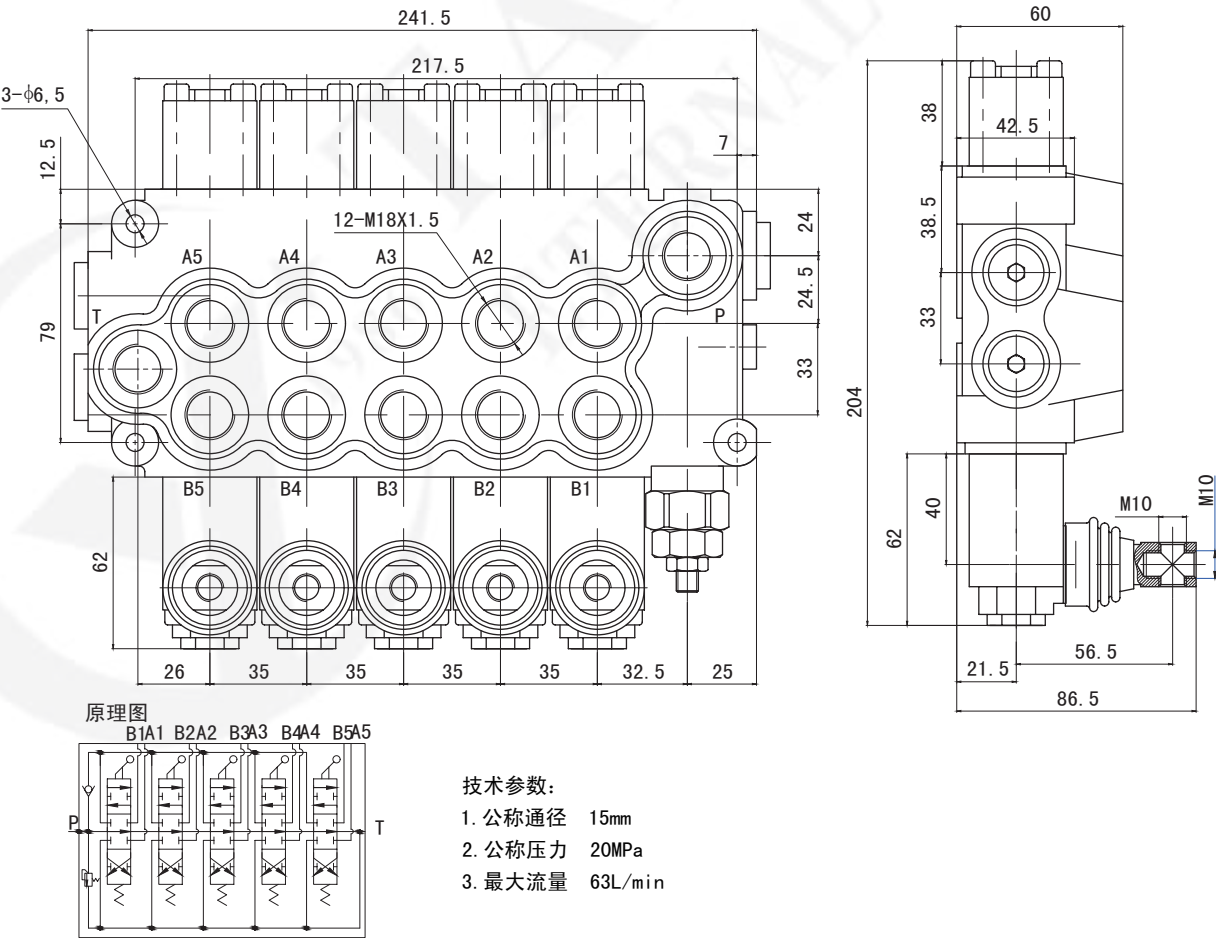
ZDa-L15 Series Monoblock Directional Control Valves.

型号说明/MODEL CODE



注: 订货有特殊要求者, 请与销售顾问联系。
Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

ZDa-L15外形安装连接尺寸/MODEL ZDa-L15 DIMENSIONAL DATA



ZDa-L15气控系列多路阀

ZDa-L15 Pneumatic Control Valve

产品描述/SPECIFICATION

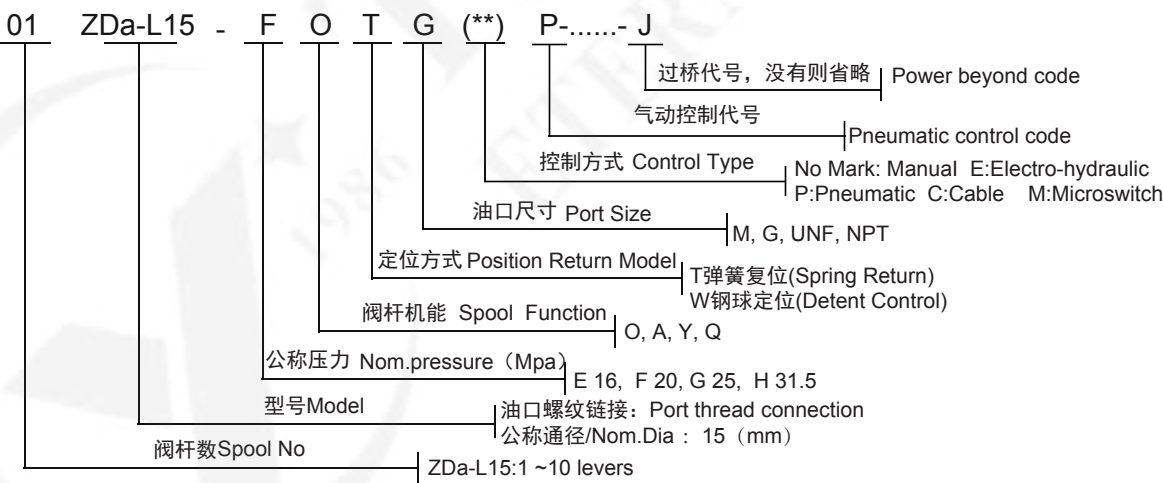
ZDa-L15气控系列多路阀是在ZDa-L15手动控制系列的基础上改进而来。它主要是改变了手动换向阀的操纵机构，在手动的基础上增加了气动控制，能够更好地实现远程控制。ZDa-L15系列多路阀的回油端设置了压力输出口，可与其他液压元件串联使用。该阀为整体式，具有结构紧凑，工作压力高，性能好，工作可靠，可实现多个执行机构的近、远程控制的优点。该阀广泛应用于工程机械、环卫机械、矿山机械和其他机械的液压系统。

产品特点/FEATURES

- ◆ 内置单向阀：阀体内置单向阀，防止油液倒流
- ◆ 内置安全阀：阀体内置溢流阀，可调节控制系统压力
- ◆ 油路形式：并联油路，带压力输出口
- ◆ 控制方式：气控换向，也可手动换向
- ◆ 阀体结构：整体结构，1-7联任意组合
 - ◆ 阀杆机能：O、A、Y等
 - ◆ Inner check valve: The check valve inside the valve body to insure the hydraulic oil not to be returned.
 - ◆ Inner relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.
 - ◆ Oil way: Parallel circuit, with power beyond.
 - ◆ Control Way: pneumatic control, manual control
 - ◆ Valve construction: monoblock construction, 1-7 levers are available to assembled as you requests.
 - ◆ Spool Function: O,A,Y etc.



型号说明/MODEL CODE



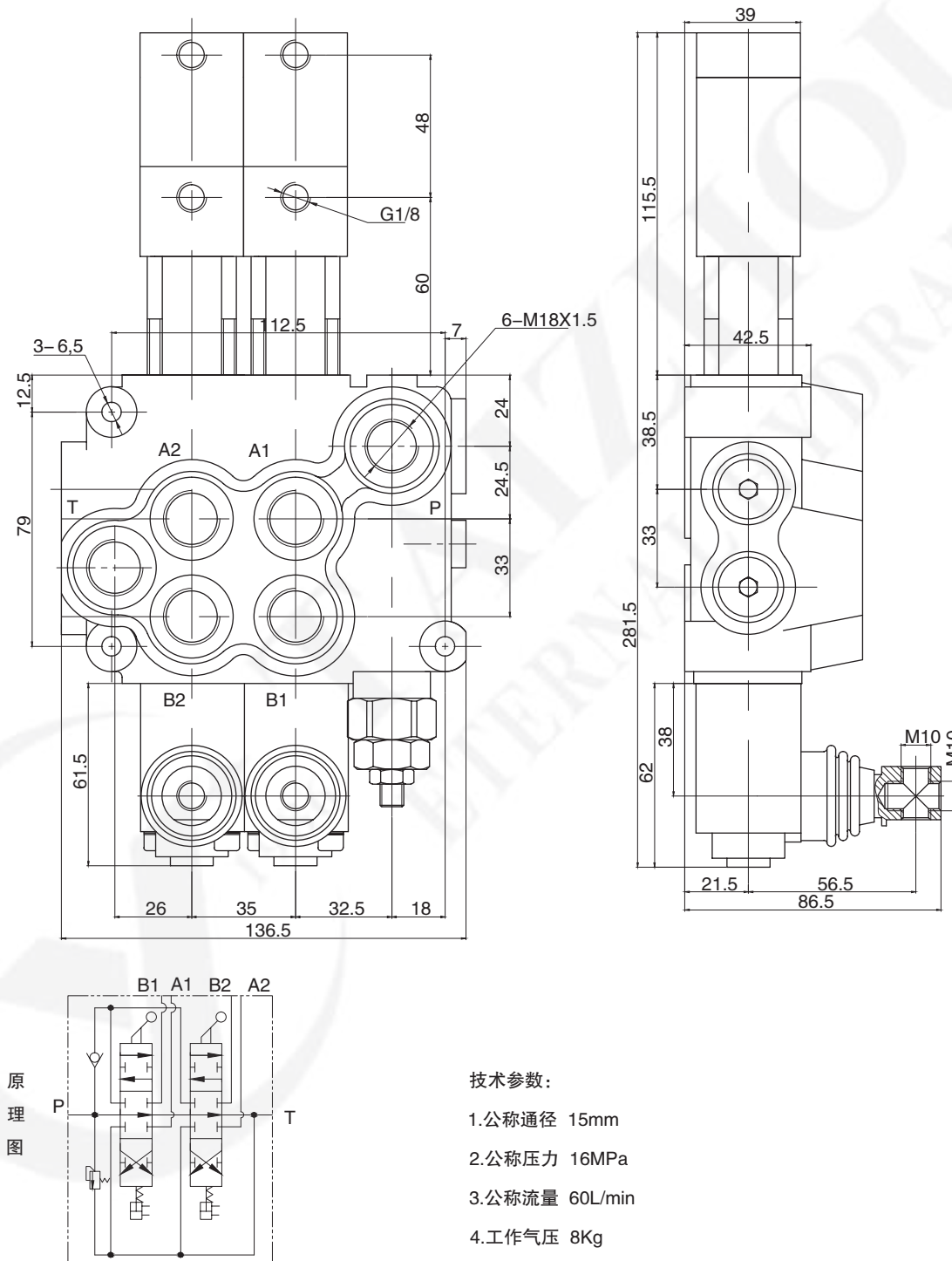
性能参数/SPECIFICATIONS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	最大流量 (L/min) Max. Flow rate	中位背压 (MPa) Back Pressure	工作油液hydraulic oil		
					温度范围 (℃) Tem.rang	粘度范围 (mm2/S) Visc.rang	过滤精度 (μm) filtrating accuracy
20	31.5	50	60	≤1	-20 ~ +80	10 ~ 400	≤10

ZDa-L15气控系列多路阀

ZDa-L15 Pneumatic Control Valve

ZDa-L15 外形安装连接尺寸/MODEL ZDa-L15 DIMENSIONAL DATA



注: 订货有特殊要求者, 请与销售顾问联系。

Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

ZDa-L15电气控系列多路阀

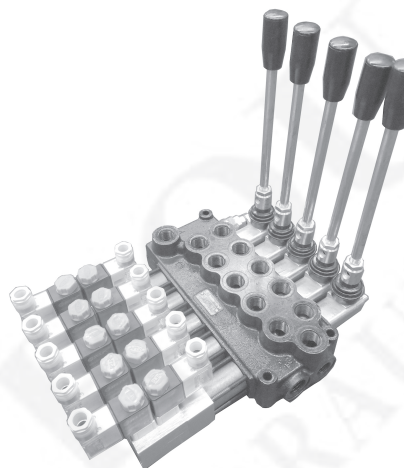
ZDa-L15 Electric and Pneumatic Control Valve

产品描述/SPECIFICATION

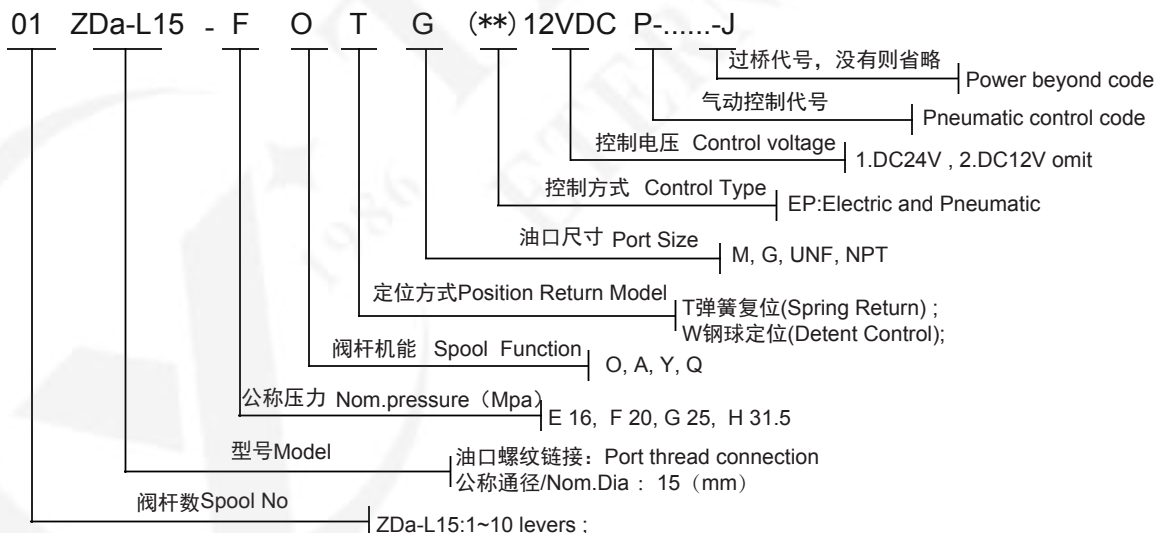
ZDa-L15电气控系列多路阀是在ZDa-L15气控系列的基础上改进而来。它主要是改变了气控换向阀的操纵机构，在气控的基础上增加了电气动控制，并且可以根据客户需求，安装无线遥控，能够更好地实现远程控制。该阀广泛应用于工程机械、环卫机械、矿山机械和其他机械的液压系统。

产品特点/FEATURES

- ◆ 内置单向阀：阀体内置单向阀，防止油液倒流
- ◆ 内置安全阀：阀体内置溢流阀，可调节控制系统压力
- ◆ 油路形式：并联油路，带压力输出口
- ◆ 控制方式：气控换向，也可手动换向
- ◆ 阀体结构：整体结构，1-7联任意组合
- ◆ 阀杆机能：O、A、Y等
- ◆ Inner check valve: The check valve inside the valve body to insure the hydraulic oil not to be returned.
- ◆ Inner relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.
- ◆ Oil way: Parallel circuit, with power beyond.
- ◆ Control Way: pneumatic control, manual control
- ◆ Valve construction: monoblock construction, 1-7 levers are available to assembled as you requests.
- ◆ Spool Function: O,A,Y etc.



型号说明/MODEL CODE



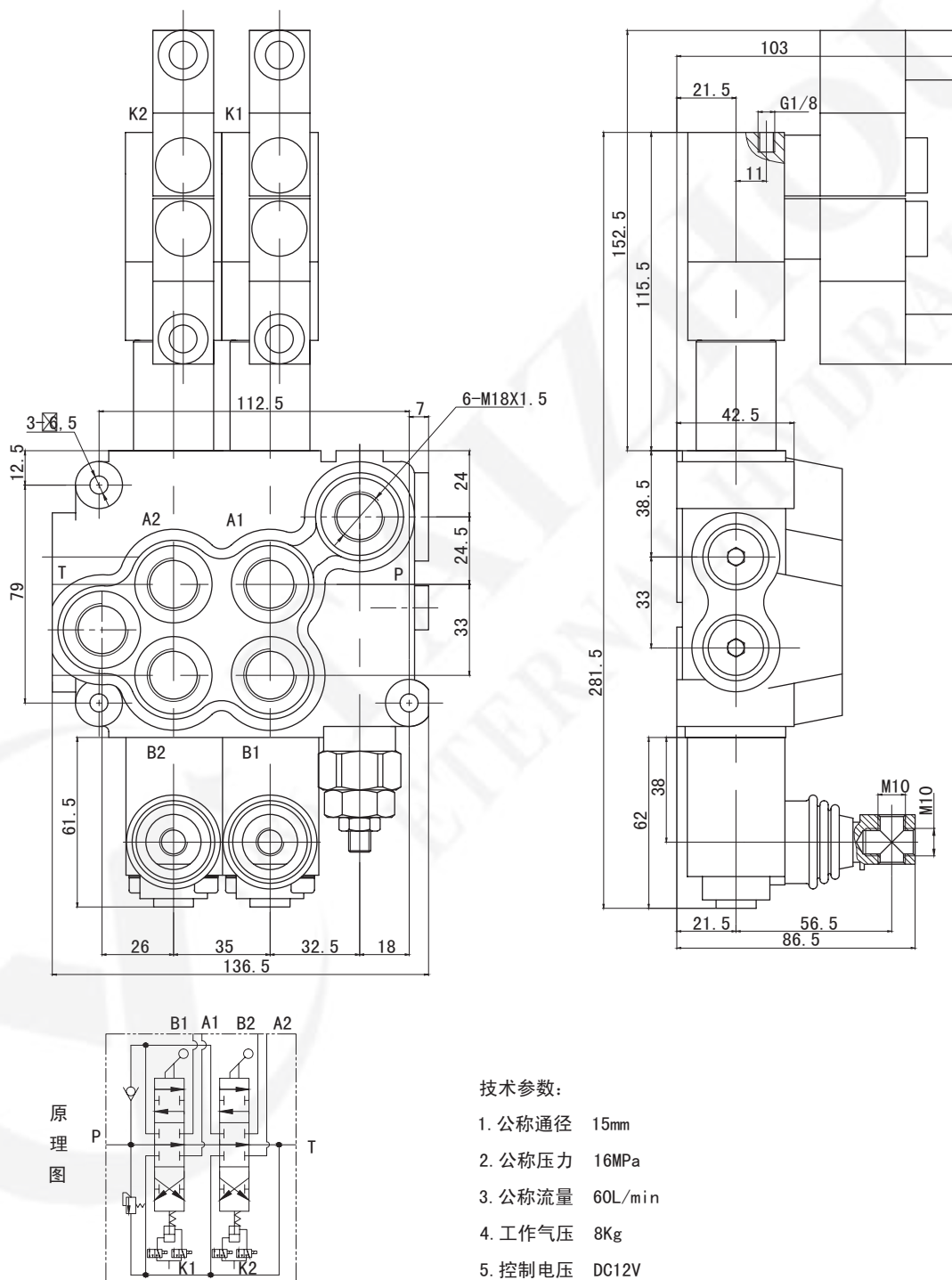
性能参数/SPECIFICATIONS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	最大流量 (L/min) Max. Flow rate	中位背压 (MPa) Back Pressure	工作油液 hydraulic oil		
					温度范围 (℃) Tem.rang	粘度范围 (mm ² /S) Visc.rang	过滤精度 (μm) filtrating accuracy
20	31	50	60	≤1	-20 ~ +80	10 ~ 400	≤10

ZDa-L15电气控系列多路阀

ZDa-L15 Electric and Pneumatic Control Valve

ZDa-L15 外形安装连接尺寸/MODEL ZDa-L15 DIMENSIONAL DATA



注：订货有特殊要求者，请与销售顾问联系。

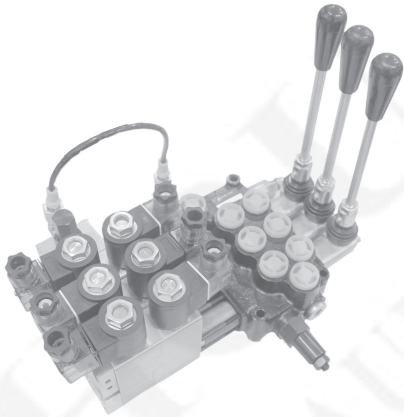
Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

ZDa-L15电液控系列多路阀

ZDa-L15 Electric and Hydraulic Control Valve

产品描述/SPECIFICATION

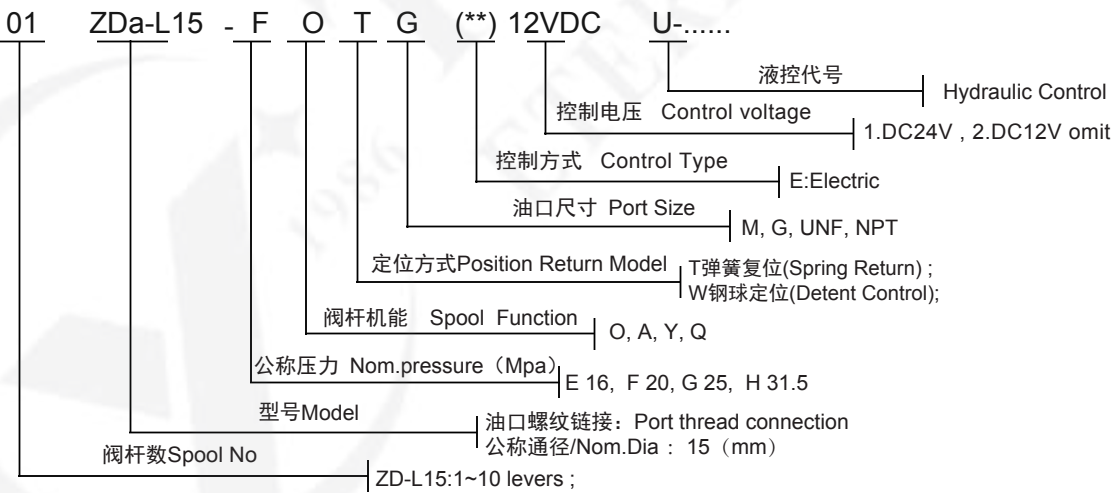
ZDa-L15电液控系列多路阀是在ZDa-L15电气控系列的基础上研发而来。它主要是在没有气源的情况下实现使用的电动控制，并且保留了原本的手动控制，从主油路上分流出一组控制油路，通过电磁阀来控制多路阀的换向工作，并且可以根据客户需求，安装无线遥控，能够更好地实现远程控制。该阀广泛应用于工程机械、环卫机械、矿山机械和其他机械的液压系统。



产品特点/FEATURES

- ◆ 内置单向阀：阀体内置单向阀，防止油液倒流
- ◆ 内置安全阀：阀体内置溢流阀，可调节控制系统压力
- ◆ 油路形式：并联油路，带压力输出口
- ◆ 控制方式：气控换向，也可手动换向
- ◆ 阀体结构：整体结构，1-7联任意组合
- ◆ 阀杆机能：O、A、Y等
- ◆ Inner check valve: The check valve inside the valve body to insure the hydraulic oil not to be returned.
- ◆ Inner relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.
- ◆ Oil way: Parallel circuit, with power beyond.
- ◆ Control Way: hydraulic and electri ccontrol, manual control
- ◆ Valve construction: monoblock construction, 1-7 levers are available to assembled as you requests.
- ◆ Spool Function: O,A,Y etc.

型号说明/MODEL CODE



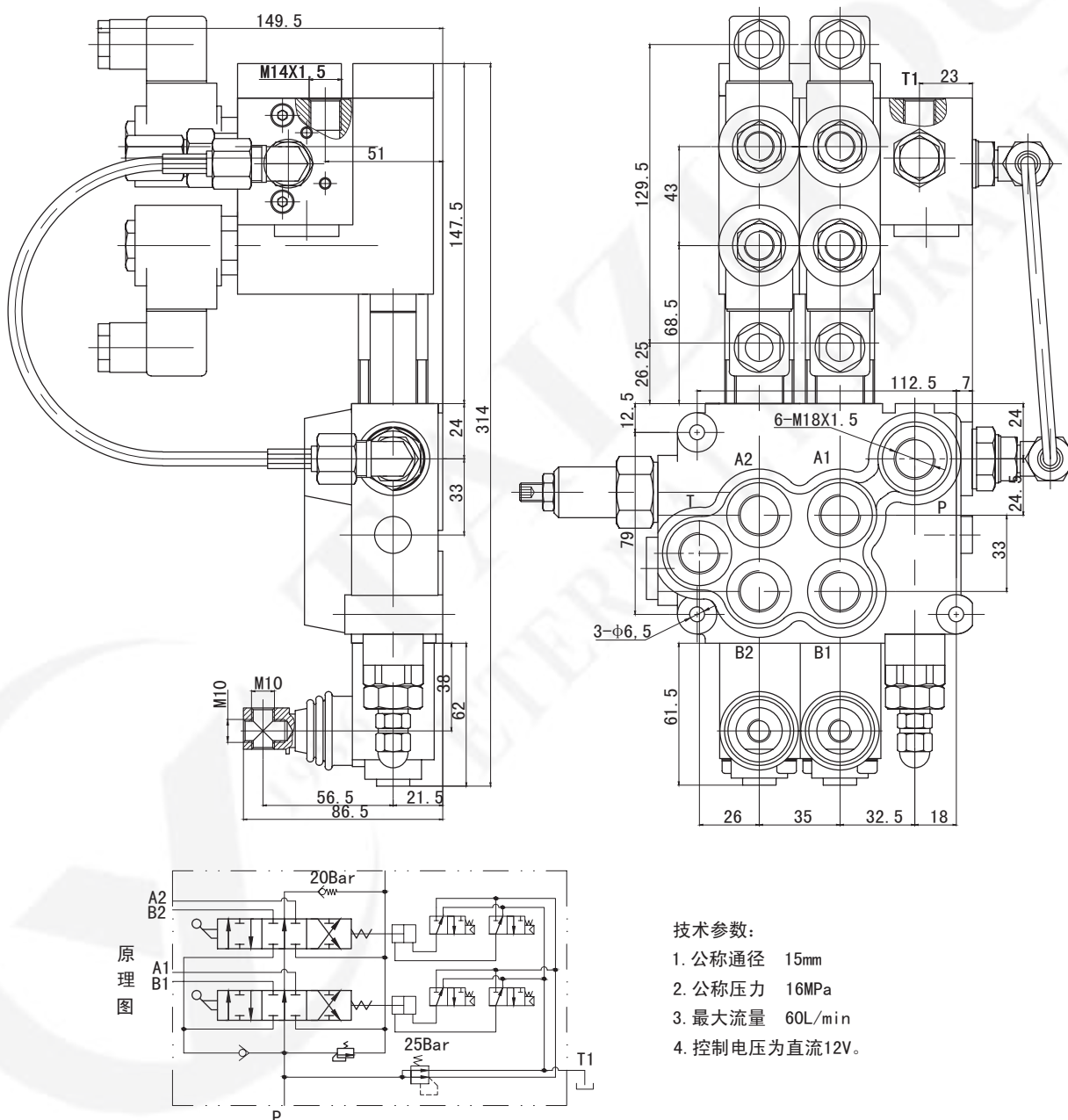
性能参数/SPECIFICATIONS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	最大流量 (L/min) Max. Flow rate	中位背压 (MPa) Back Pressure	工作油液hydraulic oil		
					温度范围 (℃) Tem.rang	粘度范围 (mm2/S) Visc.rang	过滤精度 (μm) filtrating accuracy
20	31.5	50	60	≤2	-20 ~ +80	10 ~ 400	≤10

ZDa-L15电液控系列多路阀

ZDa-L15 Electric and Hydraulic Control Valve

ZDa-L15 外形安装连接尺寸/MODEL ZDa-L15 DIMENSIONAL DATA



注: 订货有特殊要求者, 请与销售顾问联系。

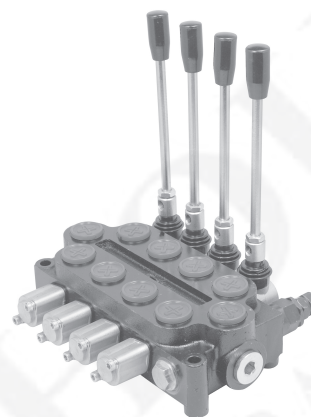
Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

ZT-L20系列整体阀

ZT-L20 Series Monoblock Directional Control Valves.

用途与特征/APPLICATIONS&FEATURES

ZT-L20多路换向阀是我单位自主设计开发的一种中高压整体式多路换向阀。可按客户要求可在阀上设溢流阀、单向阀、液压锁。溢流阀可调节系统压力，单向阀防止油液倒流，换向阀滑阀机能可有A、O、Y、P等，可任意组合，换向手柄有两种安装形式，便于不同方向的操作，该阀采用并联油路，设计有压力输出与其它液压元件相接提供动力源。经过特殊设计的密封方式，使阀的密封性能卓越。该阀广泛用于叉车、环卫车辆、小型装载机等工程机械的液压系统。



Model ZT-L20 with middle-high pressure monoblock construction is an independently developed control valves by our company.

- ◆ Inner check valve: The check valve inside the valve body is to insure the hydraulic oil not to be returned.
- ◆ Inner relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.
- ◆ Oil way: Parallel circuit, power beyond option
- ◆ Control Way: Manual control, pneumatic control, hydraulic and electric control for optional.
- ◆ Valve construction: monoblock construction, 1-5 levers.
- ◆ Spool Function: O, Y, P, A.
- ◆ Option: Hydraulic lock is available to be added on A and B port.
- ◆ The valve is widely used in the hydraulic system of forklift, environment vehicle and light loading machines.

性能参数/SPECIFICATIONS

公称压力 Nominal Pressure (Mpa)	最大压力 Max. pressure (Mpa)	公称流量 Nom. flow (L/min)	允许背压 Allowable Back. pressure (Mpa)	工作油液 Hydraulic Oil		
				温度范围 Tem.range (°C)	粘度范围 Visc.range (mm ² /s)	过滤精度 Filtrating accuracy (μm)
20	31.5	90	≤ 1	-20~+80	10~400	≤ 10

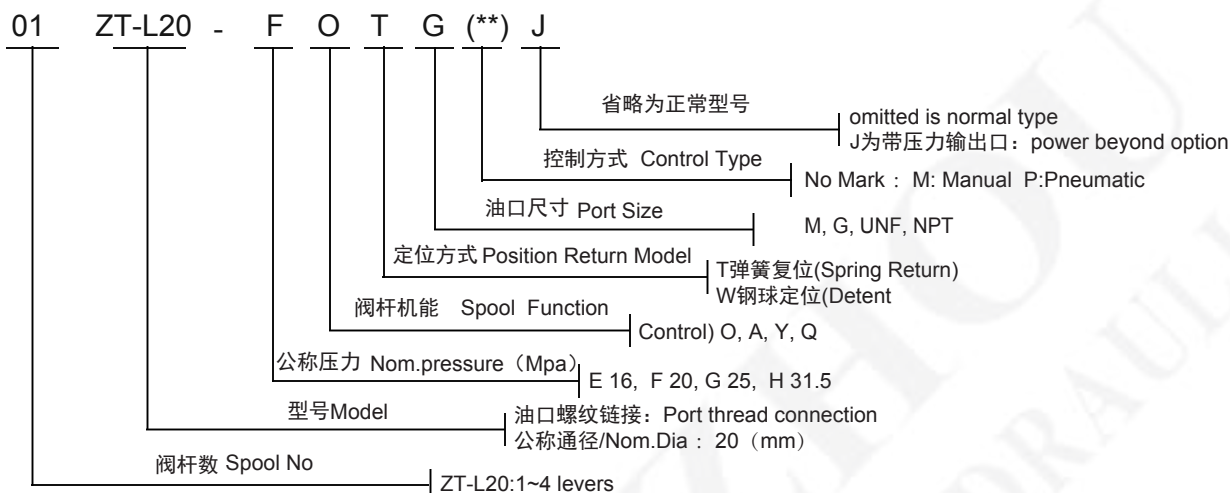
注：油液最高污染等级：按GB/T14039之19/16

Note: maximum permissible degree of contamination of the oil is according to GB/T14039-19/16

ZT-L20系列整体阀

ZT-L20 Series Monoblock Directional Control Valves.

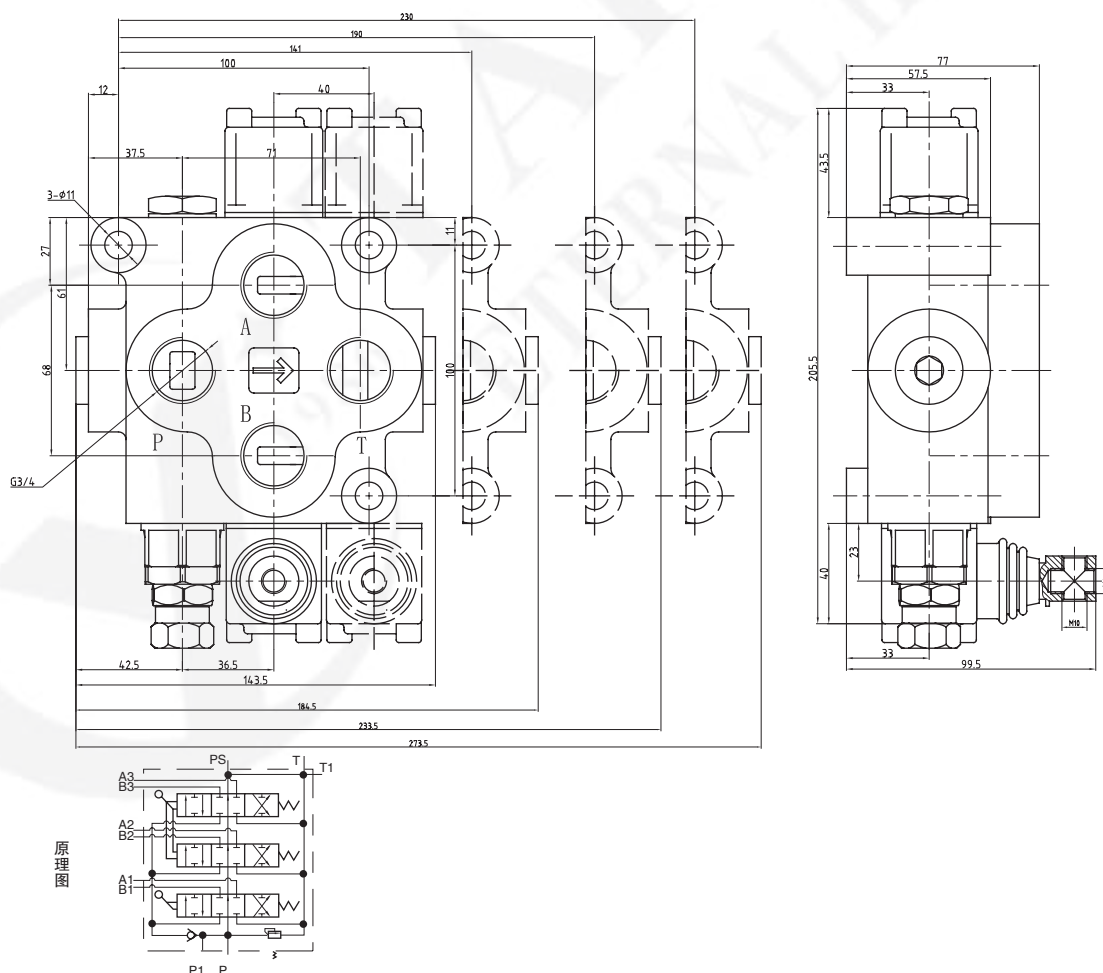
型号说明/MODEL CODE



注: 订货有特殊要求者, 请与销售顾问联系。

Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

ZT-L20 外形安装连接尺寸/MODEL ZT-L20 DIMENSIONAL DATA



ZT-L20气控系列多路阀

ZT-L20 Pneumatic Control Valve

用途与特征/APPLICATIONS&FEATURES

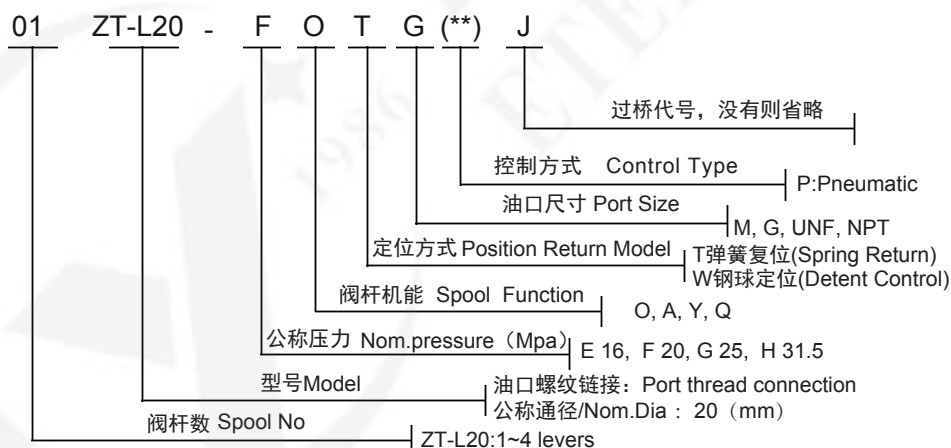
ZT-L20气控系列多路阀是在ZT-L20手动控制系列的基础上改进而来。它主要是改变了手动换向阀的操纵机构，在手动的基础上增加了气动控制，能够更好地实现远程控制。ZT-L20系列多路阀的回油端设置了压力输出口，可与其他液压元件串联使用。该阀为整体式，具有结构紧凑，工作压力高，性能好，工作可靠，可实现多个执行机构的近、远程控制的优点。根据用户需要，换向阀的操纵机构可以和普通手动控制进行任意组合。该阀广泛应用于工程机械、环卫机械、矿山机械和其他机械的液压系统。



ZT-L20 series pneumatic control valves are developed on ZT-L20 manual control valves. It changed the control way of these valves, especially, it can be controlled by remote control with the pneumatic control way. The power beyond function is on the ZT-L20 series, it is able to be connected with other hydraulic valves in series. The features of this monoblock construction ZT-L20 pneumatic control valves are compact construction, high working pressure, better working performance, reliable working, remote controlling and etc. Besides that, the manual control can be used with the pneumatic control together. The valves are widely used on mechanical machines, sanitation machines, mining machines and other machines' hydraulic systems.

- ◆ 内置单向阀：阀体内置单向阀，防止油液倒流
Inner check valve: The check valve inside the valve body is to insure the hydraulic oil not to be returned.
- ◆ 内置安全阀：阀体内置溢流阀，可调节控制系统压力
Inner relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.
- ◆ 油路形式：并联油路，带压力输出口
Oil way: Parallel circuit, with power beyond.
- ◆ 控制方式：气控换向，也可手动换向
Control Way: pneumatic control, manual control
- ◆ 阀体结构：整体结构，1-5联任意组合
Valve construction: monoblock construction, 1-5 levers are available to assembled as you requests.
- ◆ 阀杆机能：O、A、Y等
Spool Function: O,A,Y etc.

型号说明/MODEL CODE



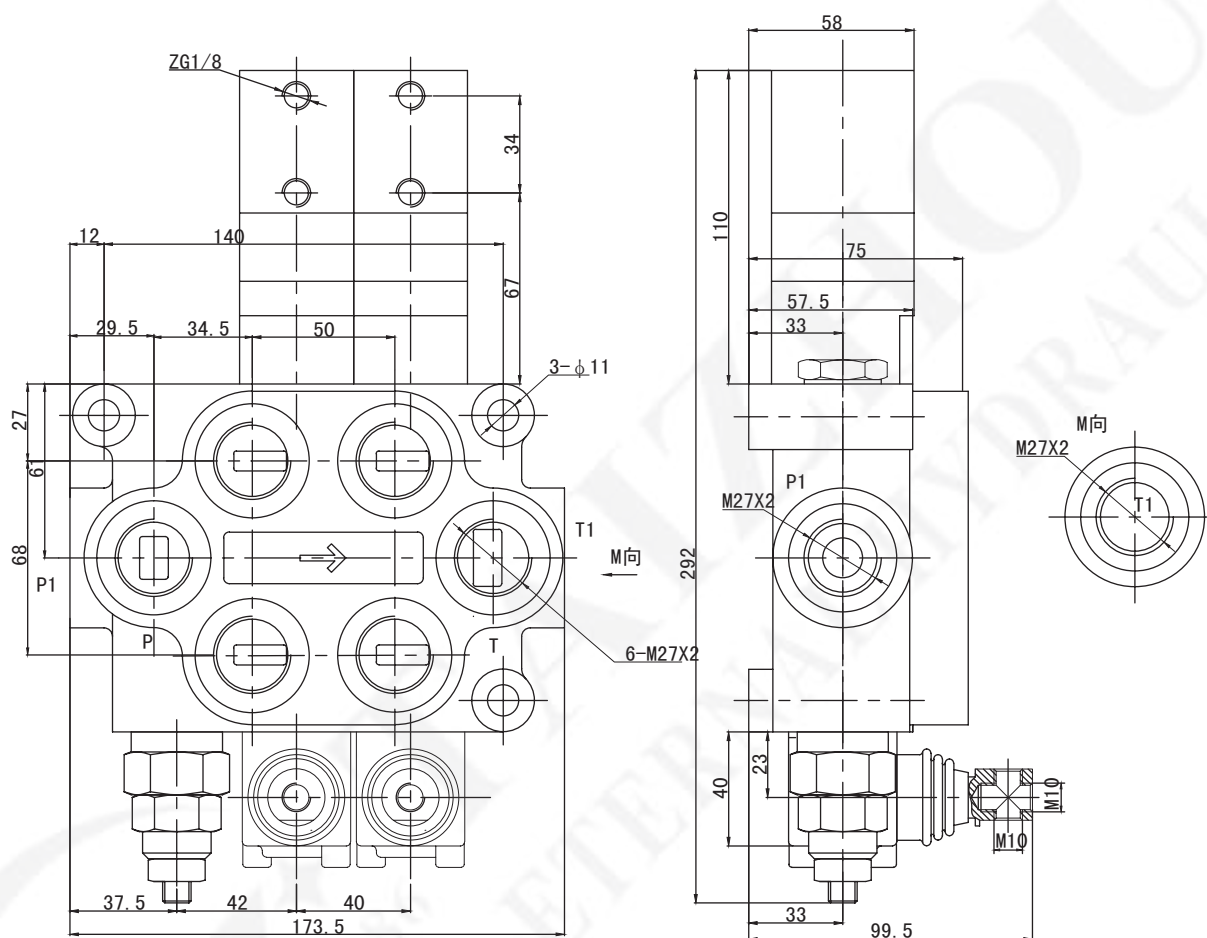
性能参数/SPECIFICATIONS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	最大流量 (L/min) Max. Flow rate	中位背压 (MPa) Back Pressure	工作油液hydraulic oil		
					温度范围 (℃) Tem.rang	粘度范围 (mm ² /S) Visc.rang	过滤精度 (μm) filtrating accuracy
20	31.5	80	100	≤1	-20 ~ +80	10 ~ 400	≤10

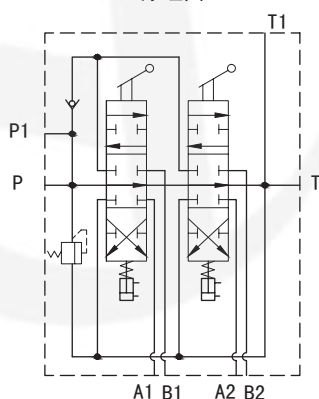
ZT-L20气控系列多路阀

ZT-L20 Pneumatic Control Valve

ZT-L20 外形安装连接尺寸/MODEL ZT-L20 DIMENSIONAL DATA



原理图



技术参数:

1. 公称压力: 16MPa,
2. 最大流量: 80L/min

注: 订货有特殊要求者, 请与销售顾问联系。

Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

ZT-L20电气控系列多路阀

ZT-L20 Electric and Pneumatic Control Valve

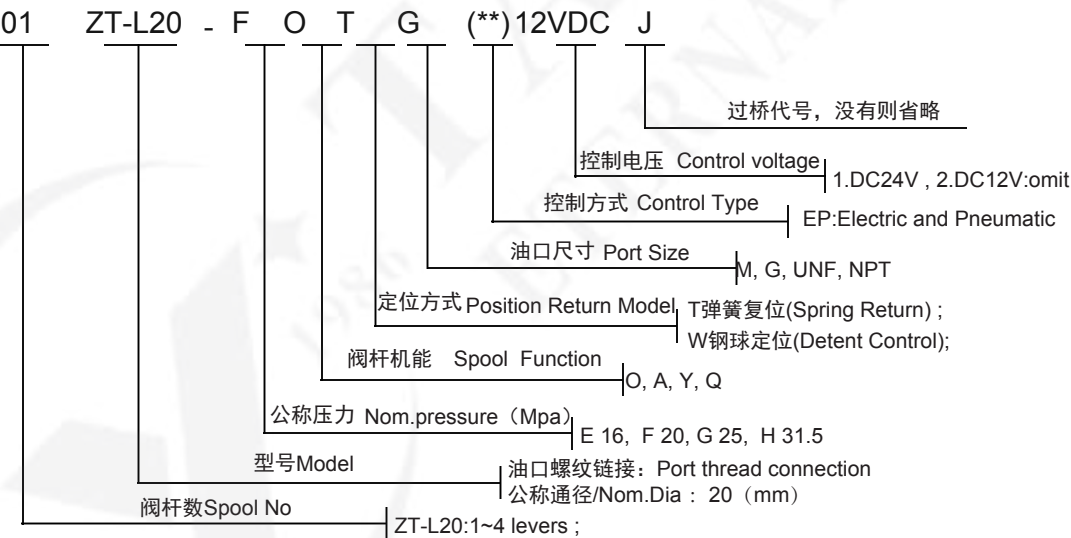
产品描述/SPECIFICATION

ZT-L20电气控制系列多路阀是在ZT-L20气控系列的基础上改进而来。它主要是改变了气控换向阀的操纵机构，在气控的基础上增加了电气控制，并且可以根据客户需求，安装无线遥控，能够更好地实现远程控制。该阀广泛应用于工程机械、环卫机械、矿山机械和其他机械的液压系统。

产品特点/FEATURES

- ◆ 内置单向阀：阀体内置单向阀，防止油液倒流
- ◆ 内置安全阀：阀体内置溢流阀，可调节控制系统压力
- ◆ 油路形式：并联油路，带压力输出口
- ◆ 控制方式：气控换向，也可手动换向
- ◆ 阀体结构：整体结构，1-5联任意组合
- ◆ 阀杆机能：O、A、Y等
- ◆ Inner check valve: The check valve inside the valve body to insure the hydraulic oil not to be returned.
- ◆ Inner relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.
- ◆ Oil way: Parallel circuit, with power beyond.
- ◆ Control Way: electric and pneumatic control, manual control
- ◆ Valve construction: monoblock construction, 1-5 levers are available to be assembled as you requests.
- ◆ Spool Function: O,A,Y etc.

型号说明/MODEL CODE



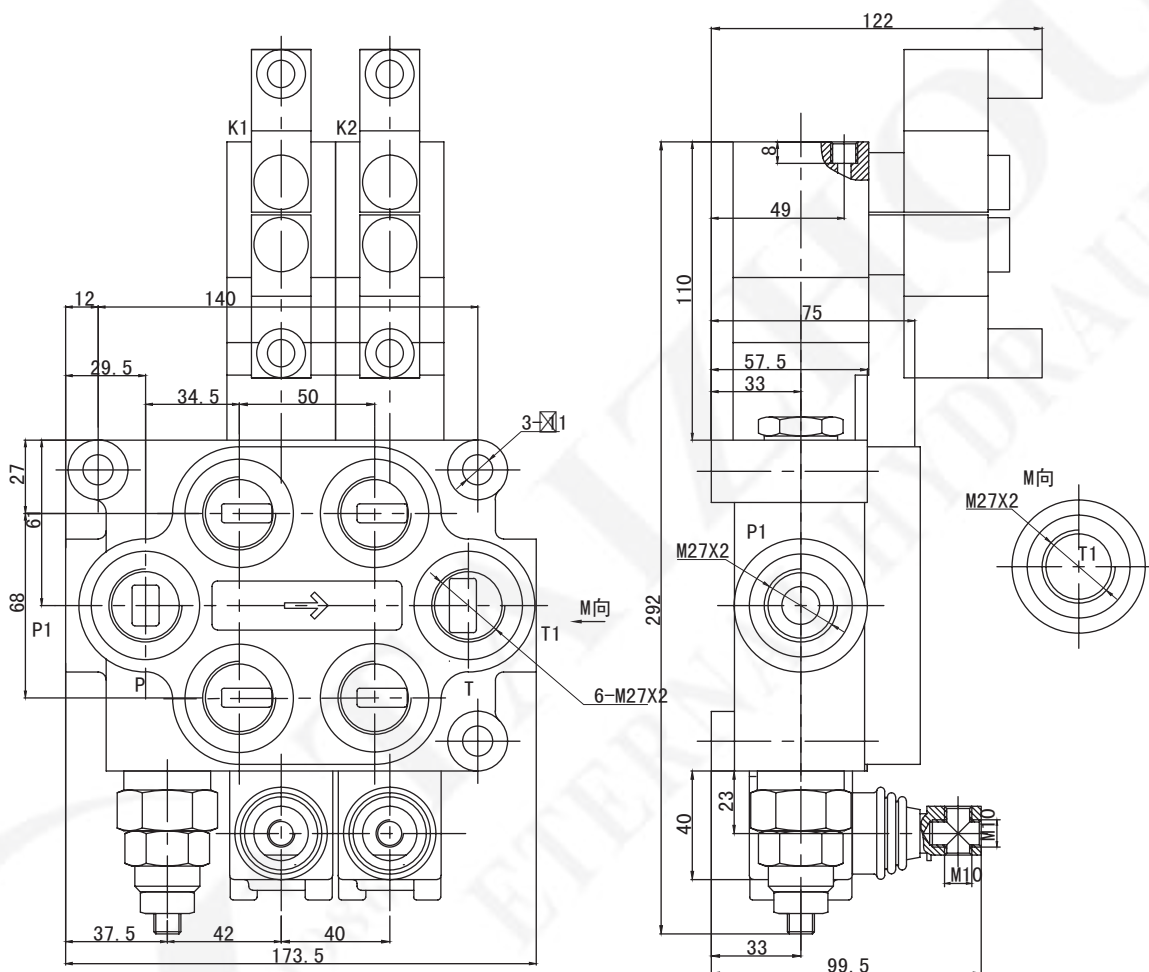
性能参数/SPECIFICATIONS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	最大流量 (L/min) Max. Flow rate	中位背压 (MPa) Back Pressure	工作油液hydraulic oil		
					温度范围 (℃) Tem.rang	粘度范围 (mm2/S) Visc.rang	过滤精度 (μ m) filtrating accuracy
20	31.5	80	100	≤1	-20 ~ +80	10 ~ 400	≤10

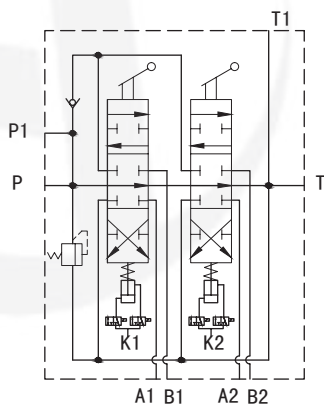
ZT-L20电气控系列多路阀

ZT-L20 Series Electric and Pneumatic Directional Control Valves

ZT-L20 Electric and Pneumatic Control Valve



原理图



技术参数:

1. 公称压力: 16MPa,
2. 最大流量: 80L/min,
3. 控制电压DC12V/DC24V.

注: 订货有特殊要求者, 请与销售顾问联系。

Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

SD4 系列整体阀

SD4 Series Monoblock Directional Control Valve

用途与特征/APPLICATIONS&FEATURES

SD4系列整体阀引进了欧洲先进技术，具有结构紧凑、流量45l/min、重量轻、耐高压。该阀采用并联油路，设计有压力出口与其他液压元件相连接提供动力源。该阀广泛应用于工程机械、环卫机械、油田设备、矿山机械和其他机械的液压系统。

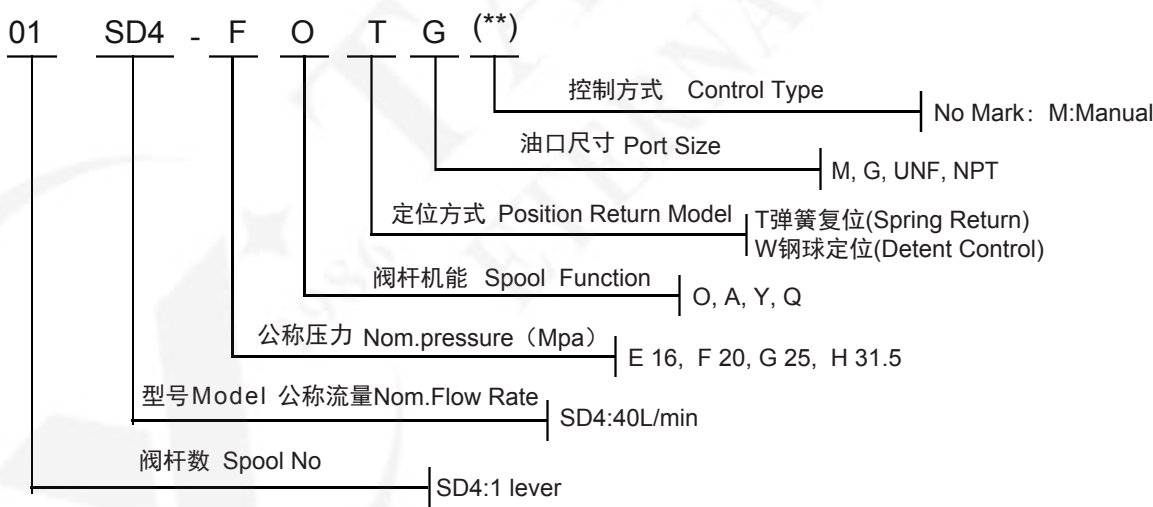


产品特点/FEATURES

Simple, compact designed, this valve is only one section for open center and closed center hydraulic systems.

- ◆ Fitted with a main pressure relief valve.
- ◆ Diameter 16 mm - 0.63 in interchangeable spools.
- ◆ Available manual and remote with flexible cables spool control kits.

型号说明/MODEL CODE



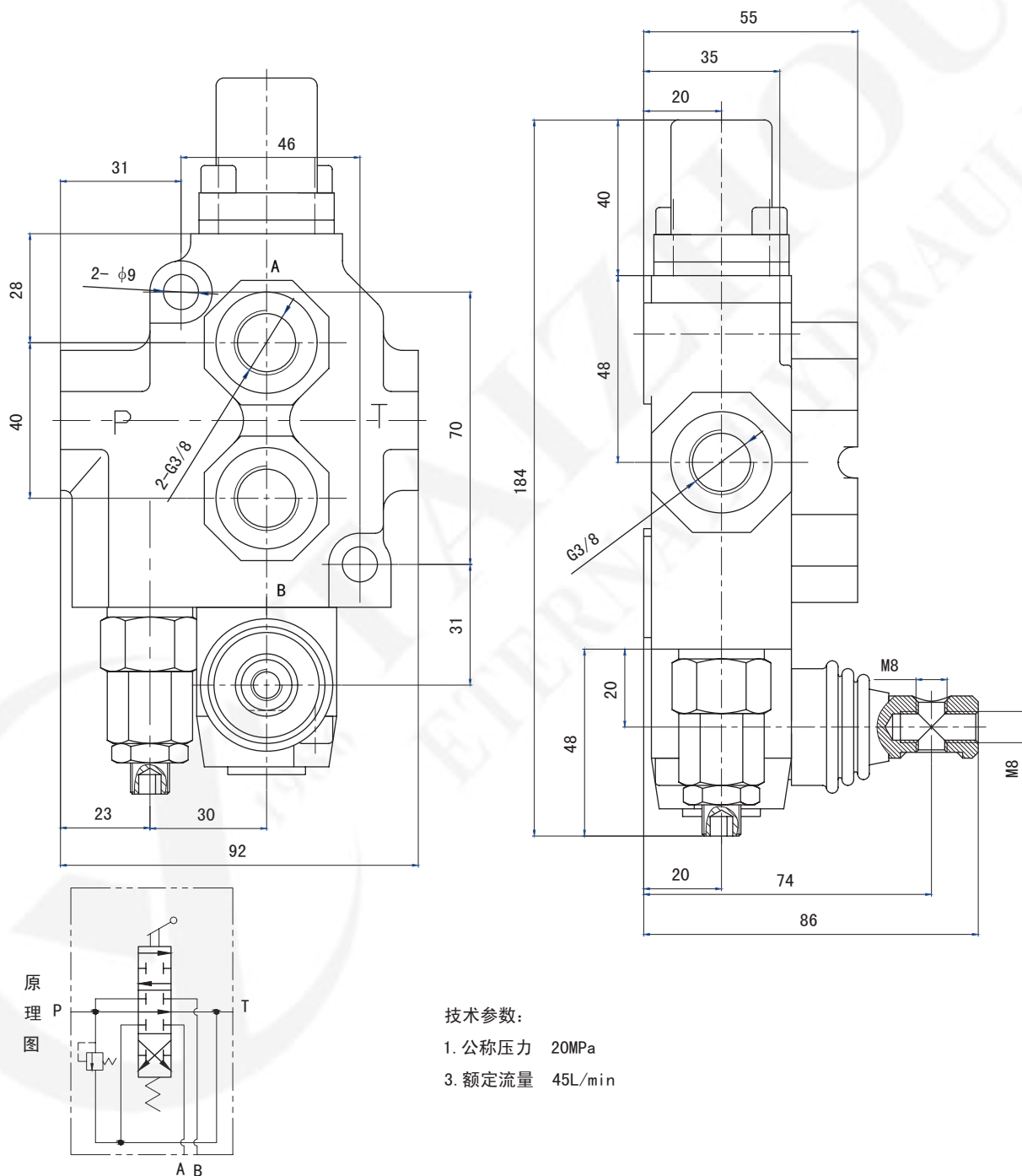
技术参数/PARAMETERS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	最大流量 (L/min) Max. Flow rate	中位背压 (MPa) Back Pressure	工作油液hydraulic oil		
					温度范围 (℃) Tem.rang	粘度范围 (mm2/S) Visc.rang	过滤精度 (μm) filtrating accuracy
16	31.5	45	45	≤1	-20 ~ +80	10 ~ 400	≤10

SD4 系列整体阀

SD4 Series Monoblock Directional Control Valve

SD4外形安装连接尺寸/MODEL SD4 DIMENSIONAL DATA



注：订货有特殊要求者，请与销售顾问联系。

Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

SD5 系列整体阀

SD5 Series Monoblock Directional Control Valve

用途与特征/APPLICATIONS&FEATURES

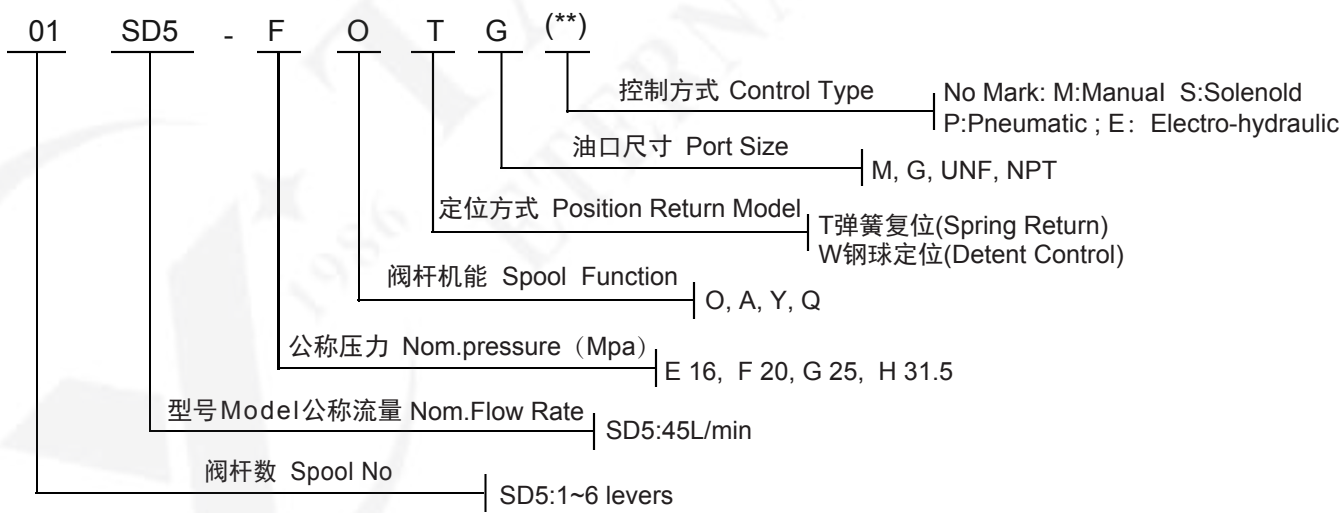
SD5系列整体阀引进了欧洲先进技术，具有结构紧凑、流量45l/min、重量轻、耐高压。该阀采用并联油路，设计有压力出口与其他液压元件相连接提供动力源。该阀广泛应用于工程机械、环卫机械、油田设备、矿山机械和其他机械的液压系统。



产品特点/FEATURES

- Simple, compact and heavy duty designed monoblock valves from 1 to 6 sections for open and closed center hydraulic systems.
- ◆Fitted with a main pressure relief valve and a load check valve.
 - ◆Available with parallel, series or tandem circuit.
 - ◆Optional power beyond port (only for parallel or tandem circuit).
 - ◆Diameter 16 mm - 0.63 in interchangeable spools.
 - ◆A wide variety of service port valve options.
 - ◆Actuation is manual, pneumatic, electro-pneumatic, hydraulic, electro-hydraulic, with solenoid and remote with flexible cables spool control kits.

型号说明/MODEL CODE



技术参数/PARAMETERS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	最大流量 (L/min) Max. Flow rate	中位背压 (MPa) Back Pressure	工作油液hydraulic oil		
					温度范围 (℃) Tem.rang	粘度范围 (mm2/S) Visc.rang	过滤精度 (μm) filtrating accuracy
20	31.5	45	45	≤1	-20 ~ +80	10 ~ 400	≤10

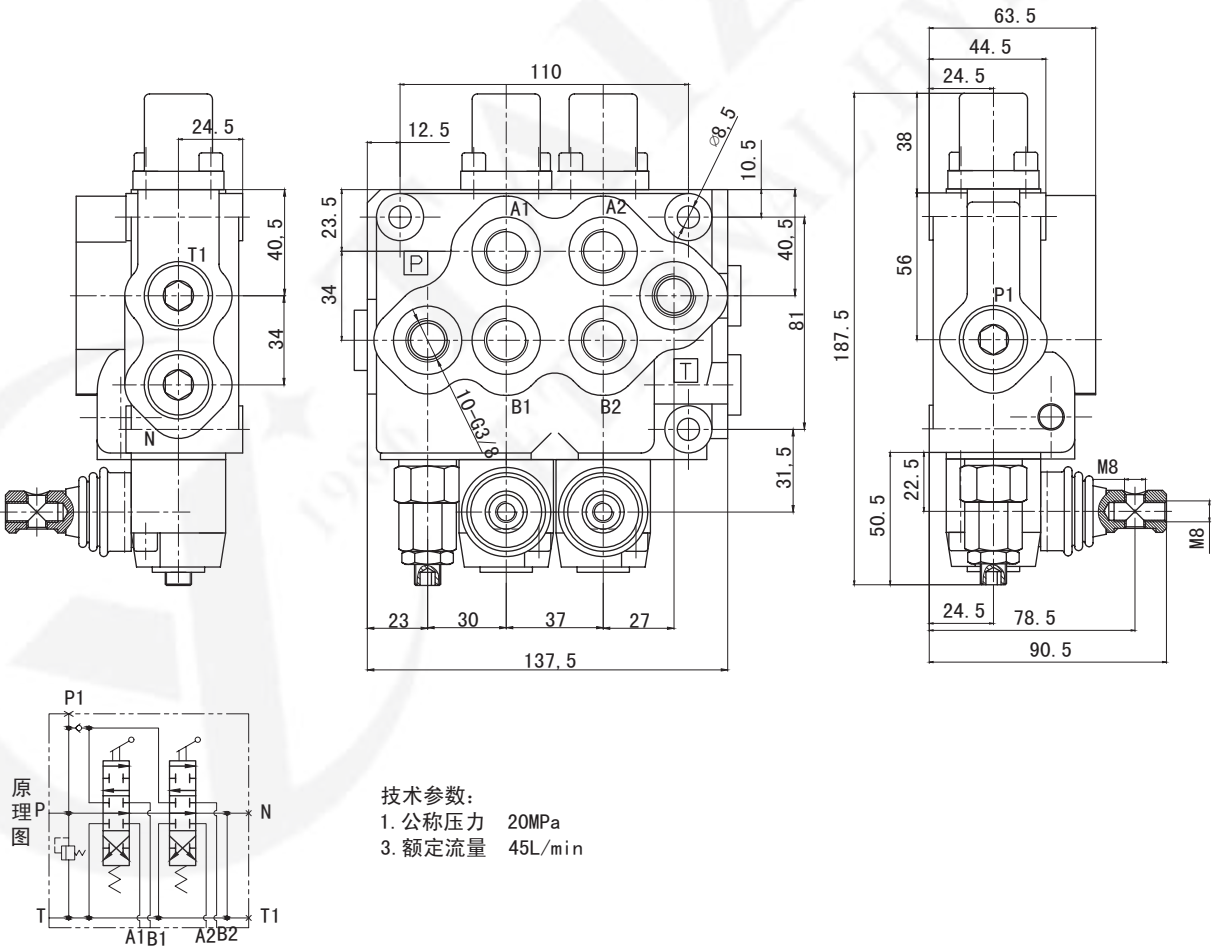
SD5 系列整体阀

SD5 Series Monoblock Directional Control Valve

油口尺寸/PORT SIZE

油口 MAIN PORTS	英制 BSP	美制 UN-UNF	公制 METRIC
进油口 Inlet P	G3/8	3/4-16 (SAE 8)	M18 × 1,5
工作油口 Ports A and B	G3/8	9/16-18 (SAE 6)	M18 × 1,5
出油口 Outlet T	G3/8	3/4-16 (SAE 8)	M18 × 1,5, M22 × 1.5
高压输出口 carry-over C	M20 × 1.5	M20 × 1.5	M20 × 1.5

SD5外形安装连接尺寸/MODEL SD5 DIMENSIONAL DATA



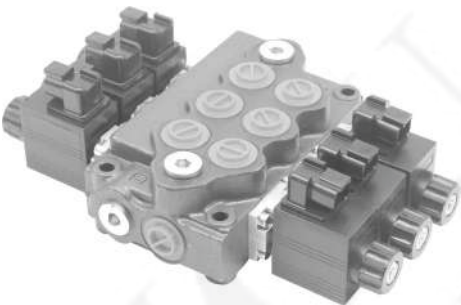
注：订货有特殊要求者，请与销售顾问联系。
Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

SD5 系列电磁控整体阀

SD5 Solenoid Control Valve

用途与特征/APPLICATIONS&FEATURES

SD5系列整体阀引进了欧洲先进技术，具有结构紧凑、流量45l/min、重量轻、耐高压。该阀采用并联油路，设计有压力出口与其他液压元件相连接提供动力源。该阀广泛应用于工程机械、环卫机械、油田设备、矿山机械和其他机械的液压系统。

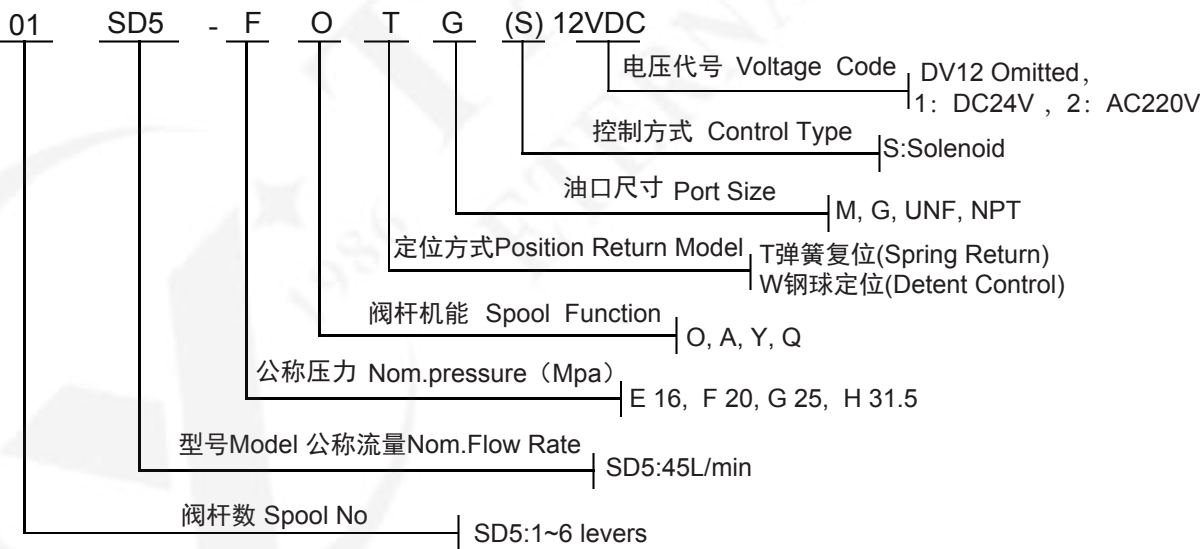


产品特点/FEATURES

Simple, compact and heavy duty designed monoblock valves from 1 to 6 sections for open and closed center hydraulic systems.

- ◆ Fitted with a main pressure relief valve and a load check valve.
- ◆ Available with parallel, series or tandem circuit.
- ◆ Optional power beyond port (only for parallel or tandem circuit).
- ◆ Diameter 16 mm - 0.63 in interchangeable spools.
- ◆ A wide variety of service port valve options.
- ◆ Actuation is manual, pneumatic, electro-pneumatic, hydraulic, electro-hydraulic, with solenoid and remote with flexible cables spool control kits.

型号说明/MODEL CODE



技术参数/PARAMETERS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	最大流量 (L/min) Max. Flow rate	中位背压 (MPa) Back Pressure	工作油液hydraulic oil		
					温度范围 (℃) Tem.rang	粘度范围 (mm2/S) Visc.rang	过滤精度 (μm) filtrating accuracy
20	31.5	45	45	≤1	-20 ~ +80	10 ~ 400	≤10

SD5 系列电磁控整体阀

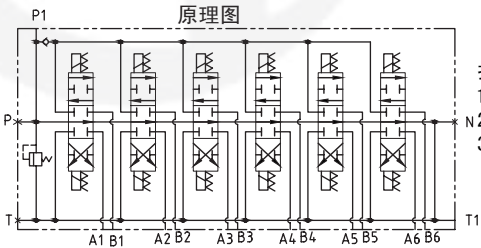
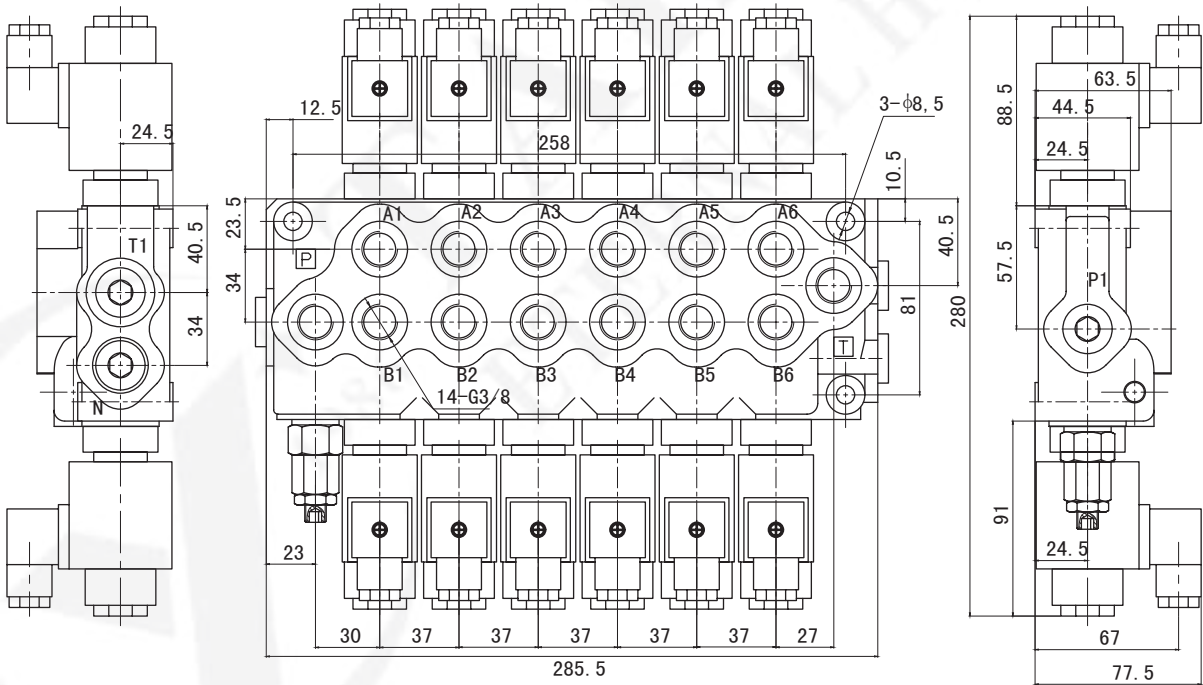
SD5 Solenoid Control Valve

油口尺寸/PORT SIZE

油口 MAIN PORTS	英制 BSP	美制 UN-UNF	公制 METRIC
进油口 Inlet P	G3/8	3/4-16 (SAE 8)	M18 × 1,5
工作油口 Ports A and B	G3/8	9/16-18 (SAE 6)	M18 × 1,5
出油口 Outlet T	G3/8	3/4-16 (SAE 8)	M18 × 1,5, M22 × 1.5
高压输出口 carry-over C	M20 × 1.5	M20 × 1.5	M20 × 1.5

注：订货有特殊要求者，请与销售顾问联系。
Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

SD5外形安装连接尺寸/MODEL SD5 DIMENSIONAL DATA



技术参数:
1. 公称压力 20MPa
2. 最大流量 45L/min
3. 额定电压 DC12V

SD11 Series Monoblock Directional Control Valve

SD11系列整体阀引进了欧洲先进技术，具有结构紧凑、流量70L/min、重量轻、耐高压。该阀采用并联油路，设计有压力出口与其他液压元件相连接提供动力源。该阀广泛应用于工程机械、环卫机械、油田设备、矿山机械和其他机械的液压系统。



Simple, compact and heavy duty designed monoblock valves from 1 to 6 sections for open and closed center hydraulic systems.

- ◆ Fitted with a main pressure relief valve and a load check valve.
- ◆ Available with parallel or series circuit.
- ◆ Optional power beyond port (only for parallel circuit).
- ◆ Diameter 20 mm - 0.79 in interchangeable spools.
- ◆ A wide variety of service ports and circuit valves.
- ◆ Available manual, pneumatic, hydraulic, electro-hydraulic and remote with flexible cables spool control kits.

01	SD11	-	F	O	T	G	(**)	
							控制方式 Control Type	No Mark : M: Manual
							油口尺寸 Port Size	M, G, UNF, NPT
							定位方式 Position Return Model	T 弹簧复位(Spring Return) W 钢球定位(Detent Control)
							阀杆机能 Spool Function	O, A, Y, Q
							公称压力 Nom.pressure (Mpa)	E 16, F 20, G 25, H 31.5
							型号 Model 公称流量 Nom.Flow Rate	SD11:70L/min
							阀杆数 Spool No	SD11:1~4 levers

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	最大流量 (L/min) Max. Flow rate	中位背压 (MPa) Back Pressure	工作油液hydraulic oil		
					温度范围 (℃) Tem.rang	粘度范围 (mm2/S) Visc.rang	过滤精度 (μm) filtrating accuracy
20	31.5	70	70	≤1	-20 ~ +80	10 ~ 400	≤10

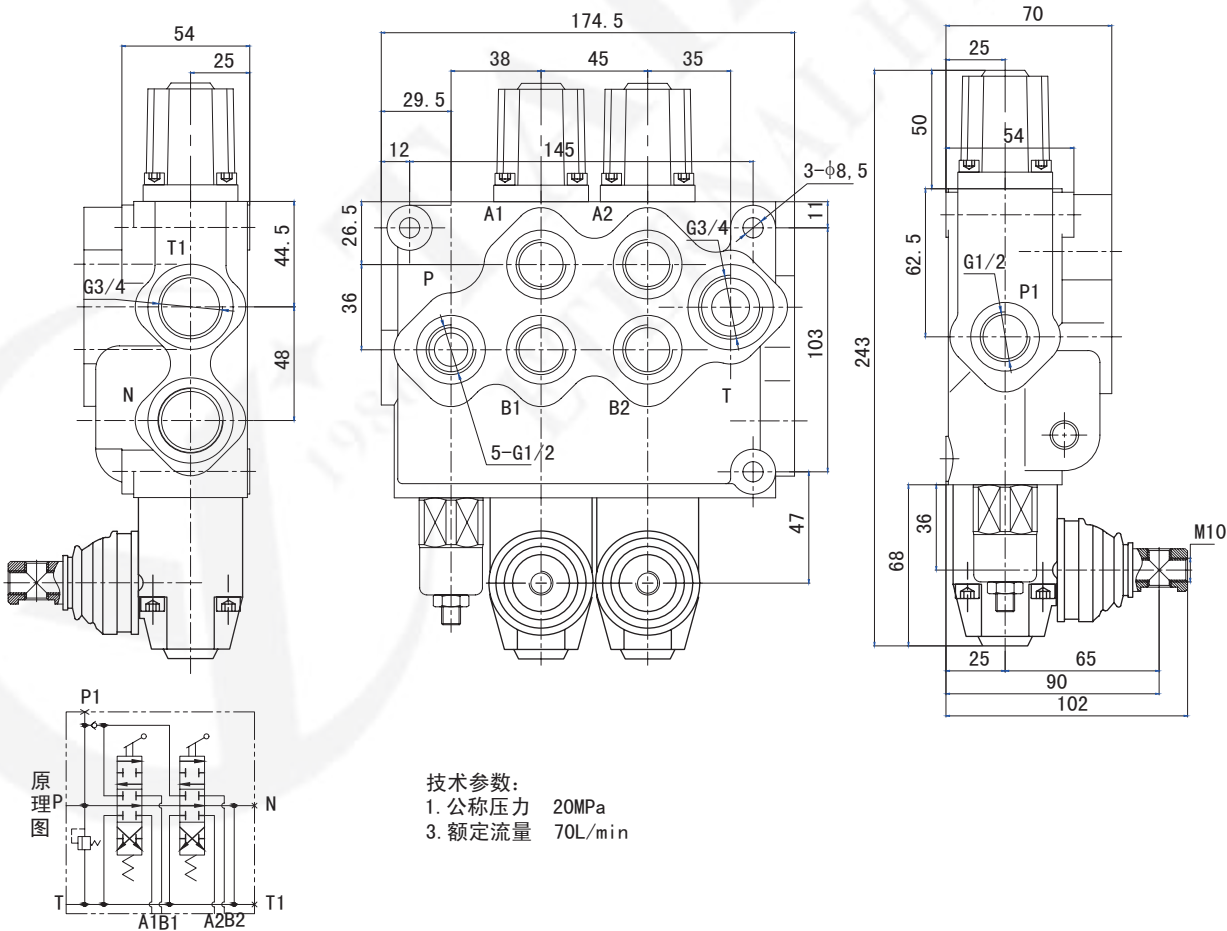
SD11 系列整体阀

SD11 Series Monoblock Directional Control Valve

油口尺寸/PORT SIZE

油口 MAIN PORTS	英制 BSP	美制 UN-UNF	公制 METRIC
进油口 Inlet P	G1/2	7/8-14 (SAE 10)	M22 × 1.5
工作油口 Ports A and B	G1/2	3/4-16 (SAE 8)	M22 × 1.5
出油口 Outlet T	G3/4	7/8-14 (SAE 10)	M27 × 2
高压输出口 carry-over C	M27 × 2	M27 × 2	M27 × 2

SD11外形安装连接尺寸/MODEL SD11 DIMENSIONAL DATA



注：订货有特殊要求者，请与销售顾问联系。
Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

SD14 系列整体阀

SD14 Series Monoblock Directional Control Valve

产品描述/SPECIFICATION

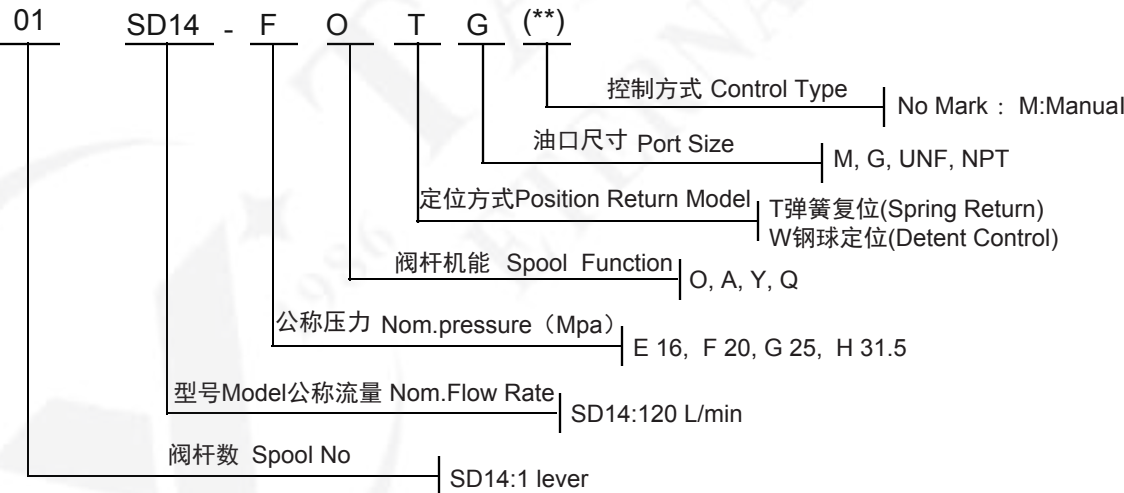
SD14系列整体阀引进了欧洲先进技术，具有结构紧凑、流量高达120l/min、重量轻。该阀采用并联油路，设计有压力出口与其他液压元件相连接提供动力源。该阀广泛应用于工程机械、环卫机械、矿山机械和其他机械的液压系统。



产品特点/FEATURES

- ◆ Simple, compact designed, this valves is only one section for open centre and closed centre hydraulic systems.
- ◆ Fitted with a main pressure relief valve.
- ◆ Diameter 20 mm -- 0.79 in interchangeable spools.
- ◆ Available manual, pneumatic, electro--hydraulic and remote with flexible cable spool control kits.

型号说明/MODEL CODE



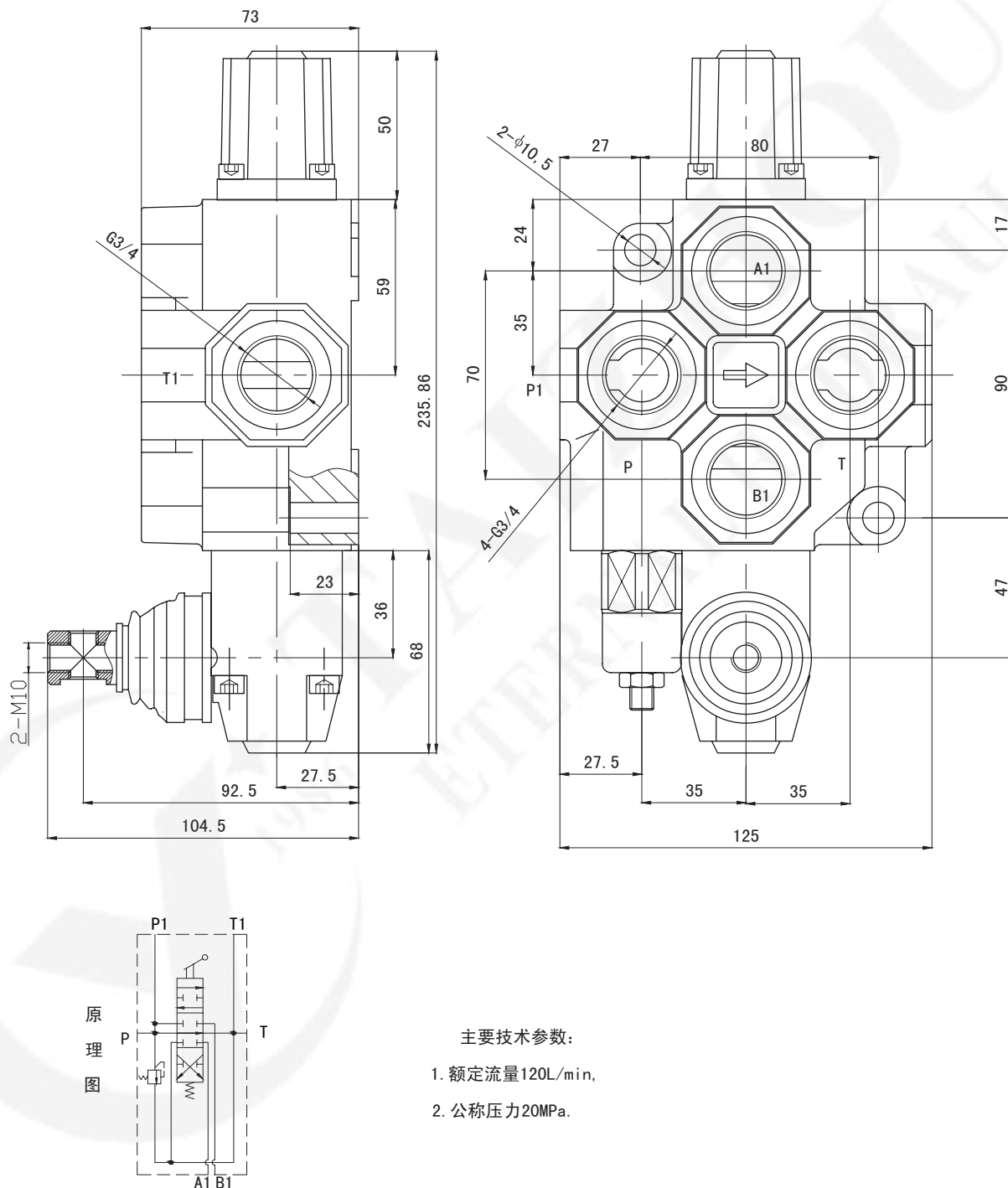
技术参数/PARAMETERS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	最大流量 (L/min) Max. Flow rate	中位背压 (MPa) Back Pressure	工作油液hydraulic oil		
					温度范围 (℃) Tem.rang	粘度范围 (mm2/S) Visc.rang	过滤精度 (μm) filtrating accuracy
20	25	120	120	≤1	-20 ~ +80	10 ~ 400	≤10

SD14 系列整体阀

SD14 Series Monoblock Directional Control Valve

SD14外形安装连接尺寸/MODEL SD14 DIMENSIONAL DATA



注: 订货有特殊要求者, 请与销售顾问联系。

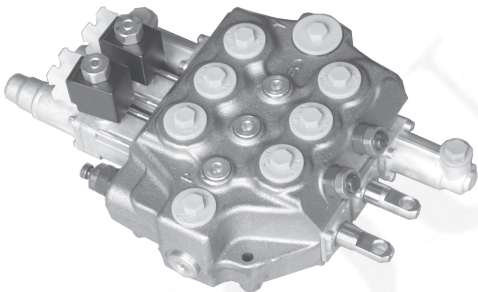
Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

SDM141 滑移式装载机专用阀

SDM141 Series Monoblock Directional Control Valve

产品描述/SPECIFICATION

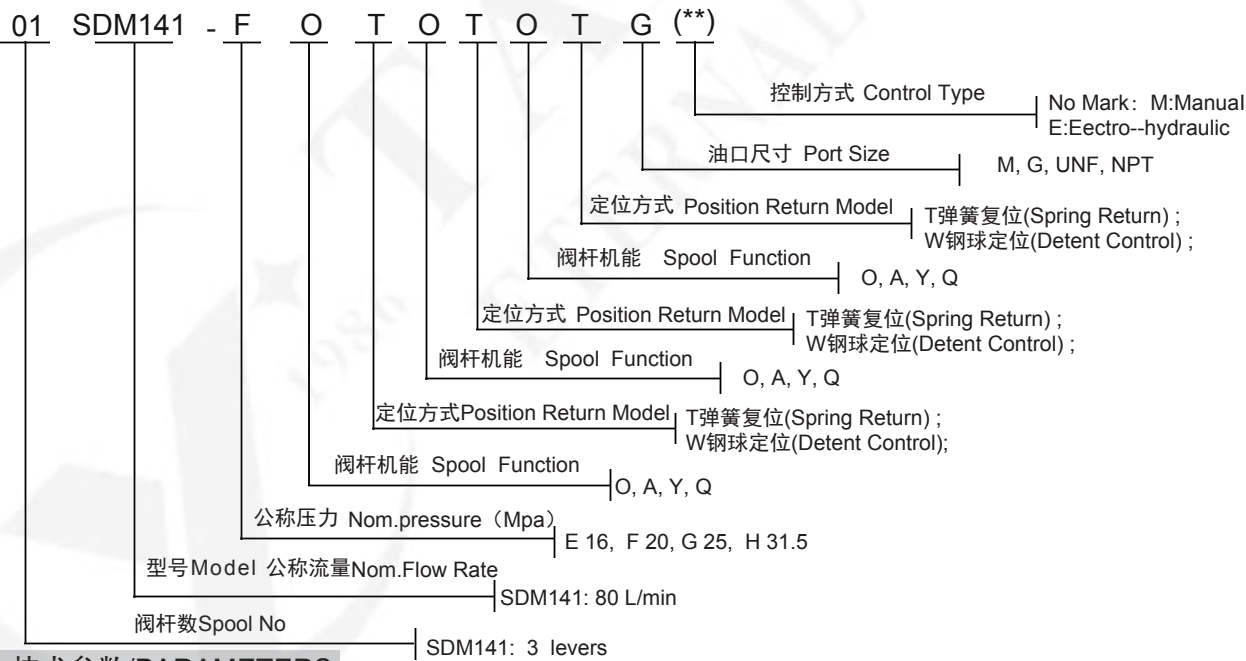
SDM141系列整体阀引进了欧洲先进技术，采用了串联油路，每一片都配有一个单向阀，同时设计了压力输出口与其他液压元件相连接提供动力源。经过特殊设计的密封方式，使阀的密封性能卓越，可以代替进口阀，专门用于滑移式装载机。



产品特点/FEATURES

- ◆ Simple, compact and heavy duty designed 3 sections monoblock valves for open centre hydraulic systems.
- ◆ Fitted with a main pressure relief valve.
- ◆ Each spool has independent load check valve.
- ◆ Series circuit.
- ◆ Optional carry--over port.
- ◆ A wide variety of service port valves.
- ◆ Available manual, electro--hydraulic and remote with flexible cables spool control kits.
- ◆ Diameter 18 mm -- 0.71 in interchangeable spools.

型号说明/MODEL CODE



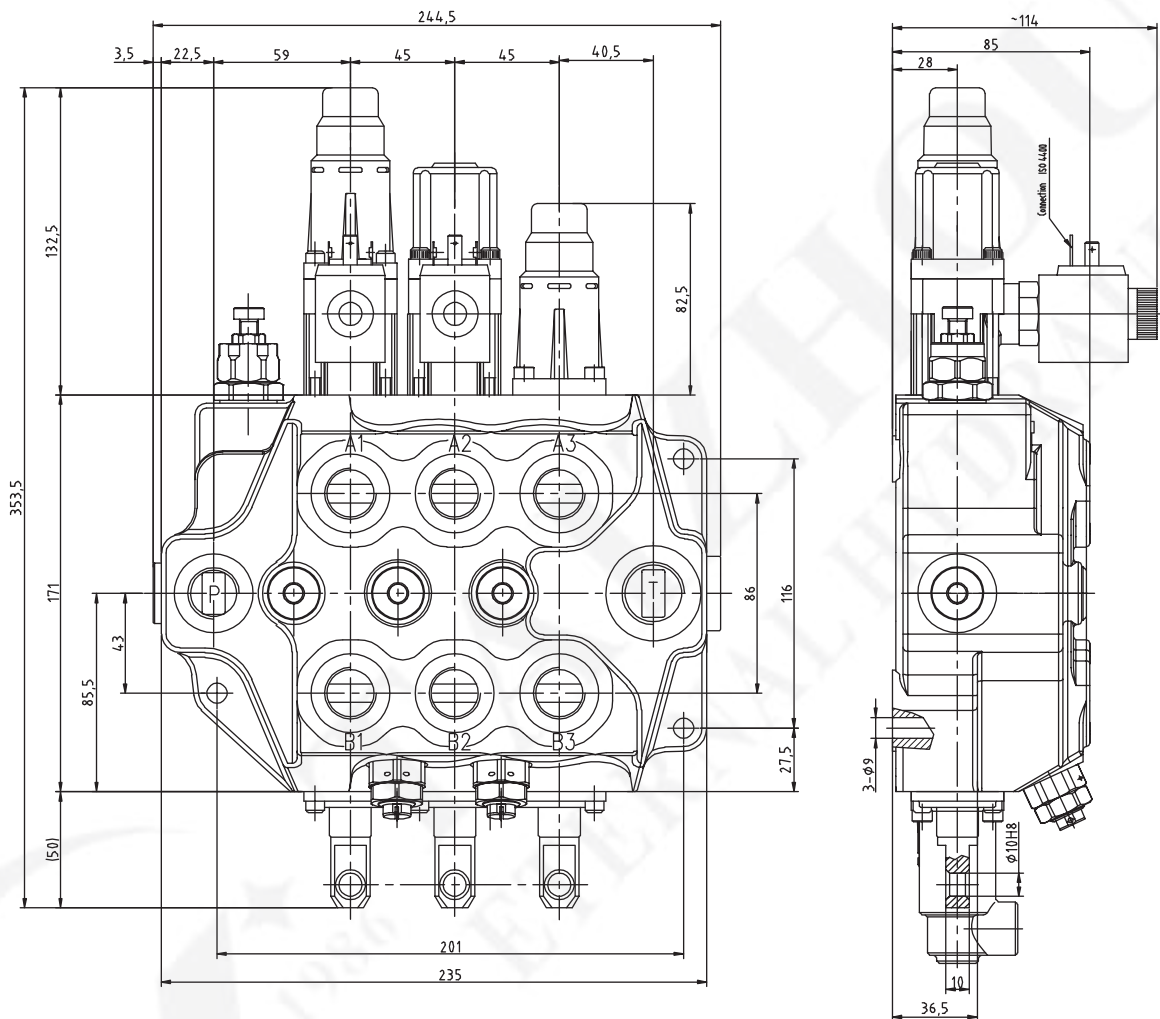
技术参数/PARAMETERS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	最大流量 (L/min) Max. Flow rate	中位背压 (MPa) Back Pressure	工作油液hydraulic oil		
					温度范围 (℃) Tem.rang	粘度范围 (mm2/S) Visc.rang	过滤精度\ (μm) filtrating accuracy
20	25	80	90	≤1	-20 ~ +80	10 ~ 400	≤10

SDM141 滑移式装载机专用阀

SDM141 Series Monoblock Directional Control Valve

SDM141外形安装连接尺寸/MODEL SDM141 DIMENSIONAL DATA



注：订货有特殊要求者，请与销售顾问联系。

Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

SD18 Series Monoblock Directional Control Valve

SD18系列整体阀引进了欧洲先进技术，具有结构紧凑、流量120L/min、重量轻、耐高压。该阀采用并联油路，设计有压力出口与其他液压元件相连接提供动力源。该阀广泛应用于工程机械、环卫机械、油田设备、矿山机械和其他机械的液压系统。



Simple, compact and heavy duty designed monoblock from 1 to 4 sections for open and closed center hydraulic systems.

- ◆ Fitted with a direct or pilot operated main pressure relief valve.
- ◆ Parallel circuit.
- ◆ Optional carry-over port.
- ◆ Diameter 25 mm - 0.98 in interchangeable spools.
- ◆ A wide variety of service port valves.
- ◆ Available manual, pneumatic, electro-pneumatic, hydraulic and electro-hydraulic spool control kits.

01 01 阀杆数 Spool No SD18:1~4 levers

SD18 SD18 型号 Model 公称流量 Nom.Flow Rate SD18:120L/min

- - 公称压力 Nom.pressure (Mpa) E 16, F 20, G 25, H 31.5

F F

O O 阀杆机能 Spool Function O, A, Y, Q

T T 定位方式 Position Return Model T弹簧复位(Spring Return) W钢球定位(Detent Control)

G G 油口尺寸 Port Size M, G, UNF, NPT

(**) (**) 控制方式 Control Type No Mark: M:Manual E:Electro-hydraulic P:Pneumatic Pilot

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	最大流量 (L/min) Max. Flow rate	中位背压 (MPa) Back Pressure	工作油液hydraulic oil		
					温度范围 (℃) Tem.rang	粘度范围 (mm2/S) Visc.rang	过滤精度 (μm) filtrating accuracy
20	31.5	120	160	≤1	-20 ~ +80	10 ~ 400	≤10

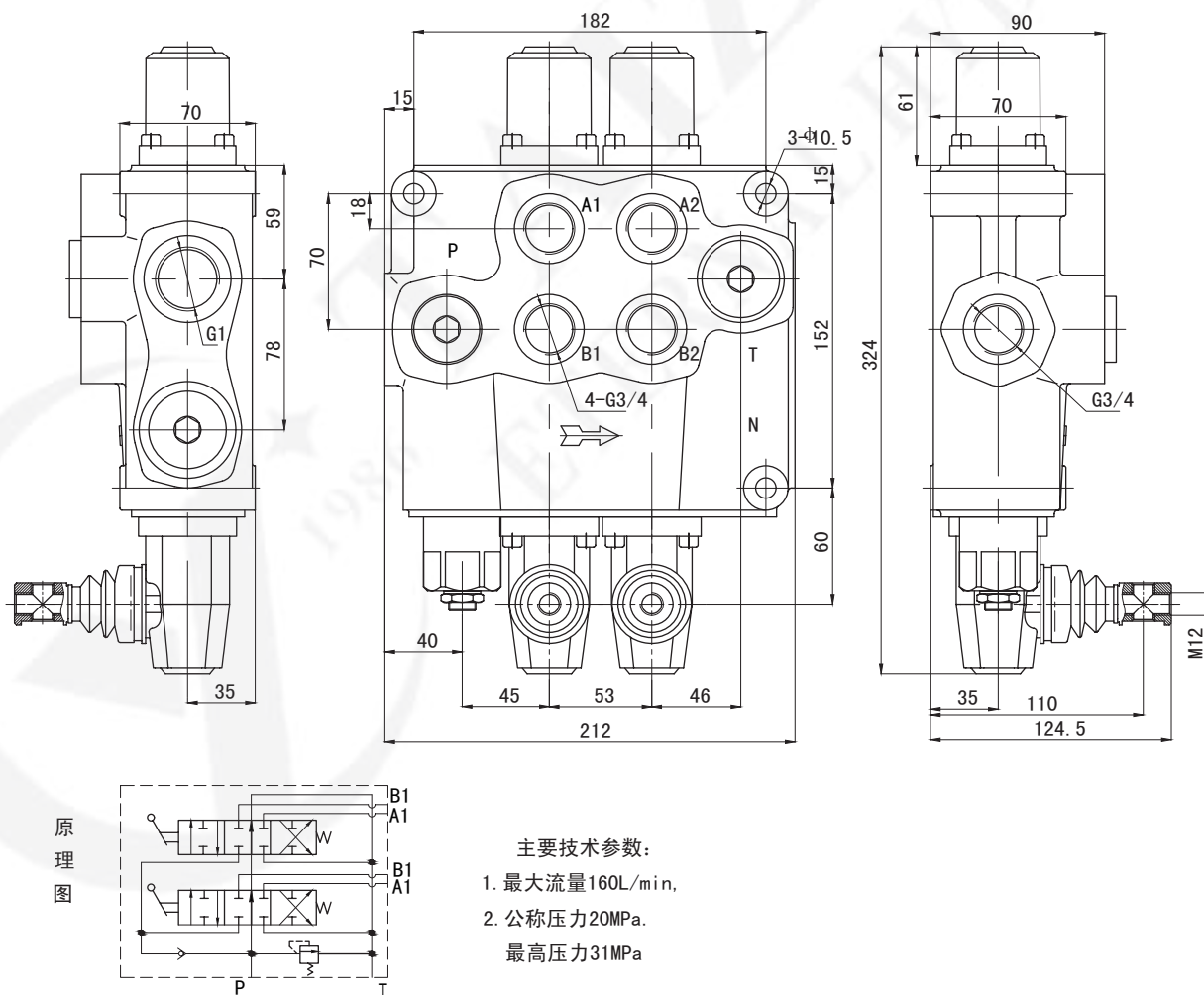
SD18系列整体阀

SD18 Series Monoblock Directional Control Valve

油口尺寸/PORT SIZE

油口 MAIN PORTS	英制 BSP	美制 UN-UNF
进油口 Inlet P	G3/4, G1	1 5/16-12 UN-2B (SAE 16)
工作油口 Ports A and B	G3/4, G1	1 1/16-12 UN-2B (SAE 12)
出油口 Outlet T	G1	1 5/16-12 UN-2B (SAE 16)
高压输出口 carry-over C	M36 × 1.5	M36 × 1.5

SD18外形安装连接尺寸/MODEL SD18 DIMENSIONAL DATA



注: 订货有特殊要求者, 请与销售顾问联系。

Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

SD8 系列分片式多路阀

SD8 Series Sectional Directional Control Valves

产品描述/SPECIFICATION

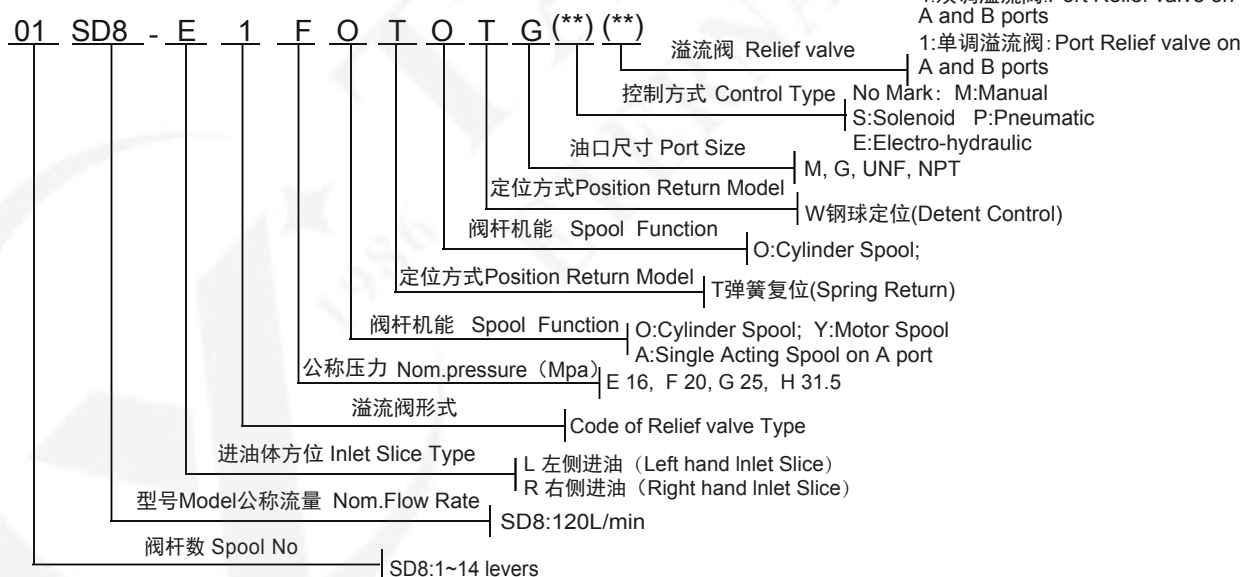
SD8系列分片式多路阀引进了欧洲先进技术，具有机构紧凑、耐高压，使用寿命长，能做1-14连，同时有中位开启和中位闭合两种液压系统。SD8每一片阀体都可以根据客户要求增加溢流阀，补油阀等。控制方式有手动、气动、电液控和软轴遥控等多种不同的控制方式，以满足客户不同的操控需求。该阀广泛应用于工程机械、环卫机械、矿山机械和其他机械的液压系统。



产品特点/FEATURES

- ◆ Simple, compact and heavy duty designed sectional valve from 1-14 sections for open and closed centre hydraulic systems.
- ◆ Flow rate: 90l/min, with max pressure 315bar.
- ◆ Joining port: L (screw connection)
- ◆ Spool function options: O, P, Y, A and etc.
- ◆ Nominal diameter: G1/2; G3/4, 7/8-14UNF, SAE10, 3/4-16UNF, SAE8, M18X1.5
- ◆ Spring side control options: spring control and detent control
- ◆ Lever side control options: manual, pneumatic control, electric and pneumatic control, hydraulic and electric control, hydraulic control and remote control.

型号说明/MODEL CODE



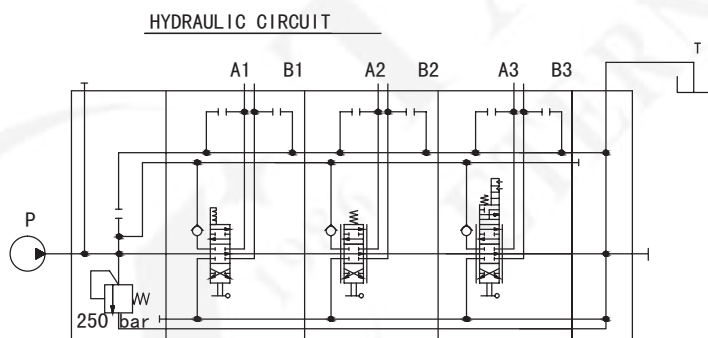
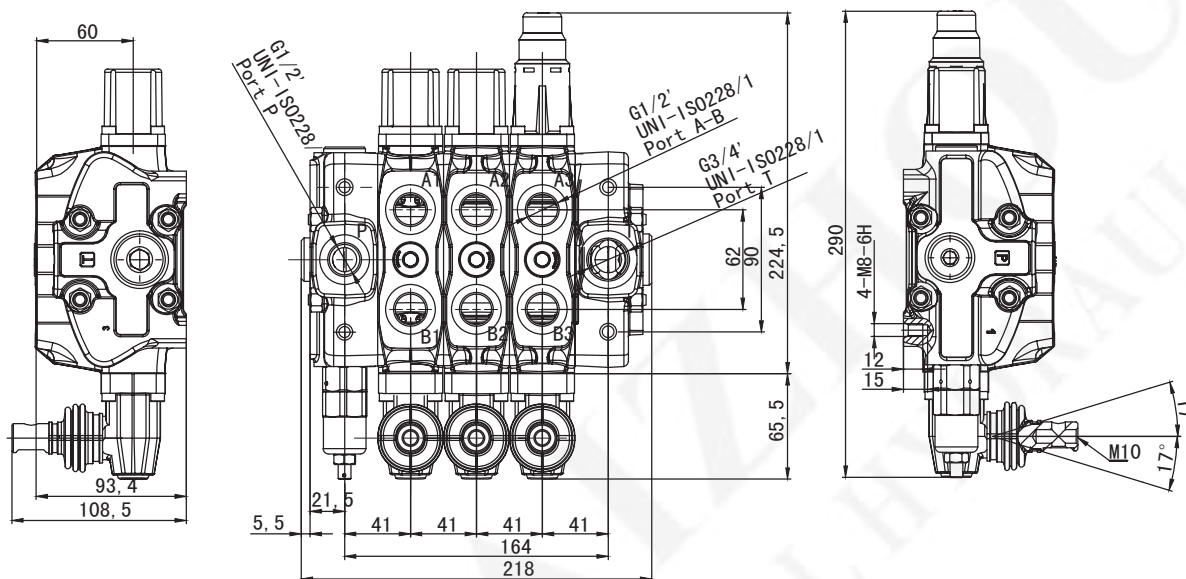
技术参数/PARAMETERS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	中位背压 (MPa) Back Pressure	工作油液 hydraulic oil		
				温度范围 (℃) Tem.rang	粘度范围 (mm ² /S) Visc.rang	过滤精度 (μm) filtrating accuracy
16	31.5	80	≤1	-20 ~ +80	10 ~ 400	≤10

SD8 系列分片式多路阀

SD8 Series Sectional Directional Control Valves

SD8 外形安装连接尺寸/MODEL SD8 DIMENSIONAL DATA



注：订货有特殊要求者，请与销售顾问联系。

Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

SD8 系列液控多路阀

SD8 Hydraulic Pilot Control Valve

产品描述/SPECIFICATION

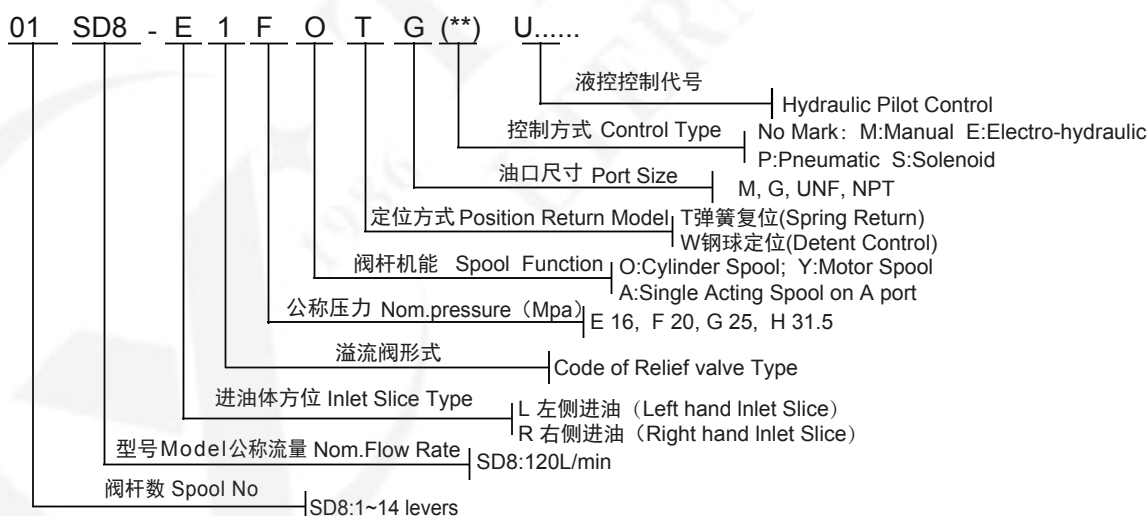
SD8系列分片式多路阀引进了欧洲先进技术，具体有机构紧凑、耐高压，使用寿命长。SD8每一片阀体都可以根据客户要求增加溢流阀，补油阀等。控制方式有手动、气动、电液控和软轴遥控等多种不同的控制方式，以满足客户不同的操控需求。该阀广泛应用于工程机械、环卫机械、矿山机械和其他机械的液压系统。



产品特点/FEATURES

- ◆ Simple, compact and heavy duty designed sectional valve from 1 to 14 sections for open and closed center hydraulic systems.
- ◆ Fitted with a main pressure relief valve and a load check valve on every working section
- ◆ Flow rate:90LPM, with max pressure 315bar.
- ◆ Spool function options: P,T,Y,A and ect.
- ◆ Optional carry-over port.
- ◆ A wide range of anti shock+anticavitation port valves.
- ◆ Intermediate sections for several types of circuit.
- ◆ Available manual, pneumatic, electrohydraulic, proportional hydraulic, spool control kits.
- ◆ Diameter 18 mm (0.71 in) interchangeable spools.

型号说明/MODEL CODE



技术参数/PARAMETERS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	中位背压 (MPa) Back Pressure	工作油液 hydraulic oil		
				温度范围 (℃) Tem.rang	粘度范围 (mm2/S) Visc.rang	过滤精度 (μm) filtrating accuracy
16	31.5	80	≤1	-20 ~ +80	10 ~ 400	≤10

SD8 系列液控多路阀

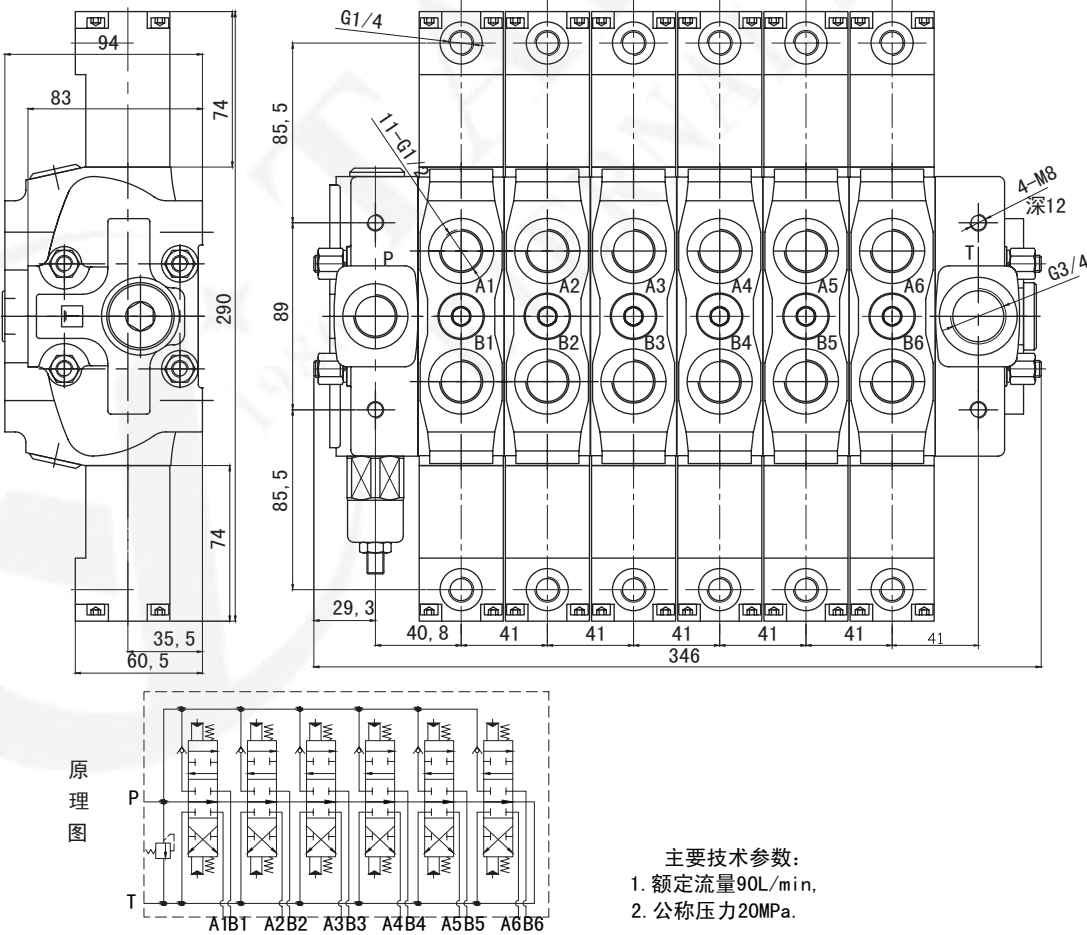
SD8 Hydraulic Pilot Control Valve

技术参数/PARAMETERS

油口 MAIN PORTS	英制 BSP	美制 UN-UNF
进油口 Inlet P	G1/2	7/8-14UNF (SAE 10)
工作油口 Ports A and B	G1/2	3/4-16UNF(SAE8)
出油口 Outlet T	G3/4	7/8-14UNF (SAE 10)
高压输出口 carry-over C	G3/4	7/8-14UNF (SAE 10)
液控油口 Hydraulic pilot port	G1/4	9/16-18(SAE6)

注：订货有特殊要求者，请与销售顾问联系。
Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

SD8外形安装连接尺寸/MODELR DV SD8 DIMENSIONAL DATA



SDS180 系列分片式多路阀

SDS180 Series Sectional Directional Control Valves

产品描述/SPECIFICATION

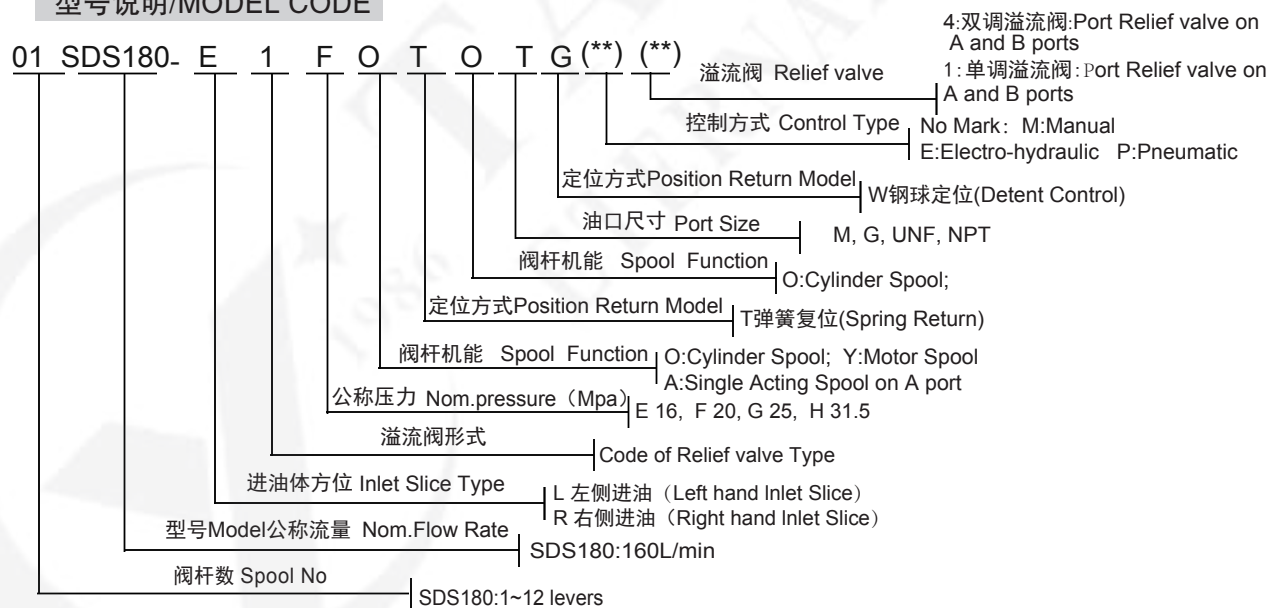
SDS180系列分片式多路阀引进了欧洲先进技术，具有机构紧凑、耐高压，使用寿命长。SDS180每一片阀体都可以根据客户要求增加溢流阀，补油阀等。控制方式有手动、气动、电液控和软轴遥控等多种不同的控制方式，以满足客户不同的操控需求。该阀广泛应用于工程机械、环卫机械、矿山机械和其他机械的液压系统。

产品特点/FEATURES

- ◆ Simple, compact and heavy duty designed sectional valve from 1 to 12 sections for open and closed centre hydraulic systems.
- ◆ Fitted with a main pressure relief valve and a load check valve on every working section
- ◆ Available with parallel, tandem or series circuit.
- ◆ Optional carry-over port.
- ◆ A wide range of antishock+anticavitation port valves.
- ◆ Intermediate sections for several types of circuit.
- ◆ Available manual, pneumatic, electrohydraulic, proportional hydraulic, spool control kits.
- ◆ Diameter 20 mm (0.79 in) interchangeable spools.



型号说明/MODEL CODE



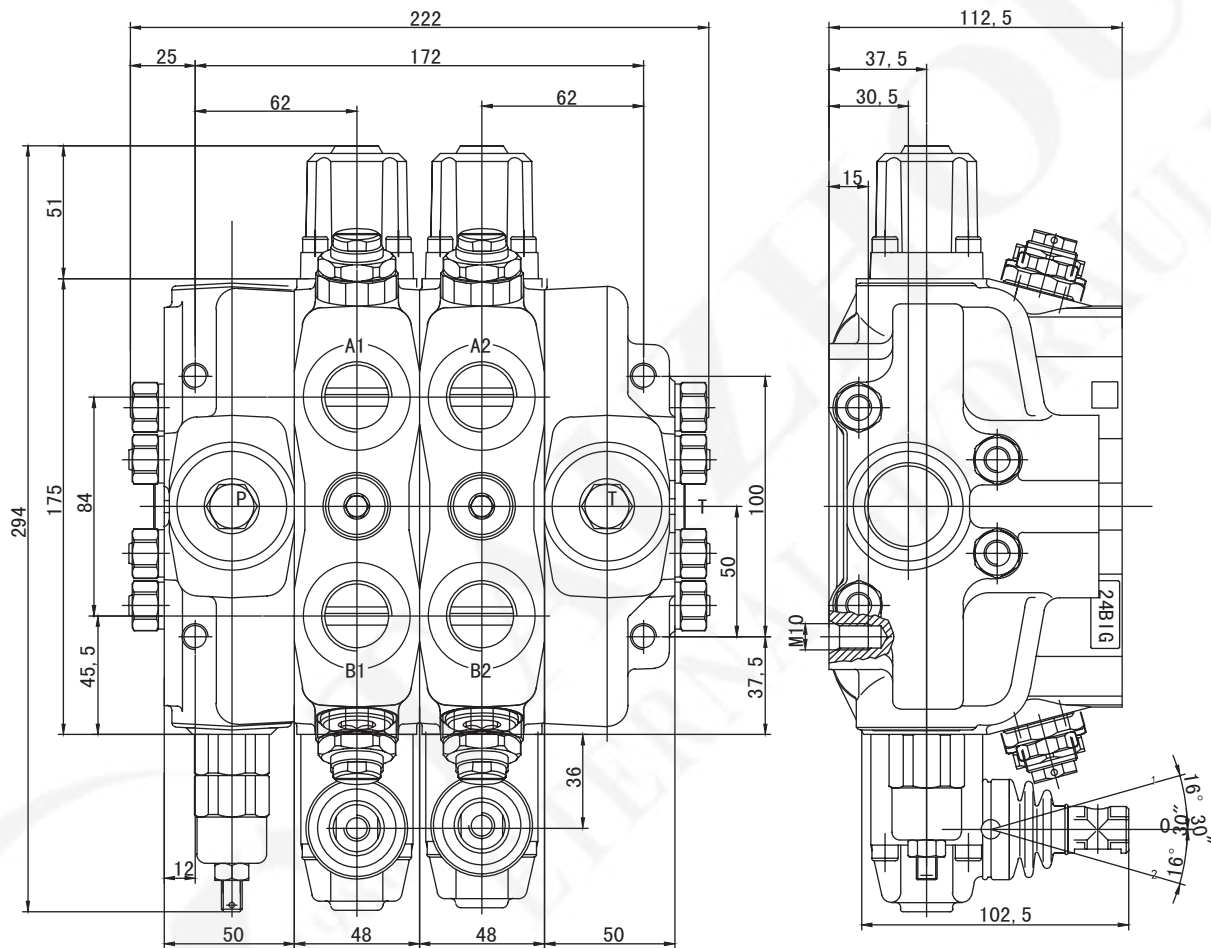
技术参数/PARAMETERS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	中位背压 (MPa) Back Pressure	工作油液 hydraulic oil		
				温度范围 (℃) Tem.rang	粘度范围 (mm ² /S) Visc.rang	过滤精度 (μm) filtrating accuracy
16	31.5	160	≤1	-20 ~ +80	10 ~ 400	≤10

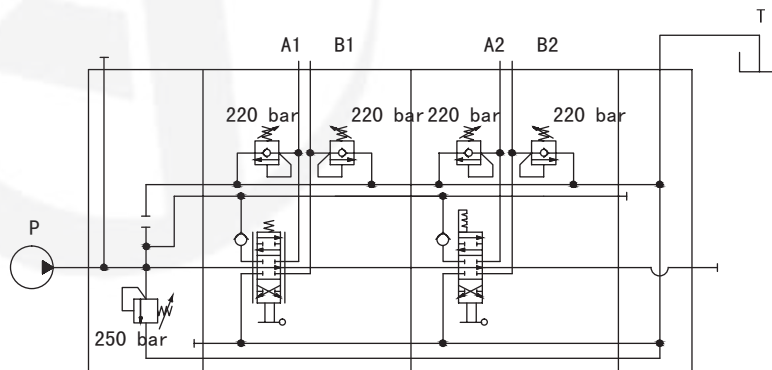
SDS180 系列分片式多路阀

SDS180 Series Sectional Directional Control Valves

SDS180 外形安装连接尺寸/MODEL SDS180 DIMENSIONAL DATA



HYDRAULIC CIRCUIT



注：订货有特殊要求者，请与销售顾问联系。

Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

SDS180 系列液控分片式多路阀

SDS180 Hydraulic Pilot Control Valve

用途与特征/APPLICATIONS&FEATURES

SDS180系列分片式多路阀引进了欧洲先进技术，具体机构紧凑、耐高压，使用寿命长。SDS180每一片阀体都可以根据客户要求增加溢流阀，补油阀等。控制方式有手动、气动、电液控和软轴遥控等多种不同的控制方式，以满足客户不同的操控需求。该阀广泛应用于工程机械、环卫机械、矿山机械和其他机械的液压系统。

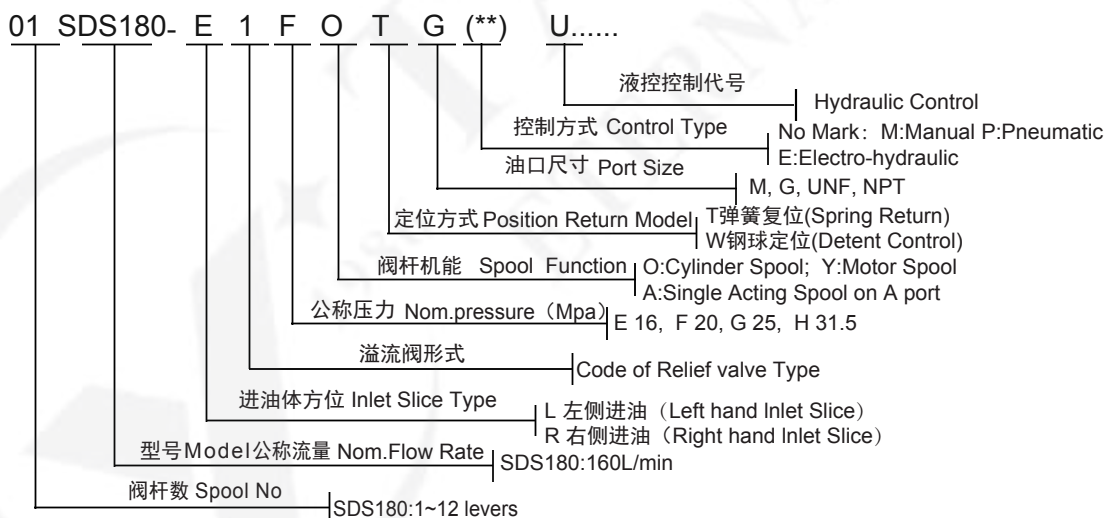


产品特点/FEATURES

Simple, compact and heavy duty designed sectional valve from 1 to 12 sections for open and closed center hydraulic systems.

- ◆ Fitted with a main pressure relief valve and a load check valve on every working section
- ◆ Available with parallel, tandem or series circuit.
- ◆ Optional carry-over port.
- ◆ A wide range of antishock+anticavitation port valves.
- ◆ Intermediate sections for several types of circuit.
- ◆ Available manual, pneumatic, electrohydraulic, proportional hydraulic, spool control kits.
- ◆ Diameter 20 mm (0.79 in) interchangeable spools.

型号说明/MODEL CODE



技术参数/PARAMETERS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	中位背压 (MPa) Back Pressure	工作油液hydraulic oil		
				温度范围 (℃) Tem.rang	粘度范围 (mm ² /S) Visc.rang	过滤精度 (μm) filtrating accuracy
16	31.5	160	≤1	-20 ~ +80	10 ~ 400	≤10

SDS180 Hydraulic Pilot Control Valve

油口 MAIN PORTS	英制 BSP	美制 UN-UNF
进油口 Inlet P	G3/4	1 5/16-12 UN-2B (SAE 16)
工作油口 Ports A and B	G3/4	1 1/16-12 UN-2B (SAE 12)
出油口 Outlet T	G1	1 5/16-12 UN-2B (SAE 16)
高压输出 口 carry-over C	G1	1 5/16-12 UN-2B (SAE 16)
液控油口 Hydraulic pilot port	G1/4	9/16-18(SAE6)

Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

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SD25 系列分片式多路阀

SD25 Series Sectional Directional Control Valves

产品描述/SPECIFICATION

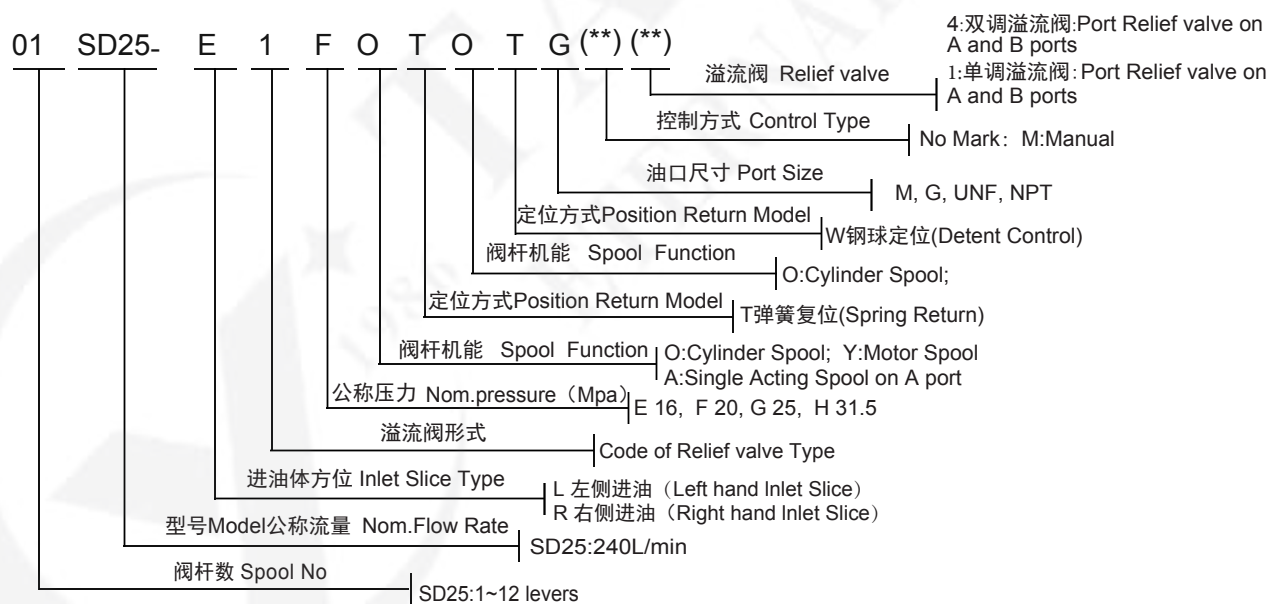
SD25系列分片式多路阀引进了欧洲先进技术，具有机构紧凑、耐高压，使用寿命长。同时SD25片阀的流量高达240l/min，能满足大型工程机械的设计流量要求。SD25每一片阀体都可以根据客户要求增加溢流阀，补油阀等。控制方式有手动、气动、电液控和软轴遥控等多种不同的控制方式，以满足客户不同的操控需求。该阀广泛应用于工程机械、环卫机械、矿山机械和其他机械的液压系统。



产品特点/FEATURES

- ◆ Simple, compact and heavy duty designed sectional valve from 1 to 12 sections for open and closed centre hydraulic systems.
- ◆ Fitted with a main pressure relief valve and a load check valve on every working section
- ◆ Available with parallel or series circuit.
- ◆ Optional carry-over port.
- ◆ A wide variety of service ports and circuit valves.
- ◆ Available manual, pneumatic, hydraulic, electro-hydraulic, and remote with flexible cables spool control kits.
- ◆ Diameter 25 mm (0.98 in) interchangeable spools.

型号说明/MODEL CODE



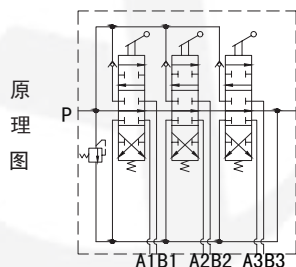
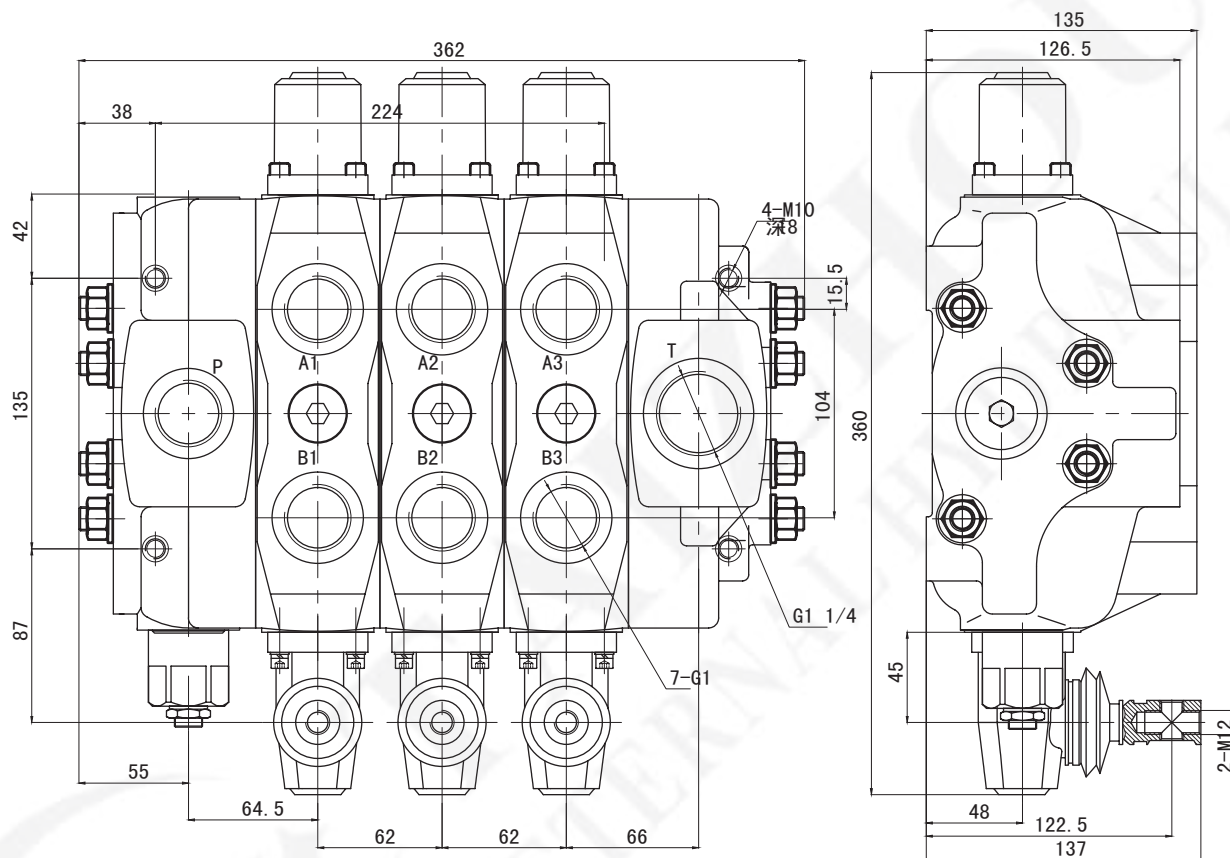
技术参数/PARAMETERS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	中位背压 (MPa) Back Pressure	工作油液 hydraulic oil		
				温度范围 (℃) Tem.rang	粘度范围 (mm ² /S) Visc.rang	过滤精度 (μm) filtrating accuracy
16	31.5	240	≤1	-20 ~ +80	10 ~ 400	≤10

SD25 系列分片式多路阀

SD25 Series Sectional Directional Control Valves

SD25 外形安装连接尺寸/MODEL SD25 DIMENSIONAL DATA



主要技术参数:

1. 额定流量240L/min,
2. 公称压力20MPa.

注: 订货有特殊要求者, 请与销售顾问联系。

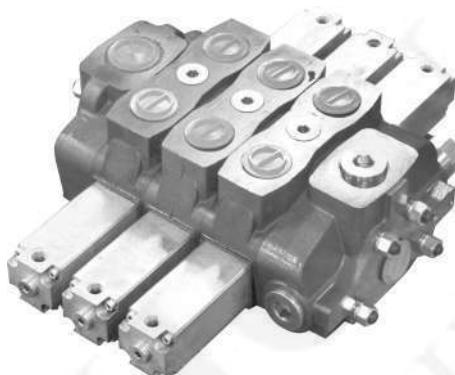
Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

SD25 系列液控多路阀

SD25 Hydraulic Pilot Control Valve

用途与特征/APPLICATIONS&FEATURES

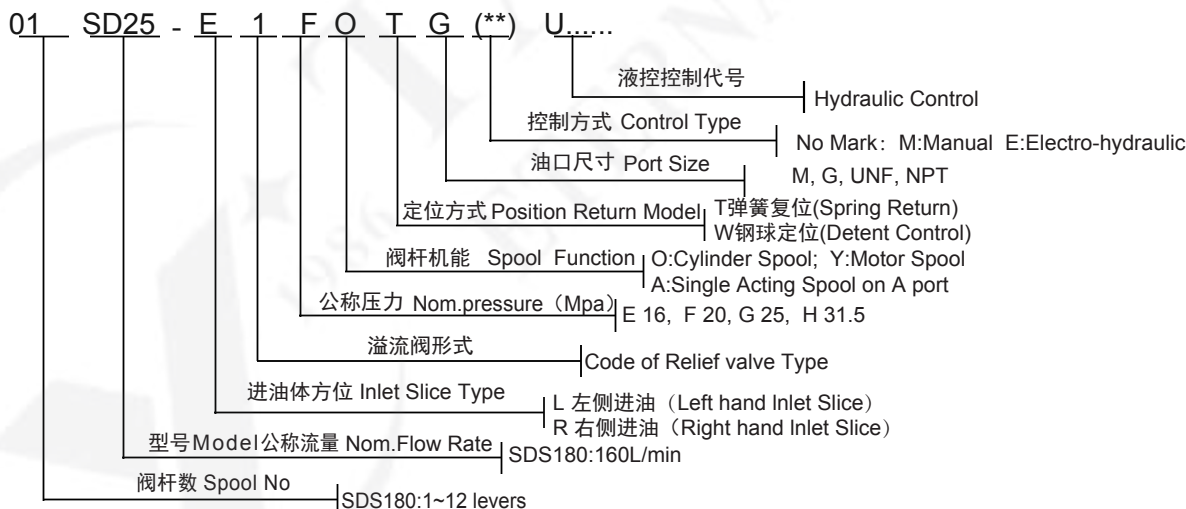
SD25系列分片式多路阀引进了欧洲先进技术，具体有机构紧凑、耐高压，使用寿命长。同时SD25片阀的流量高达240l/min，能满足大型工程机械的设计流量要求。SD25每一片阀体都可以根据客户要求增加溢流阀，补油阀等。控制方式有手动、气动、电液控和软轴遥控等多种不同的控制方式，以满足客户不同的操控需求。该阀广泛应用于工程机械、环卫机械、矿山机械和其他机械的液压系统。



产品特点/FEATURES

- ◆ Simple, compact and heavy duty designed sectional valve from 1 to 12 sections for open and closed center hydraulic systems.
- ◆ Fitted with a main pressure relief valve and a load check valve on every working section
- ◆ Available with parallel or series circuit.
- ◆ Optional carry-over port.
- ◆ A wide variety of service ports and circuit valves.
- ◆ Available manual, pneumatic, hydraulic, electro-hydraulic, and remote with flexible cables spool control kits.
- ◆ Diameter 25 mm (0.98 in) interchangeable spools.

型号说明/MODEL CODE



技术参数/PARAMETERS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	中位背压 (MPa) Back Pressure	工作油液hydraulic oil		
				温度范围 (℃) Tem.rang	粘度范围 (mm ² /S) Visc.rang	过滤精度 (μm) filtrating accuracy
16	31.5	240	≤1	-20 ~ +80	10 ~ 400	≤10

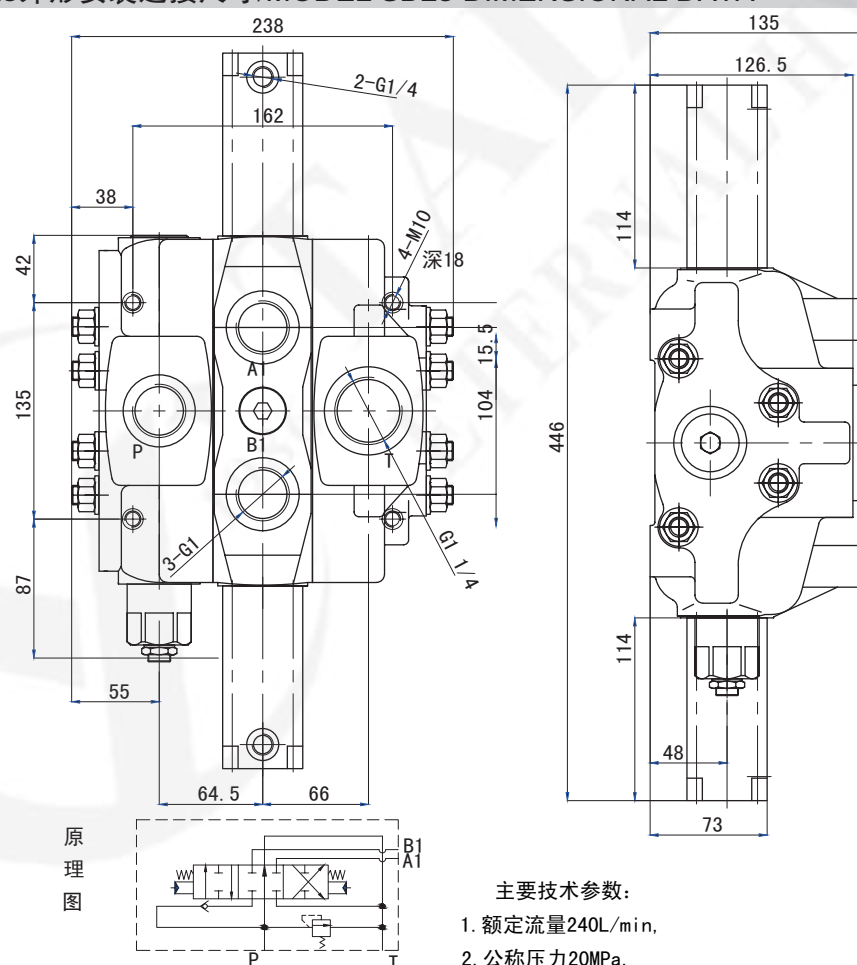
SD25 系列液控多路阀

SD25 Hydraulic Pilot Control Valve

油口尺寸/PORT SIZE

油口 MAIN PORTS	英制 BSP	美制 UN-UNF
进油口 Inlet P	G1	1 5/8-12 UN-2B (SAE 20)
工作油口 Ports A and B	G1	1 5/16-12 UN-2B (SAE 16)
出油口 Outlet T	G1 1/4	1 5/8-12 UN-2B (SAE 20)
高压输出口 carry-over C	G1 1/4	1 5/8-12 UN-2B (SAE 20)
液控油口 Hydraulic Pilot Port	G 1/4	9/16-18 UNF-2B (SAE 6)

SD25外形安装连接尺寸/MODEL SD25 DIMENSIONAL DATA



注：订货有特殊要求者，请与销售顾问联系。

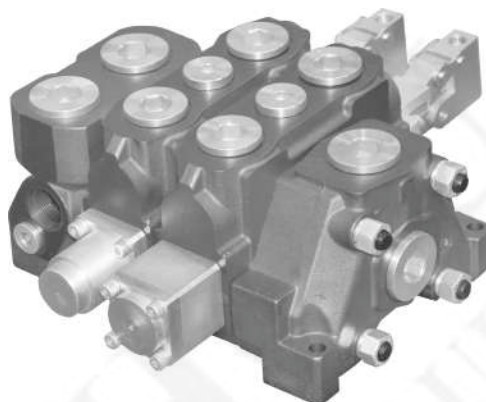
Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

SDS400系列分片式多路阀

SDS400Series Sectional Directional Control Valves

产品描述/SPECIFICATION

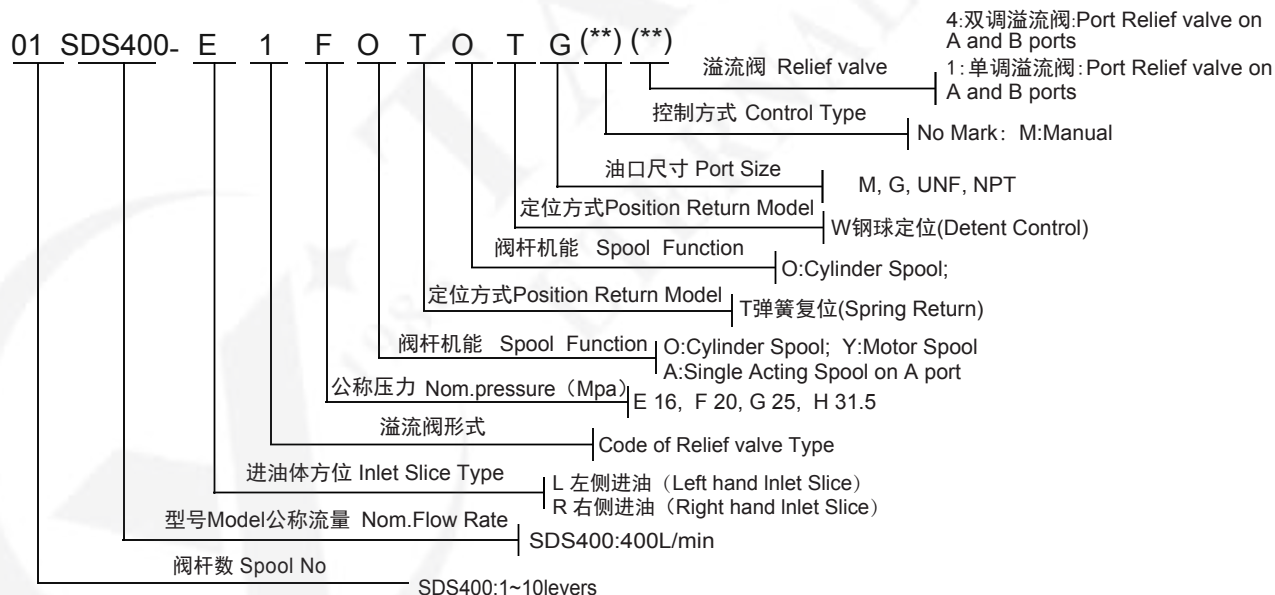
SDS400系列分片式多路阀引进了欧洲先进技术，具有机构紧凑、耐高压，使用寿命长。流量高达400l/min，填补了国内大流量多路阀的空白。SD400每一片阀体都可以根据客户要求增加溢流阀，补油阀等。控制方式有手动、气动、电液控和软轴遥控等多种不同的控制方式，以满足客户不同的操控需求。该阀广泛应用于工程机械、环卫机械、矿山机械和其他机械的液压系统。



产品特点/FEATURES

- ◆ Sectional directional control valve for high flow, available for fixed displacements hydraulic pumps.
- ◆ From 1 to 10 work sections
- ◆ Open centre
- ◆ Optional carry-over port
- ◆ Main pilot relief valve on inlet cover and load check valve on every section
- ◆ Available wide range of port valves Available manual and hydraulic control kits
- ◆ Diameter 30 mm (1.18 in) interchangeable spools

型号说明/MODEL CODE



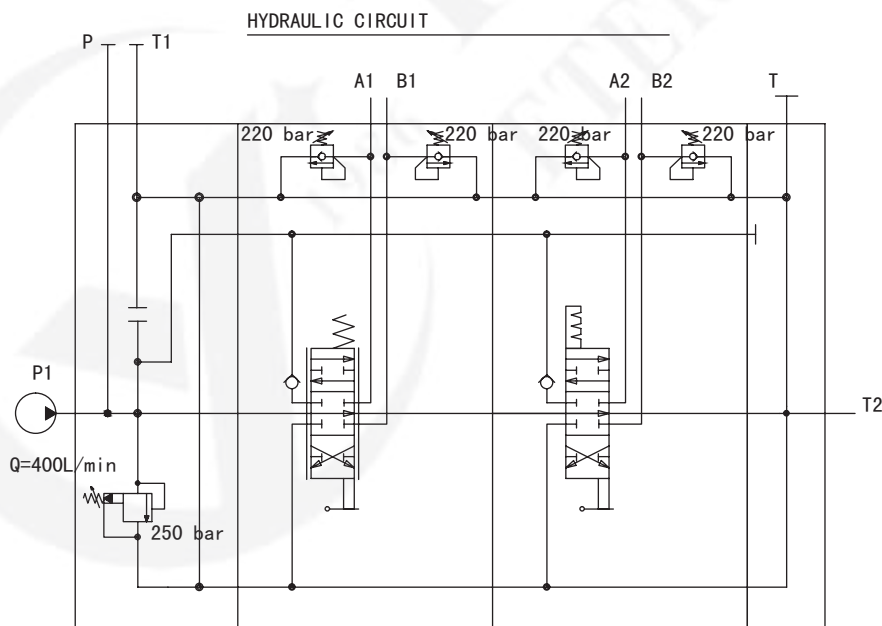
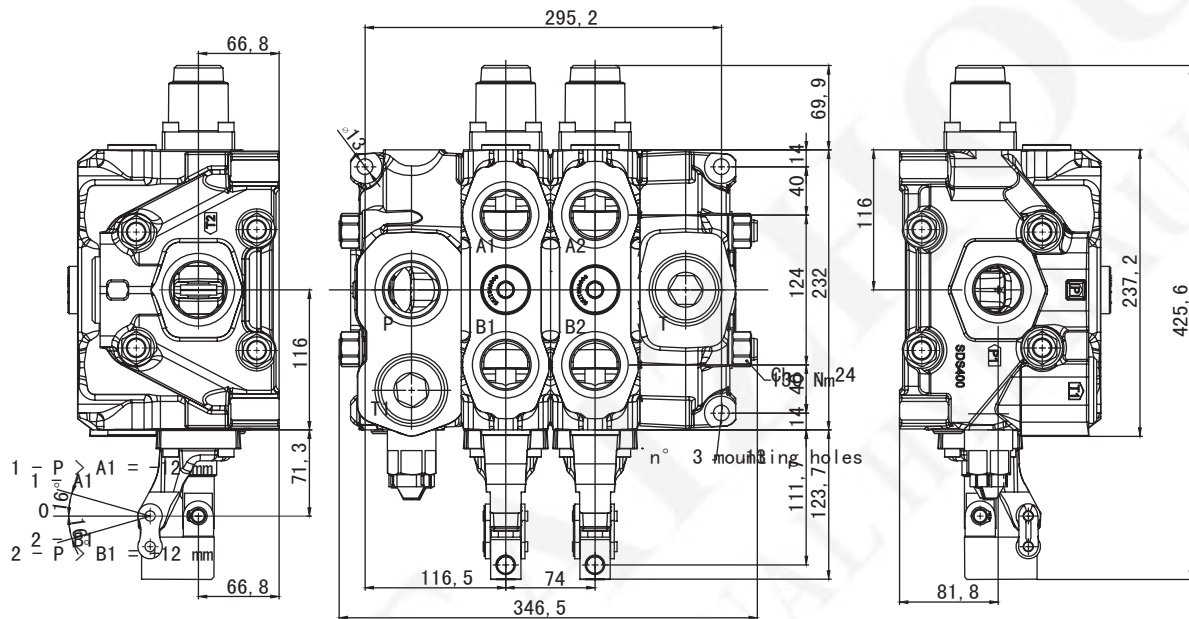
技术参数/PARAMETERS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	中位背压 (MPa) Back Pressure	工作油液hydraulic oil		
				温度范围 (℃) Tem.rang	粘度范围 (mm ² /S) Visc.rang	过滤精度 (μm) filtrating accuracy
16	31.5	400	≤1	-20 ~ +80	10 ~ 400	≤10

SDS400 系列分片式多路阀

SDS400 Series Sectional Directional Control Valves

SDS400 外形安装连接尺寸/MODEL SDS400 DIMENSIONAL DATA



注：订货有特殊要求者，请与销售顾问联系。

Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

SDS400 系列液控片式多路阀

SDS400 Hydraulic Pilot Control Valve

用途与特征/APPLICATIONS&FEATURES

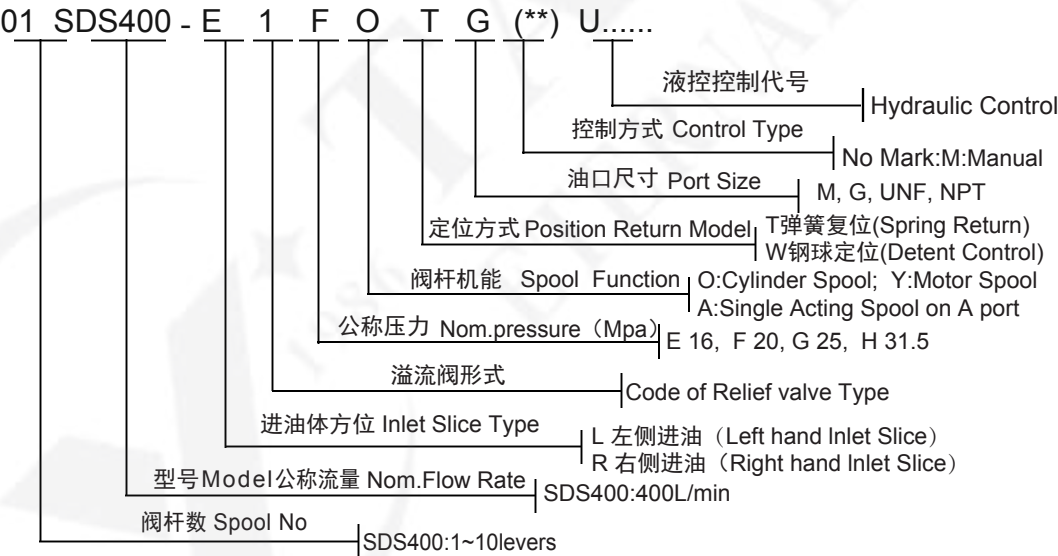
SDS400系列分片式多路阀引进了欧洲先进技术，具体有机构紧凑、耐高压，使用寿命长。流量高达400l/min，填补了国内大流量多路阀的空白。SDS400每一片阀体都可以根据客户要求增加溢流阀，补油阀等。控制方式有手动、气动、电液控和软轴遥控等多种不同的控制方式，以满足客户不同的操控需求。该阀广泛应用于工程机械、环卫机械、矿山机械和其他机械的液压系统。



产品特点/FEATURES

- ◆ Sectional directional control valve for high flow, available for fixed displacements hydraulic pumps.
- ◆ From 1 to 10 work sections
- ◆ Open center
- ◆ Optional carry-over port
- ◆ Main pilot relief valve on inlet cover and load check valve on every section
- ◆ Available wide range of port valves Available manual and hydraulic control kits
- ◆ Diameter 30 mm (1.18 in) interchangeable spools

型号说明/MODEL CODE



技术参数/PARAMETERS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	中位背压 (MPa) Back Pressure	工作油液hydraulic oil		
				温度范围 (℃) Tem.rang	粘度范围 (mm2/S) Visc.rang	过滤精度 (μm) filtrating accuracy
16	31.5	400	≤1	-20 ~ +80	10 ~ 400	≤10

SDS400 系列液控片式多路阀

SDS400 Hydraulic Pilot Control Valve

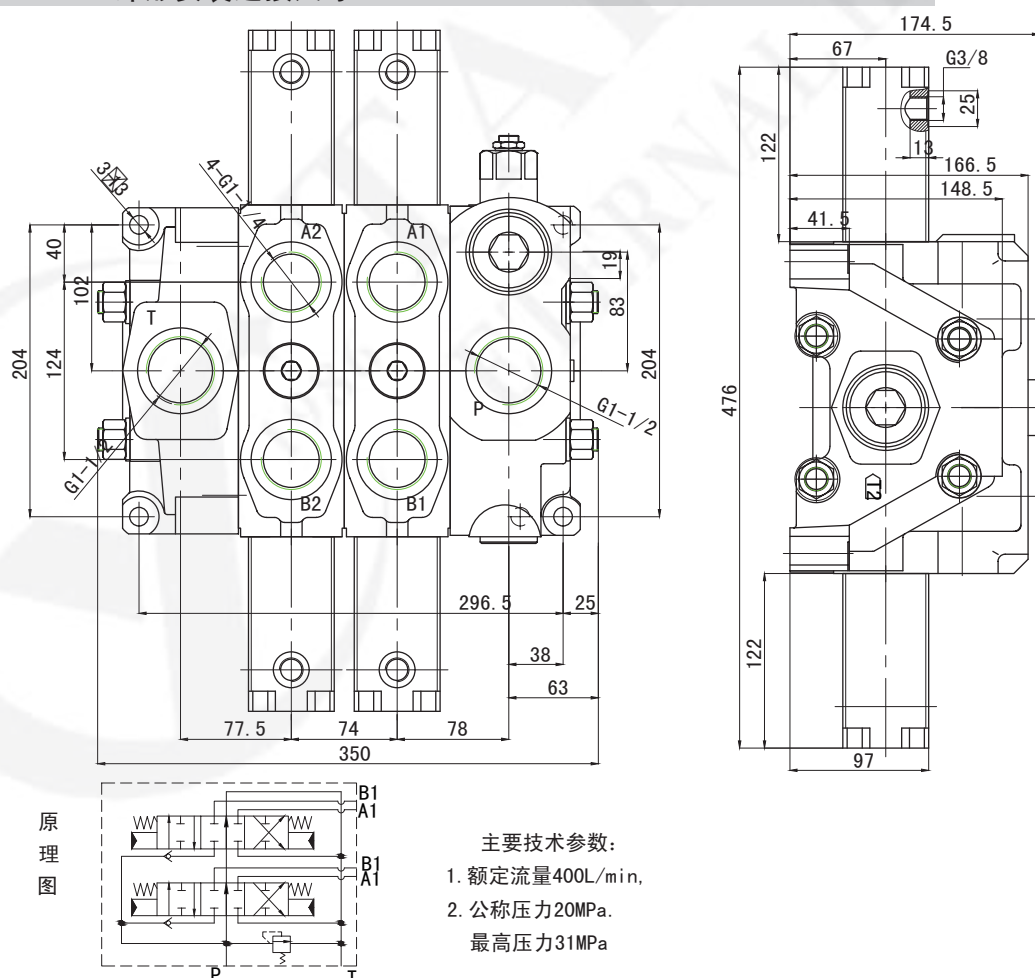
油口尺寸/PORT SIZE

油口 MAIN PORTS	英制 BSP	美制 UN-UNF
进油口 Inlet P/P1	G1 1/2 / G1 1/4	1 7/8-12 (SAE 24) 1 5/8-12 (SAE 20)
工作油口 Ports A and B	G1 1/4	1 5/8-12 (SAE 20)
出油口 Outlet T	G1 1/4	1 7/8-12 (SAE 24)
高压输出口 carry-over C	G1 1/2	1 7/8-12 (SAE 24)
液控油口 Hydraulic pilot port	G3/8	9/16-18 (SAE8)

注：订货有特殊要求者，请与销售顾问联系。

Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

SDS400外形安装连接尺寸/MODEL SDS400 DIMENSIONAL DATA



DCV20系列整体阀

DCV20 Series Monoblock Directional Control Valves.

用途与特征/APPLICATIONS&FEATURES

DCV20多路换向阀是我单位自主设计开发的一种中高压整体式多路换向阀。可按客户要求阀上设溢流阀等。溢流阀可调节系统压力，单向阀防止油液倒流，换向阀滑阀机能可有A、O、Y、P等，可任意组合。换向手柄有两种安装形式，便于不同方向的操作。该阀采用并联油路，经过特殊设计的密封方式，使该阀的密封性能卓越。该阀广泛用于叉车、环卫车辆、小型装载机等工程机械的液压系统。

Model DCV20 with middle-high pressure monoblock and 1-6 spools construction is an independently developed control valves by our company.

◆ Inner check valve: The check valve inside the valve body is to insure the hydraulic oil not to be returned.

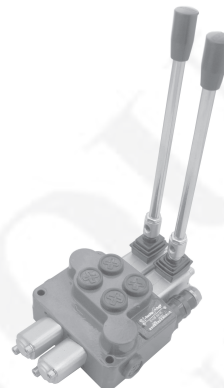
◆ Inner relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.

◆ Oil way: Parallel circuit,

◆ Control Way: Manual control

◆ Valve construction: monoblock construction, 2levers.

◆ Spool Function: O,A,Y P.



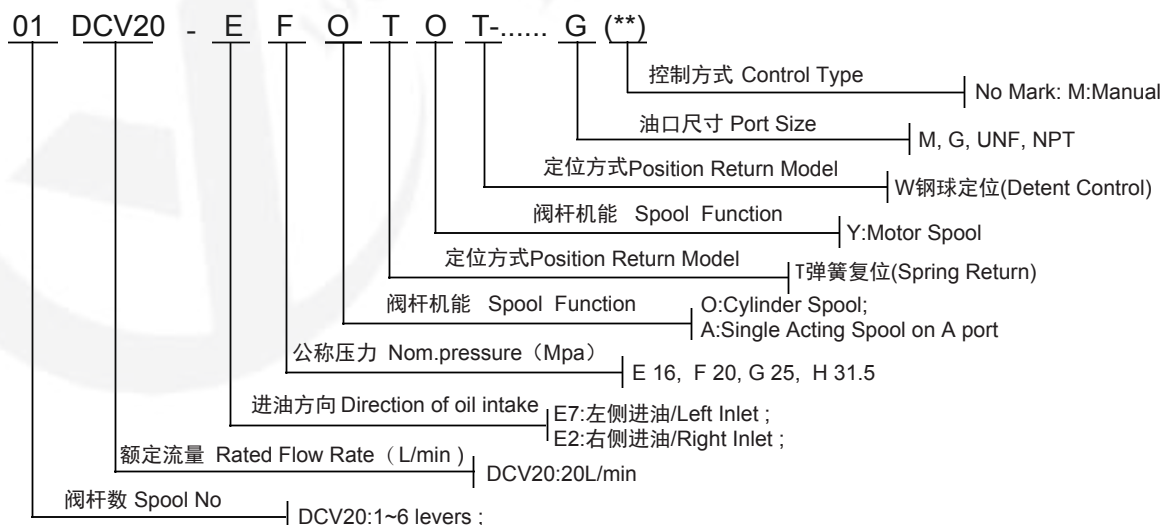
性能参数/SPECIFICATIONS

公称压力 Nominal Pressure (Mpa)	最大压力 Max. pressure (Mpa)	公称流量 Nom. flow (L/min)	允许背压 Allowable Back. pressure (Mpa)	工作油液 Hydraulic Oil		
				温度范围 Tem.range (°C)	粘度范围 Visc.range (mm2/s)	过滤精度 Filtrating accuracy (μm)
16	31.5	20	≤1	-20~+80	10~400	≤10

注：油液最高污染等级：按GB/T14039之19/16

Note: maximum permissible degree of contamination of the oil is according to GB/T14039-19/16

型号说明/MODEL CODE



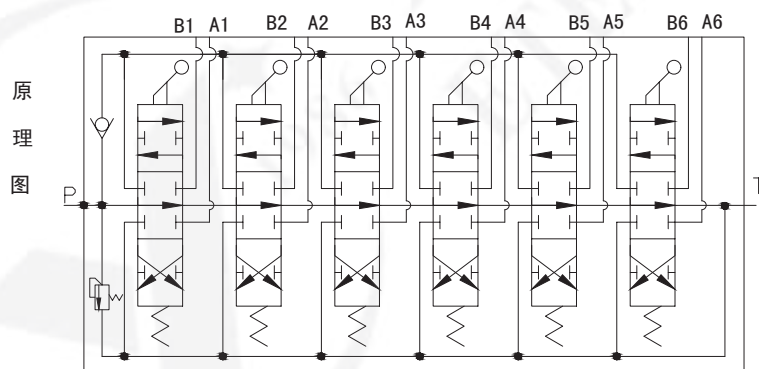
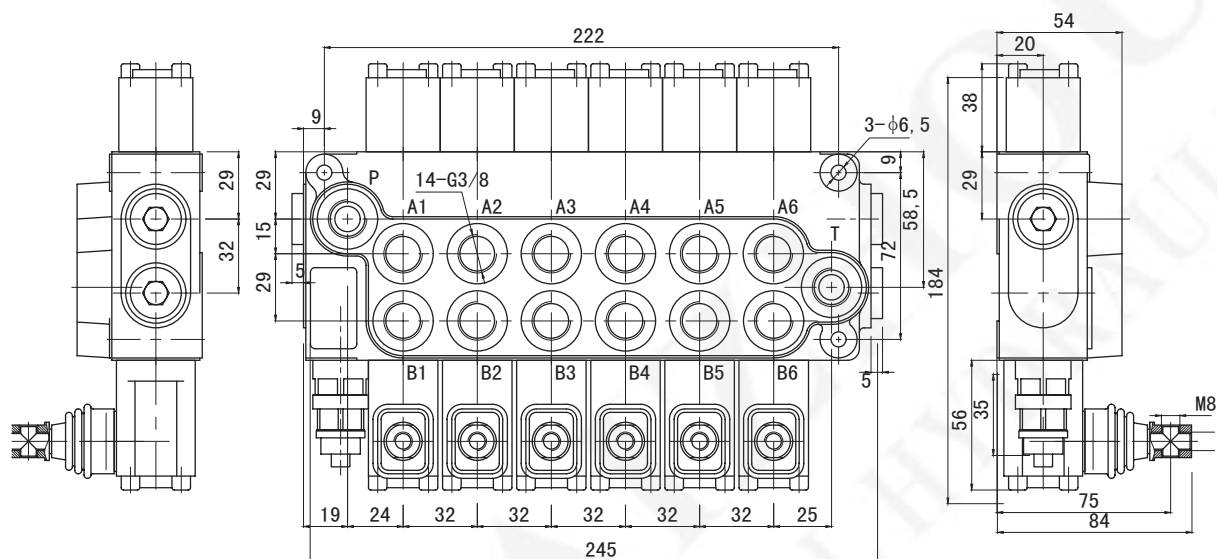
注：订货有特殊要求者，请与销售顾问联系。

Note: Special features not listed on can often be made to your specifications. Please consult your sales representative.

DCV20系列整体阀

DCV20 Series Monoblock Directional Control Valves.

DCV20外形安装连接尺寸/MODEL DCV20 DIMENSIONAL DATA



技术参数:

1. 公称压力 20MPa
2. 额定流量 20L/min

DCV40系列整体阀

DCV40 Series Monoblock Directional Control Valves.

用途与特征/APPLICATIONS&FEATURES

DCV40多路换向阀是我单位自主设计开发的一种中高压整体式多路换向阀。可按客户要求可在阀上设溢流阀、液压锁、单向阀等。溢流阀可调节系统压力，单向阀防止油液倒流，换向阀滑阀机能可有A、O、Y、P等，可任意组合，换向手柄有两种安装形式，便于不同方向的操作，该阀采用并联油路，设计有压力输出口与其它液压元件相接提供动力源。经过特殊设计的密封方式，使阀的密封性能卓越。该阀广泛用于叉车、环卫车辆、小型装载机等工程机械的液压系统。



Model DCV40 with middle-high pressure monoblock construction is an independently developed control valves by our company.

- ◆ Inner check valve: The check valve inside the valve body is to insure the hydraulic oil not to be returned.
- ◆ Inner relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.
- ◆ Oil way: Parallel circuit, power beyond option
- ◆ Control Way: Manual control, pneumatic control, hydraulic and electric control for optional.
- ◆ Valve construction: monoblock construction, 1-8 levers.
- ◆ Spool Function: O, Y, P, A.
- ◆ Option: Hydraulic lock is available to be added on A and B port.
- ◆ The valve is widely used in the hydraulic system of forklift, environment vehicle and light loading machines.

性能参数/SPECIFICATIONS

公称压力 Nominal Pressure (Mpa)	最大压力 Max. pressure (Mpa)	公称流量 Nom. flow (L/min)	允许背压 Allowable Back pressure (Mpa)	工作油液 Hydraulic Oil		
				温度范围 Tem.range (°C)	粘度范围 Visc.range (mm ² /s)	过滤精度 Filtrating accuracy (μm)
16	31.5	50	≤ 1	-20~+80	10~400	≤ 10

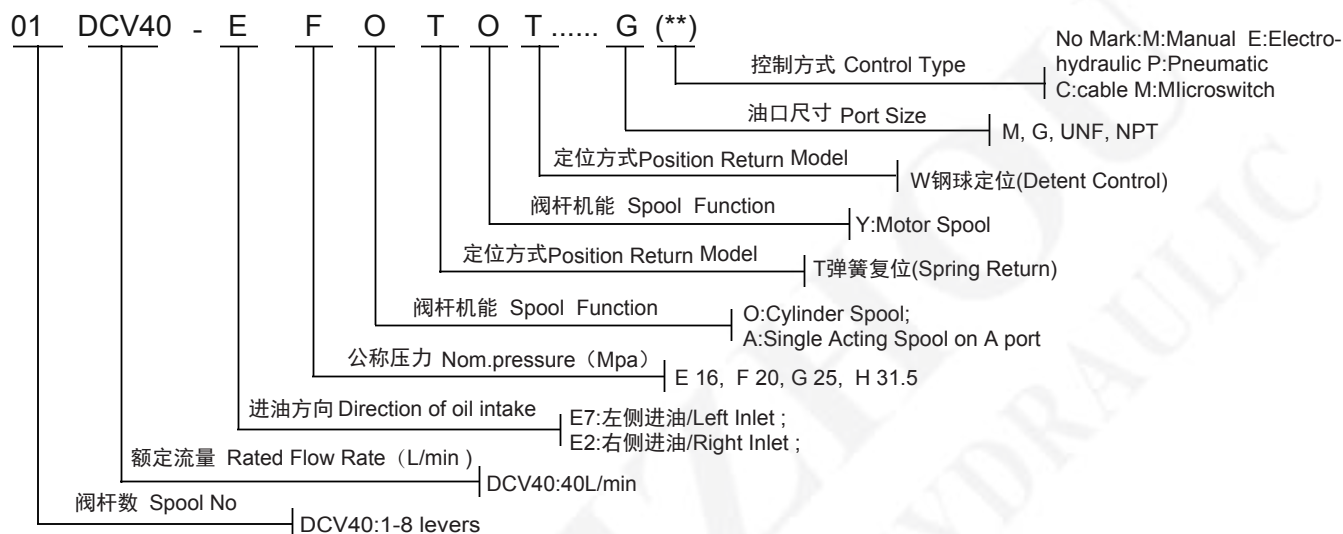
注：油液最高污染等级：按GB/T14039之19/16

Note: maximum permissible degree of contamination of the oil is according to GB/T14039-19/16

DCV40系列整体阀

DCV40 Series Monoblock Directional Control Valves.

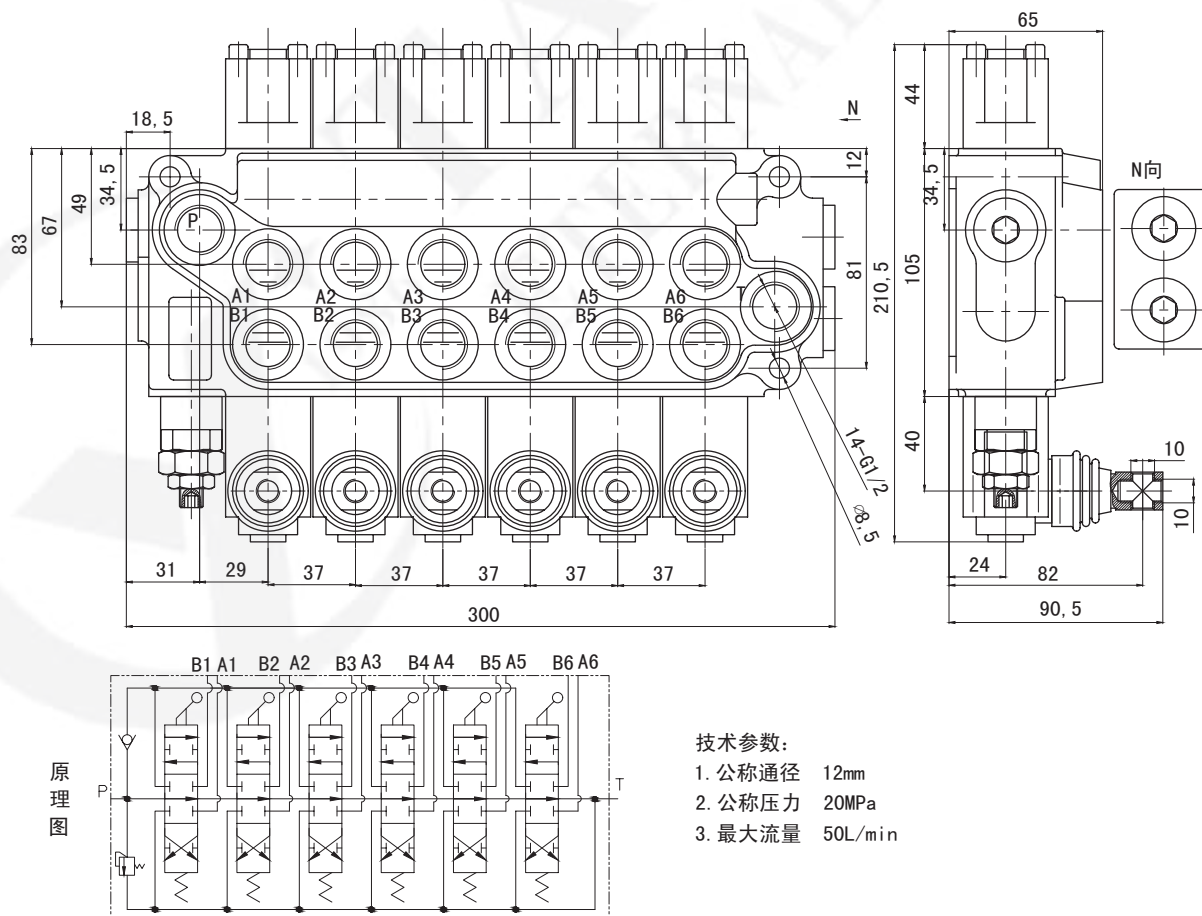
型号说明/MODEL CODE



注: 订货有特殊要求者, 请与销售顾问联系。

Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

DCV40外形安装连接尺寸/MODEL DCV40 DIMENSIONAL DATA



DCV40气控系列多路阀

DCV40 Pneumatic Control Valve Series

产品描述/SPECIFICATION

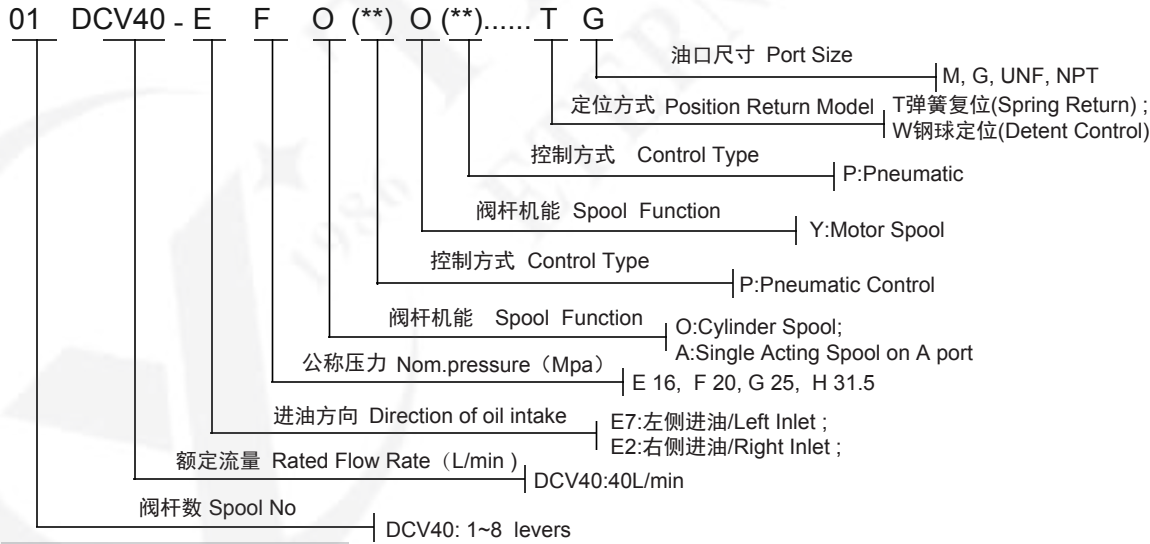
DCV40气控系列多路阀是在DCV40手动控制系列的基础上改进而来。它主要是改变了手动换向阀的操纵机构，在手动的基础上增加了气动控制，能够更好地实现远程控制。DCV40系列多路阀的回油端设置了压力输出口，可与其他液压元件串联使用。根据用户需要，换向阀的操纵机构可以和普通手动控制进行任意组合。该阀广泛应用于工程机械、环卫机械、矿山机械和其他机械的液压系统。

产品特点/FEATURES

- ◆ 内置单向阀：阀体内置单向阀，防止油液倒流
- ◆ 内置安全阀：阀体内置溢流阀，可调节控制系统压力
- ◆ 油路形式：并联油路，带压力输出口
- ◆ 控制方式：气控换向，也可手动换向
- ◆ 阀体结构：整体结构，1-8联任意组合
- ◆ 阀杆机能：O、A、Y等
- ◆ Inner check valve: The check valve inside the valve body to insure the hydraulic oil not to be returned.
- ◆ Inner relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.
- ◆ Oil way: Parallel circuit, with power beyond.
- ◆ Control Way: pneumatic control, manual control
- ◆ Valve construction: monoblock construction, 1-8 levers are available to assembled as you requests.
- ◆ Spool Function: O,A,Y etc.



型号说明/MODEL CODE



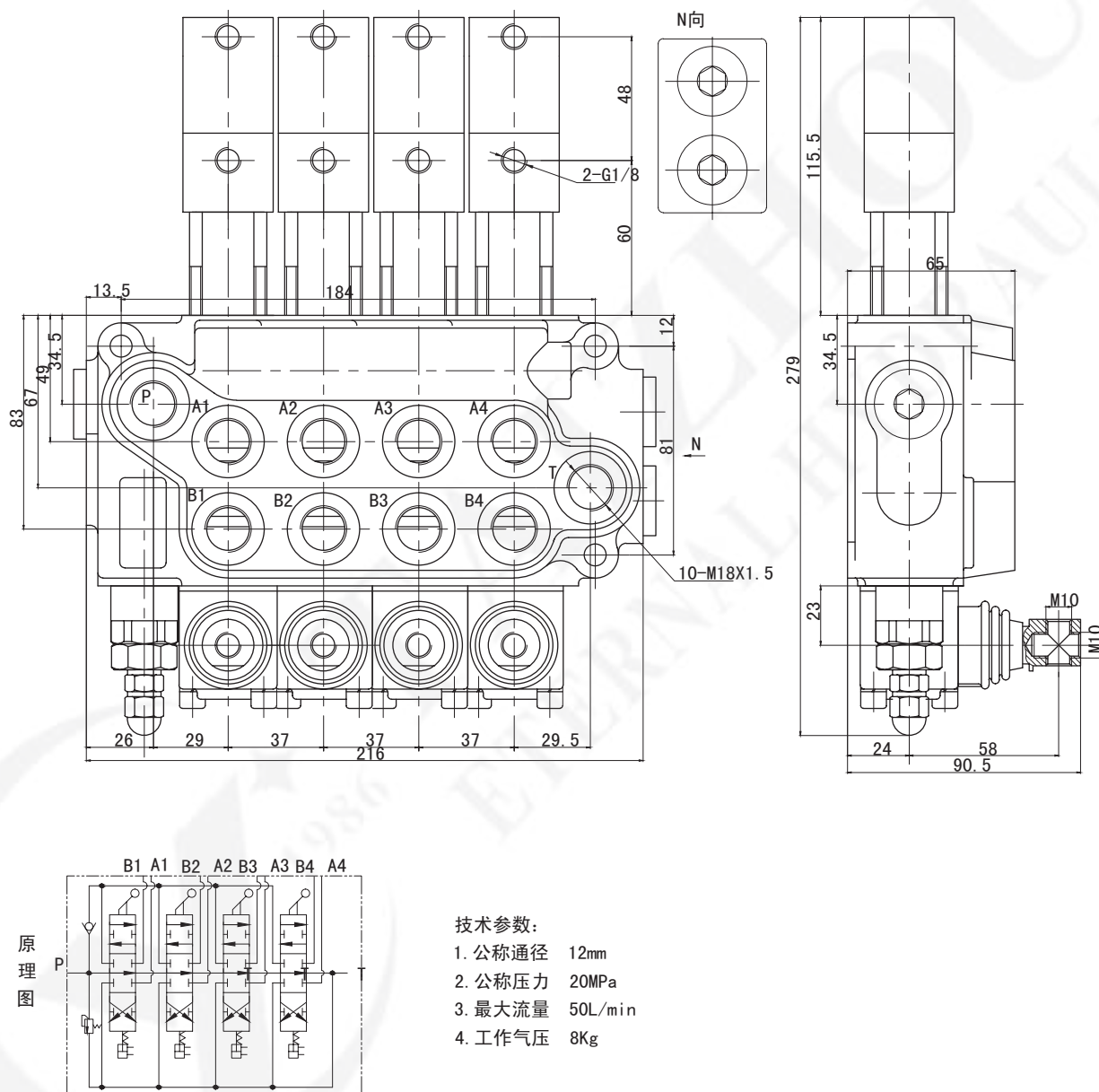
技术参数/PARAMETERS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	最大流量 (L/min) Max. Flow rate	中位背压 (MPa) Back Pressure	工作油液hydraulic oil		
					温度范围 (℃) Tem.rang	粘度范围 (mm2/S) Visc.rang	过滤精度 (μm) filtrating accuracy
20	31.5	40	50	≤1	-20 ~ +80	10 ~ 400	≤10

DCV40气控系列多路阀

DCV40 Pneumatic Control Valve Series

DCV40外形安装连接尺寸/MODEL DCV40 DIMENSIONAL DATA



注: 订货有特殊要求者, 请与销售顾问联系。

Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

DCV40电气控系列多路阀

DCV40 Electric and Pneumatic Control Valve

产品描述/SPECIFICATION

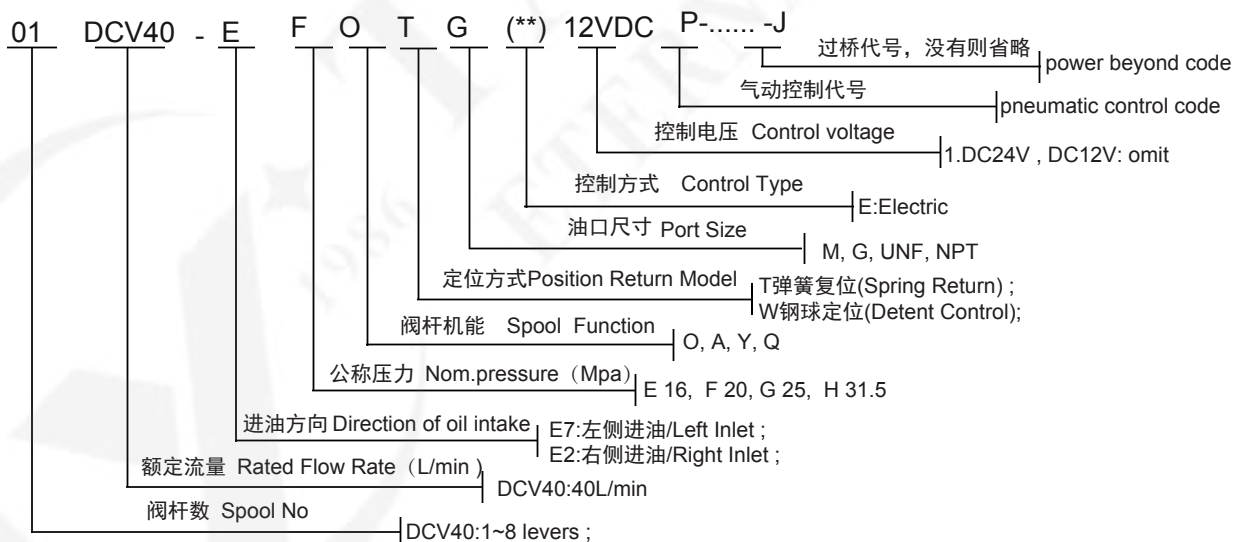
DCV40电气控系列多路阀是在DCV40气控系列的基础上改进而来。它主要是改变了气控换向阀的操纵机构，在气控的基础上增加了电气控制，并且可以根据客户需求，安装无线遥控，能够更好地实现远程控制。该阀广泛应用于工程机械、环卫机械、矿山机械和其他机械的液压系统。

产品特点/FEATURES

- ◆ 内置单向阀：阀体内置单向阀，防止油液倒流
- ◆ 内置安全阀：阀体内置溢流阀，可调节控制系统压力
- ◆ 油路形式：并联油路，带压力输出口
- ◆ 控制方式：气控换向，也可手动换向
- ◆ 阀体结构：整体结构，1-8联任意组合
- ◆ 阀杆机能：O、A、Y等
- ◆ Inner check valve: The check valve inside the valve body to insure the hydraulic oil not to be returned.
- ◆ Inner relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.
- ◆ Oil way: Parallel circuit, with power beyond.
- ◆ Control Way: electric and pneumatic control, manual control
- ◆ Valve construction: monoblock construction, 1-8 levers are available to be assembled as you requests.
- ◆ Spool Function: O,A,Y etc.



型号说明/MODEL CODE



技术参数/PARAMETERS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	最大流量 (L/min) Max. Flow rate	中位背压 (MPa) Back Pressure	工作油液hydraulic oil		
					温度范围 (℃) Tem.rang	粘度范围 (mm ² /S) Visc.rang	过滤精度 (μm) filtrating accuracy
20	31.5	40	50	≤1	-20 ~ +80	10 ~ 400	≤10

DCV40 Electric and Pneumatic Control Valve

DCV40外形安装连接尺寸/MODEL DCV40 DIMENSIONAL DATA



注：订货有特殊要求者，请与销售顾问联系。

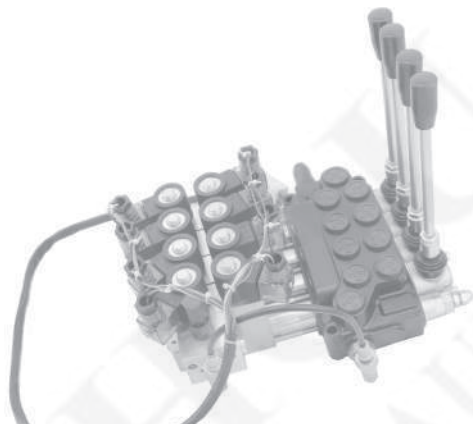
Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

DCV40电液控系列多路阀

DCV40 Electric and Hydraulic Control Valve

产品描述/SPECIFICATION

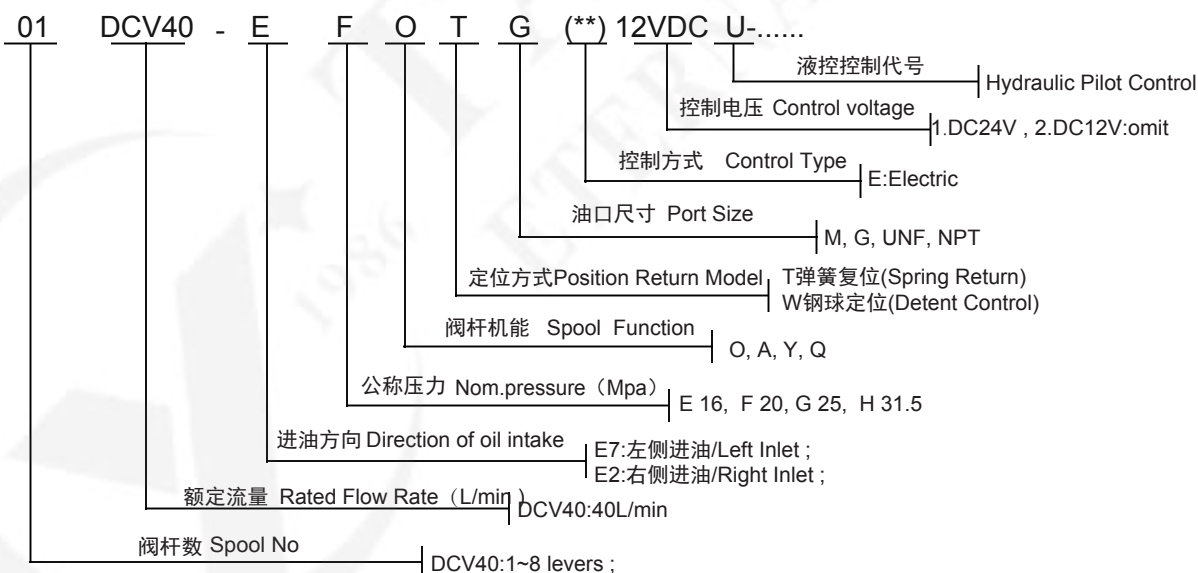
DCV40电液控系列多路阀是在DCV40电气控系列的基础上研发而来。它主要是在没有气源的情况下实现使用的电动控制，并且保留了原本的手动控制，从主油路上分流出的一组控制油路，通过电磁阀来控制多路阀的换向工作，并且可以根据客户需求，安装无线遥控，能够更好地实现远程控制。



产品特点/FEATURES

- ◆ 内置单向阀：阀体内置单向阀，防止油液倒流
- ◆ 内置安全阀：阀体内置溢流阀，可调节控制系统压力
- ◆ 油路形式：并联油路，带压力输出口
- ◆ 控制方式：气控换向，也可手动换向
- ◆ 阀体结构：整体结构，1-8联任意组合
- ◆ 阀杆机能：O、A、Y等
- ◆ Inner check valve: The check valve inside the valve body to insure the hydraulic oil not be to returned.
- ◆ Inner relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.
- ◆ Oil way: Parallel circuit, with power beyond.
- ◆ Control Way: electric and hydraulic control, manual control
- ◆ Valve construction: monoblock construction, 1-8 levers are available to be assembled as you requests.
- ◆ Spool Function: O,A,Y etc.

型号说明/MODEL CODE



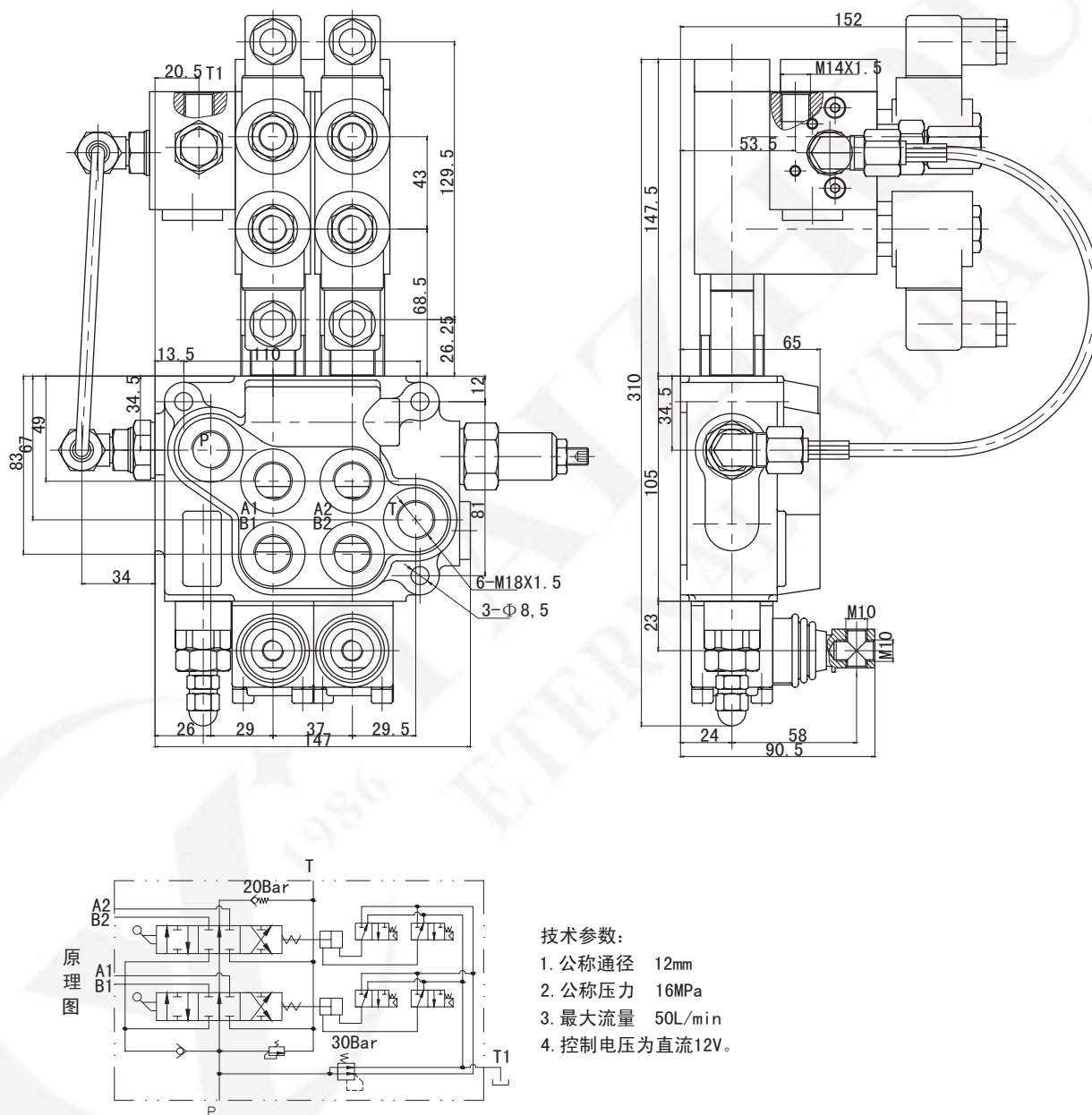
技术参数/PARAMETERS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	最大流量 (L/min) Max. Flow rate	中位背压 (MPa) Back Pressure	工作油液hydraulic oil		
					温度范围 (℃) Tem.rang	粘度范围 (mm ² /S) Visc.rang	过滤精度 (μm) filtrating accuracy
20	31.5	40	50	≤2	-20 ~ +80	10 ~ 400	≤10

DCV40电液控制系列多路阀

DCV40 Electric and Hydraulic Control Valve

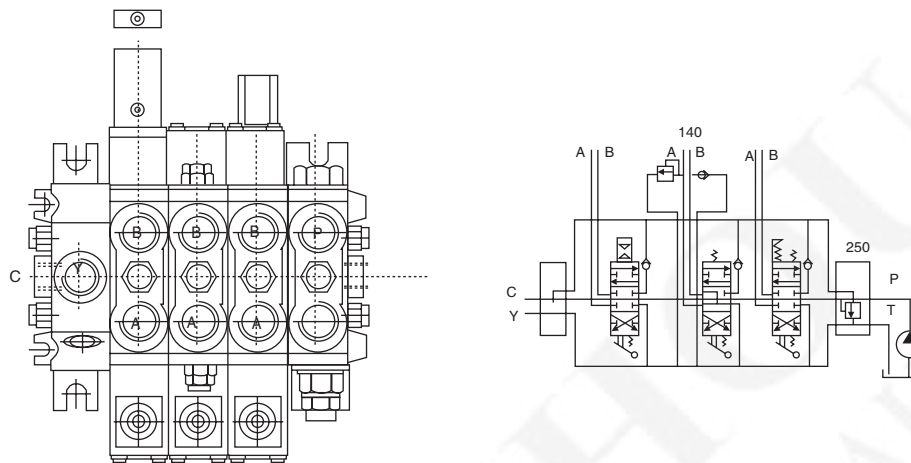
DCV40外形安装连接尺寸/MODEL DCV40 DIMENSIONAL DATA



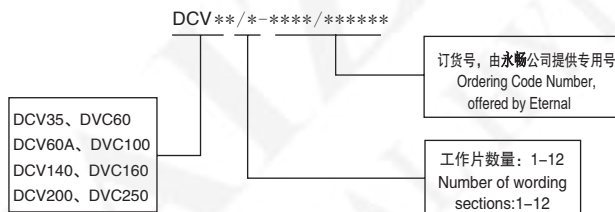
注：订货有特殊要求者，请与销售顾问联系。

Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

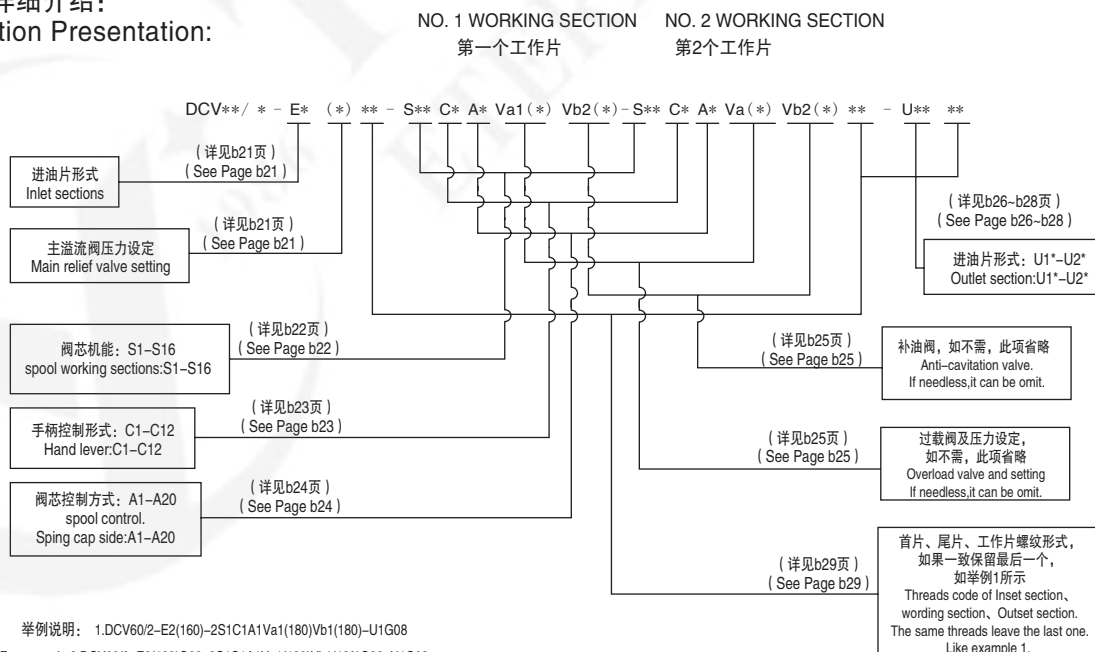
DCV分体式多路阀如何订货 HOW TO ORDER IN DVC SECTION VALVE



订货编号:
Order Code Number:



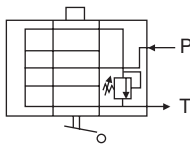
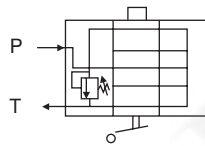
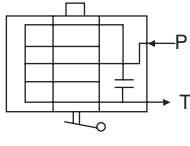
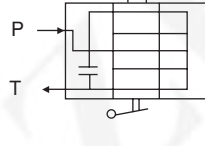
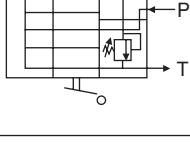
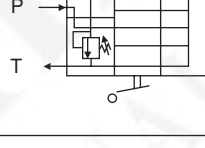
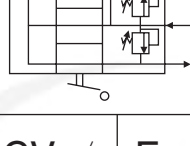
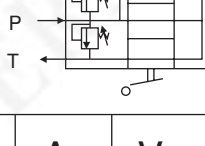
功能详细介绍:
Function Presentation:



DCV 分体式多路阀选型——进油片 THE CHOICES OF THE DCV SECTION VALVE--INLET SECTION

DCV*/*	E**	(*)	* *	S**	C*	A*	Va*	Vb*	* *	U**	* *
--------	-----	-----	-----	-----	----	----	-----	-----	-----	-----	-----

进油片 INLET SECTION

	右侧进油 (标准的) 进油口P在顶部 Right inlet section.(Standard) With top p port.	E2		左侧进油 (标准的) 进油口P在顶部 Left inlet section.(Standard) With top p port.	E7						
	右侧进油 进油口P在顶部不带主溢流阀 Right inlet section.(Standard) With top p port.Inlet section without main relief valve.	E23		左侧进油 进油口P在顶部不带主溢流阀 Left inlet section.(Standard) With top p port.Inlet section without main relief valve.	E73						
	右侧进油 进油口P在侧部 Right inlet section.(Standard) With side p port.	E24		左侧进油 进油口P在侧部 Left inlet section.(Standard) With side p port.	E74						
	右侧进油 带减压阀 进油口P在顶部 Right inlet section. With reduce valve	E25		左侧进油 带减压阀 进油口P在顶部 Left inlet section. With reduce valve	E75						
DCV*/*	E**	(*)	* *	S*	C*	A*	Va*	Vb*	* *	U*	* *

主溢流阀调节压力 (单位:Bar) MAIN RELIFE VALVE SETTING (Units:Bar)

型号示例:所选阀最大流量60L/Min,进油方式为标准的右侧进油,选择主溢流阀压力210Bar,则型号为DCV60/*-E7 (210)-……,如无特殊要求,请按照右表中出厂设定压力来选择所需压力。

ORDER CODE:DCV60/*-E7 (210) -……

- 1).DCV60:DCV60 series, MAX FLOW:60L/MIN
 - 2).E7:Inlet section(standard)
 - 3).210:Main relief valves setting pressure
- If you don't have any special requiriements, Choose setting pressure as we list in the table.

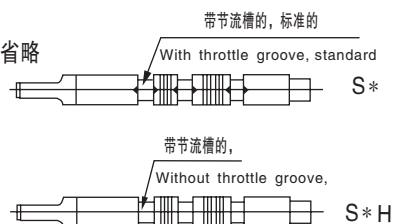
产品型号 Code	DCV60、100、140、160、200			
调压等级 Pressure Grade	A	B	C	D
调压范围 Pressure Range	30~180	100~240	125~265	175~320
出厂设定压力 Standard Setting Pressure	160	200	240	300

DCV 分体式多路阀选型——阀芯机能 THE CHOICES OF THE DCV SECTION VALVE--WORKINGSECTION SPOOLS

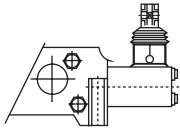
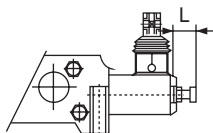
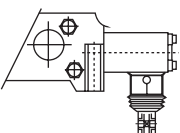
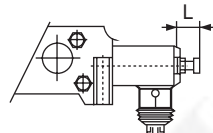
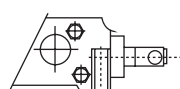
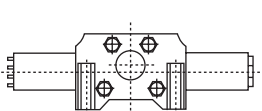
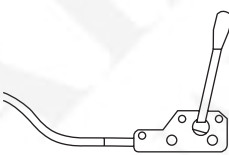
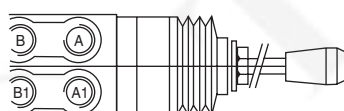
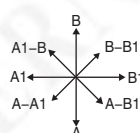
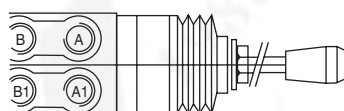
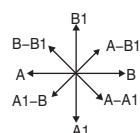
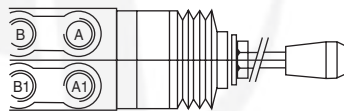
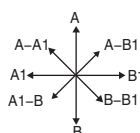
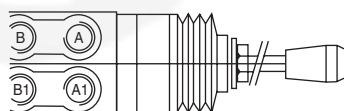
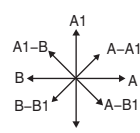
DCV*//*	E**	(*)	* *	S**	C*	A*	Va*	Vb*	* *	U**	* *
	三位, 双作用 3 positions, double-acting.			S1				三位, B口单作用B通T 3 positions, single-acting in position B. B open when spool in O.			S10
	三位, 双作用 中位时, A,B通T, O关闭 3 positions, double-acting, no passage of oil when spool in O. A and B open when spool in O.			S2				三位, 再生位 (非标) 3 positions, double-acting regenerallye(not slandard).			S11
	三位双作用冲位时无油 3 positions, double-acting, No passage of oil when spool in O.			S3				四位, 双作用.再生 (标准) 4 positions, double-acting with float position.			S12
	三位, 双作用.A,B通T. 3 positions, double-acting. A and B open when spool in O.			S4				三位, 串联回路 3 positions, series circuit double-acting.			S13
	三位, 双作用.P通O,A通T, B关闭 3 positions, double-acting.A open when spool in O,B blocked.			S5				三位, 串联, 阀芯中位时A口通T, B口锁闭 3 positions, series circuit double-acting.A open when spool in O,B blocked.			S14
	三位, 双作用.A关闭.B-T,P-O 3 positions, double-acting. A blocked and B open when spool in O.			S6				三位, 串联, 阀芯中位时A、B口通T, 3 positions, series circuit double-acting.A and B open when spool in O.			S15
	三位, A口单作用 3 positions, single-acting in position A.			S7				三位, 串联, 阀芯中位时B口通T, A口锁闭 3 positions, series circuit double-acting.B open when spool in O, A blocked.			S16
	三位, B口单作用 3 positions, single-acting in position B.			S8				三位, B口带安全控制阀 3 positions, port B with safety valve			S18
	三位, A口单作用A通T 3 positions, single-acting in position A. A open when spool in O.			S9							

S * H

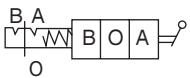
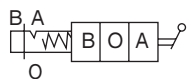
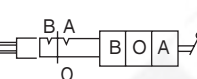
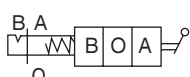
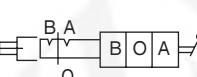
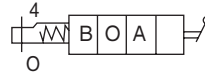
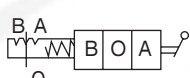
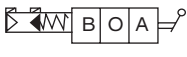
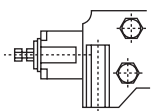
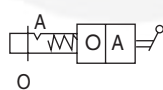
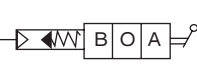
"H"代表阀芯不带节流槽, 为非标供货形式, 否则省略
Spools without throttle groove, write "H".this
one is nonstan dard,if not you should write
nothing here
阀芯机能, 见上表
Working section spools,see the table above



DCV 分体式多路阀选型——阀芯前端操纵选择
THE CHOICES OF THE DCV SECTION VALVE--SPOOL CONTROL HANDLE SIDE

DCV*//*	E**	(*)	* *	S**	C*	A*	Va*	Vb*	* *	U**	* *
		标准 Standard		C1				阀芯行程调节 Spool stroke adjustment. DCV35:L=26 DCV60:L=27 DCV100、140:L=31 DCV200:L=33		C5	
		手柄旋转180° 安装 Handle at 180°		C2				阀芯行程可调, 手柄旋转180° 安装 Spool stroke adjustment. Handle at 180° DCV35:L=26 DCV60:L=27 DCV100、140:L=31 DCV200:L=33		C6	
		无控制杆 Without handle.		C3				安全手柄锁在中位 Safety handle locked in neutral position. 安全手柄锁在A位 Safety handle locked in position A. 安全手柄锁在B位 Safety handle locked in position B. 安全手柄锁在A和B位 Safety handle locked in position A and B. 安全手柄锁在第四位 Safety handle locked in 4th position.		C7/a C7/b C7/c C7/d C7/e	
		液控 Hydraulic control		C4				软轴遥控 Flexible cable control-Contact our comm.dep.		C8	
								90° 操纵支点在下游片 Cloche control at 90° with fulcrum on the downstream section.		C9	
								90° 操纵支点在上游片 Cloche control at 90° with fulcrum on the upstream section.		C10	
								90° 操纵支点在下游片, 手柄旋转180° 安装 Cloche control at 90° with fulcrum on the downstream section.handle at 180°		C11	
								90° 操纵支点在上游片, 手柄旋转180° 安装 Cloche control at 90° with fulcrum on the upstream section.handle at 180°		C12	

DCV 分体式多路阀选型——阀芯后端控制选择
THE CHOICES OF THE DCV SECTION VALVE--SPOOL CONTROL SPRING CAP SIDE

DCV*//*	E**	(*)	**	S**	C*	A*	Va*	Vb*	**	U**	**
	三个位置, 弹簧对中 3 positions.spring centred spool.				A1		预留的, 双侧操纵, 外螺纹连接 Prearranged for double control.			A13	
	三个位置, 弹簧对中,AB定位 3 positions.spring centred spool.detent in A and B.				A2		预留的, 双侧操纵, 内螺纹连接 Prearranged for double control.			A13N	
	三个位置, 弹簧对中,A定位 3 positions.spring centred spool.detent in A.				A3		三个位置, A,B,O定位.无弹簧复位。 带外螺纹连接双侧操纵。 3 positions.detent in A,B and O.Prearranged for double control.Without spring centred			A713	
	三个位置, 弹簧对中,B定位 3 positions.spring centred spool.detent in B.				A4		三个位置, A,B,O定位.无弹簧复位。 带内螺纹连接双侧操纵。 3 positions.detent in A,B and O.Prearranged for double control.Without spring centred			A713N	
	四个位置, 弹簧对中, 第四个位置定位 4 positions.spring centred spool.detent in 4th position.				A5		气缸控制 ON-OFF pneumatic control.			A14	
	四个位置, 弹簧对中, 第四位置浮动 4 positions.spring centred spool.sensitive 4th position without detent.				A6		12V 电液控 Electrohydraulic control ON-OFF.Voltage 12 Volt c.c			A15	
	三个位置, 弹簧对中,A,B,O定位 3 positions.spring centred spool.detent in A,Band O.				A7		24 V 电液控 Electrohydraulic control ON-OFF.Voltage 24 Volt c.c			A16	
	三个位置, A,B,O定位,无弹簧复位 3 positions.detent in A,B and O.Without spring centred				A7		12V 电气控制 ON-OFF eletropneumatic, 12 Volt.			A171	
	两个位置 (O和B), 弹簧复位 2 positions (O and B) ,spring centred spool.				A8		24 V 电气控制 ON-OFF eletropneumatic, 24 Volt.			A172	
	两个位置 (O和A), 弹簧复位 2 positions (O and A) ,spring centred spool.				A9		三个位置, 弹簧对中,带各种微动开关 3 positions.spring centredspool. Several micros with applications are available.			A18	
	二个位置 (O和B), 弹簧复位, B定位 2 positions (O and B) ,spring centred spool, detent in B.				A10		阀芯行程可调 Spool stroke adjustment.			A20	
	二个位置, 弹簧对中,A定位 2 positions (O and A) ,spring centred spool,detent in A.				A11		油缸控制 ON-OFF hydraulic control.			A24	

DCV 分体式多路阀选型——油口选择阀 THE CHOICES OF THE DCV SECTION VALVE

DCV*/*	E**	(*)	**	S**	C*	A*	Va*	Vb*	**	U**	**
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油口选择阀 SERVICE PORT VALVES

	过载阀用于A口 Overload valve in position A	Va1		过载阀用于B口 Overload valve in position B	Vb1
	补油阀用于A口 Anti-cavitation valve in position A	Va2		补油阀用于B口 Anti-cavitation valve in position B	Vb2
	复合阀用于A口口 Combined valve in position A	Va3		复合阀用于B口口 Combined valve in position B	Vb3

过载阀调节压力 (单位:Bar) MAIN OVERLOAD VALVE(Units:Bar)

型号示例:所选阀最大流量60L/Min,阀中第一联工作片的A、B油口均安装过载阀,压力均为180Bar,则型号为DCV60/*-E*(*)-S*C*A*Va1 (180) Vb1 (180).....如无特殊要求,请按照下表中出厂设定压力来选择所需压力。

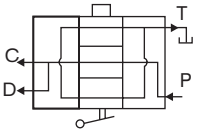
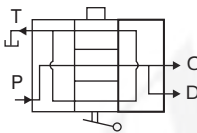
ORDER CODE:DCV60/*-E*(*)-S*C*A*Va1
(180) Vb1 (180)
1). DCV60:DCV60 series,MAX FLOW: 60L/MIN
2). Double 180:Overload valve in position A&B
Both of the pressure are 180 Bar
If you don't have any special requiriments,
Choose setting pressure as we list in the table.

产品型号 Code	DCV60、100、140、160				DCV200			
调压等级 Pressure Grade	A	B	C	D	A	B	C	D
调压范围 Pressure Range	30~100	80~160	140~220	200~300	30~100	90~150	140~220	200~300
出厂设定压力 Standard Pressure	80	140	200	280	60	120	200	250

DCV 分体式多路阀选型——出油口形式 THE CHOICES OF THE DCV SECTION VALVE——OUTLET SECTION

DCV*/*	E**	(*)	* *	S**	C*	A*	Va*	Vb*	* *	U**	* *
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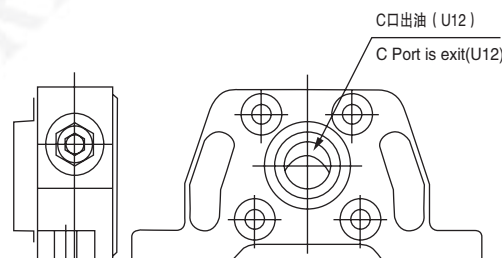
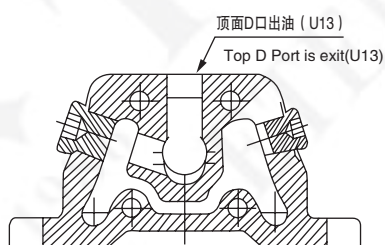
DCV35/60/60A/100出油片OUTLET SECTION

	出油片在左侧,T口(在首片顶部)为出油口 Left outlet section,T is the exit port, on top of inset section		出油片在右侧,T口(在首片顶部)为出油口 Right outlet section,T is the exit port, on top of inset section	U1	D口没有, C口堵塞
	出油片在左侧,C口(在尾片侧面)为出油口 Left outlet section,C is the exit port, and on side of outset section		出油片在右侧,C口(在尾片侧面)为出油口 Right outlet section,C is the exit port, and on side of outset section	U12	T口没有, D口堵塞
	出油片在左侧,D口(在尾片顶部)为出油口 Left outlet section,D is the exit port, and on top of outset section		出油片在右侧,D口(在尾片顶部)为出油口 Right outlet section,D is the exit port, and on top of outset section	U13	T、C口堵塞
	出油片在左侧,两个出油口, T口和C口 Left outlet section,with two exit port T&C		出油片在右侧,两个出油口, T口和C口 Right outlet section,with two exit port T&C	U2	C口过桥, D口没有
	出油片在左侧,两个出油口, T口和D口 Left outlet section,with two exit port T&D		出油片在右侧,两个出油口, T口和D口 Right outlet section,with two exit port T&D	U23	D口过桥, C口堵塞

U1*尾片内部结构(下图按三视图关系放置)
尾片为U1*形式时,过桥口内部堵头不装,
此时T口、C口、D口相连通,
可使用其中任一出口。

U1 outlet section material structure:
The small port inside beyond port without plug, T port, C port and D port are connected, oil can flow out in any one of them.

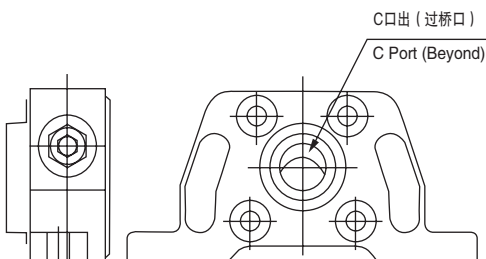
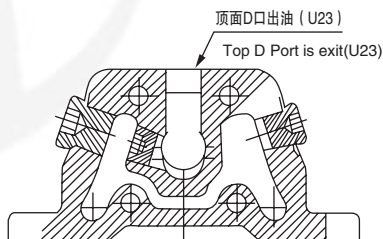
DCV35/60没有D口
DCV35/60 no port D



U2*尾片内部结构(下图按三视图关系放置)
尾片为U2*形式时,过桥口内部装堵头,
此时两个回油T口和C口 (D口) 不通,
此时T口回油用, C口或D口供另外油路使用。

U2outlet section material structure:
The small port inside beyond port without plug, T port and C port (D port) are not connected, T port is used for oil return. C port(D port) is used for another oil-way.

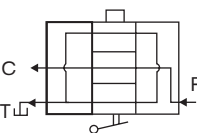
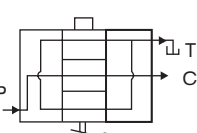
DCV35/60没有D口
DCV35/60 no port D



DCV 分体式多路阀选型——出油口形式 THE CHOICES OF THE DCV SECTION VALVE——OUTLET SECTION

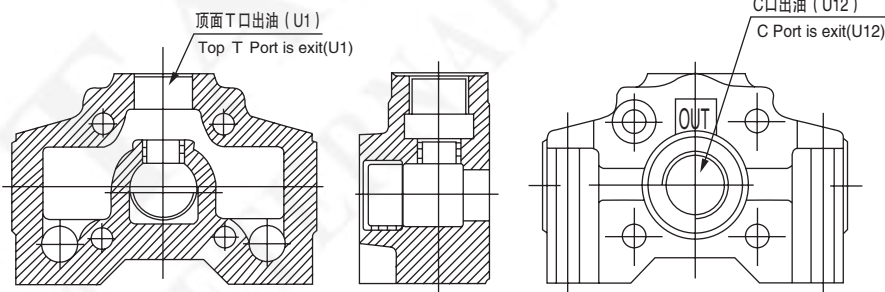
DCV*//*	E**	(*)	* *	S**	C*	A*	Va*	Vb*	* *	U**	* *
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DCV140/200 出油片 OUTLET SECTION

	出油片在左侧,T口(在尾片顶部)为出油口 Left outlet section,T is the exit port, on top of onset section		出油片在右侧,T口(在尾片顶部)为出油口 Right outlet section,T is the exit port, on top of onset section	U1	D口没有, C口堵塞
	出油片在左侧,C口(在尾片侧面)为出油口 Left outlet section,C is the exit port, and on side of outset section		出油片在右侧,C口(在尾片侧面)为出油口 Right outlet section,C is the exit port, and on side of outset section	U12	T口没有, D口堵塞
	出油片在左侧,两个出油口, T口和C口 Left outlet section,with two exit port T&C		出油片在右侧,两个出油口, T口和C口 Right outlet section,with two exit port T&C	U2	T、C口堵塞

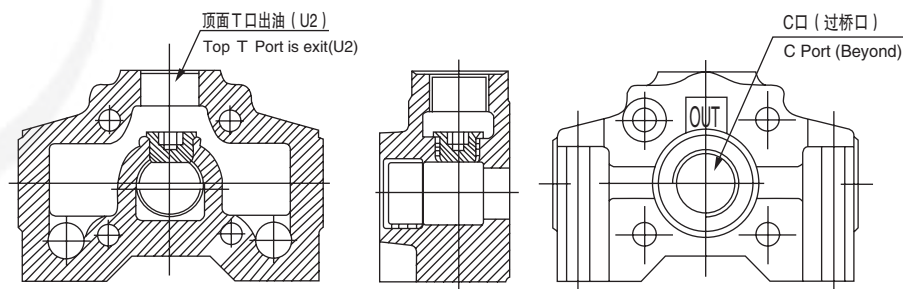
U1*尾片内部结构(下图按三视图关系放置)
尾片为U1*形式时,过桥口内部堵头不装,
此时T口、C口、D口相连通,
可使用其中任一出油口。

U1 outlet section material structure:
The small port inside beyond port without plug, T port、C port and D port are connected,oil can flow out in anyone of them.



U2*尾片内部结构(下图按三视图关系放置)
尾片为U2*形式时,过桥口内部装堵头,
此时两个回油T口和C口 (D口) 不通,
此时T口回油用, C口或D口供另外油路使用。

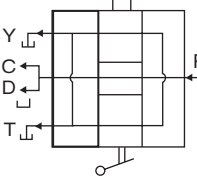
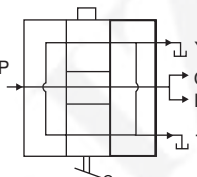
U2outlet section material structure:
The small port inside beyond port without plug, T port and C port (D port) are not connected,T port is used for oil return.C port(D port)is used for another oil-way.



DCV 分体式多路阀选型——出油口形式 THE CHOICES OF THE DCV SECTION VALVE——OUTLET SECTION

DCV*/*	E**	(*)	**	S**	C*	A*	Va*	Vb*	**	U**	**
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DCV160/250 出油片 OUTLET SECTION

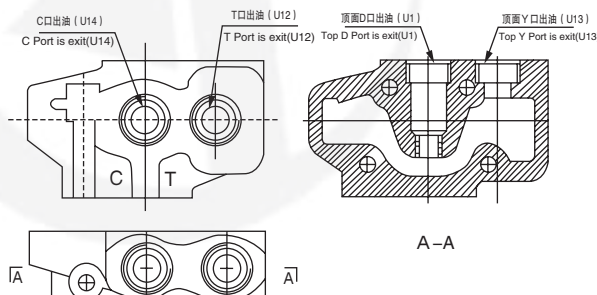
	出油片在左侧,T口(在尾片顶部)为出油口 Left outlet section,T is the exit port, on top of onset section		出油片在右侧,T口(在尾片顶部)为出油口 Right outlet section,T is the exit port, on top of onset section	U1	C口、D口堵塞 Y口没有
	出油片在左侧,C口(在尾片顶部)为出油口 Left outlet section,C is the exit port, on top of onset section		出油片在右侧,C口(在尾片顶部)为出油口 Right outlet section,C is the exit port, on top of onset section	U12	T口、D口堵塞 Y口没有
	出油片在左侧,D口(在尾片顶部)为出油口 Left outlet section,D is the exit port, on top of onset section		出油片在右侧,D口(在尾片顶部)为出油口 Right outlet section,D is the exit port, on top of onset section	U13	C口、T口堵塞 Y口没有
	出油片在左侧,Y口(在尾片顶部)为出油口 Left outlet section,Y is the exit port, on top of onset section		出油片在右侧,Y口(在尾片顶部)为出油口 Right outlet section,Y is the exit port, on top of onset section	U14	C口、D口堵塞 Y口没有
	出油片在左侧,两个出油口, C口和T口 Left outlet section,with two exit port C&T		出油片在右侧,两个出油口, C口和T口 Right outlet section,with two exit port C&T	U2	C口过桥 Y口、D口堵塞
	出油片在左侧,两个出油口, C口和Y口 Left outlet section,with two exit port C&Y		出油片在右侧,两个出油口, C口和Y口 Right outlet section,with two exit port C&Y	U22	C口过桥 D口、T口堵塞
	出油片在左侧,两个出油口, D口和T口 Left outlet section,with two exit port D&T		出油片在右侧,两个出油口, D口和T口 Right outlet section,with two exit port D&T	U23	D口过桥 C口、Y口堵塞
	出油片在左侧,两个出油口, D口和Y口 Left outlet section,with two exit port D&Y		出油片在右侧,两个出油口, D口和Y口 Right outlet section,with two exit port D&Y	U24	D口过桥 C口、T口堵塞

U1*尾片内部结构(下图按三视图关系放置)

尾片为U1*形式时,过桥口内部堵头不装,此时T口、C口、D口、Y口相连通,可使用其中任一出口。

U1 outlet section material structure:

The small port inside beyond port without plug,T port、C Port Dport and Yport are connected,oil can flow out in anyone of them.

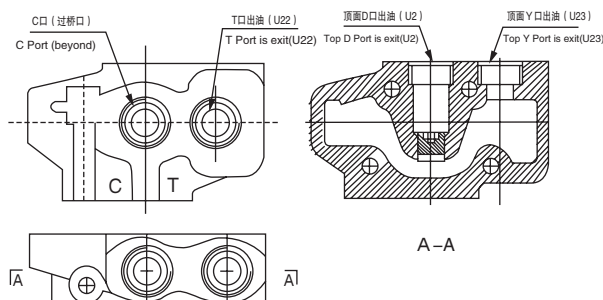


U2*尾片内部结构(下图按三视图关系放置)

尾片为U2*形式时,过桥口内部装堵头,此时回油T口(或Y口)和C口(或D口)不通,此时T口、Y口中任意一个口回油用,C口或D口中任一供另外油路使用。

U2 outlet section material structure:

The small port inside beyond port without plug,T port (or Y port) and C port (D port) are not connected,T or Yport is used for oil return.C or D port(D port)is used for another oil-way.



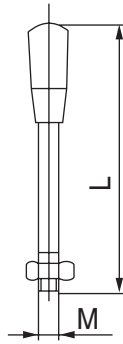
DCV 分体式多路阀选型——油口尺寸 THE CHOICES OF THE DCV SECTION VALVE——SIZE OF THE PORTS

DCV*//*	E**	(*)	* *	S**	C*	A*	Va*	Vb*	* *	U**	* *
产品型号 Code	DCV35										
标准油口尺寸 Standard ports Sizes	G3/8										
油口尺寸 Ports Sizes	G1/4	G3/8	M16x 1.5	NPT1/4	NPT3/8	1/2-20UNF	5/8-18UNF				
油口代号 Ports Codename	G04	G06	M16	N04	N06	N08	U10				
产品型号 Code	DCV60										
标准油口尺寸 Standard ports Sizes	G1/2										
油口尺寸 Ports Sizes	G3/8	G1/2	M20x 1.5	NPT3/8	NPT1/2	5/8-18UNF	3/4-18UNF				
油口代号 Ports Codename	G06	G08	M20	N06	N08	N10	U12				
产品型号 Code	DCV100										
标准油口尺寸 Standard ports Sizes	G3/4										
油口尺寸 Ports Sizes	G1/2	G3/4	M27x 2	NPT1/2	NPT3/4	3/4-16UNF	1-12UNF				
油口代号 Ports Codename	G08	G12	M27	N08	N12	N12	U16				
产品型号 Code	DCV140										
标准油口尺寸 Standard ports Sizes	G3/4										
油口尺寸 Ports Sizes	G3/4	G1	M33x 2	NPT3/4	NPT1	1-12UNF	11/8-12UNF				
油口代号 Ports Codename	G12	G16	M33	N12	N16	N16	U22				
产品型号 Code	DCV160首片		DCV160工作片					DCV160尾片			
标准油口尺寸 Standard ports Sizes	G1		G3/4					G1			
油口尺寸 Ports Sizes	G3/4	G1	M33x 2	NPT3/4	NPT1	1-12UNF	11/8-12UNF				
油口代号 Ports Codename	G12	G16	M33	N12	N16	N16	U22				
产品型号 Code	DCV200										
标准油口尺寸 Standard ports Sizes	G1										
油口尺寸 Ports Sizes	G3/4	G1	M33x 2	NPT3/4	NPT1	1-12UNF	11/8-12UNF				
油口代号 Ports Codename	G12	G16	M33	N12	N16	N16	U22				
产品型号 Code	DCV250										
标准油口尺寸 Standard ports Sizes	G1										
油口尺寸 Ports Sizes	G3/4	G1	M33x 2	NPT3/4	NPT1	1-12UNF	11/8-12UNF				
油口代号 Ports Codename	G12	G16	M33	N12	N16	N16	U22				

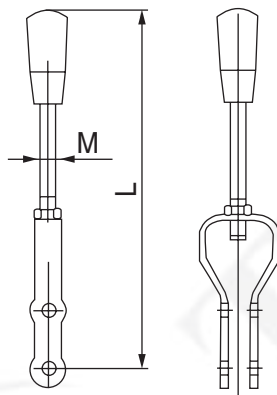
注：阴影部分为标准油口代码，其他为非标油口。

Nates:The shaded areas in the table is standard sizes, the others is nonstandard.

DCV 分体式多路阀手柄尺寸 SIZE OF THE HANDLE IN THE DCV SECTION VALVE



	M	L
DCV35	M8	170
DCV60	M10	210
DCV100	M10	210
DCV140	M10	210
DCV200	M12	260



	M	L
DCV160	M10	222
DCV250	M12	230

材料说明:

- 1.手柄材料为尼龙;
- 2.手柄杆为45#钢, 表面防锈处理, 特殊的尺寸或形式可定制。

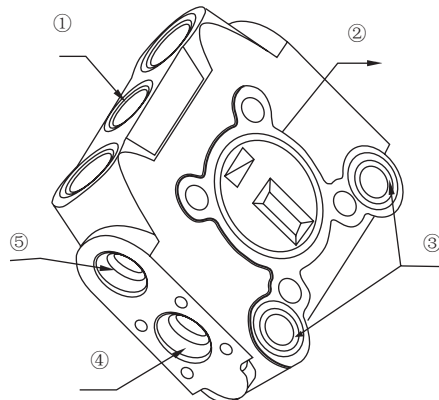
MATERIAL:

1. Handle:Nylon.
2. Handle lever:Steel(45#) , it has been treated against rust.
We can produce exceptional size according to customers ' requirements.

DCV 分体式多路阀 密封件 SEALS COMPONENT FOR DCV SECTION VALVE

维修密封件信息

Information maintain seals



标*处密封件:

Sign " * " seals:

**** / ****

表示新结构密封件尺寸

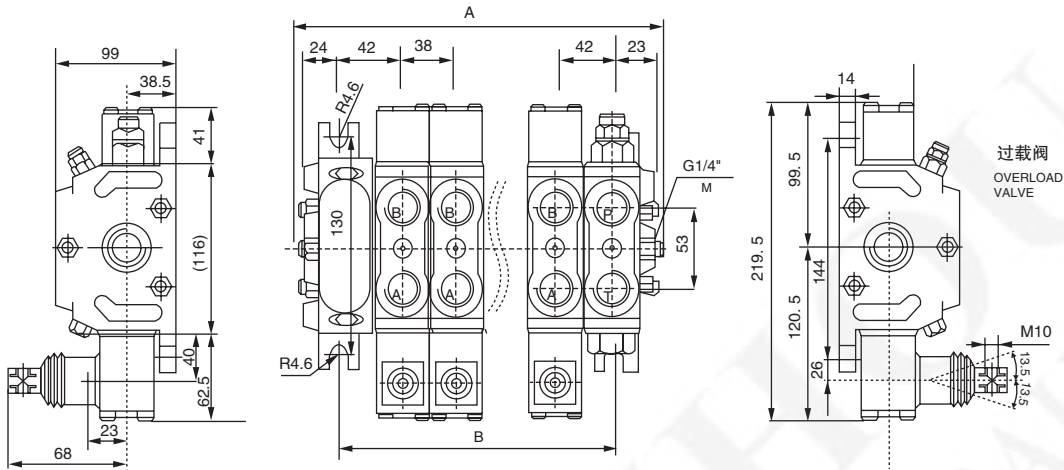
Size of seals in new structure

表示旧结构密封件尺寸

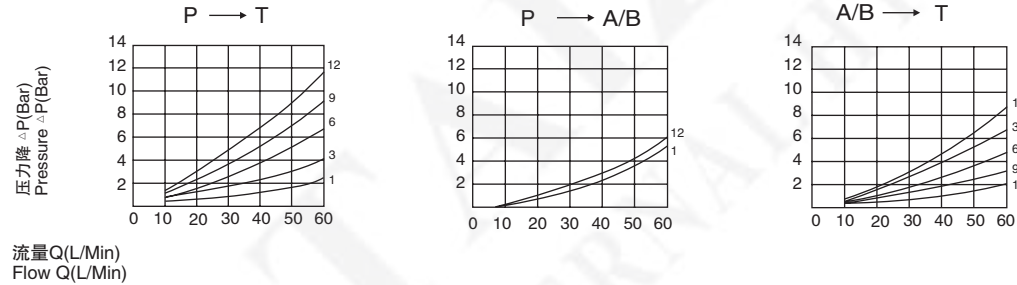
Size of seals in old structure

型号 Type Of Valve	①		②	③
	O形圈或ED圈 * O-Ring or Captive	密封挡圈 Back-Up Rings	O形圈或方形圈 * O-Ring or Square-Ring	O形圈 O-Ring
DCV 35	9. 19 × 2. 62 (1pcs) / —	—	—/—	—
DCV 60	12. 7 × 2. 62 (1pcs) / —	13. 08 × 2. 18 × 1. 35 (1pcs)	45. 69 × 2. 62 (1pcs) / 36. 17 × 2. 62	17. 13 × 2. 62 (2pcs)
DCV 100	19. 3 × 2. 2 (1pcs) / 19. 6 × 24. 3 × 1. 5 (1pcs)	—	48. 9 × 2. 62 (1pcs) / 44. 12 × 2. 62	18. 72 × 2. 62 (2pcs)
DCV 140	19. 3 × 2. 2 (1pcs) / 19. 6 × 24. 3 × 1. 5 (1pcs)	—	53. 65 × 2. 62 (1pcs) / —	21. 89 × 2. 62 (2pcs)
DCV 160	23. 47 × 2. 62 (1pcs) / —	—	33 × 2. 62 (3pcs) 39. 34 × 2. 62 (1pcs) / —	—
DCV 200	23. 47 × 2. 62 (1pcs) / 23. 9 × 29. 2 × 1. 5 (1pcs)	—	58. 42 × 2. 62 (1pcs) / 48. 9 × 2. 62	21. 89 × 2. 62 (2pcs)
DCV 250	23. 47 × 2. 62 (1pcs) / —	—	39. 34 × 2. 62 (3pcs) 45. 69 × 2. 62 (1pcs) / —	—
型号 Type Of Valve	④	⑤		
	O形圈 O-Ring	O形圈或ED圈 * O-Ring or Captive	O形圈 O-Ring	密封挡圈 Back-Up Rings
DCV 35	11. 7 × 2. 62 (2pcs)	— / 15. 7 × 20. 9 × 1. 5 (2pcs)	11. 8 × 1. 8 (2pcs) 10. 82 × 1. 78 (2pcs)	—
DCV 60	17. 13 × 2. 62 (2pcs)	17. 8 × 1. 9 (2pcs) / 17. 8 × 22. 9 × 1. 5 (2pcs)	14. 8 × 1. 9 (2pcs) 14 × 1. 78 (2pcs)	14. 4 × 1. 3 × 1. 24 (2pcs)
DCV 100	18. 72 × 2. 62 (2pcs)	19. 8 × 1. 9 (2pcs) / 19. 6 × 24. 3 × 1. 5 (2pcs)	16 × 1. 8 (2pcs) 13. 95 × 2. 62 (2pcs)	14. 66 × 2. 18 × 1. 35 (2pcs)
DCV 140	18. 72 × 2. 62 (2pcs)	23. 47 × 2. 62 (2pcs) / 23. 9 × 22. 9 × 1. 5 (2pcs)	16 × 1. 8 (2pcs) 17. 13 × 2. 62 (2pcs)	17. 6 × 2. 18 × 1. 35 (2pcs)
DCV 160	18. 72 × 2. 62 (2pcs)	23. 47 × 2. 62 (2pcs) / 23. 9 × 22. 9 × 1. 5 (2pcs)	16 × 1. 8 (2pcs) 17. 13 × 2. 62 (2pcs)	17. 6 × 2. 18 × 1. 35 (2pcs)
DCV 200	21. 89 × 2. 62 (2pcs)	23. 47 × 2. 62 (2pcs) / 23. 9 × 22. 9 × 1. 5 (2pcs)	19. 8 × 1. 9 (2pcs) 17. 13 × 2. 62 (2pcs)	17. 6 × 2. 18 × 1. 35 (2pcs)
DCV 250	21. 89 × 2. 62 (2pcs)	23. 47 × 2. 62 (2pcs) / 23. 9 × 22. 9 × 1. 5 (2pcs)	19. 8 × 1. 9 (2pcs) 17. 13 × 2. 62 (2pcs)	17. 6 × 2. 18 × 1. 35 (2pcs)

DCV60系列多路阀
SECTION VALVE DCV60

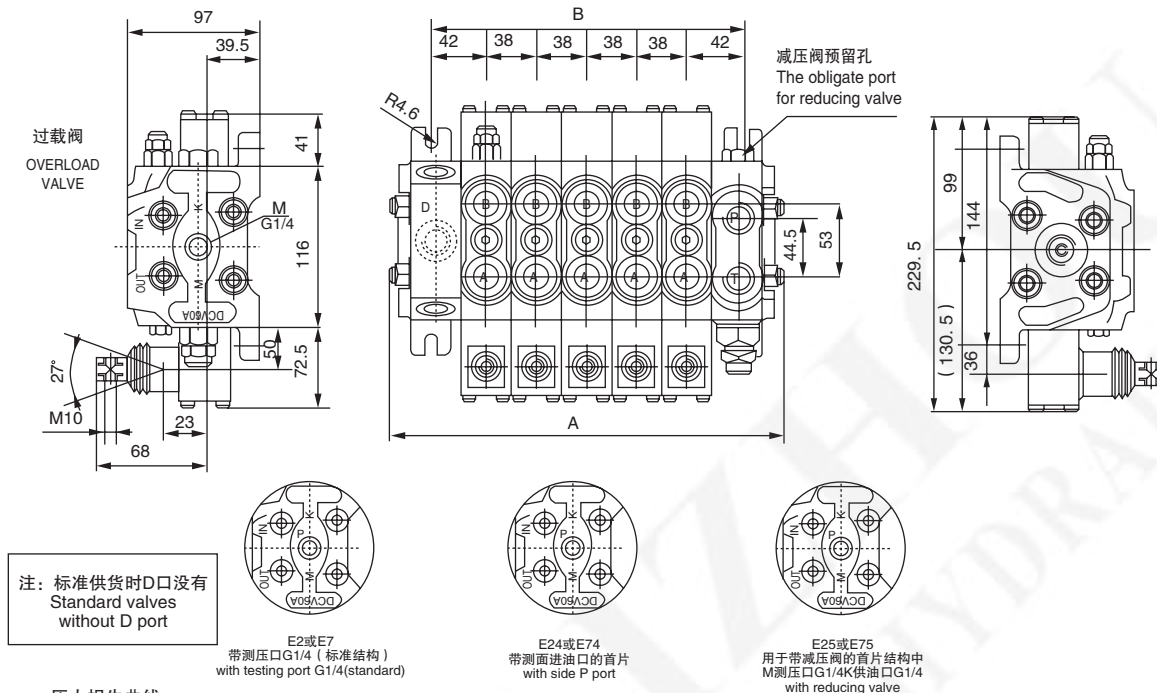


压力损失曲线
Pressure Drop Flow Curves

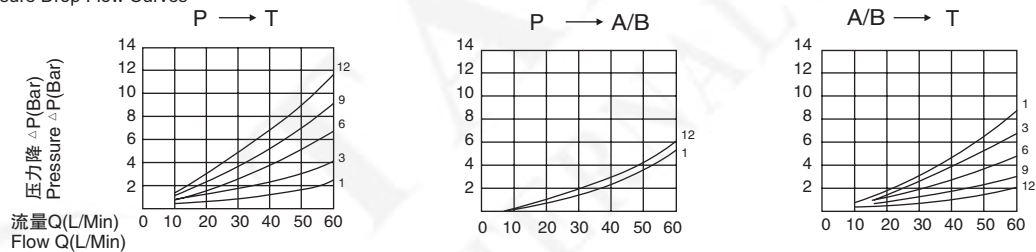


阀型号 TYPE OF VALVE		尺寸 DIMENSIONS			
		A	B	标准重量(公斤) WEIGHT(Kg)	
DCV 60/1		121	70	4.7	
DCV 60/2		153	102	6.4	
DCV 60/3		185	134	8.1	
DCV 60/4		217	166	9.8	
DCV 60/5		249	198	11.5	
DCV 60/6		281	230	13.2	
DCV 60/7		313	262	14.9	
DCV 60/8		345	294	16.6	
DCV 60/9		377	326	18.3	
DCV 60/10		409	358	20	
DCV 60/11		441	390	21.7	
DCV 60/12		473	422	23.4	
额定流量: 50升/分钟 Nominal Flow:50L/Min	最大流量: 60升/分钟 Max.Flow:60L/Min	最大压力: 315Bar Max.Working Pressure: 315Bar	标准螺纹: G1/2" Threads(standard):G1/2"	拉杆拧紧力矩: 55±3N.m Tie-rod tightening torque:55±3N.m	阀芯行程: +5--5 Spool stroke: +5--5

DCV60系列多路阀 SECTION VALVE DCV60



压力损失曲线
Pressure Drop Flow Curves



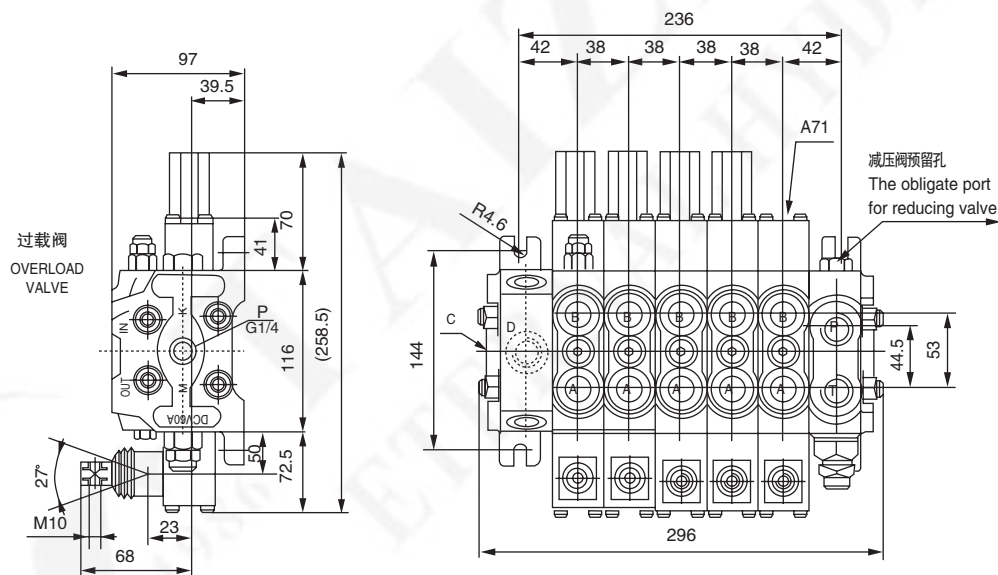
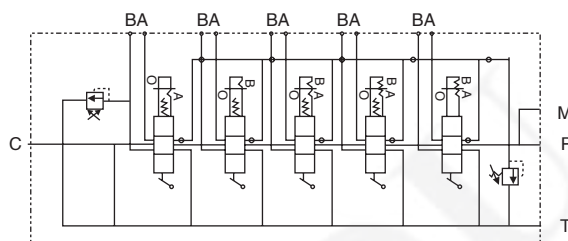
阀型号 TYPE OF VALVE	尺寸 DIMENSIONS		
	A	B	标准重量(公斤) WEIGHT (Kg)
DCV60/1	144	84	7.5
DCV60/2	182	122	10.1
DCV60/3	220	160	12.7
DCV60/4	258	198	15.3
DCV60/5	296	236	17.9
DCV60/6	334	274	20.5
DCV60/7	370	312	23.1
DCV60/8	410	350	25.7
DCV60/9	450	388	28.3
DCV60/10	486	426	30.9
DCV60/11	524	464	33.5
DCV60/12	562	502	36.1

额定流量: 50升/分钟 Nominal Flow: 50L/Min	最大流量: 60升/分钟 Max. Flow: 60L/Min	最大压力: 315Bar Max. Working Pressure: 315Bar	标准螺纹: G1/2" Threads (standard): G1/2"	拉杆拧紧力矩: 55 ± 3N.m Tie-rod tightening torque: 55 ± 3N.m	阀芯行程: + 5 ~ - 5 Spool stroke: + 5 ~ - 5
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DCV60系列多路阀（定位控制） SECTION VALVE DCV60(DETENT)

定位结构分为带弹簧复位和不带弹簧复位两种。带弹簧复位结构分别有一个槽A定位、一槽B定位、二槽定位、三槽定位等多种，可以使阀体分别定在A位、B位、AB位、AOB位。不带弹簧复位结构仅提供AOB定位机能。可根据客户要求定制。机能控制代号见A71页。

The detent structures include two forms: spring centred spool & without spring centred spool. Spring centred spool have those several structures: detent in A, detent in B, detent in A and B, detent in A, B and O. Without spring centred spool only have one structure: detent in A, B and O. We can made the products in accordance with particular instructions or requirements of the customers. The code of detent see page A71.



注：标准供货时D口没有
Standard valves
without D port

额定流量：50升/分钟 Nominal Flow: 50L/Min	最大流量：60升/分钟 Max. Flow: 60L/Min	最大压力：315Bar Max. Working Pressure: 315Bar	标准螺纹：G1/2" Threads (standard): G1/2"	拉杆拧紧力矩：55 ± 3N.m Tie-rod tightening torque: 55 ± 3N.m	阀芯行程：+5~-5 Spool stroke: +5~-5
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DCV60系列多路阀 SECTION VALVE DCV60

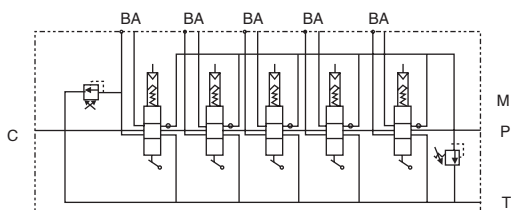
气缸控制多路换向阀，控制压力5~10bar,油缸控制
多路换向阀，控制压力10~13bar

ON-OFF pneumatic control, Pilot pressure 5 ~10bar

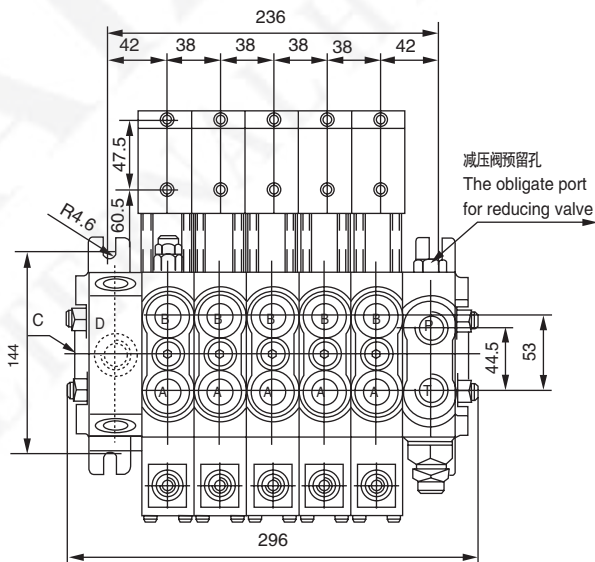
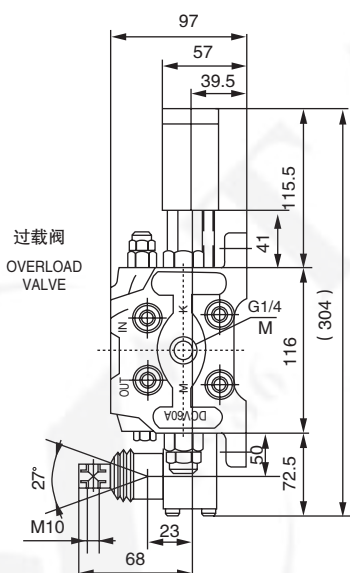
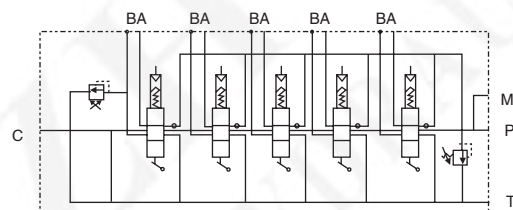
ON-OFF hydraulic control, Pilot pressure 10 ~13bar

控制方式 Control Mode	控制口尺寸 Control port Size	控制机能代号 Order Code
气缸控制 Pneumatic control	G1/8	A14
油缸控制 Hydraulic control	G1/4	A24

气缸控制
Pneumatic control



油缸控制
Hydraulic control



注：标准供货时D口没有
Standard valves
without D port

额定流量：50升/分钟 Nominal Flow: 50L/Min	最大流量：60升/分钟 Max. Flow: 60L/Min	最大压力：315Bar Max. Working Pressure: 315Bar	标准螺纹：G1/2" Threads (standard): G1/2"	拉杆拧紧力矩：55 ± 3N.m Tie-rod tightening torque: 55 ± 3N.m	阀芯行程：+5~-5 Spool stroke: +5~-5
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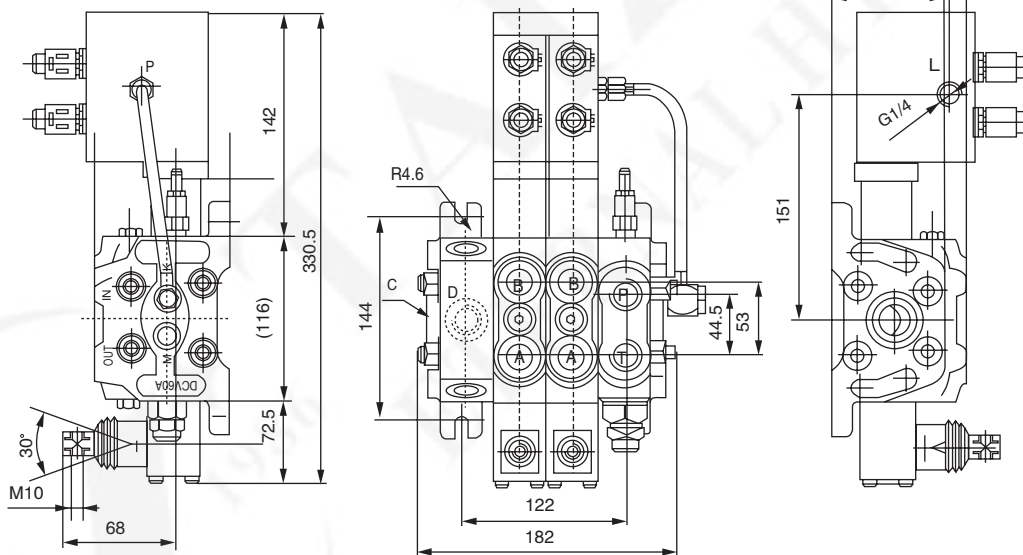
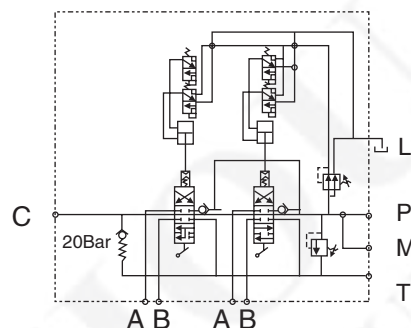
DCV60系列多路阀（电液控换向阀） SECTION VALVE DCV60(ELECTROHYDRAULIC CONTROL)

此电液/手动控制应用有许多变化组合,本样本仅举一例,更多具体应用要求,我们可根据客户要求定制,例如右侧进油,12V或24V等要求。

使用电液控时需提供实际使用工况,使用压力、使用流量等参数。产品出厂前根据用户工况调试好。建议选用产品前咨询我们销售或技术部门。机能控制代号: A15、A16。

The application of electrohydraulic control and handle control have a lot of combination. In the catalogue, we give you only one example of them. We can made the products in accordance with particular instructions or requirements of the customers. For example: right inlet section. 12V or 24V. etc.

You should present the status pressure and flow before the order. For us to debug the valves before the consignment. We suggest that when you choose the valve please refer to our sellor or technical adviser. The code is A15 or A16.



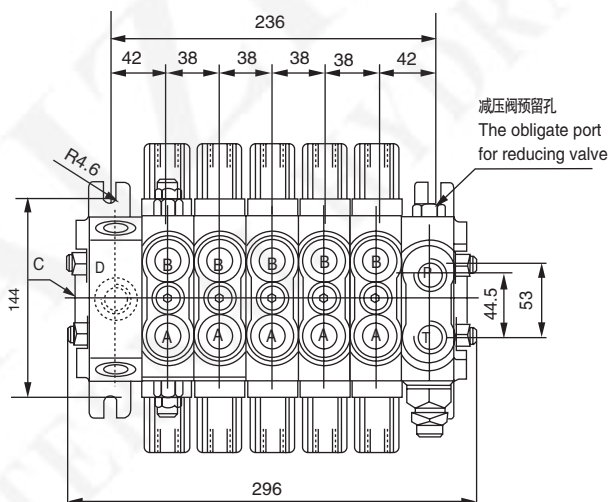
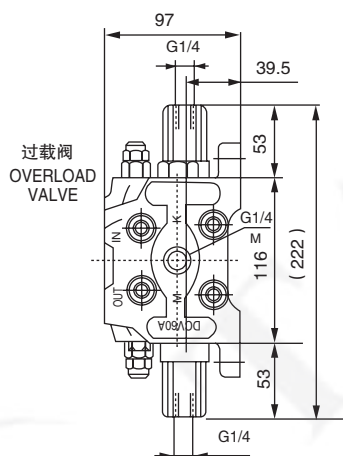
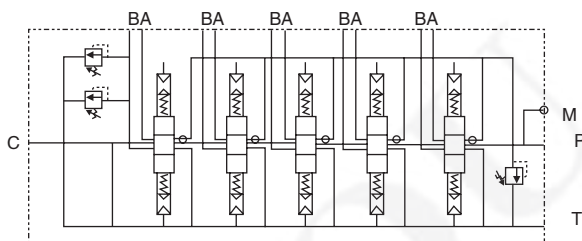
- 注:1.此型号电液控产品首片形式为E25或E75
2.标准供货时D口没有。
1.The form of inlet section is E25 or E75
2.Standard valves without D port.

额定流量: 50升/分钟 Nominal Flow: 50L/Min	最大流量: 60升/分钟 Max. Flow: 60L/Min	最大压力: 315Bar Max. Working Pressure: 315Bar	标准螺纹: G1/2" Threads (standard): G1/2"	拉杆拧紧力矩: 55 ± 3N.m Tie-rod tightening torque: 55 ± 3N.m	阀芯行程: +5~-5 Spool stroke: +5~-5
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DCV60系列多路阀（液控） SECTION VALVE DCV60(HYDRAULIC CONTROL)

订货时请告知配套先导阀参数。标准产品设计满足5~30bar的先导控制压力范围。特殊要求请咨询我们技术部门。机能操纵代号:C4

Please tell us the data of the hydraulic remote control when you order it. The normal pilot pressure is 5~30 bar. When you have special requirement please tell our technical adviser. The code is C4.



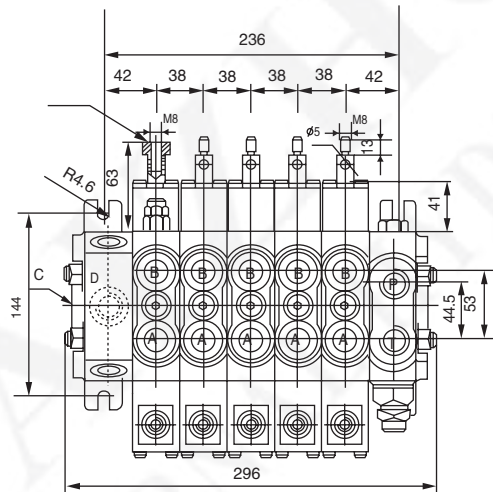
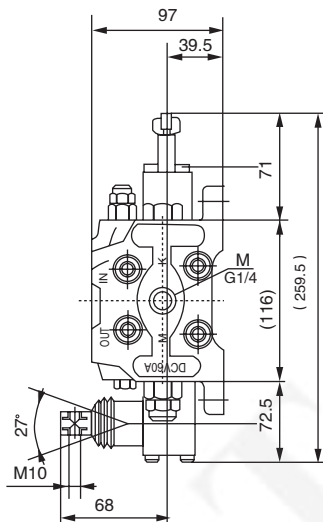
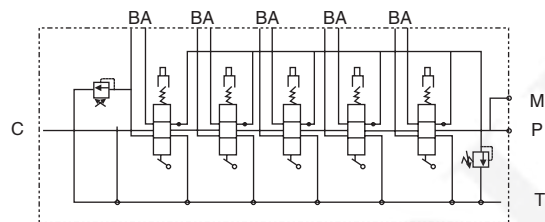
注：标准供货时D口没有
Standard valves
without D port

额定流量：50升/分钟 Nominal Flow: 50L/Min	最大流量：60升/分钟 Max. Flow: 60L/Min	最大压力：315Bar Max. Working Pressure: 315Bar	标准螺纹：G1/2" Threads (standard): G1/2"	拉杆拧紧力矩：55 ± 3N.m Tie-rod tightening torque: 55 ± 3N.m	阀芯行程：+5~-5 Spool stroke: +5~-5
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DCV60系列多路阀 (双控操纵) SECTION VALVE DCV60(DOUBLE CONTROL)

预留的,双控操纵(N表示内螺纹连接),机能控制代号A13、A13N。

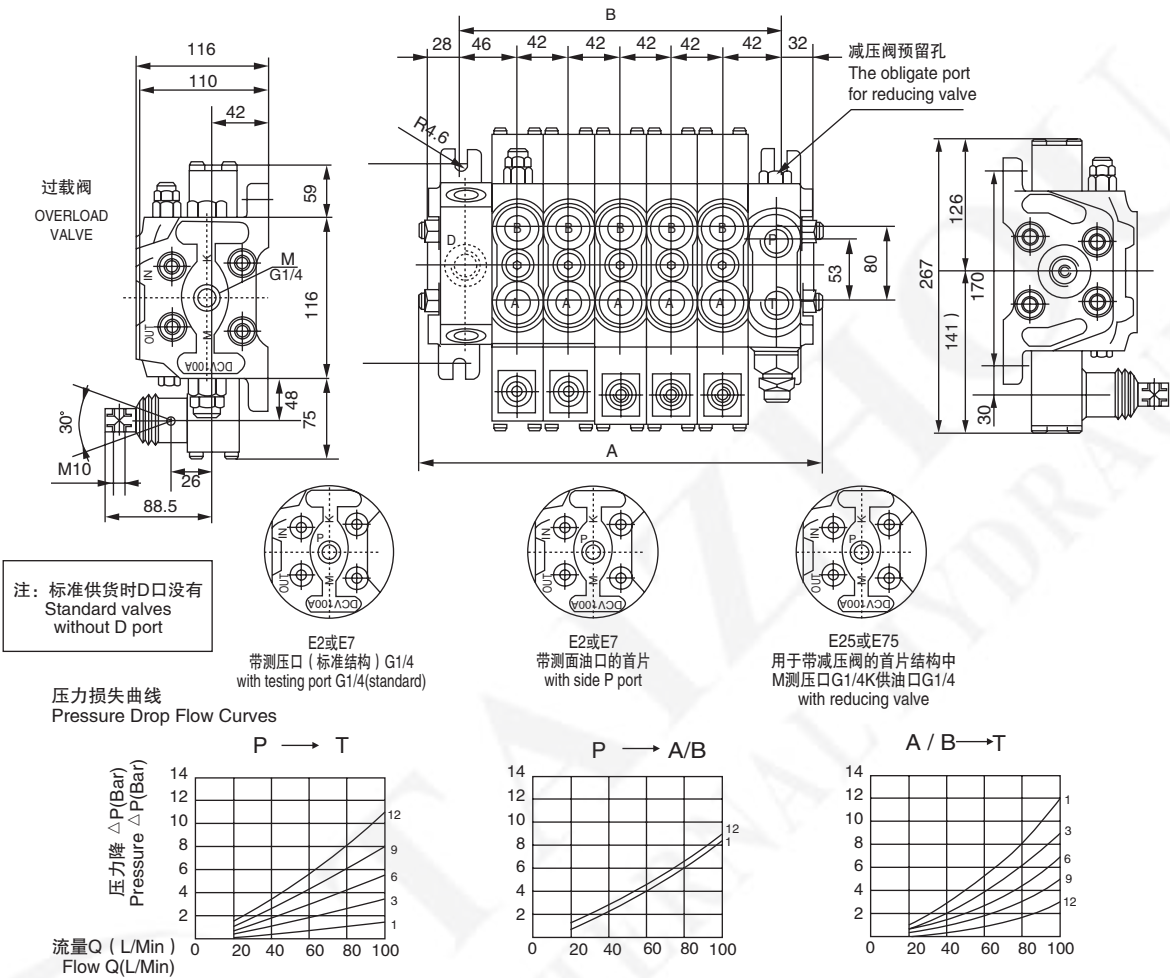
Prearranged for double control(N means the screw thread is inside).The code is A13 or A13N.



注: 标准供货时D口没有
Standard valves
without D port

额定流量: 50升/分钟 Nominal Flow: 50L/Min	最大流量: 60升/分钟 Max. Flow: 60L/Min	最大压力: 315Bar Max. Working Pressure: 315Bar	标准螺纹: G1/2" Threads(standard): G1/2"	拉杆拧紧力矩: 55 ± 3N.m Tie-rod tightening torque: 55 ± 3N.m	阀芯行程: + 5~-5 Spool stroke: + 5~-5
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DCV100系列多路阀
SECTION VALVE DCV100



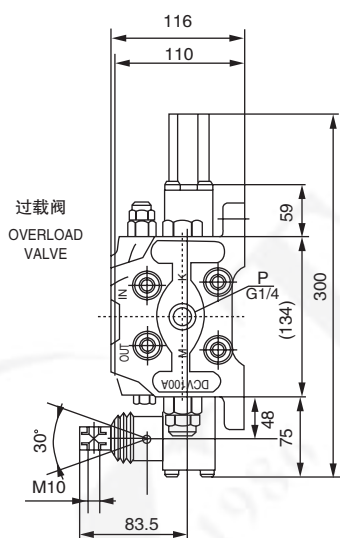
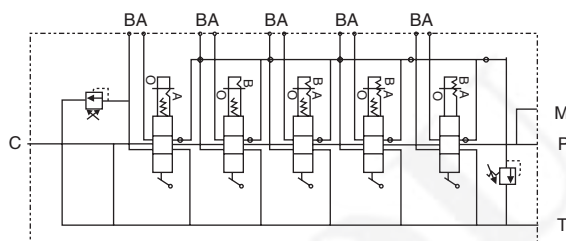
阀型号 TYPE OF VALVE	尺寸 DIMENSIONS			标准重量(公斤) WEIGHT(Kg)
	A	B		
DCV 100/1	158	88		9.8
DCV 100/2	200	130		13.7
DCV 100/3	242	172		17.6
DCV 100/4	284	214		21.5
DCV 100/5	326	256		25.4
DCV 100/6	370	298		29.3
DCV 100/7	410	340		32.2
DCV 100/8	450	382		37.1
DCV 100/9	497	424		41
DCV 100/10	536	466		44.9
DCV 100/11	578	508		48.8
DCV 100/12	620	550		52.7

额定流量: 80升/分钟 Nominal Flow: 80L/Min	最大流量: 100升/分钟 Max. Flow: 100L/Min	最大压力: 315Bar Max. Working Pressure: 315Bar	标准螺纹: G3/4" Threads(standard): G3/4"	拉杆拧紧力矩: 55 ± 3N.m Tie-rod tightening torque: 55 ± 3N.m	阀芯行程: +7~-7 Spool stroke: +7~-7
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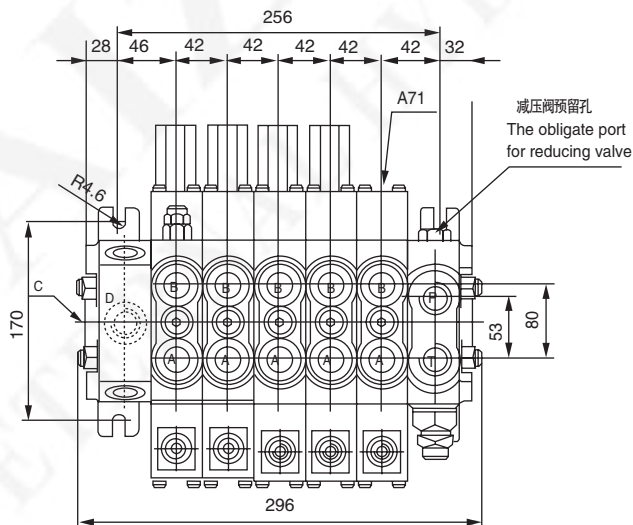
DCV100系列多路阀（定位控制） SECTION VALVE DCV100(DETENT)

定位结构分为带弹簧复位和不带弹簧复位两种。带弹簧复位结构分别有一槽A定位、一槽B定位、二槽定位、三槽定位等多种，可以使阀体分别定在A位、B位、AB位、AOB位。不带弹簧复位结构仅提供AOB定位机能。可根据客户要求定制。机能控制代号见A71页。

The detent structures include two forms: spring centred spool & without spring centred spool. Spring centred spool have those several structures: detent in A, detent in B, detent in A and B, detent in A, B and O. Without spring centred spool only have one structure: detent in A, B and O. We can make the products in accordance with particular instructions or requirements of the customers. The code of detent see page A71.



注：标准供货时D口没有
Standard valves
without D port



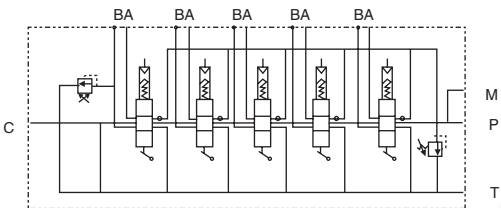
额定流量: 80升/分钟 Nominal Flow: 80L/Min	最大流量: 100升/分钟 Max. Flow: 100L/Min	最大压力: 315Bar Max. Working Pressure: 315Bar	标准螺纹: G3/4" Threads (standard): G3/4"	拉杆拧紧力矩: 55 ± 3N.m Tie-rod tightening torque: 55 ± 3N.m	阀芯行程: +7~-7 Spool stroke: +7~-7
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DCV100系列多路阀（气缸控制/油缸控制）
SECTION VALVE DCV100(PNEUMATIC/HYDRAULIC CONTROL)

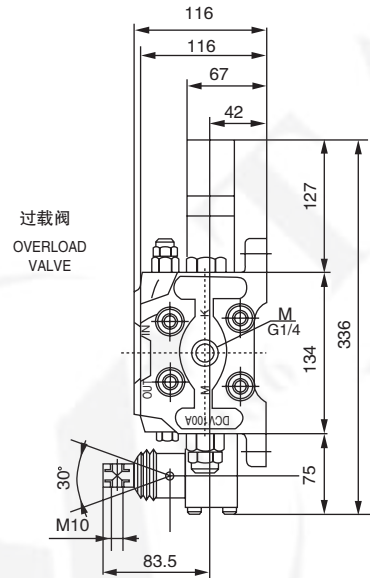
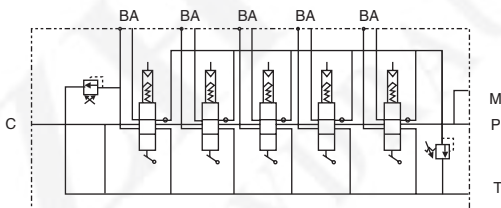
气缸控制多路换向阀，控制压力5 ~10bar,油缸控制
多路换向阀，控制压力10 ~13bar
ON-OFF pneumatic control, Pilot pressure 5 ~10bar
ON-OFF hydraulic control, Pilot pressure 10 ~13bar

控制方式 Control Mode	控制口尺寸 Control port Size	控制机能代号 Order Code
气缸控制 Pneumatic control	G1/8	A14
油缸控制 Hydraulic control	G1/4	A24

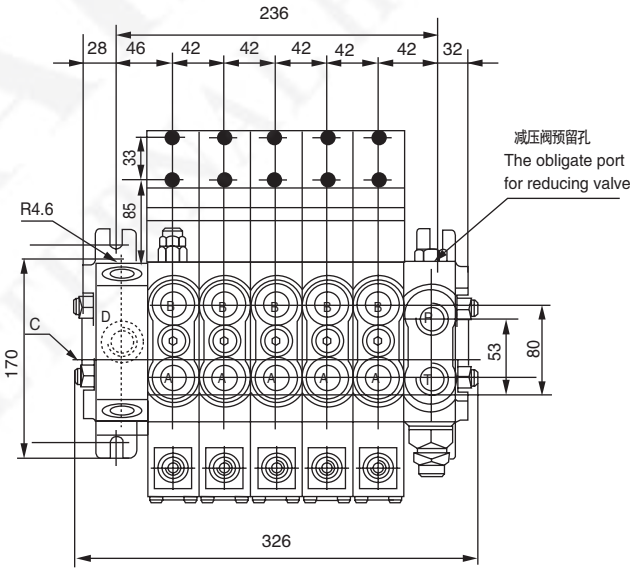
气缸控制
Pneumatic Control



油缸控制
Hydraulic control



注：标准供货时D口没有
Standard valves
without D port



额定流量：80升/分钟 Nominal Flow: 80L/Min	最大流量：100升/分钟 Max. Flow: 100L/Min	最大压力：315Bar Max. Working Pressure: 315Bar	标准螺纹：G3/4" Threads (standard): G3/4"	拉杆拧紧力矩：55 ± 3N.m Tie-rod tightening torque: 55 ± 3N.m	阀芯行程：+7~-7 Spool stroke: +7~-7
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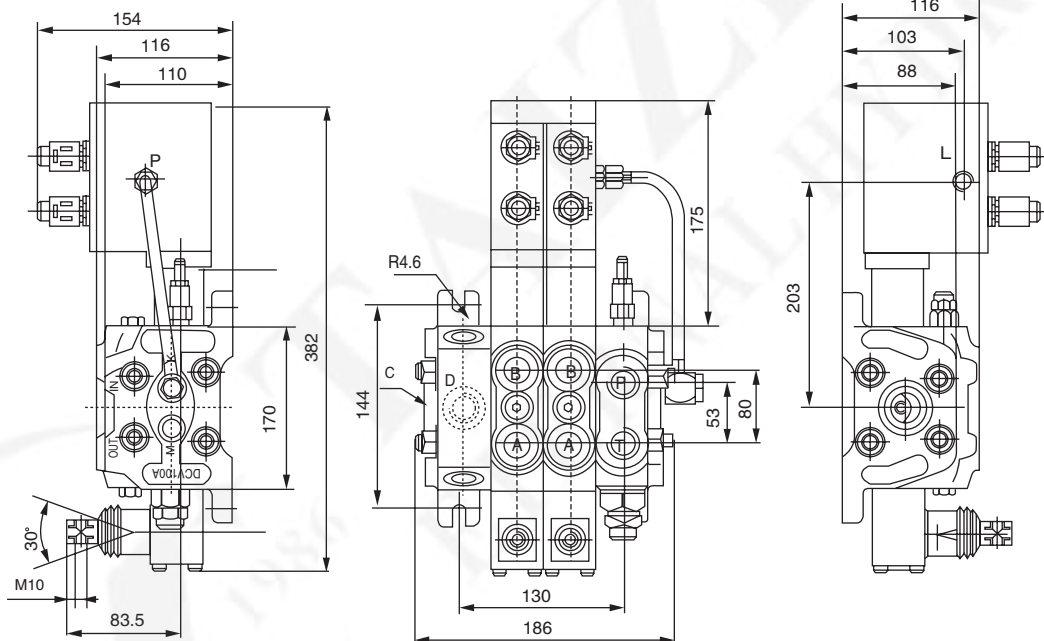
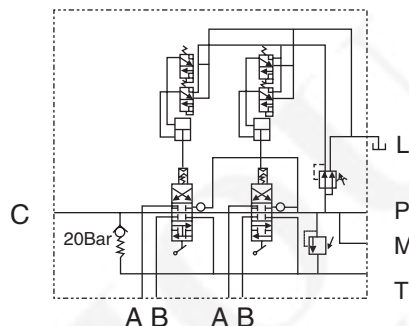
DCV100系列多路阀（电液控换向阀） SECTION VALVE DCV100(ELECTROHYDRAULIC CONTROL)

此电液/手动控制应用有许多变化组合,本样本仅举一例,更多具体应用要求,我们可根据客户要求定制,例如右侧进油,12V或24V等要求。

使用电液控时需提供实际使用工况,使用压力、使用流量等参数。产品出厂前根据用户工况调试好。建议选用产品前咨询我们销售或技术部门。机能控制代号: A15、A16。

The application of electrohydraulic control and handle control have a lot of combination. In the catalogue, we give you only one example of them. We can make the products in accordance with particular instructions or requirements of the customers. For example: right inlet section. 12V or 24V. etc.

You should present the status pressure and flow before the order. For us to debug the valves before the consignment. We suggest that when you choose the valve please refer to our seller or technical adviser. The code is A15 or A16.

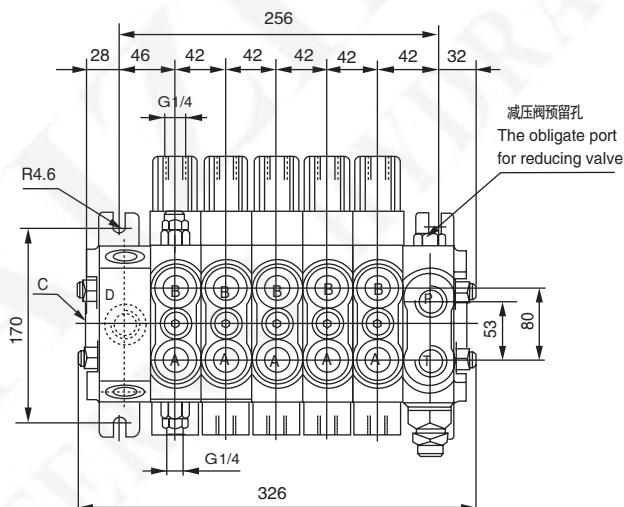
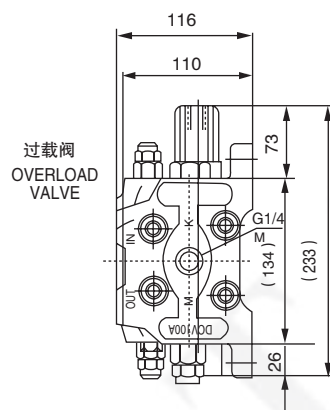
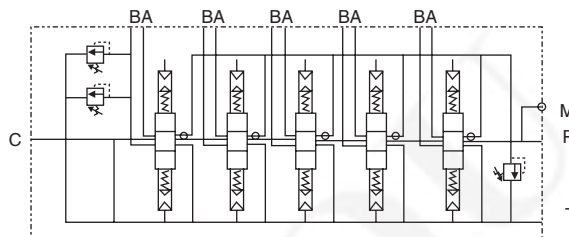


注:1. 此型号电液控产品首片形式为E25或E75
2. 标准供货时D口没有。
1. The form of inlet section is E25 or E75
2. Standard valves without D port.

额定流量: 80升/分钟 Nominal Flow: 80L/Min	最大流量: 100升/分钟 Max. Flow: 100L/Min	最大压力: 315Bar Max. Working Pressure: 315Bar	标准螺纹: G3/4" Threads (standard): G3/4"	拉杆拧紧力矩: 55 ± 3N.m Tie-rod tightening torque: 55 ± 3N.m	阀芯行程: +7~-7 Spool stroke: +7~-7
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订货时请告知配套先导阀参数。标准产品设计满足5~30bar的先导控制压力范围。特殊要求请咨询我们技术部门。机能操纵代号:C4

Please tell us the data of the hydraulic remote control when you order it. The normal pilot pressure is 5~30 bar. When you have special requirement please tell our technical adviser. The code is C4.



额定流量: 80升/分钟
Nominal Flow: 80L/Min

最大流量: 100升/分钟
Max.Flow:100L/Min

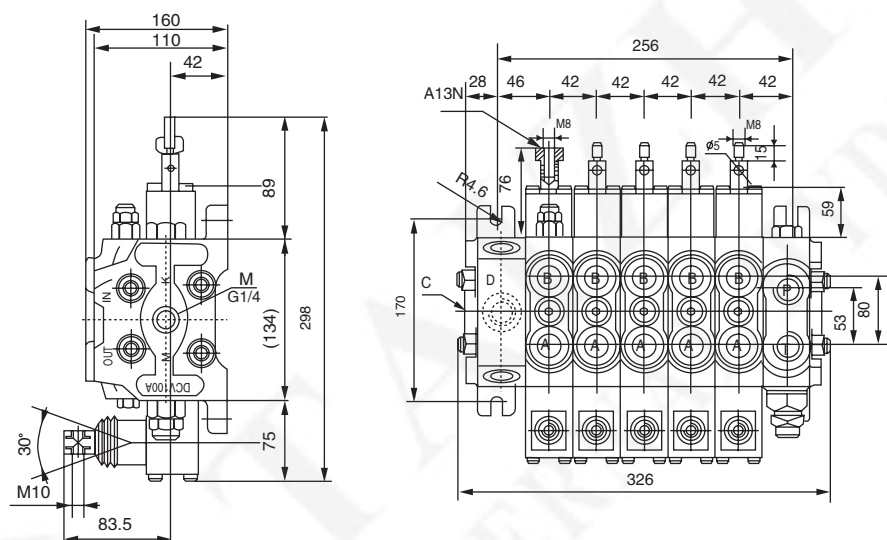
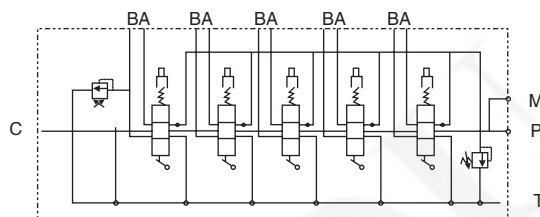
最大压力: 315Bar
Max.Working Pressure:
315Bar

标准螺纹: G3/4"
Threads(standard):G3/4"

拉杆拧紧力矩: $55 \pm 3\text{N.m}$
Tie-rod tightening
torque: $55 \pm 3\text{N.m}$

阀芯行程: +7~-7
 Spool stroke: +7~-7

预留的,双控操纵(N表示内螺纹连接),机能控制
代号A13、A13N。
Prearranged for double control(N means the screw
thread is inside).The code is A13 or A13N.



额定流量: 80升/分钟 Nominal Flow: 80L/Min	最大流量: 100升/分钟 Max. Flow: 100L/Min	最大压力: 315Bar Max. Working Pressure: 315Bar	标准螺纹: G3/4" Threads(standard): G3/4"	拉杆拧紧力矩: 55 ± 3N.m Tie-rod tightening torque: 55 ± 3N.m	阀芯行程: + 7~-7 Spool stroke: + 7~-7
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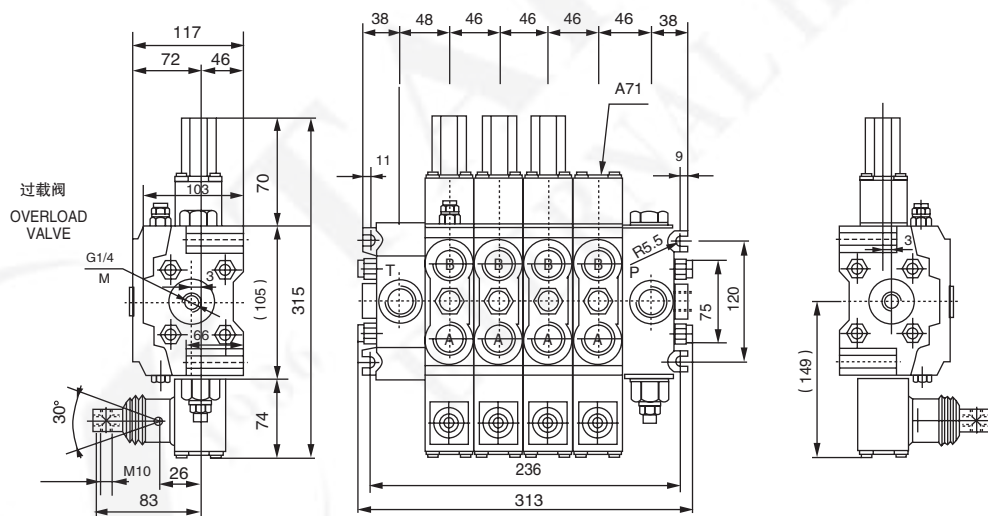
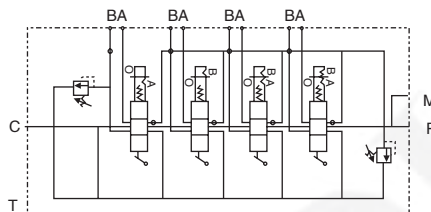
Three graphs showing the relationship between pressure drop (ΔP) and flow rate (Q) for different valve types. The y-axis represents pressure drop ΔP (Bar) from 0 to 14. The x-axis represents flow rate Q (L/Min) from 0 to 140. The graphs are labeled $P \rightarrow T$, $P \rightarrow A/B$, and $A/B \rightarrow T$. Each graph contains five curves corresponding to different valve sizes: 1, 3, 6, 9, and 12. The pressure drop increases with flow rate and decreases with valve size.

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DCV140系列多路阀（定位控制） SECTION VALVE DCV140(DETENT)

定位结构分为带弹簧复位和不带弹簧复位两种。带弹簧复位结构分别有一个槽A定位、一槽B定位、二槽定位、三槽定位等多种，可以使阀体分别定在A位、B位、AB位、AOB位。不带弹簧复位结构仅提供AOB定位机能。可根据客户要求定制。机能控制代号见A71页。

The detent structures include two forms: spring centred spool & without spring centred spool. Spring centred spool have those several structures: detent in A, detent in B, detent in A and B, detent in A, B and O. Without spring centred spool only have one structure: detent in A, B and O. We can made the products in accordance with particular instructions or requirements of the customers. The code of detent see page A71.



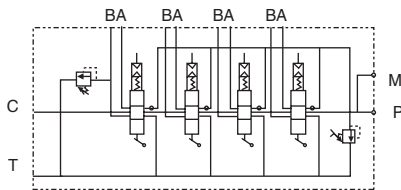
额定流量: 100升/分钟 Nominal Flow: 100L/Min	最大流量: 140升/分钟 Max. Flow: 140L/Min	最大压力: 315Bar Max. Working Pressure: 315Bar	标准螺纹: G3/4" Threads (standard): G3/4"	拉杆拧紧力矩: 55 ± 3N.m Tie-rod tightening torque: 55 ± 3N.m	阀芯行程: +7~-7 Spool stroke: +7~-7
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DCV140系列多路阀（气缸控制/油缸控制）
SECTION VALVE DCV140(PNEUMATIC/HYDRAULIC CONTROL)

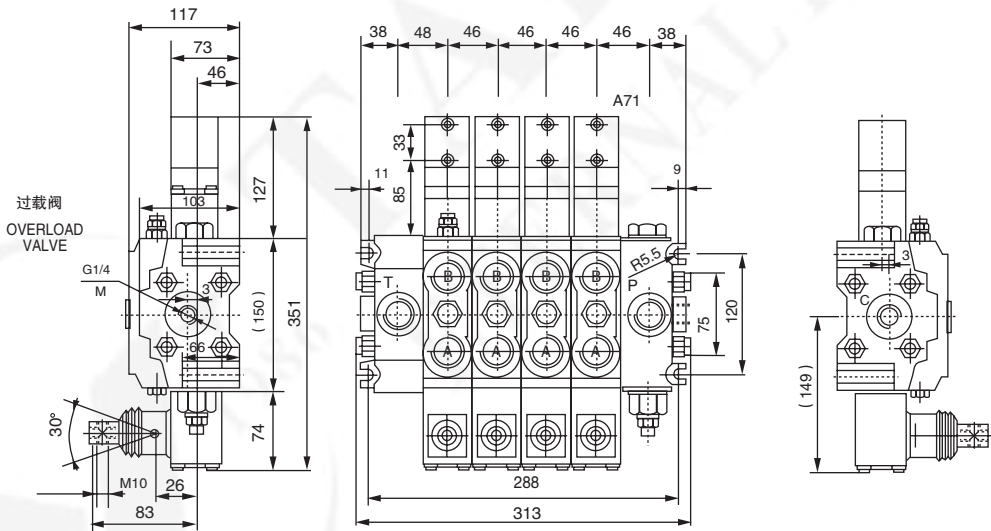
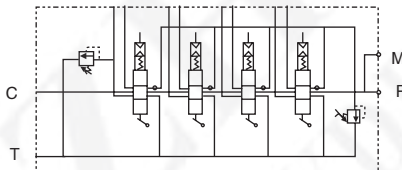
气缸控制多路换向阀，控制压力5 ~10bar,油缸控制多路
换向阀，控制压力10 ~13bar
ON-OFF pneumatic control, Pilot pressure 5 ~10bar
ON-OFF hydraulic control, Pilot pressure 10 ~13bar

控制方式 Control Mode	控制口尺寸 Control port Size	控制机能代号 Order Code
气缸控制 Pneumatic control	G1/8	A14
油缸控制 Hydraulic control	G1/4	A24

气缸控制
Pneumatic control



油缸控制
Hydraulic control

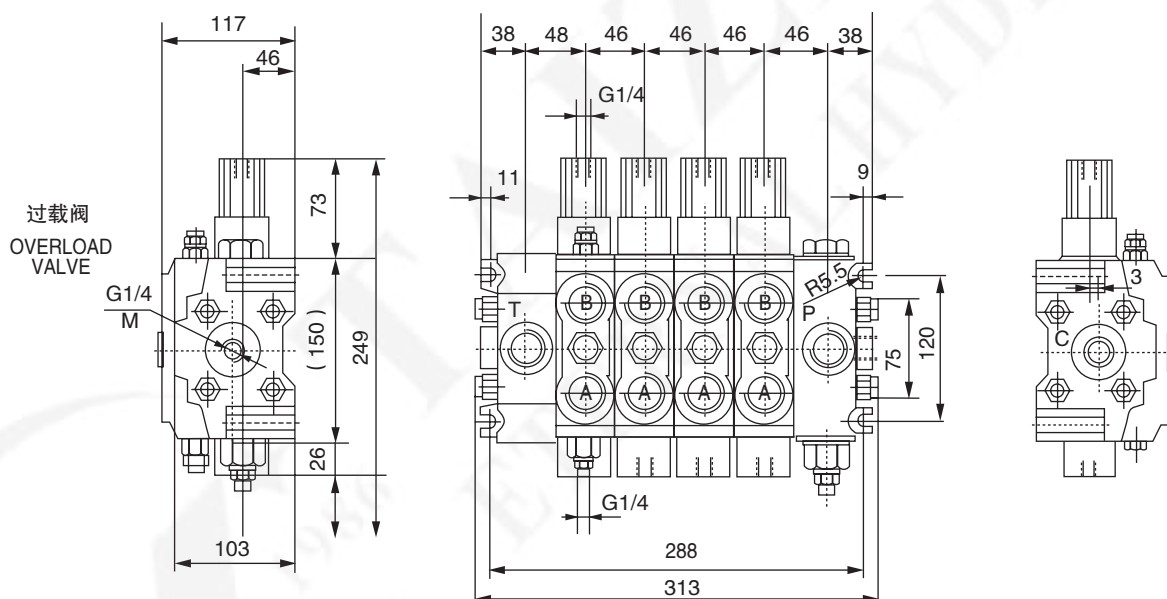
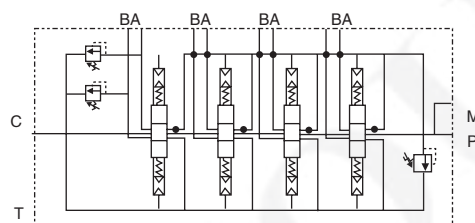


额定流量: 100升/分钟 Nominal Flow: 100L/Min	最大流量: 140升/分钟 Max. Flow: 140L/Min	最大压力: 315Bar Max. Working Pressure: 315Bar	标准螺纹: G3/4" Threads(standard): G3/4"	拉杆拧紧力矩: 55 ± 3N.m Tie-rod tightening torque: 55 ± 3N.m	阀芯行程: +7~-7 Spool stroke: +7~-7
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DCV140系列多路阀（液控） SECTION VALVE DCV140 (HYDRAULIC CONTROL)

订货时请告知配套先导阀参数。标准产品设计满足5~30bar的先导控制压力范围。特殊要求请咨询我们技术部门。机能操纵代号:C4

Please tell us the data of the hydraulic remote control when you order it. The normal pilot pressure is 5~30 bar. When you have special requirement please tell our technical adviser. The code is C4.



额定流量: 100升/分钟 Nominal Flow: 100L/Min	最大流量: 140升/分钟 Max. Flow: 140L/Min	最大压力: 315Bar Max. Working Pressure: 315Bar	标准螺纹: G3/4" Threads (standard): G3/4"	拉杆拧紧力矩: 55 ± 3N.m Tie-rod tightening torque: 55 ± 3N.m	阀芯行程: +7~-7 Spool stroke: +7~-7
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ZS 系列参数

ZS Series Sectional Directional Control Valves

用途与特征/APPLICATIONS&FEATURES

ZS系列多路换向阀是一种以手动换向为主体的组合阀。它主要用于工程机械、矿山机械、起重运输机械和其他机械液压系统，用于改变液流方向，实行多个执行机构的集中控制。

ZS series multiple directional control valve is a kind of combination valve based on manual control. It's mainly used in mechanical hydraulic systems such as engineering machinery, mining machinery, Crane and Carriage Machinery, etc. to change flow direction and to execute integrated control over several executive mechanism.

性能参数/SPECIFICATIONS

型 号 Model	公称通径/Nom. dim		公称流量 Nom. flow (L/min)	公称压力/Nom.pressure (Mpa)	
	(mm)	(in)		E	F
ZS★_L15※	M22×1.5	1/2	63	16	20
ZS★_L20※	M27×2	3/4	100	16	20
ZS★_L25※	M33×2	1	160	16	20
工作油液 Hydranlic Oil	温度范围 Tem.range(℃)		粘度范围 Visc.range(mm²/s)		过滤精度 Filtrating accuracy(μm)
	-20~+80		10~400		≤10

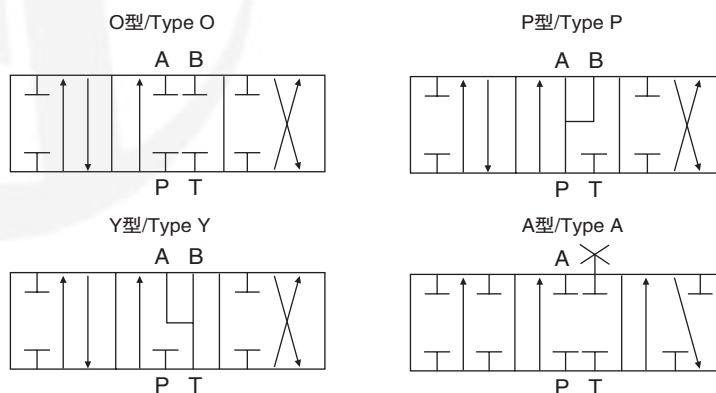
注：油液最高污染等级：按GB/T14039之19/16。

Note: maximum permissible degree of contamination of the oil is according to GB/T14039-19/16.

★ 表示设计序号。※表示压力等级。

★ Indicates design number. ※Indicates pressure grade.

机能符号/SPOOLFUNCTION SYMBOLS



ZS1 系列分片式多路阀

ZS1 Series Sectional Directional Control Valve

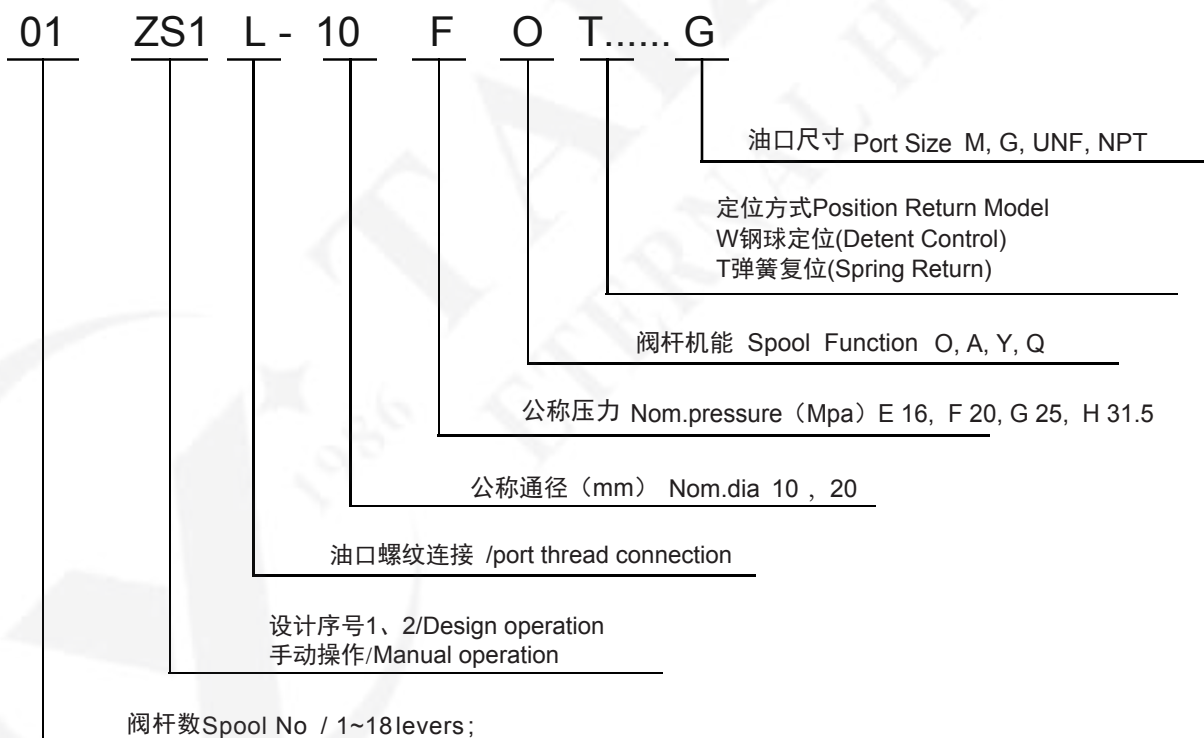
用途与特征/APPLICATIONS&FEATURES

ZS1系列多路换向阀带有先导式安全阀和单向阀，油路形式为并联油路。该阀结构简单，泄露量小，安全阀启闭性好，滑阀机能有O、P、Y、A、几种形式。定位方式有弹簧复位和钢球定位两种。

ZS1 series sectional directional control valves consist of pilot operated relief valve and check valve with parallel oil circuit. Its features are simple in structure, small in leakage and good in stopping property of relief valve. The spool functions include the forms of O, P, Y and A. The positioning and returning modes include spring return and ball locking.



性能参数/SPECIFICATIONS

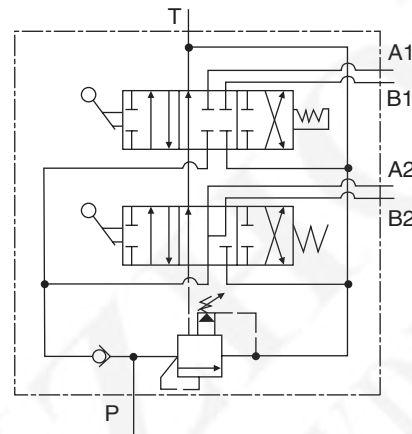
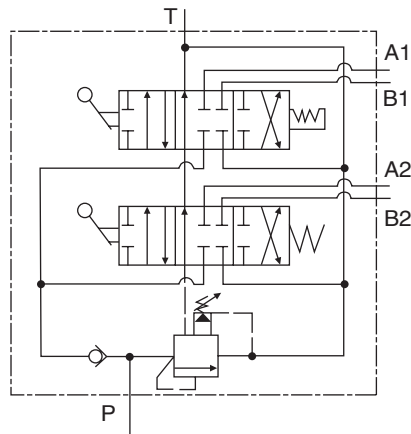


注：订货有特殊要求者，请与销售顾问联系。

Notes: Special features not listed on can often be made to your specifications. Please consult your sales representative.

ZS1-L10 Series Sectional direction valve

ZS1-L10※-YT.OW

[illegible]

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ZS1-L15 系列分片式多路阀

ZS1-L15 Series Sectional Directional Control Valves

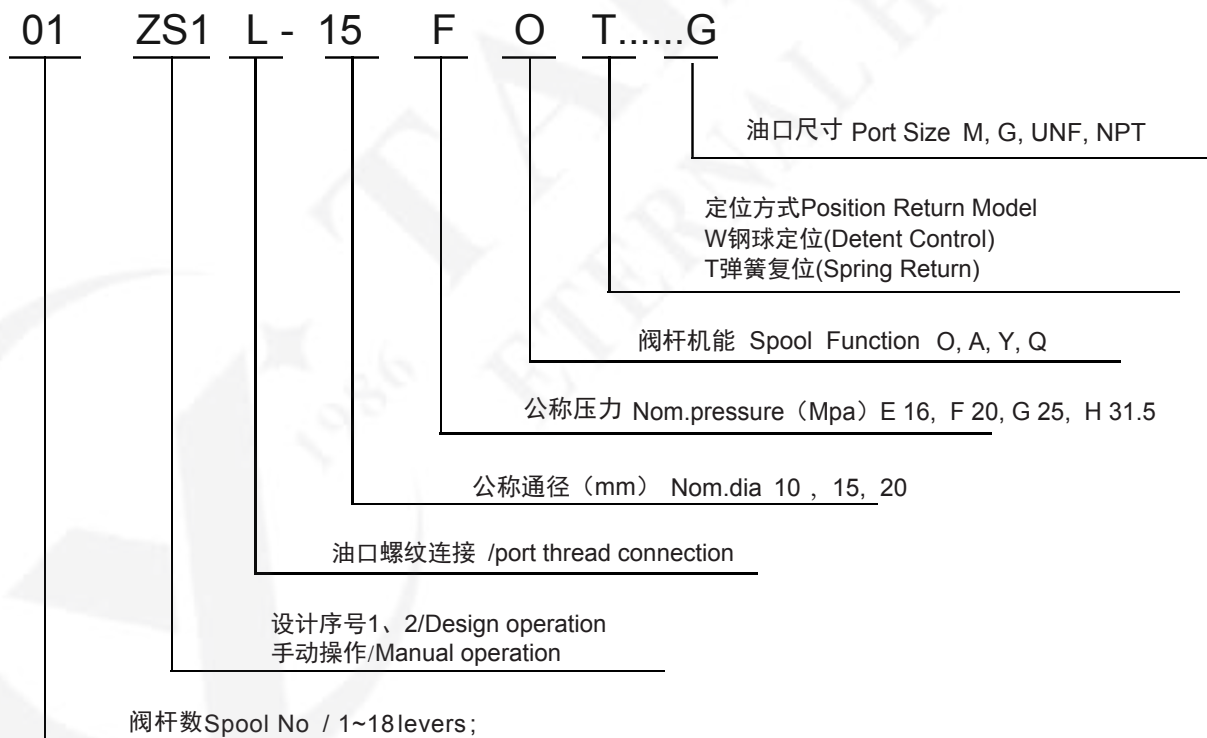
用途与特征/APPLICATIONS&FEATURES

ZS1系列多路换向阀带有先导式安全阀和单向阀，油路形式为并油路。该阀结构简单，泄露量小，安全阀启闭性好，滑阀机能有O、P、Y、A、几种形式。定位方式有弹簧复位和钢球定位两种。

Model ZS1 sectional valves with pilot relief valve and inner check valves are in simple construction, lower inner leakage and good quality relief valve. The spool functions is O, P, Y A. The spring return and detent control are available for options.



性能参数/SPECIFICATIONS



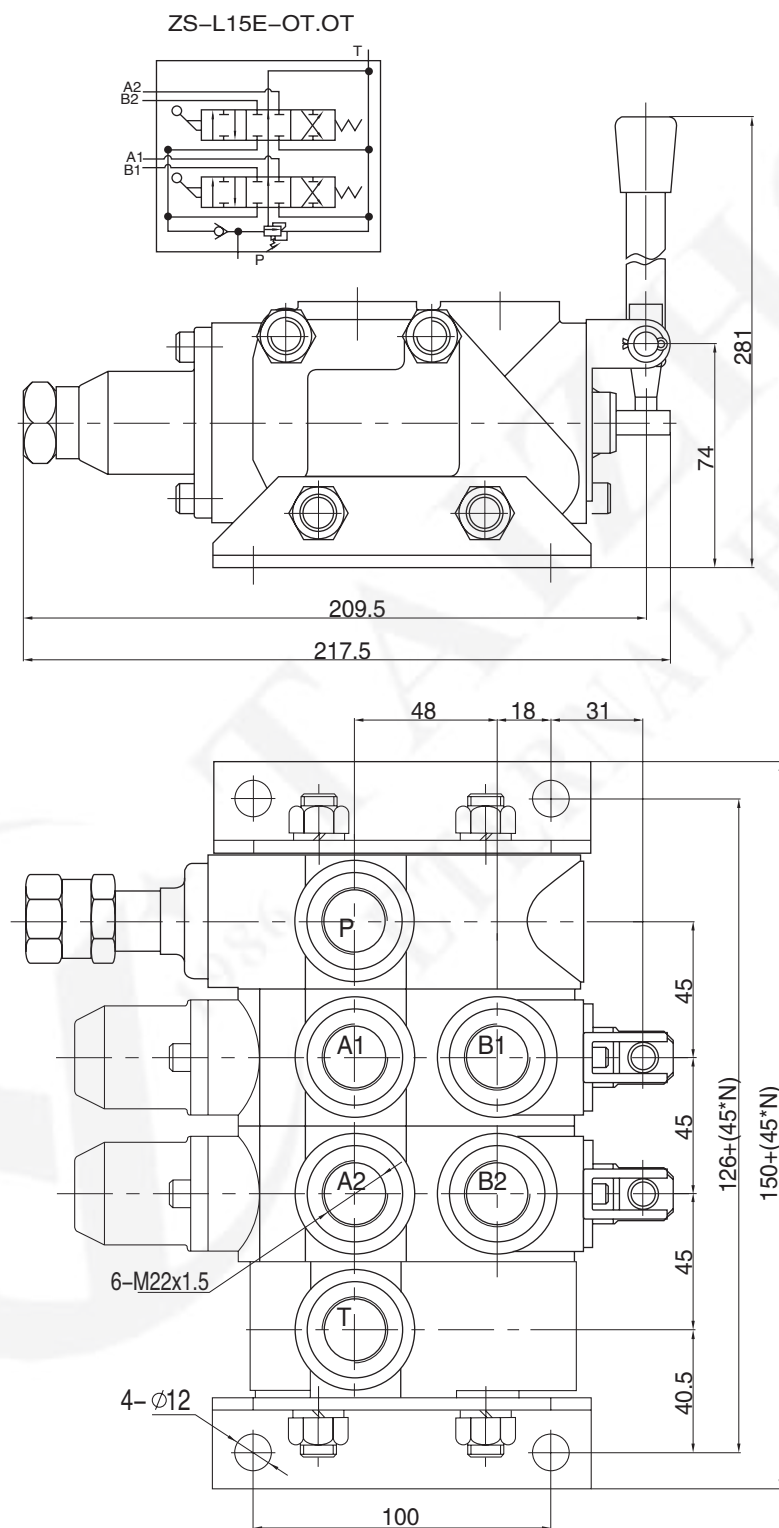
注：订货有特殊要求者，请与销售顾问联系。

Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

ZS1-L15 系列分片式多路阀

ZS1-L15 Series Sectional Directional Control Valves

ZS1-L15外形安装连接尺寸/MODEL ZS1-L15 DIMENSIONAL DATA



ZS3系列分片式多路阀

ZS3 Series Sectional Directional Control Valve.

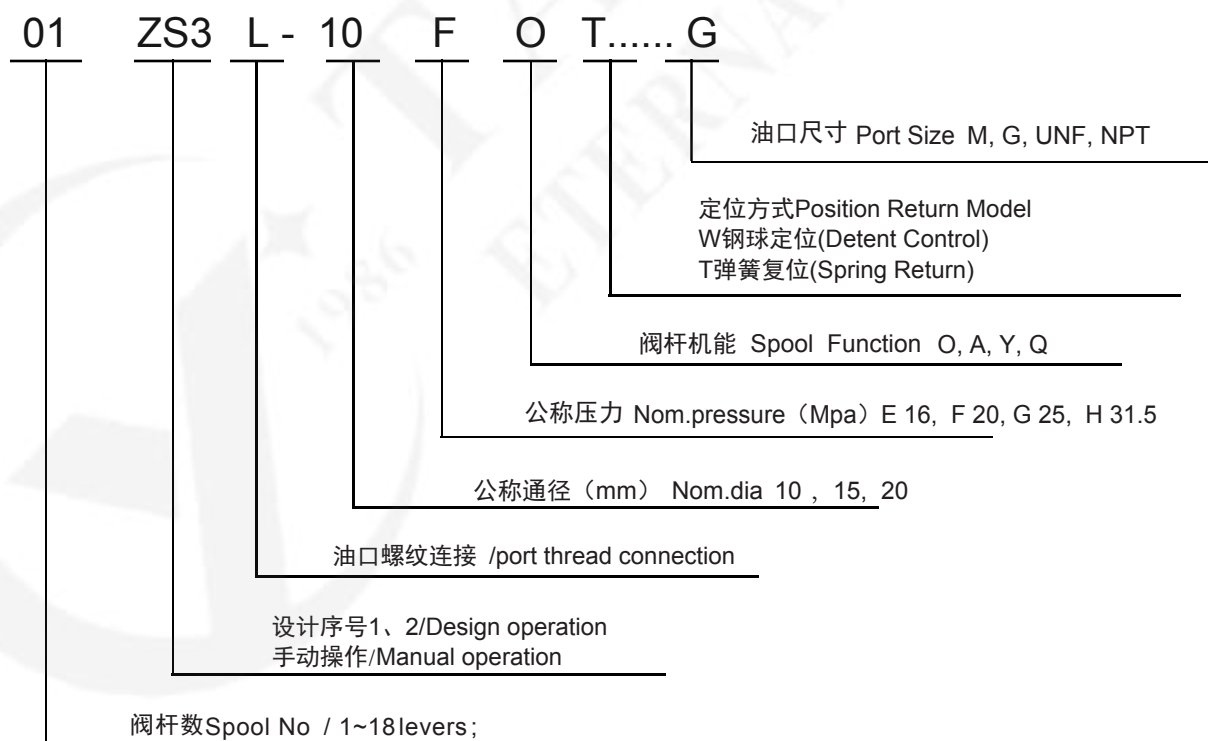
用途与特征/APPLICATIONS&FEATURES

ZS3系列多路换向阀是在ZS1系列多路换向阀的基础上改进设计的。主要是对ZS3系列多路换向阀外形进行了流线设计，使阀体外形尺寸减小，阀体重量减轻，其安装尺寸、油路形式、滑阀机能、定复方式均与ZS3系列多路阀相同。

ZS3 series multiple directional control valves are improved on the basis of the ZS1 series valves. It's mainly changed in the streamline design of outline of figure to reduce the size and weight. Its mounting dimension, form of oil circuit, spool function, and positioning and returning modes are the same as that of the ZS3 valves.



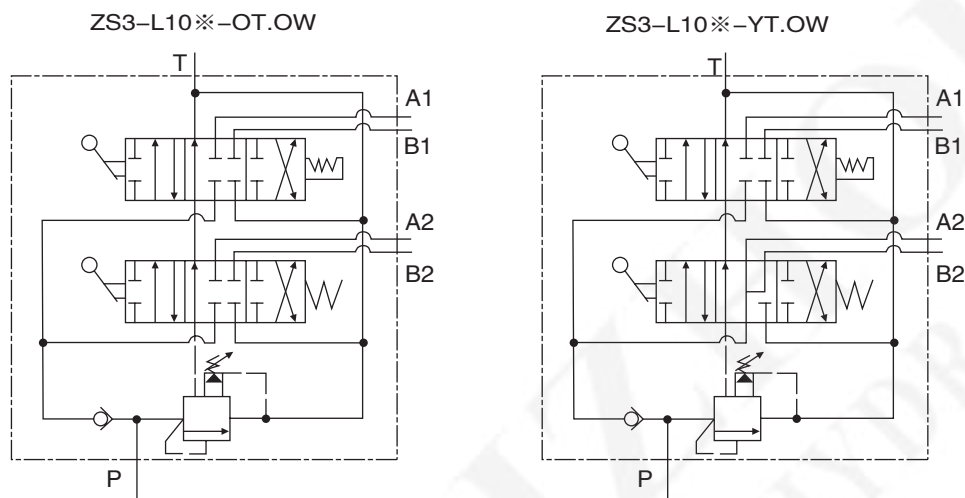
型号说明/MODEL CODE



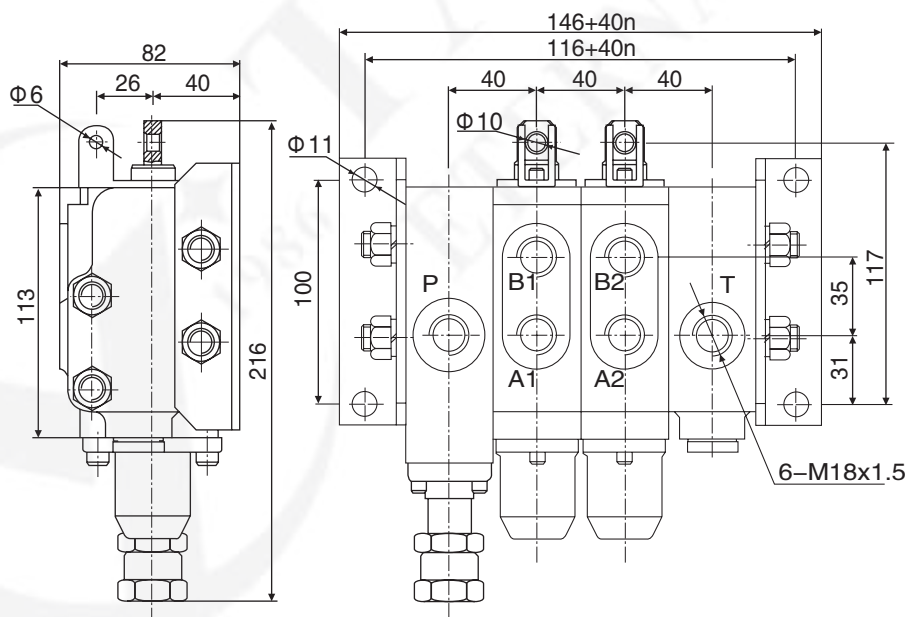
ZS3-L10 系列分片式多路阀

ZS3-L10 Series Sectional Directional Control Valves

型号举例/MODEL EXAMPLES



ZS3-L10外形安装连接尺寸 / ZS3-L10 DIMENSIONAL DATA

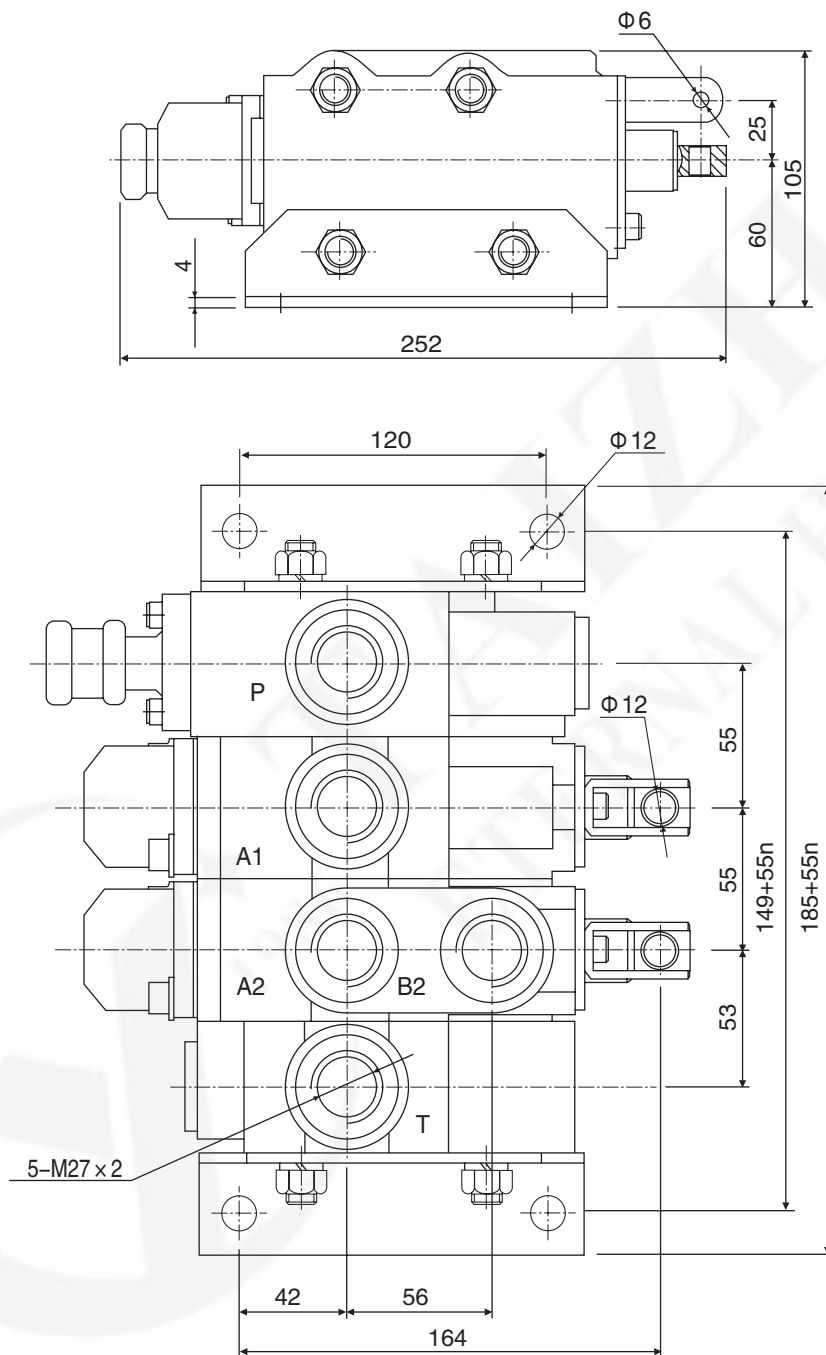


注：n表示多路换向阀连数片
Note:n is the number of direction valve pieces.

ZS3-L20 系列分片式多路阀

ZS3-L20 Series Sectional Directional Control Valves

ZS3-L20外形安装连接尺寸/MODEL ZS3-L20 DIMENSIONAL DATA



注: n表示多路换向阀连数片
Note: n is the number of direction valve pieces.

MB系列整体式多路阀

MB Series Sectional Directional Control Valves



MB2

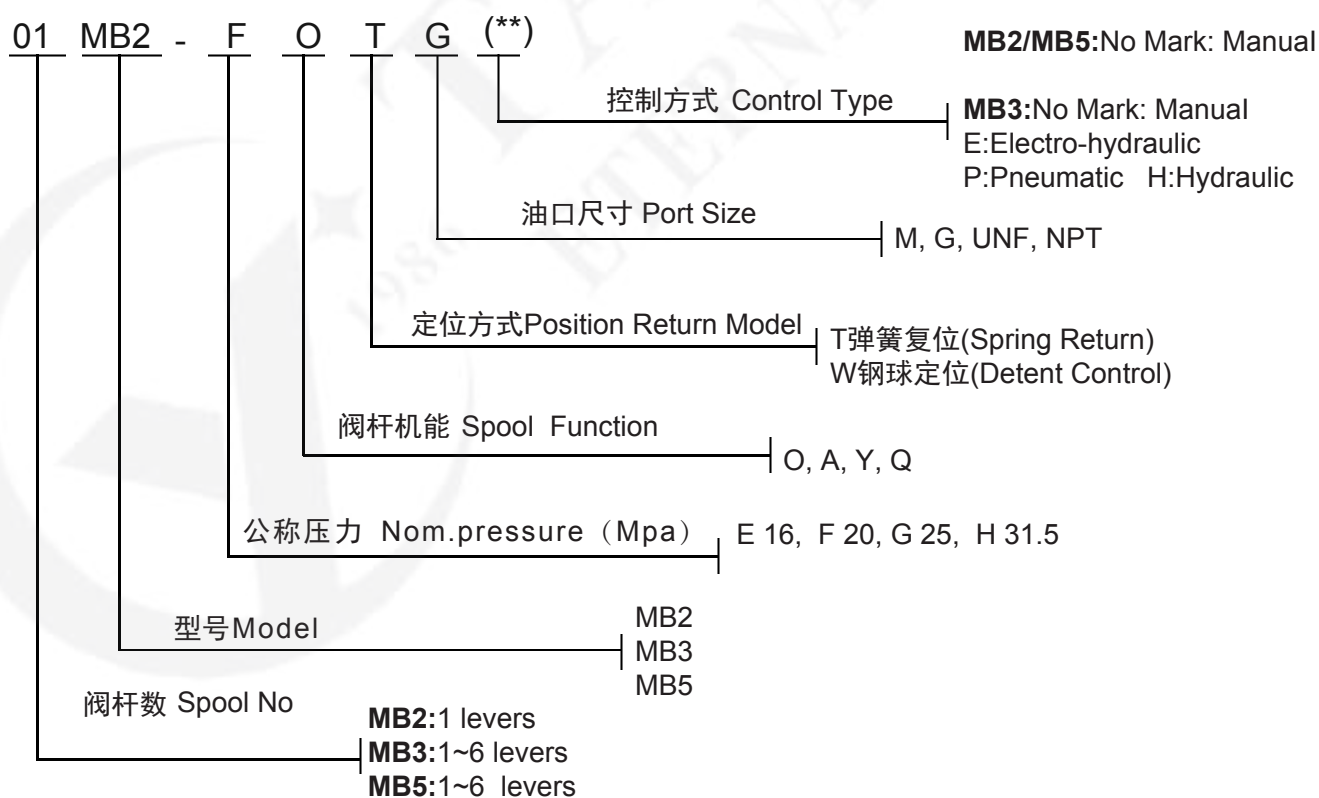


MB3



MB5

型号说明/MODEL CODE



技术参数/PARAMETERS

MB2 Specifications

Nominal flow rate		45 l/min	12 US gpm
Operating pressure (maximum)		250 bar	3600 psi
Back pressure (maximum)	on outlet port T	25 bar	360 psi
Fluid temperature range	with NBR(BUNA-N) seals	from - 20° to 80°C	from - 4° to 176° F
	with FPM(VITON) seal	from - 20° to 100°C	from - 4° to 212° F
	operating range	from 15 to 75 mm²/s	from 15 to 75 cst
Viscosity	min	12 mm²/s	12 cst
	max.	400 mm²/s	400 cst
Ambient temperature range		from - 40° to 60°C	from - 40° to 140° F

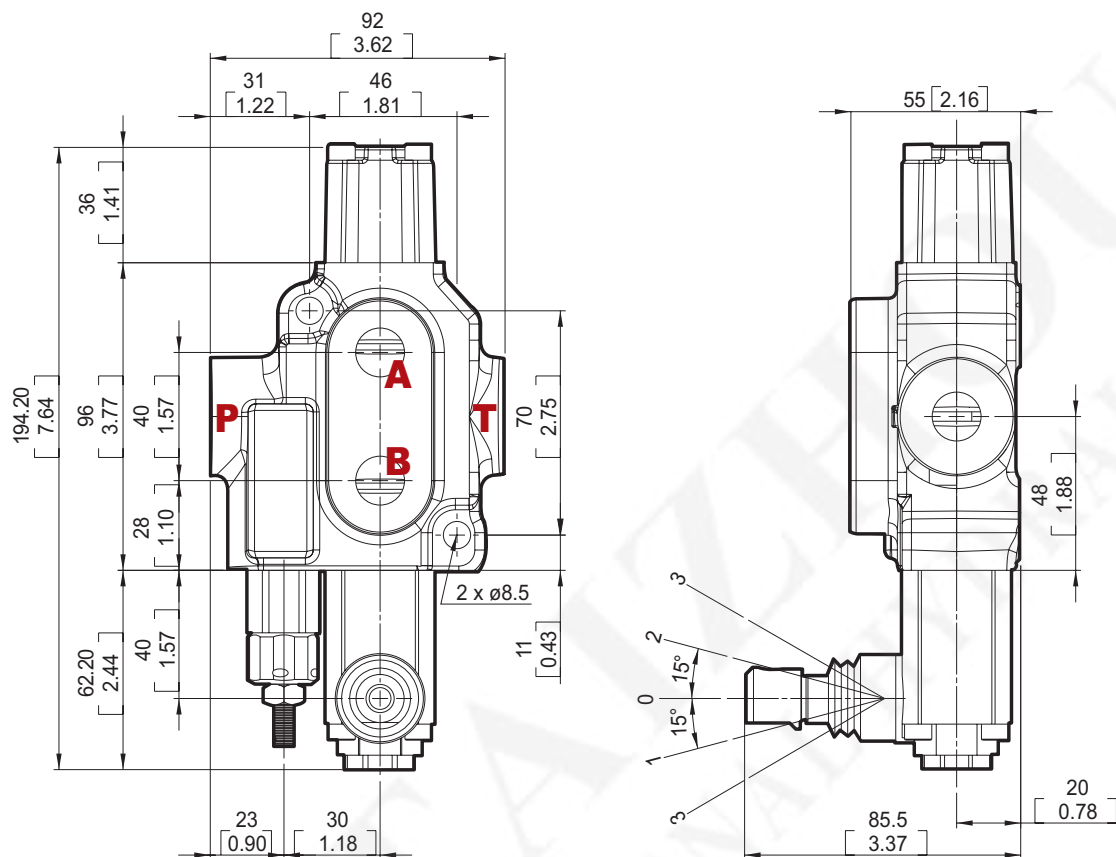
MB-3 Specifications

Nominal flow rate		45 l/min	12 US gpm
Operating pressure (maximum)		315 bar	4600 psi
Back pressure (maximum)	on outlet port T	25 bar	360 psi
Fluid temperature range	with NBR(BUNA-N) seals	from - 20° to 80°C	from - 4° to 176° F
	with FPM(VITON) seal	from - 20° to 100°C	from - 4° to 212° F
	operating range	from 15 to 75 mm²/s	from 15 to 75 cst
Viscosity	min	12 mm²/s	12 cst
	max.	400 mm²/s	400 cst
Ambient temperature range		from - 40° to 60°C	from - 40° to 140° F

MB-5 Specifications

Nominal flow rate		80 l/min	21 US gpm
Operating pressure (maximum)		315 bar	4600 psi
Back pressure (maximum)	on outlet port T	25 bar	360 psi
Fluid temperature range	with NBR (BUNA-N) seals	from - 20° to 80°C	from - 4° to 176° F
	with FPM (VITON) seal	from - 20° to 100°C	from - 4° to 212° F
	operating range	from 15 to 75 mm²/s	from 15 to 75 cst
Viscosity	min	12 mm²/s	12 cst
	max.	400 mm²/s	400 cst
Ambient temperature range		from - 40° to 60°C	from - 40° to 140° F

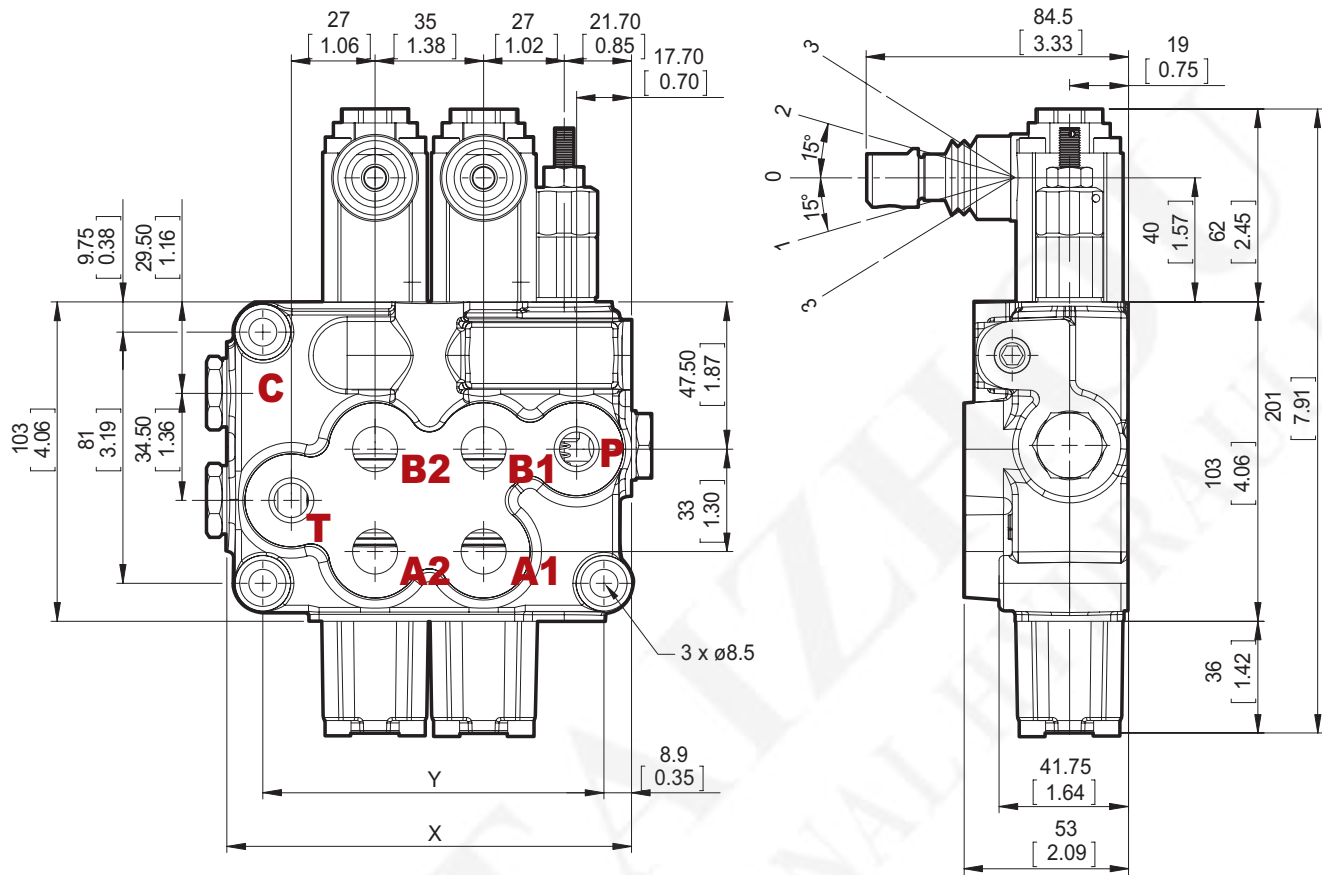
MB2 外形安装连接尺寸/ MB2 DIMENSIONAL DATA



Standard threads

Ports	Inlet P	A and B	Outlet T
BSP	G3/8	G3/8	G3/8
UN-UNF	3/4-16 UNF-2B (SAE 8)	3/4-16 UNF-2B (SAE 8)	3/4-16 UNF-2B (SAE 8)
METRIC	M18x1.5	M18x1.5	M18x1.5

MB3 外形安装连接尺寸/ MB3 DIMENSIONAL DATA



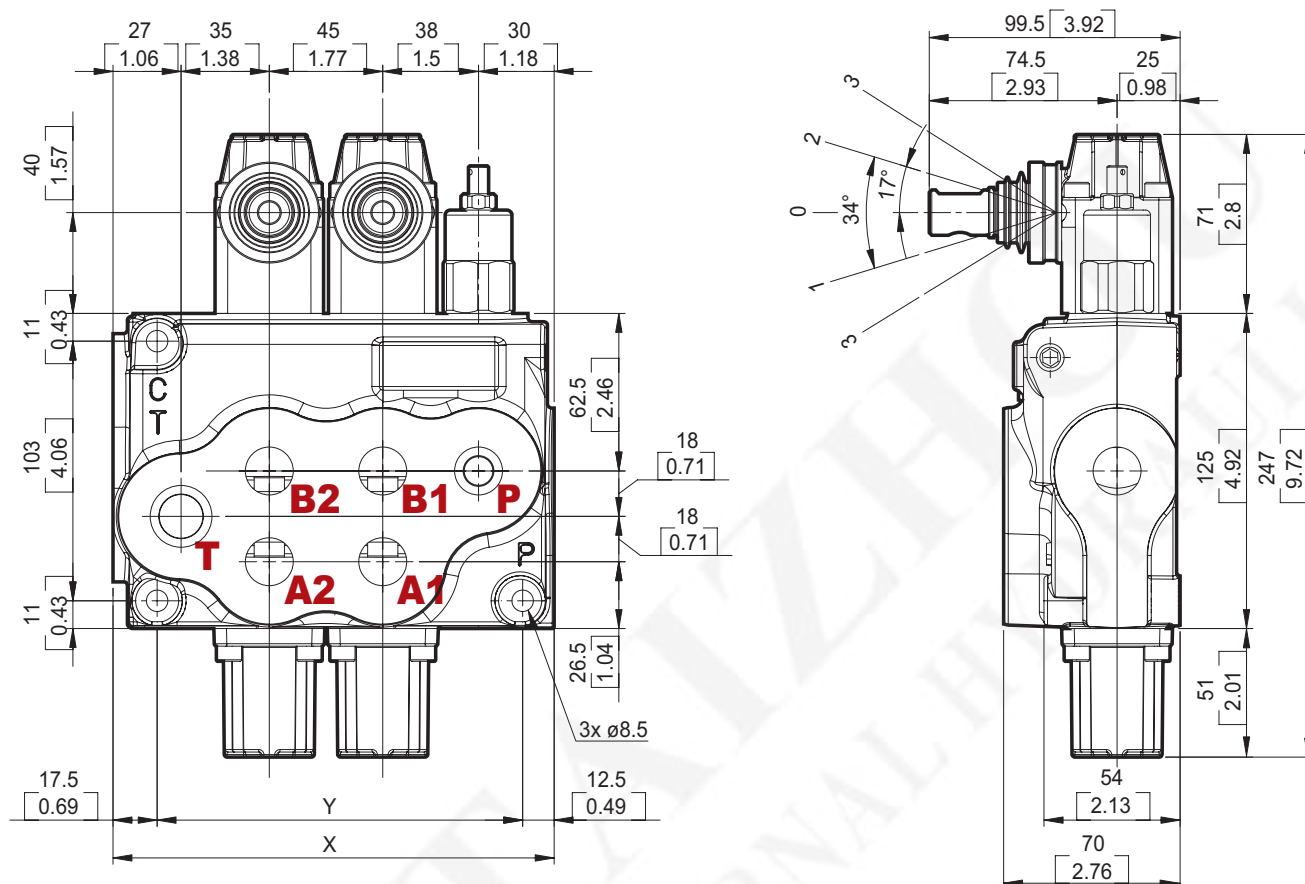
Standard threads

Ports	Inlet P	A and B	Outlet T and C
BSP	G3/8	G3/8	G3/8
UN-UNF	3/4-16 UNF-2B (SAE 8)	3/4-16 UNF-2B (SAE 8)	3/4-16 UNF-2B (SAE 8)
METRIC	M18x1.5	M18x1.5	M18x1.5

Standard dimensions

TYPE	X		Y	
	mm	in	mm	in
MB3 /1Spool	93.5	3.68	73	2.87
MB3 /2Spool	130.5	5.14	110	4.33
MB3 /3Spool	165.5	6.52	147	5.79
MB3 /4Spool	202.5	7.97	184	7.24
MB3 /5Spool	239.5	9.43	221	8.7
MB3 /6Spool	276.5	10.89	258	10.16
MB3 /7Spool	313.5	12.34	295	11.61

MB5 外形安装连接尺寸/ MB5 DIMENSIONAL DATA



Standard threads

Ports	Inlet P	A and B	Outlet T and carry-over C
BSP	G1/2	G1/2	G3/4
UN-UNF	1" 1/16-12 UN (SAE 12)	7/8-14 UNF (SAE 10)	1" 1/16-12 UN (SAE 12)
METRIC	M18x1.5	M18x1.5	M22x1.5

• G-3/8 : G3 G
• SAE 8: E8 SAE 1

SAE 20: E20

Standard dimensions

TYPE	X		Y	
	mm	in	mm	in
MB5 /1S	130	5.12	100	3.94
MB5 /2S	174.5	6.87	145	5.71
MB5 /3S	219.5	8.64	190	7.48
MB5 /4S	264.5	10.41	235	9.25
MB5 /5S	309.5	12.19	280	11.02
MB5 /6S	354.5	13.96	325	12.80

RD5000系列整体式多路阀

RD5000 Series Monoblock Directional Control Valves

用途与特征/APPLICATIONS&FEATURES

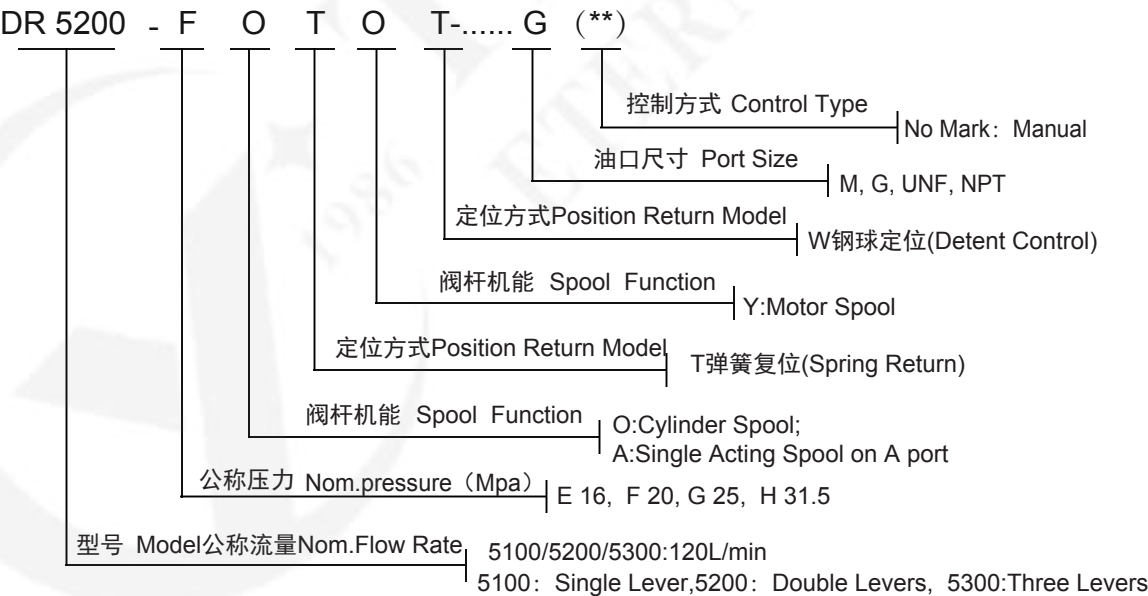
RD5000系列整体式多路阀是我公司引进北美的一种中高压整体式多路阀。可按客户要求，在阀上设溢流阀、单向阀。溢流阀可调节压力，单向阀防止油液倒流。换向阀的滑阀机能可有A,O,P,Y等，可任意组合，换向手柄有两种安装形式，便于不同方向的操作，该阀采用并联或者串联油路，设计有压力输出口与其他液压元件相连接提供动力源。经过特殊设计的密封方式，使阀的密封性能卓越。该阀广泛应用于叉车、环卫车辆、小型装载机等工程机械的液压系统。



RD5000 series valves with middle-high pressure monoblock construction is developed based on North America technology.

- ◆ Inner check valve: The check valve inside the valve body is to insure the hydraulic oil will not be returned.
- ◆ Inner relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.
- ◆ Oil way: Parallel circuit, power beyond option
- ◆ Control Way: Manual control, pneumatic control, hydraulic and electric control for optional.
- ◆ Valve construction: monoblock construction, 1-3 levers.
- ◆ Spool Function: O,Y, P,A.
- ◆ Option: Hydraulic lock is available to be added on A and B port.
- ◆ Available manual, pneumatic control, electric and pneumatic control, hydraulic and electric control and etc.

型号说明/MODEL CODE



技术参数/PARAMETERS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	最大流量 (L/min) Max. Flow rate	中位背压 (MPa) Back Pressure	工作油液hydraulic oil		
					温度范围 (℃) Tem.rang	粘度范围 (mm2/S) Visc.rang	过滤精度 (μm) filtrating accuracy
20	31.5	100	120	≤1	-20 ~ +80	10 ~ 400	≤10

RD5000系列整体阀

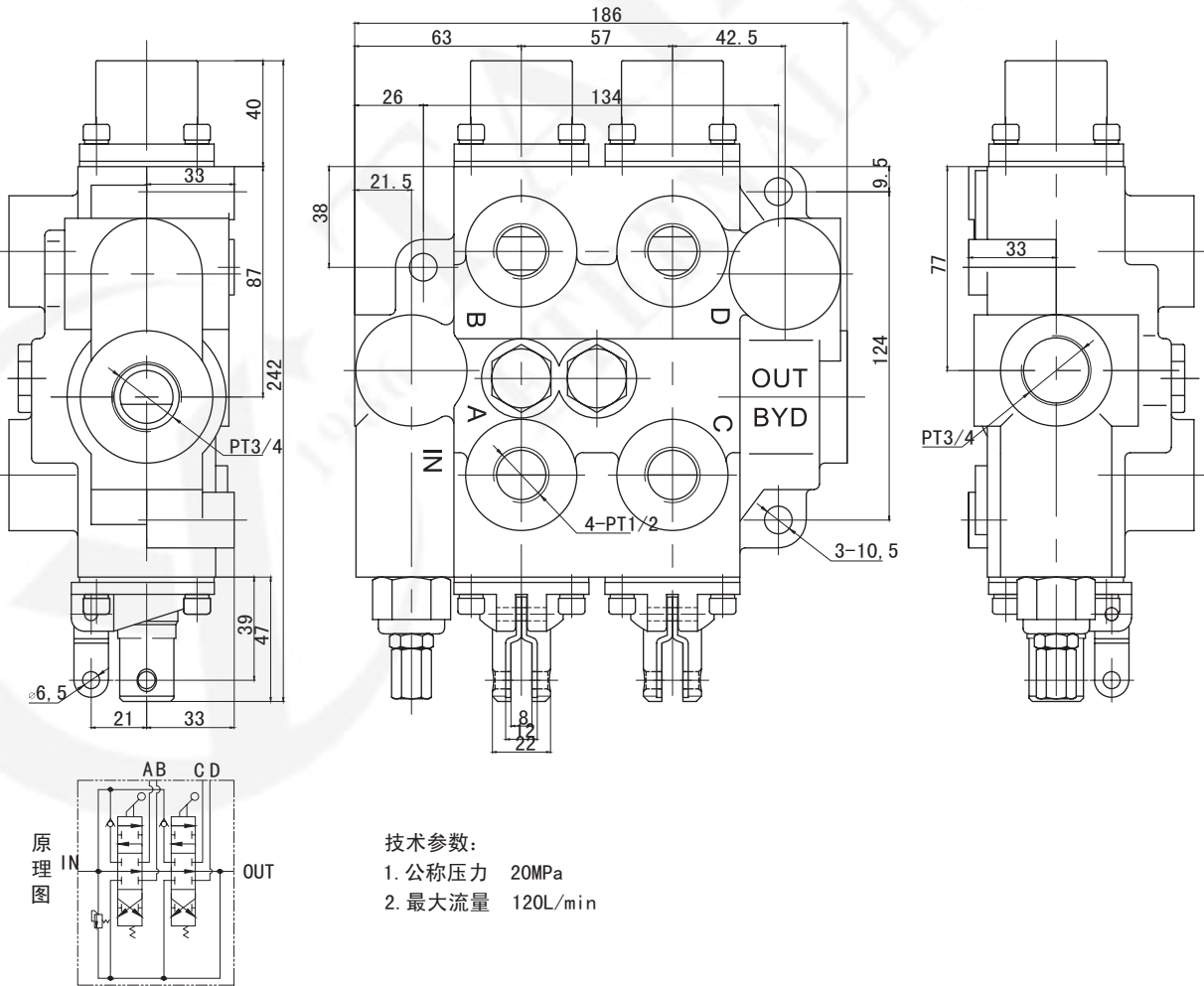
RD5000 Series Monoblock Directional Control Valves

油口尺寸/PORT SIZE

油口 MAIN PORTS	英制 BSP	美制 SAE	美制 NPT
进油口 Inlet P	G3/4	SAE12	NPT3/4
工作油口 Ports A and B	G3/4, G1/2	SAE12,SAE10	NPT3/4, NPT1/2
出油口 Outlet T	G3/4,G1/2	SAE12	NPT3/4, NPT1/2
高压输出口 carry-over C	G3/4	SAE12	NPT3/4

注：订货有特殊要求者，请与销售顾问联系。
 Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

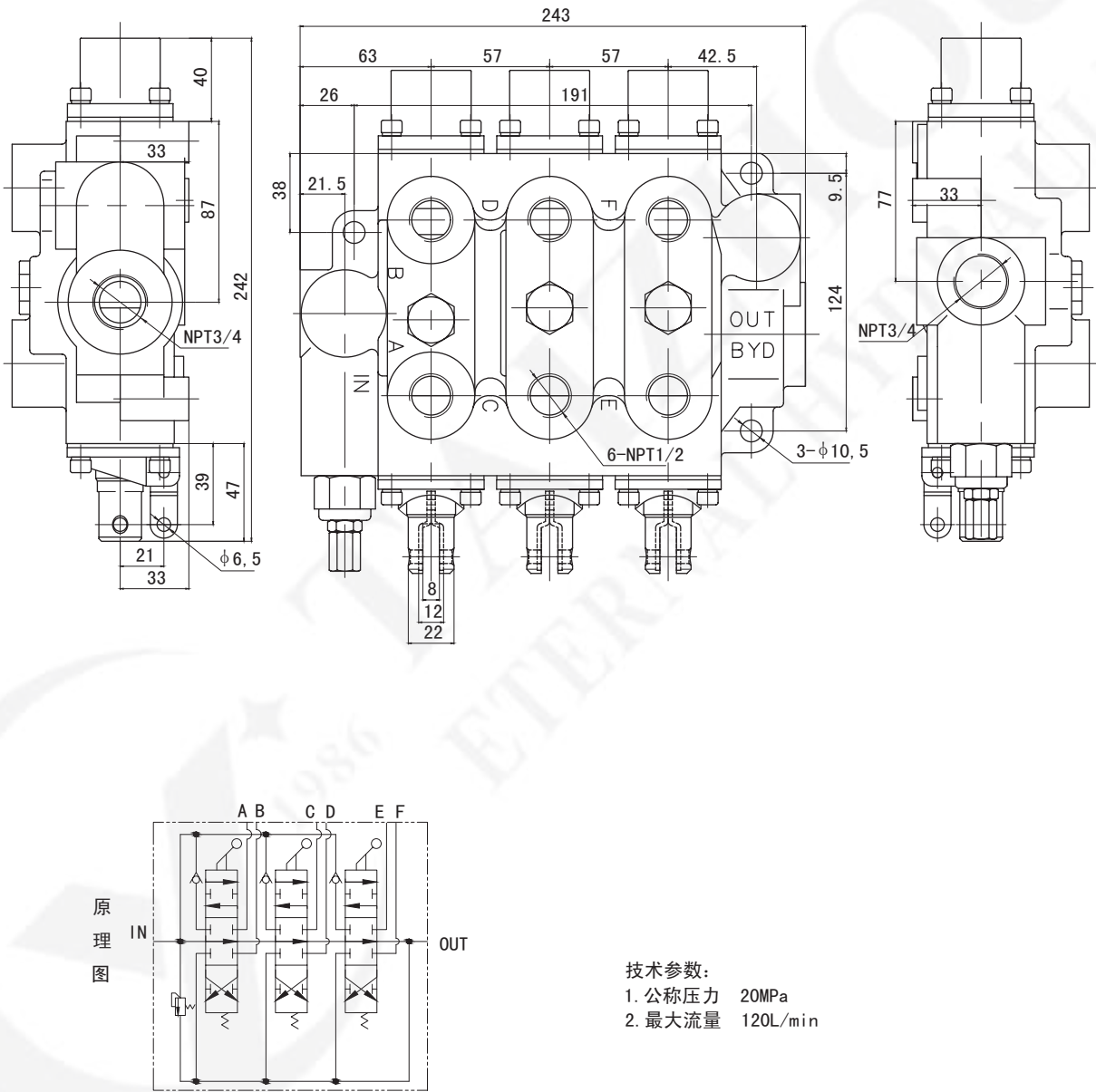
RD5200外形安装连接尺寸/MODEL RD5200 DIMENSIONAL DATA



RD5000系列整体阀

RD5000 Series Monoblock Directional Control Valves

RD5300外形安装连接尺寸/MODEL RD5300 DIMENSIONAL DATA



DL 系列分片式多路阀

DL Series Sectional Directional Control Valves

用途与特征/APPLICATIONS&FEATURES

DL系列多路换向阀是由多个换向阀和安全阀及各种附加组合阀组合而成。它具有工作压力高、结构紧凑、安全阀性能好、可靠性高、不易外漏、通用性好等特点。它主要用于ZL40以下装载机、小型挖掘机等工程机械的液压系统中，也用于起重运输机械、矿山机械、农业机械或其他机械的液压系统中，实现多个执行机构的集中控制。

该系列多路阀每连都带单向阀。根据用户需要，可在任一工作腔和回油腔之间安装过载阀或补油阀。能够组成并联、串联或串并联复合油路，并有多滑阀机能、定位、复位方式及控制方式，也可利用过桥阀体或外接油口向其它机构提供油源，广泛地满足了不同主机的需要。

DL series sectional directional control valve consists of several check valves, safety valves and some additional combination valves. It has such characteristics as high working pressure, compact structure, good performance of relief valve, high reliability, uneasy leakage, good commonality, etc. It's mainly used in hydraulic systems of engineering machinery such as ZL40 loaders, mini-excavators, etc. The valves can also be used in hydraulic systems of crane and carriage machinery, mining machinery, agricultural machinery and so on to execute integrated control over several executive mechanism.

The DL series sectional directional control valves have a check valve in each piece. The overload valve and or make up valve can be installed between any working cell and returning cell according to the clients' demand. The circuit can be parallel connection, serial connection or compound connection. There are several spool functions, positioning and returning modes and control modes. Oil may be also supplied to other mechanism through interim valve or external oil port, so as to meet a variety of different customers' needs.

性能参数/SPECIFICATIONS

型号 Model	公称通径 Nom. Dim (mm)	最大压力 Max. pressure (Mpa)	公称流量 Nom. flow (L/min)	允许背压 Allowabl Back pressure (Mpa)	油液 Hydraulic Oil			计算重量 Calculated weight(Kg)		
					温度范围 Tem.rang (°C)	粘度范围 Visc.rang (mm ² /s)	过滤精度 Filtrating accuracy (μm)	1 连 One piece	2 连 Two piece	n 连 n piece
DL15	15	31.5	63	≤2.5	-20~+80	10~400	≤10	12.4	17.7	7.1+ 5.3n
DL20	20		100					20	27.5	12.5+ 7.5n
DL25	25		160					29.2	42.8	15.6+ 13.6n

型号 Model	公称通径 Nom. Dim (mm)	先导液控压力 Pilot pressure (Mpa)	最小控气压力 Min.air pressure (Mpa)	安全阀及过载阀或二次压力阀的调压范围 Pressure range of relief valve, overload valve or secondary pressure valve (Mpa)				补油阀开启压力 Opening pressure of the make up valve (Mpa)
DL15	15	0.5~2.5	0.5	4~16	6~20	8~25	10~32	≤0.2
DL20	20							
DL25	25							

注：油液最高污染等级：按GB/T14039之19/16。

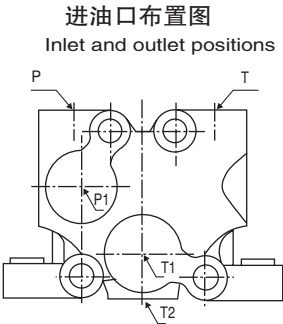
Note: Max, permissible degree of contamination of the oil is according to GB/T14039-19/16.

DL 系列分片式多路阀

DL Series Sectional Directional Control Valves

压力分级及进回油口位置/PRESSURE GRADE 、 INLET AND OUTLET POSITIONS 表1/Table 1

代号 Codet 位置 Position		压力分级 Pressure grade	安全阀压力 Safety valve pressure			
			16MPa	20MPa	25MPa	32MPa
P	T		E	F	G	H
P1	T		E1	F1	G1	H1
P	T1		E2	F2	G2	H2
P1	T2		E3	F3	G3	H3
P1	T1		E4	F4	G4	H4
P	T2		E5	F5	G5	H5
P	P1	T	E6	F6	G6	H6



注：P1为测压口时尺寸为M14X1.5
Note:P1-measuring pressure port,dim.:M14X1.5

滑阀机能及油路形式/SPOOL FUNCTION AND OIL CIRCUIT MODE 表2/Table 2

油路形式 Oil circuit modet	阀体形式 Valve body mode	滑阀机能 Spool function	代号 Code	机能符号 Spool fuction symbols
并联 Parallel	并联 阀体 Parallel valve baady	O	O	
		Y	Y	
		A	A	
		Q	Q	
		D	D	
		P	P	
串联 Serial	串联 阀体 Serial valve body	M	M	
		K	K	
串并联 Serial & parallel combine	串并联阀体 Serial valve body	O	Q	
		Y	Y	
		A	A	
		Q	Q	
		D	D	
		P	P	

DL 系列分片式多路阀

DL Series Sectional Directional Control Valves

A、B口带的辅助阀/AUXILIARY VALVE ON PORTS A & B

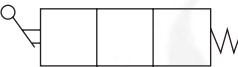
表3/Table 3

代号 Code		液压图形符号 Hydraulic graphic symbols	附带的辅助阀 Auxiliary valve	
过载阀压力与进油口安全阀压力相同 The overload valve has the same pressure as the relief valve at the inlet port	过载阀压力与进油口安全阀压力不相同 The overload valve has different pressure from the relief valve at the inlet port		A□	B□
无/No	无/No		无/No	无/No
1	1		无/No	过载阀 Overload valve
2	2		无/No	补油阀 Make up valve
3	3		过载阀 Overload valve	无/No
4	4		过载阀 Overload valve	过载阀 Overload valve
5	5		过载阀 Overload valve	补油阀 Make up valve
6	6		补油阀 Make up valve	无/No
7	7		补油阀 Make up valve	过载阀 Overload valve
8	8		补油阀 Make up valve	补油阀 Make up valve

DL 系列分片式多路阀

DL Series Sectional Directional Control Valves

控制及定位复位方式/CONTROLLING POSITIONING AND RETURNING MODES 表4/Table 4

序号 Sequential number	控制方式 Montral mode	代号 Code	定位复位方式 Positioning and returning modes	图形符号 Graphical symbols
1	手动控制 Mandual control	T	三位弹簧复位 Three positions spring returning	
2		W	三位钢珠复位 Three positions ball locking	
3		<u>W</u>	四位钢珠复位 Four positions ball locking	
4	手动气动控制	Q	三位手动控制 Three position mandnal control	
5	液压控制 Hydraulic control	U	三位弹簧复位 Three positions spring returning	

DL-※15系列多路换向阀 DL-※15 Series Sectional Directional Control Valve



用途与特征/APPLICATIONS&FEATURES

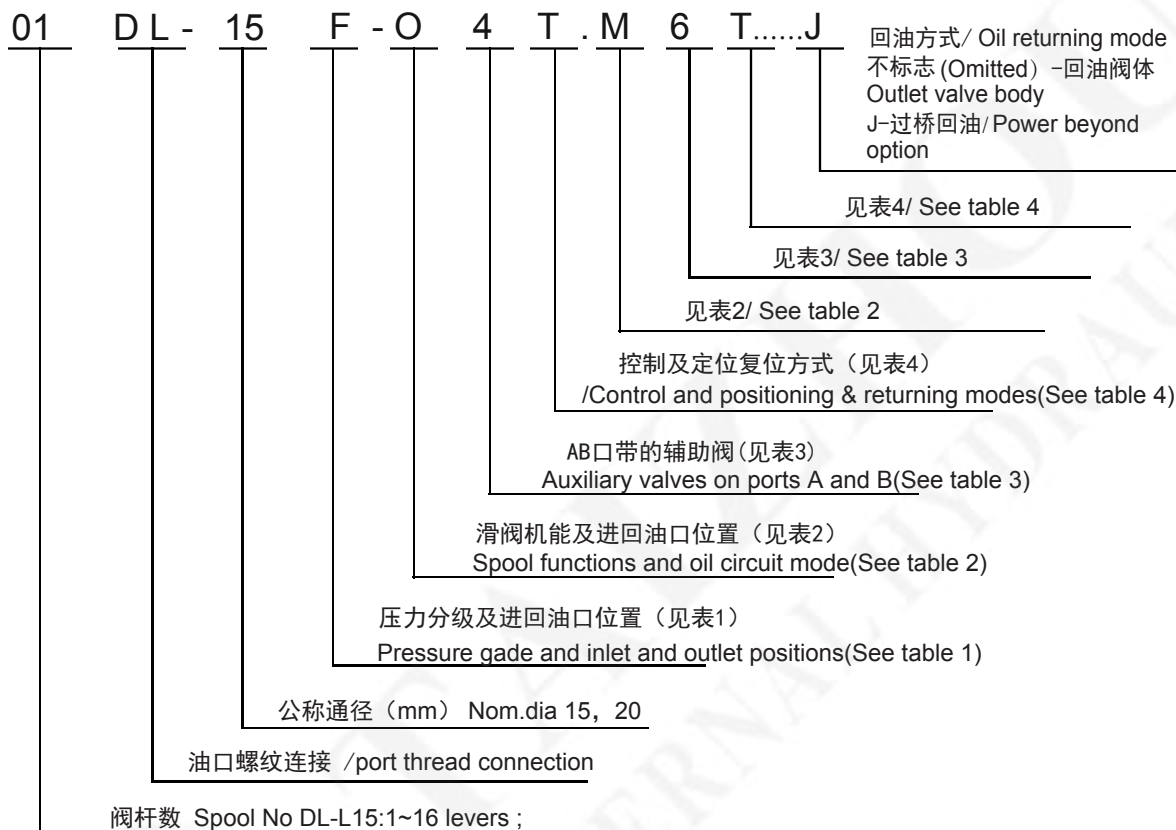
DL-※15系列多路换向阀是由单向阀、安全阀、进油体、回油体和多个换向阀片组合而成的组合阀，以手动换向阀为主。它具有结构紧凑、工作压力高、性能优异、工作可靠等特点。油路采用并联油路。有多种滑阀技能供系统需要。阀杆复位方式采用手动换向弹簧自动复位或钢珠定位。阀片内部设置单向阀，以防止油液倒流。进油阀片带有溢流阀，以控制整个系统压力。根据用户需要，换向阀片两端可装有过载阀以满足不同执行机构负载需要。该阀广泛用子叉车、环保车等工程机械的液压系统。

DL-※15 series sectional directional control valve is assembled with check valve, safety valve, inlet slice, outlet slice and working slices. It has such characteristics as compact structure, high working pressure, good performance, high reliability, etc. The circuit is parallel connection. There are many spool functions options. The positioning and returning modes of the valve handle include spring returning and detent control. There is a check valve inside the working slice in case of back flow. There is a relief valve in the inlet slic to control the whole system pressure. The overload valves are available to be assembled on A, B port to meet different requests. The valve is widely used in such hydraulic systems of engineering machinery as forklift,environmental trucks, etc.

DL-L15 系列分片式多路阀

DL-L15 Series Sectional Directional Control Valves

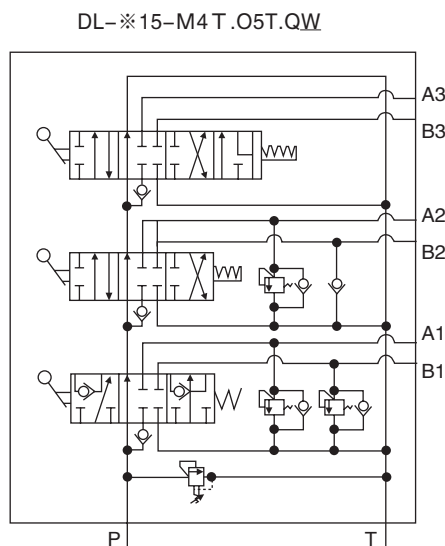
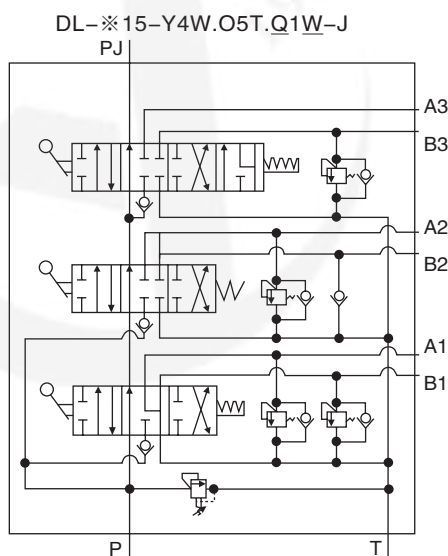
型号说明/MODEL CODE



注：订货有特殊要求者，请与销售顾问联系。

Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

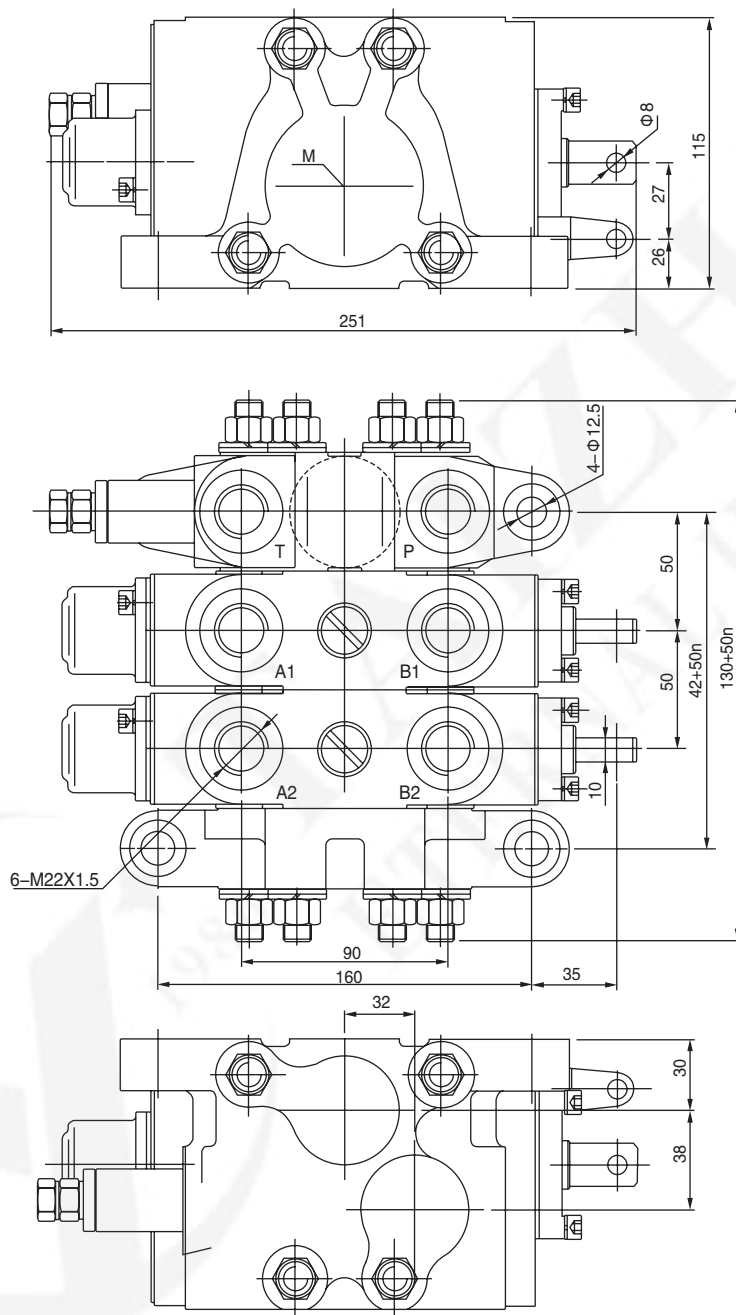
型号举例/MODEL EXAMPLES



DL-L15 系列分片式多路阀

DL-L15 Series Sectional Directional Control Valves

DL-L15外形安装连接尺寸/MODEL DL-L15 DIMENSIONAL DATA



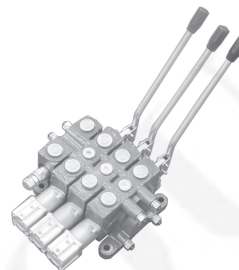
注：M为过桥油口连接尺寸,n表示多路换向阀连数片
Note:M indicates the connecting dimension for interim valve port and n is the number of direction valve pieces.

SQDL-L15 手气控分片式多路阀

SQDL-L15 Series Manual-Pneumatic Control Valves

用途与特征/APPLICATIONS&FEATURES

SQDL-L15气控系列多路阀是在DL-L15手动控制系列的基础上改进而来。它主要是改变了手动换向阀的操纵机构，在手动的基础上增加了气动控制，能够更好地实现远程控制。SQDL-L15气控系列多路阀的回油端设置了压力输出口，可与其他液压元件串联使用。该阀具有结构紧凑，工作压力高，性能好，工作可靠，可实现多个执行机构的近、远程控制的优点。根据用户需要，换向阀的操纵机构可以和普通手动控制进行任意组合。该阀广泛应用于工程机械、环卫机械、矿山机械和其他机械的液压系统。



SQDL-L15 series pneumatic control valves are developed on SQDL-L15 manual control valves. It changed the control way of these valves, especially, it can be controlled by remote control with the pneumatic control way. The power beyond function is on the SQDL-L15 series, it is able to be connected with other hydraulic valves in series. The features of SQDL-L15 pneumatic control valves are compact construction, high working pressure, better functions, reliable working, remote controlling and etc. Besides that, the manual control can be used with the pneumatic control together. The valves are widely used on mechanical machines, sanitation machines, mining machines and other machines' hydraulic systems.

◆ 内置单向阀：阀体内置单向阀，防止油液倒流

Inner check valve: The check valve inside the valve body is to insure the hydraulic oil not to be returned.

◆ 内置安全阀：阀体内置溢流阀，可调节控制系统压力

Inner relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.

◆ 油路形式：并联油路，带压力输出口

Oil way: Parallel circuit, with power beyond.

◆ 控制方式：气控换向，也可手动换向

Control Way: pneumatic control, manual control

◆ 阀体结构：分片结构，1-10联任意组合

Valve construction: sectional construction, 1-10 levers are available to assembled as you requests.

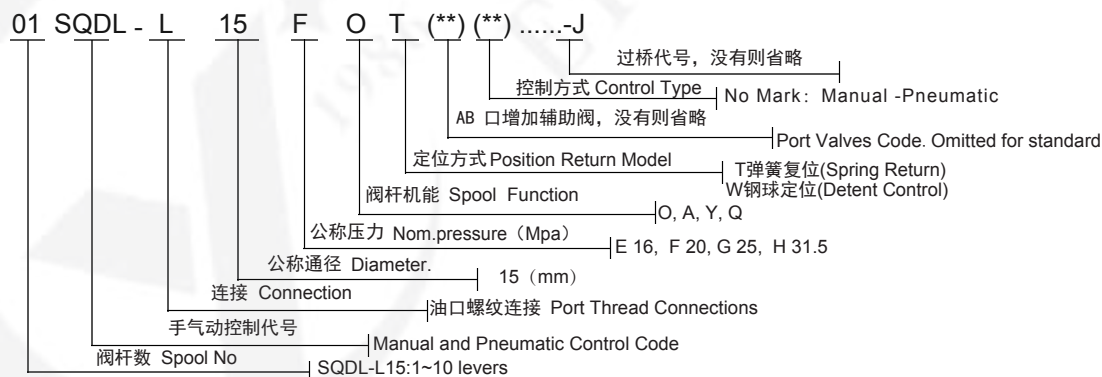
◆ 阀杆机能：O、A、Y等

Spool Function: O, A, Y etc.

◆ 附加阀：换向阀的两端，根据需要可增加过载阀或者补油阀

Options of valves: The overload valves and make-up valve can be fitted on the two ends of the valve body.

型号说明/MODEL CODE



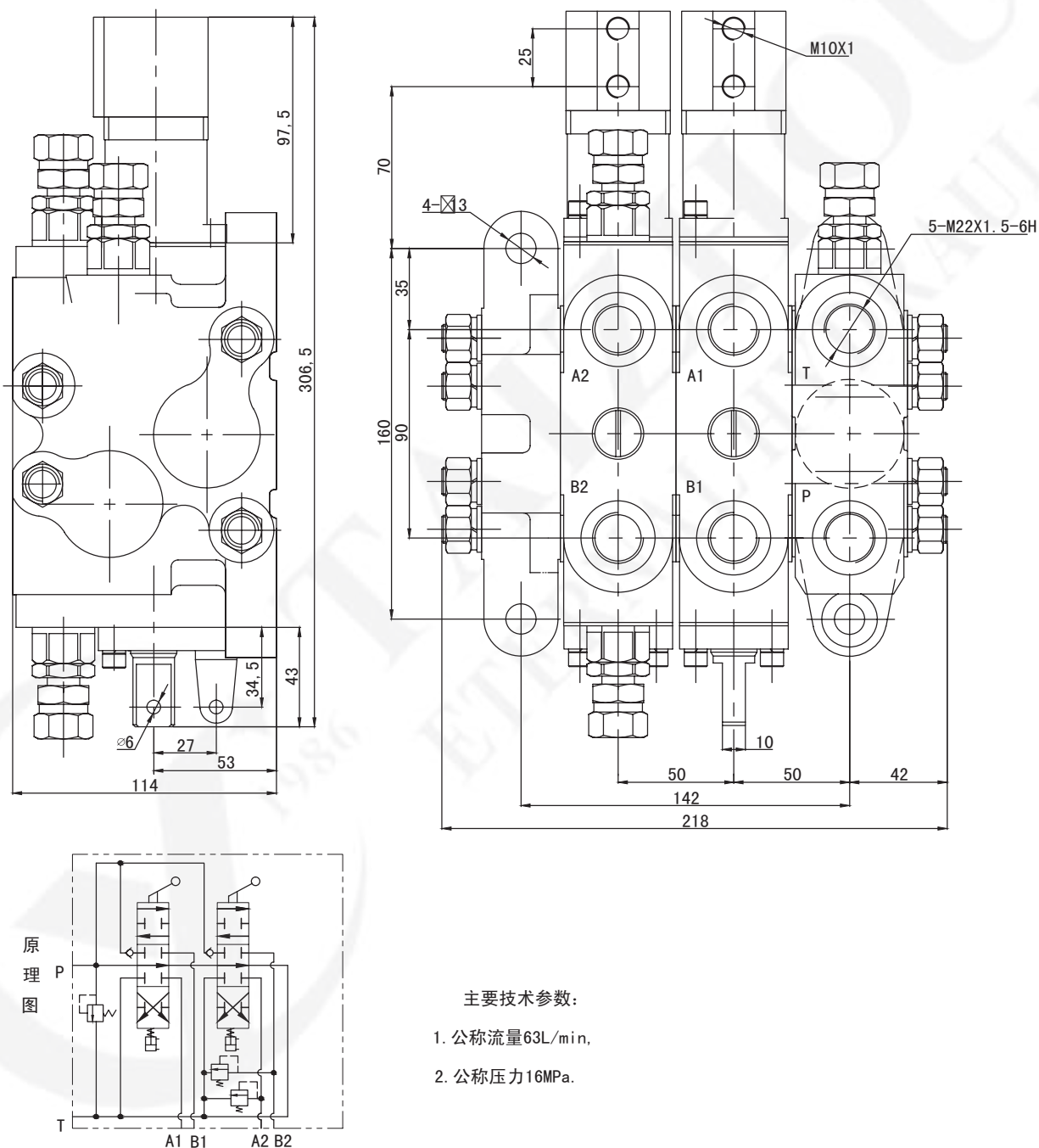
技术参数/PARAMETERS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	中位背压 (MPa) Back Pressure	工作油液 hydraulic oil		
				温度范围 (℃) Tem.rang	粘度范围 (mm ² /S) Visc.rang	过滤精度 (μm) filtrating accuracy
20	31	63	≤1	-20 ~ +80	10 ~ 400	≤10

SQDL-L15 手气控分片式多路阀

SQDL-L15 Series Manual-Pneumatic Control Valves

SQDL-L15外形安装连接尺寸/MODEL SQDL-L15 DIMENSIONAL DATA



主要技术参数:

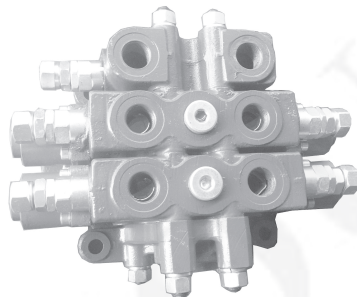
1. 公称流量63L/min,
2. 公称压力16MPa.

YDL-L15液控片式多路阀

YDL-L15 Series Hydraulic Control Directional Control Valves

用途与特征/APPLICATIONS&FEATURES

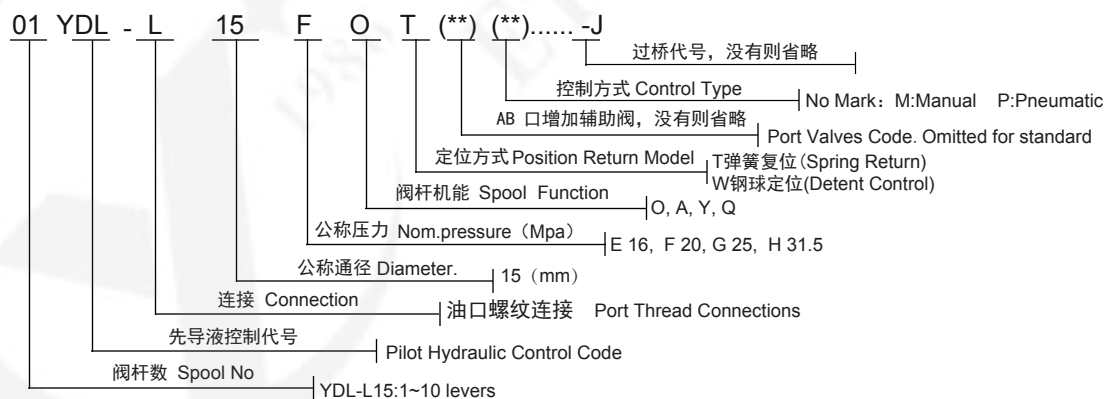
YDL-L15先导液控系列多路阀是在DL-L15手动控制系列的基础上开发而来。它主要是由手动换向阀改进为液控先导控制，解决了手动操纵力大的缺点，并且能够地实现远程控制。YDL-L15系列多路阀的回油端设置了压力输出口，可与其他液压元件串联使用。该阀具有结构紧凑，工作压力高，性能好，工作可靠，可实现多个执行机构的远程控制的优点。该阀广泛应用于工程机械、环卫机械、矿山机械和其他机械的液压系统。



YDL-L15 series pilot hydraulic directional control valves are developed on DL-L15 manual control valves. It changed the control way from manual to pilot hydraulic which improves the heavy manual control situation. Especially, it can be controlled by remote control with the pilot hydraulic control way. The power beyond function is on the YDL-L15 series, it is able to be connected with other hydraulic valves in series. The features of YDL-L15 pilot hydraulic control valves are compact construction, high working pressure, better working performance, reliable working, remote controlling and etc. Besides that, it realize to control many working functions by remote control. The valves are widely used on mechanical machines, sanitation machines, mining machines and other machines' hydraulic systems.

- ◆ 内置单向阀：阀体内置单向阀，防止油液倒流
Inner check valve: The check valve inside the valve body is to insure the hydraulic oil not to be returned.
- ◆ 内置安全阀：阀体内置溢流阀，可调节控制系统压力
Inner relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.
- ◆ 油路形式：可实现并联、串联或串并联复合油路，带压力输出口
Oil way: Parallel circuit, series circuit and composite with both circuit with power beyond.
- ◆ 控制方式：气控换向，也可手动换向
Control Way: pneumatic control, manual control
- ◆ 阀体结构：分片结构，1-10联任意组合
Valve construction: sectional construction, 1-10 levers are available to assembled as you requests.
- ◆ 阀杆机能：O、A、Y等
Spool Function: O,A,Y etc.
- ◆ 附加阀：换向阀的两端，根据需要可增加过载阀或者补油阀
Options of valves: The overload valves and make-up valve can be fitted on the two ends of the valve body.

型号说明/MODEL CODE



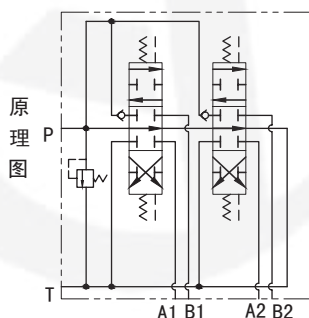
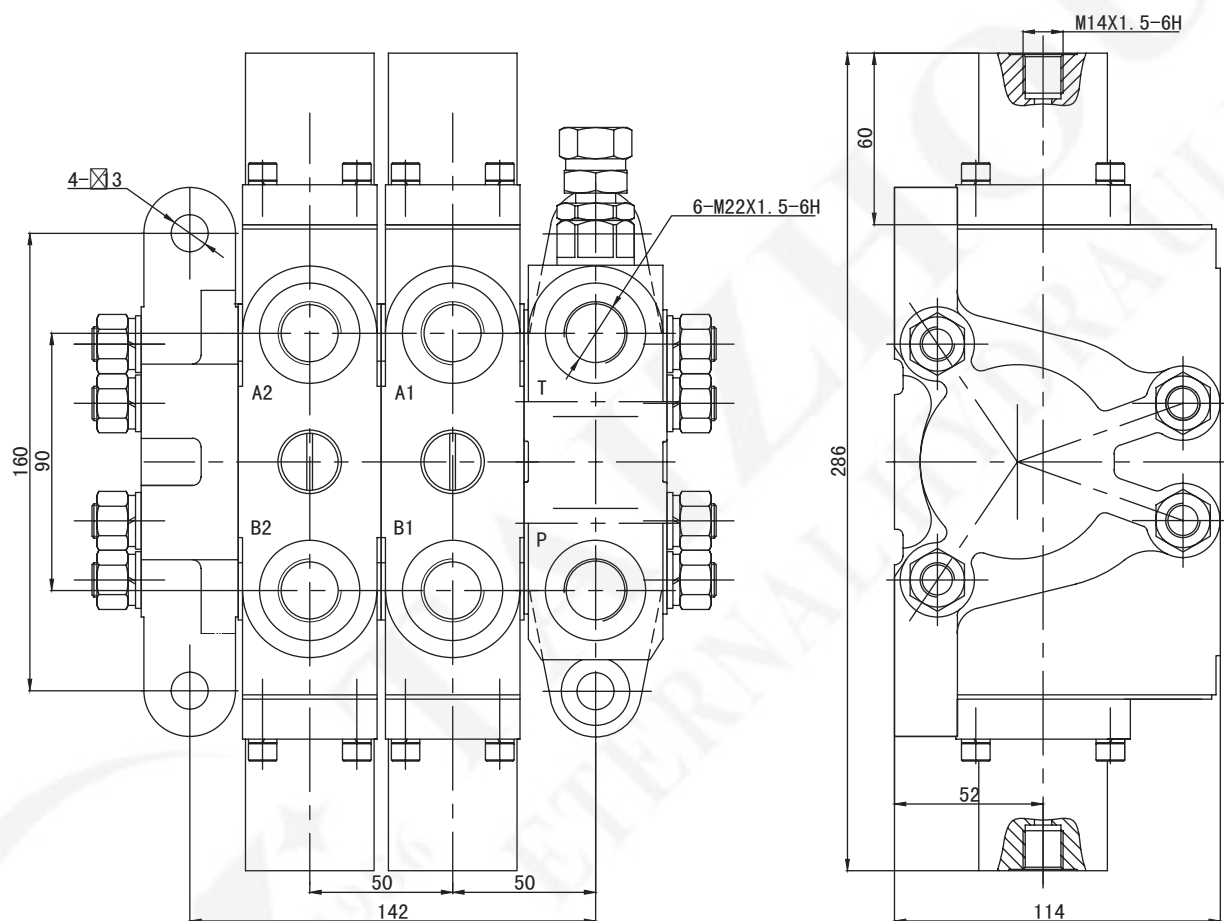
技术参数/PARAMETERS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	中位背压 (MPa) Back Pressure	工作油液 hydraulic oil		
				温度范围 (℃) Tem.rang	粘度范围 (mm ² /S) Visc.rang	过滤精度 (μm) filtrating accuracy
20	31	63	≤1	-20 ~ +80	10 ~ 400	≤10

YDL-L15液控片式多路阀

YDL-L15 Series Hydraulic Control Directional Control Valves

YDL-L15 外形安装连接尺寸/MODEL YDL-L15 DIMENSIONAL DATA



主要技术参数:

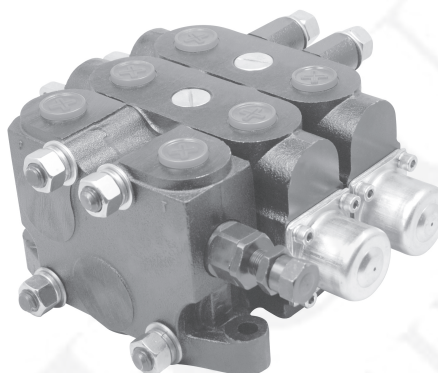
1. 公称通径: 15mm,
2. 公称流量: 63L/min,
3. 额定压力: 20MPa

DL-20 系列分片式多路阀

DL-20 Series Sectional Directional Control Valves

用途与特征/APPLICATIONS&FEATURES

DL-20系列多路换向阀是由单向阀、安全阀、进油体、回油体和多个换向阀组合起来的组合阀，以手动换向阀为主。它具有结构紧凑、工作压力较高、性能好、工作可靠等特点。广泛应用于叉车、装载机、挖掘机、起重机、压路机等工程机械及矿山、轻工、环卫、农机等行业。用以改变液流方向，实现多个执行机构的集中控制。

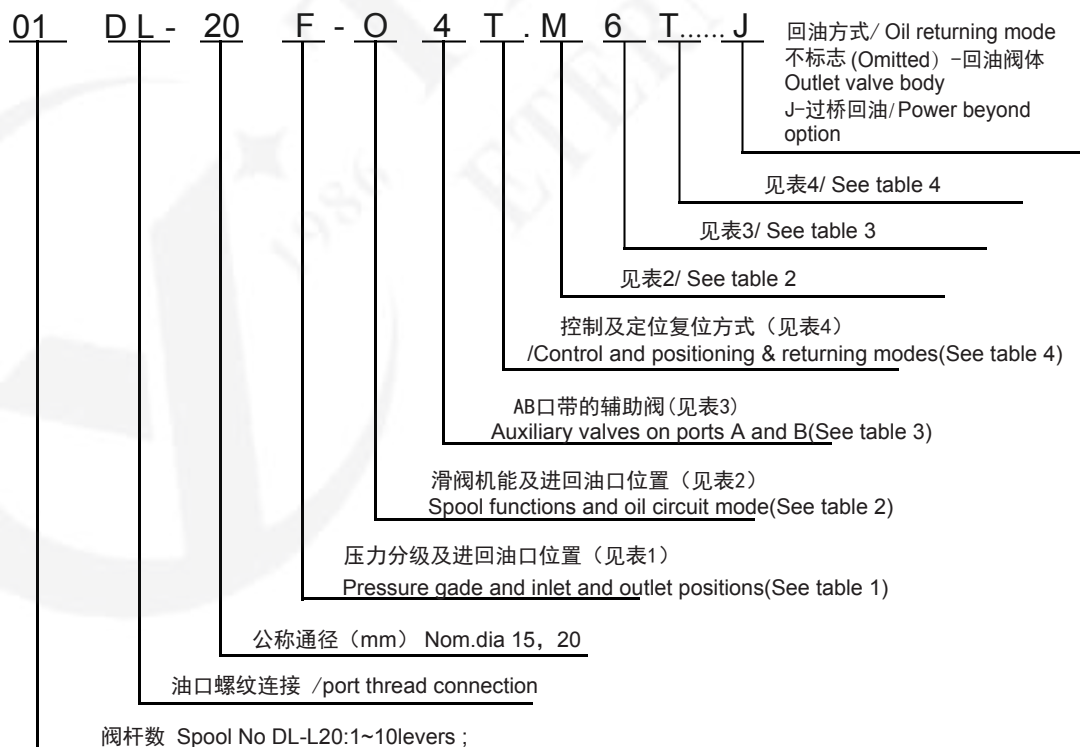


Model DL-20 sectional directional control valves with mainly manual control are assembled with check valves, relief valves, inlet slice, outlet slice and working slices.

Model DL-L20 features:

- ◆ Inner check valve: The check valve inside the valve body is to insure the hydraulic oil not to be returned.
- ◆ Inner relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.
- ◆ Oil way: Parallel circuit, series circuit and composite with both circuit with power beyond.
- ◆ Control Way: pneumatic control, manual control
- ◆ Valve construction: sectional construction, 1-10 levers are available to assembled as you requests.
- ◆ Spool Function: O, A, Y etc.
- ◆ Options of valves: The overload valves and make-up valve can be fitted on the two ends of the valve body.

型号说明/MODEL CODE



注：订货有特殊要求者，请联系销售顾问。

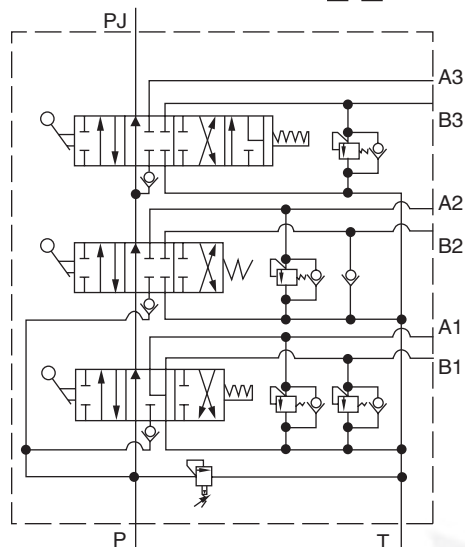
Note: Special features not listed can often be made to your specifications, please consult your sales representative.

DL-20 系列分片式多路阀

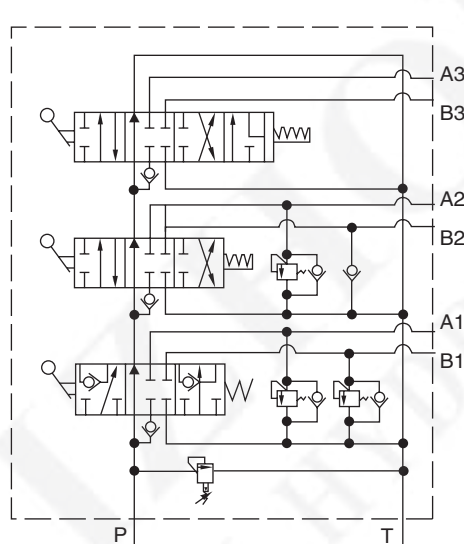
DL-20 Series Sectional Directional Control Valves

型号举例/MODEL EXAMPLES

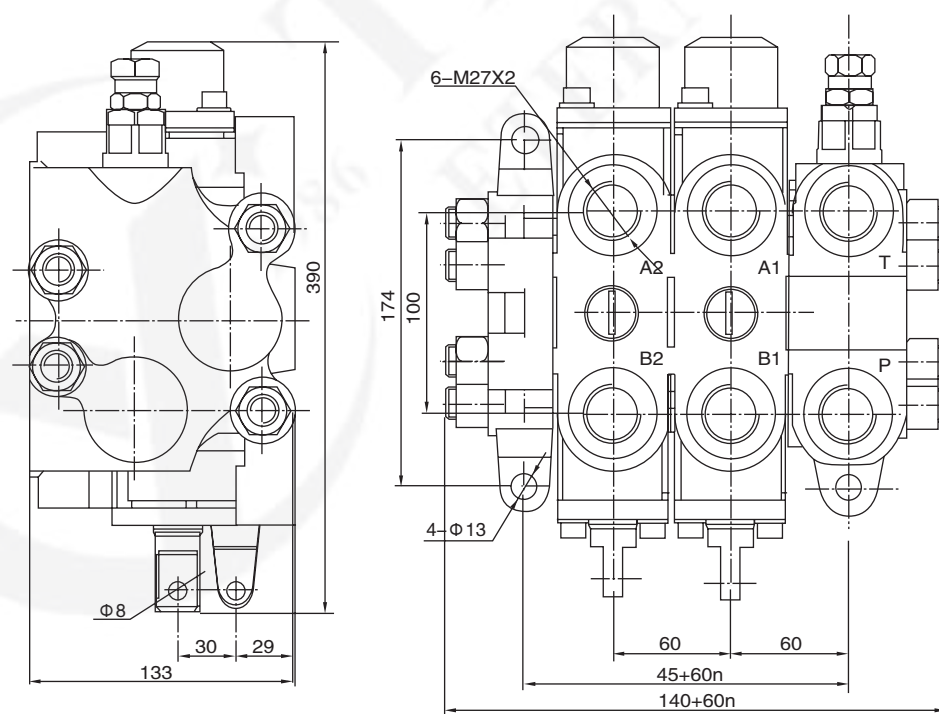
DL-※20-Y4W. O5T. Q1W-J



DL-※20-M4T. O5T. QW



DL-20外形安装连接尺寸/MODEL DL-20 DIMENSIONAL DATA



注：n表示多路换向阀连数片
Note: n is the number of direction valve pieces.

SQDL-L20手气控分片式多路阀

SQDL-L20 Manual and Pneumatic Control Valves

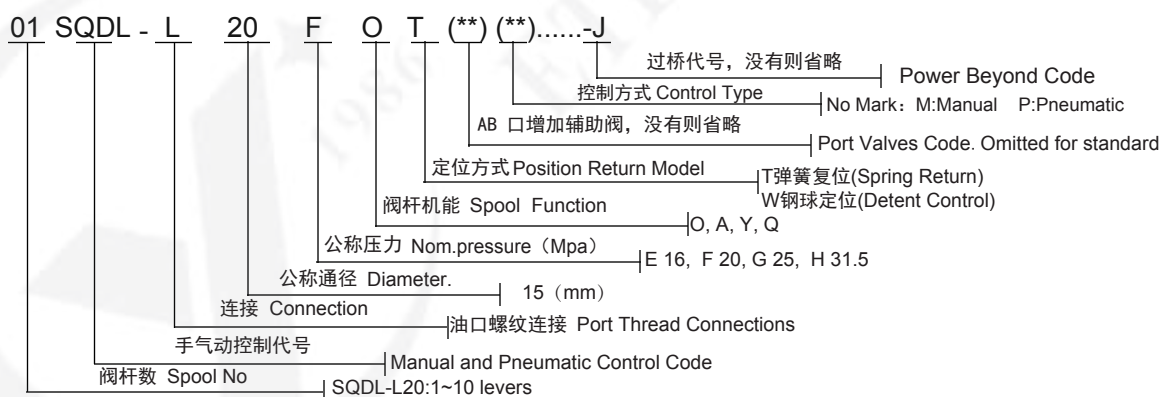
用途与特征/APPLICATIONS&FEATURES

SQDL-L20气控系列多路阀是在DL-L20手动控制系列的基础上改进而来。它主要是改变了手动换向阀的操纵机构，在手动的基础上增加了气动控制，能够更好地实现远程控制。SQDL-L20气控系列多路阀的回油端设置了压力输出口，可与其他液压元件串联使用。该阀具有结构紧凑，工作压力高，性能好，工作可靠，可实现多个执行机构的近、远程控制的优点。根据用户需要，换向阀的操纵机构可以和普通手动控制进行任意组合。该阀广泛应用于工程机械、环卫机械、矿山机械和其他机械的液压系统。

SQDL-L20 series pneumatic control valves are developed on SQDL-L20 manual control valves. It changed the control way of these valves, especially, it can be controlled by remote control with the pneumatic control way. The power beyond function is on the SQDL-L20 series, it is able to be connected with other hydraulic valves in series. The features of SQDL-L20 pneumatic control valves are compact construction, high working pressure, better functions, reliable working, remote controlling and etc. Besides that, the manual control can be used with the pneumatic control together. The valves are widely used on mechanical machines, sanitation machines, mining machines and other machines' hydraulic systems.

- ◆ 内置单向阀：阀体内置单向阀，防止油液倒流
Inner check valve: The check valve inside the valve body is to insure the hydraulic oil not to be returned.
- ◆ 内置安全阀：阀体内置溢流阀，可调节控制系统压力
Inner relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.
- ◆ 油路形式：并联油路，带压力输出口
Oil way: Parallel circuit, with power beyond.
- ◆ 控制方式：气控换向，也可手动换向
Control Way: pneumatic control, manual control
- ◆ 阀体结构：分片结构，1-10联任意组合
Valve construction: sectional construction, 1-10 levers are available to assembled as you requests.
- ◆ 阀杆机能：O、A、Y等
Spool Function: O, A, Y etc.
- ◆ 附加阀：换向阀的两端，根据需要可增加过载阀或者补油阀
Options of valves: The overload valves and make-up valve can be fitted on the two ends of the valve body.

型号说明/MODEL CODE



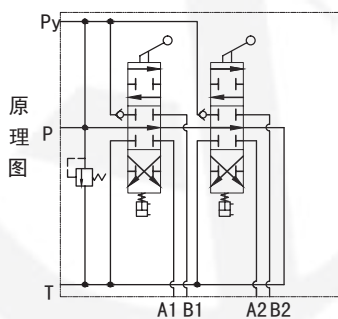
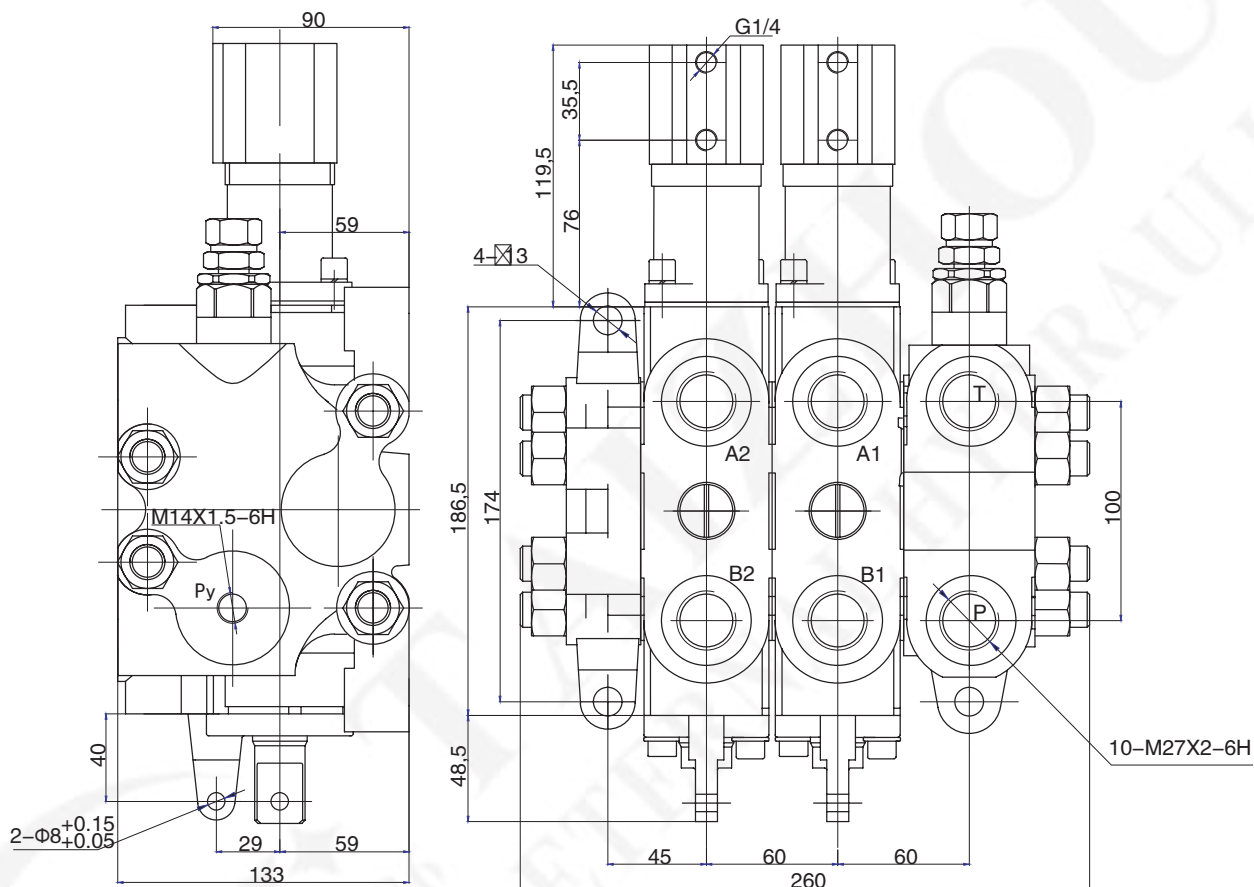
技术参数/PARAMETERS

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	中位背压 (MPa) Back Pressure	工作油液hydraulic oil		
				温度范围 (℃) Tem.rang	粘度范围 (mm ² /S) Visc.rang	过滤精度 (μm) filtrating accuracy
20	31	100	≤1	-20 ~ +80	10 ~ 400	≤10

SQDL-L20手气控分片式多路阀

SQDL-L20 Manual and Pneumatic Control Valves

SQDL-L20 外形安装连接尺寸/MODEL SQDL-L20 DIMENSIONAL DATA



技术参数:

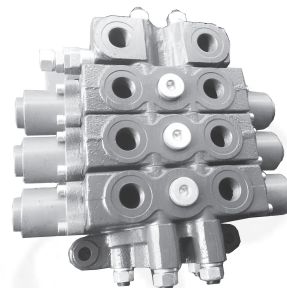
1. 公称流量 100L/min
2. 公称压力 18MPa

YDL-L20液控片式多路阀

YDL-L20 series Pilot Hydraulic Directional Control Valves

用途与特征/APPLICATIONS&FEATURES

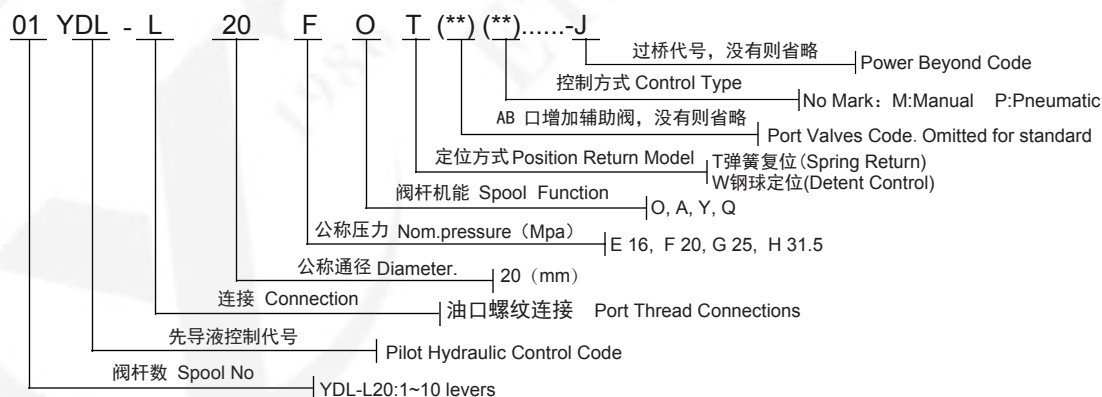
YDL-L20先导液控系列多路阀是在DL-L20手动控制系列的基础上改进而来。它主要是由手动换向阀改进为液控先导控制，解决了手动操纵力大的缺点，并且能够更好地实现远程控制。YDL-L20先导液控系列多路阀的回油端设置了压力输出口，可与其他液压元件串联使用。该阀具有结构紧凑，工作压力高，性能好，工作可靠，可实现多个执行机构的近、远程控制的优点。根据用户需要，换向阀的操纵机构可以和普通手动控制进行任意组合。该阀广泛应用于工程机械、环卫机械、矿山机械和其他机械的液压系统。



YDL-L15 series pilot hydraulic directional control valves are developed on DL-L15 manual control valves. It changed the control way from manual to pilot hydraulic which improves the heavy manual control situation. Especially, it can be controlled by remote control with the pilot hydraulic control way. The power beyond function is on the YDL-L15 series, it is able to be connected with other hydraulic valves in series. The features of YDL-L15 pilot hydraulic control valves are compact construction, high working pressure, better working performance, reliable working, remote controlling and etc. Besides that, it realizes to control many working functions by remote control. The valves are widely used on mechanical machines, sanitation machines, mining machines and other machines' hydraulic systems.

- ◆ 内置单向阀：阀体内置单向阀，防止油液倒流
Inner check valve: The check valve inside the valve body is to insure the hydraulic oil not to be returned.
- ◆ 内置安全阀：阀体内置溢流阀，可调节控制系统压力
Inner relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.
- ◆ 油路形式：可实现并联、串联或串并联复合油路，带压力输出口
Oil way: Parallel circuit, series circuit and composite with both circuit with power beyond.
- ◆ 控制方式：气控换向，也可手动换向
Control Way: pneumatic control, manual control
- ◆ 阀体结构：分片结构，1-10联任意组合
Valve construction: sectional construction, 1-10 levers are available to assembled as you requests.
- ◆ 阀杆机能：O、A、Y等
Spool Function: O, A, Y etc.
- ◆ 附加阀：换向阀的两端，根据需要可增加过载阀或者补油阀
Options of valves: The overload valves and make-up valve can be fitted on the two ends of the valve body.

型号说明/MODEL CODE



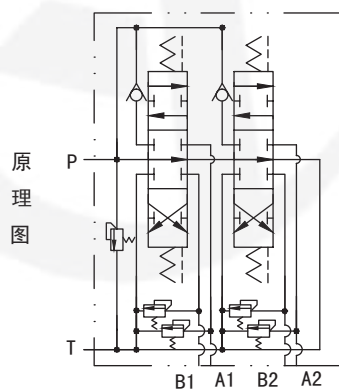
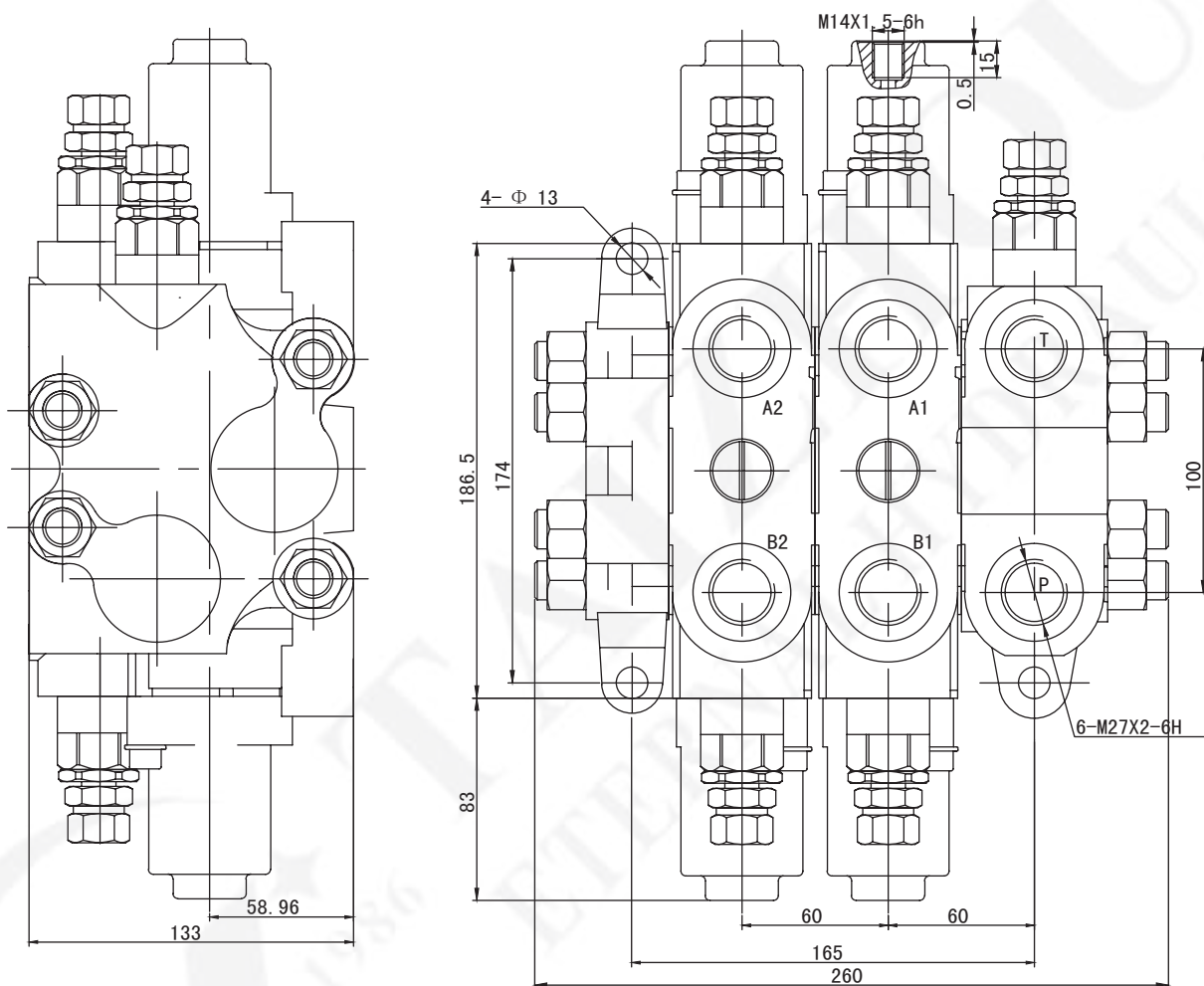
技术参数/PARAMETER

公称压力 (MPa) Nom. Pressure	最大压力 (MPa) Max. Pressure	公称流量 (L/min) Nom. Flow rate	中位背压 (MPa) Back Pressure	工作油液 hydraulic oil		
				温度范围 (℃) Tem.rang	粘度范围 (mm ² /S) Visc.rang	过滤精度 (μm) filtrating accuracy
20	31	100	≤1	-20 ~ +80	10 ~ 400	≤10

YDL-L20液控片式多路阀

YDL-L20 series Pilot Hydraulic Directional Control Valves

YDL-L20 外形安装连接尺寸/MODEL YDL-L20 DIMENSIONAL DATA



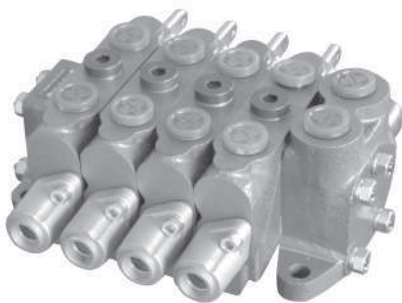
技术要求:

1. 额定通径: 20mm,
2. 额定压力: 20MPa,
3. 公称流量: 100L/min.

DL-8系列分片式多路阀

DL-8 Series Sectional Directional Control Valves

用途与特征/APPLICATIONS&FEATURES



DL-8型多路换向阀是片式结构的多路阀，该阀参照多田野汽车起重机下车阀改进设计而成。它主要用于控制汽车起重机支腿的伸缩，设计中除保证原有性能外，还注重考虑了加大通往上车的油路通道，使中位压力损失大为下降，减小了系统的发热。通过各种实验和用户证明，DL-8型多路阀完全能替代多田野汽车起重机下车阀，实现了进口元件的国产化。DL-8型多路阀还可以应用于其他工程机械的液压系统中。

DL-8型多路阀是片式组装结构，是由进油体，工作阀体以及回油体组装而成，阀杆机能O、A、P、Y等机能，可根据客户需求，工作阀体1-9路任意组合。其安全阀结构紧凑，启闭性能好，噪声小。DL-8型多路阀为手动操纵，具有操纵轻便、换向灵活、定位可靠等特点。安全阀结构紧凑，启闭性能好，噪声小。DL-8型多路阀为手动操纵，具有操纵轻便、换向灵活、定位可靠等特点。

Model DL-8 sectional directional control valve is designed according to the directional control valves of the TADANO crane's hydraulic legs. It is mainly used for operating the crane's hydraulic leg extension. Model DL-8 can replace the imported control valves on cranes. Meanwhile, this model can be used on other construction machinery hydraulic systems.

Model DL-8 is assembled by inlet slice, outlet slice and working slices. The O,P,Y,A spool functions are available. And the levers from 1-10 are for options. The features of DL-8 are compact construction, lower noises. And The manual control is easy to operate and change.

性能参数/SPECIFICATIONS

公称通径 Nom. Dia (mm)	公称压力 Nom pressure (Mpa)	公称流量 Nom. flow (L/min)	安全阀调压范围 Pressure range of safety valve	液控单向阀开锁压力 Pilot operated check valve releasing pressure (mL/min)
8	20	30	6~25	≤2.8
工作油液 Hydraulic Oil		温度范围 Tem.range (°C)	粘度范围 Visc.range (mm ² /s)	过滤精度 Filtrating accuracy (μm)
		-20~+80	10~400	≤10

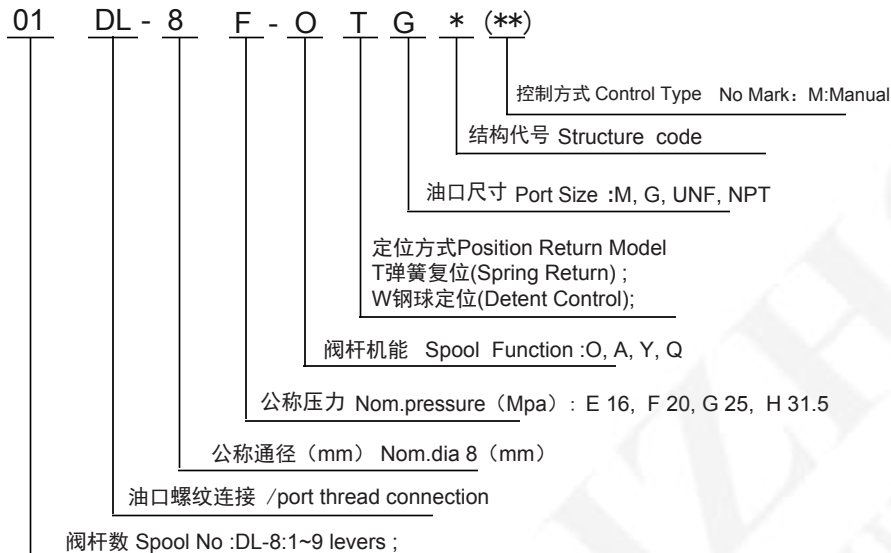
注：油液最高污染等级：按GB/T14039之19/16。

Note: maximum permissible degree of contamination of the oil is according to GB/T14039-19/16.

DL-8系列分片式多路阀

DL-8 Series Sectional Directional Control Valves

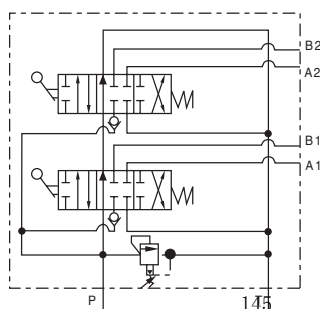
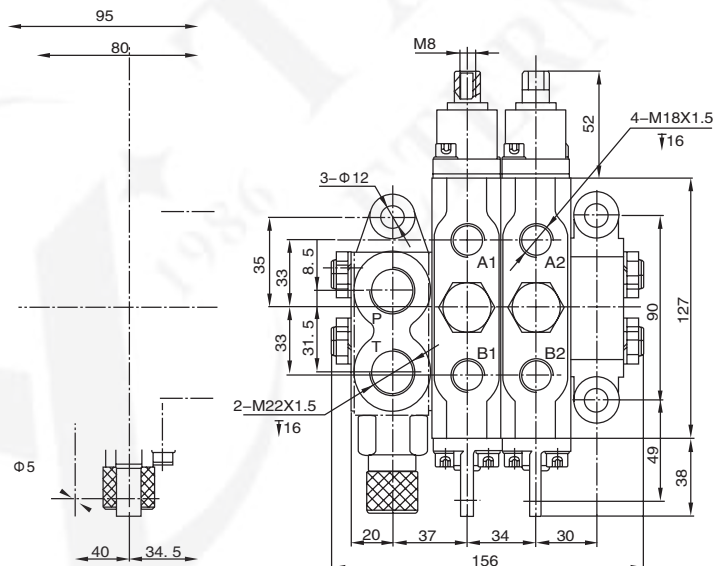
型号说明/MODEL CODE



注：订货有特殊要求者，请与销售顾问联系。

Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

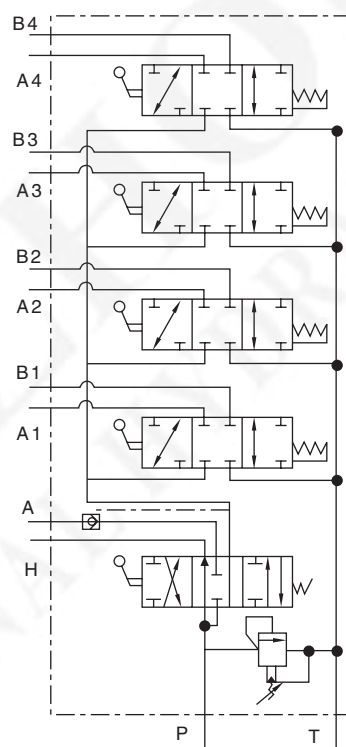
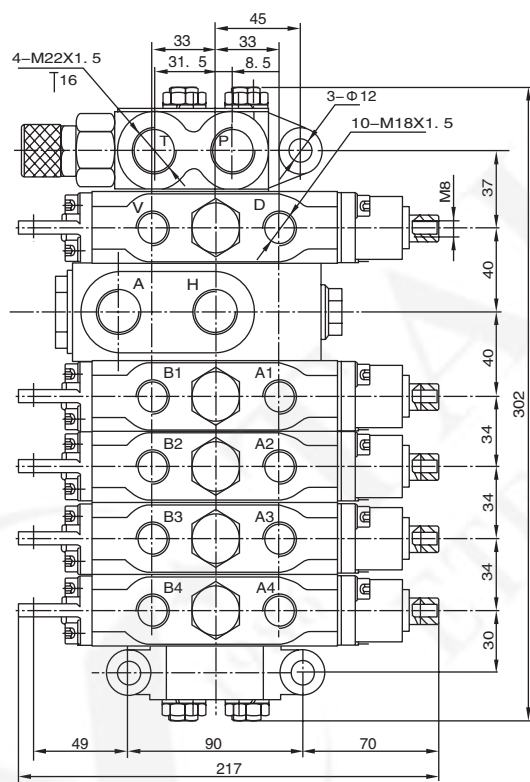
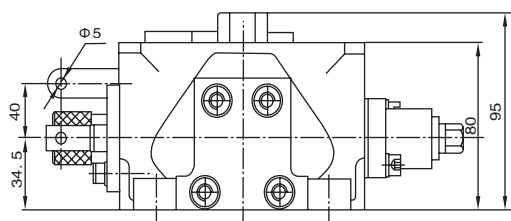
DL-8J 外形安装连接尺寸/MODEL DL-8J DIMENSIONAL DATA



DL-8系列分片式多路阀

DL-8 Series Sectional Directional Control Valves

DL-8M 外形安装连接尺寸/MODEL DL-8M DIMENSIONAL DATA



备注

1. 此阀在出厂时不配操纵手柄，但本公司可以根据客户的需要定做手柄，如有需要请与公司联系。
2. 客户应尽可能的使用在进油盖和回油盖上的安装孔进行固定。各种阀片进行多重组合能产生不同的效果，客户可选用已提供的型号。若客户有其他的要求可以与销售顾问进行联系。

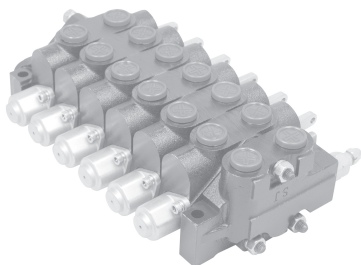
Note:

1. No handle levers will be provided with the valves. But we can make the handle levers to your requests. If required, please contact with your sales representative.
2. The customers should fix the valves by the assembling holes on the inlet and outlet slices. Different effectual maybe achieved by different working slices. Speical features not listed can often be made to your specifications, please consult your sales representative.

DF-50系列分片式多路阀

DF-50 Series Sectional Directional Control Valves

用途与特征/APPLICATIONS&FEATURES



DF-50型多路阀是并联式手动换向阀，具有高度集成的结构，压力损失小，工作可靠，安装维修方便等特点，可实现多个执行机构的集中控制，可按不同的使用要求组合功能阀片。该系列多路阀每连都带单向阀。根据用户需要，可在任一工作腔和回油腔之间安装过载阀或补油阀，单双作用调节手柄可以根据机型的不同进行互相转换。DF50系列多路阀广泛应用于各类行走机械中。

Model DF-50 features:

- ◆ Inner check valve: The check valve inside the valve body is to insure the hydraulic oil not to be returned.
- ◆ Inner relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.
- ◆ Oil way: Parallel circuit, power beyond for option.
- ◆ Control Way: manual control
- ◆ Valve construction: sectional construction, 1-10 levers are available to assembled as you requests.
- ◆ Spool Function: O,A,Y ,P, Q etc.
- ◆ Options of valves: The overload valves and make-up valve can be fitted on the two ends of the valve body.

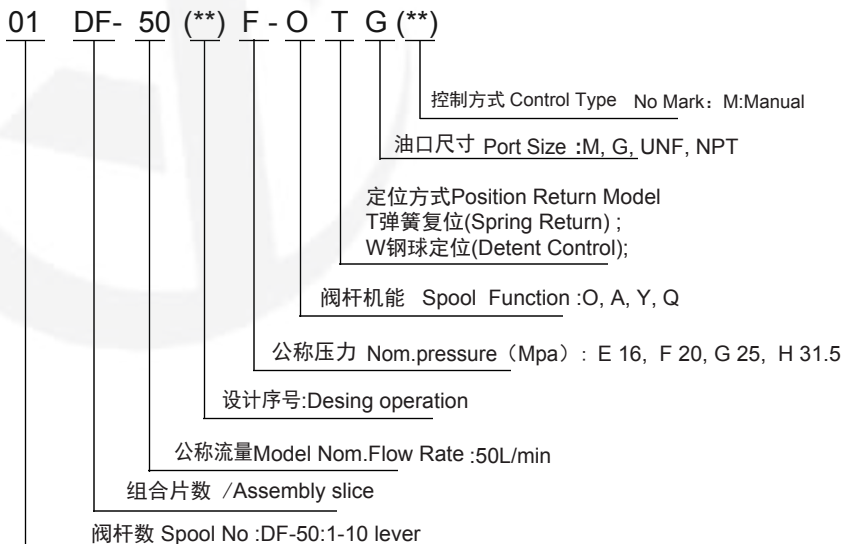
性能参数/SPECIFICATIONS

公称压力 Nom. pressure (Mpa)	最大压力 Max. pressure (Mpa)	公称流量 Nom. flow (L/min)	允许背压 Allowable Back pressure (Mpa)	工作油液 Hydraulic Oil		
				温度范围 Tem.range (℃)	粘度范围 Visc.range (mm ² /s)	过滤精度 Filtrating accuracy (μ m)
16	25	50	≤ 1	-20~+80	10~400	≤ 10

注：油液最高污染等级：按GB/T14039之19/16。

Note: maximum permissible degree of contamination of the oil is according to GB/T14039-19/16.

型号说明/MODEL CODE



注：订货有特殊要求者，请与销售顾问联系。

Note: Special features not listed can often be made to your specifications. Please consulte your sales representative.

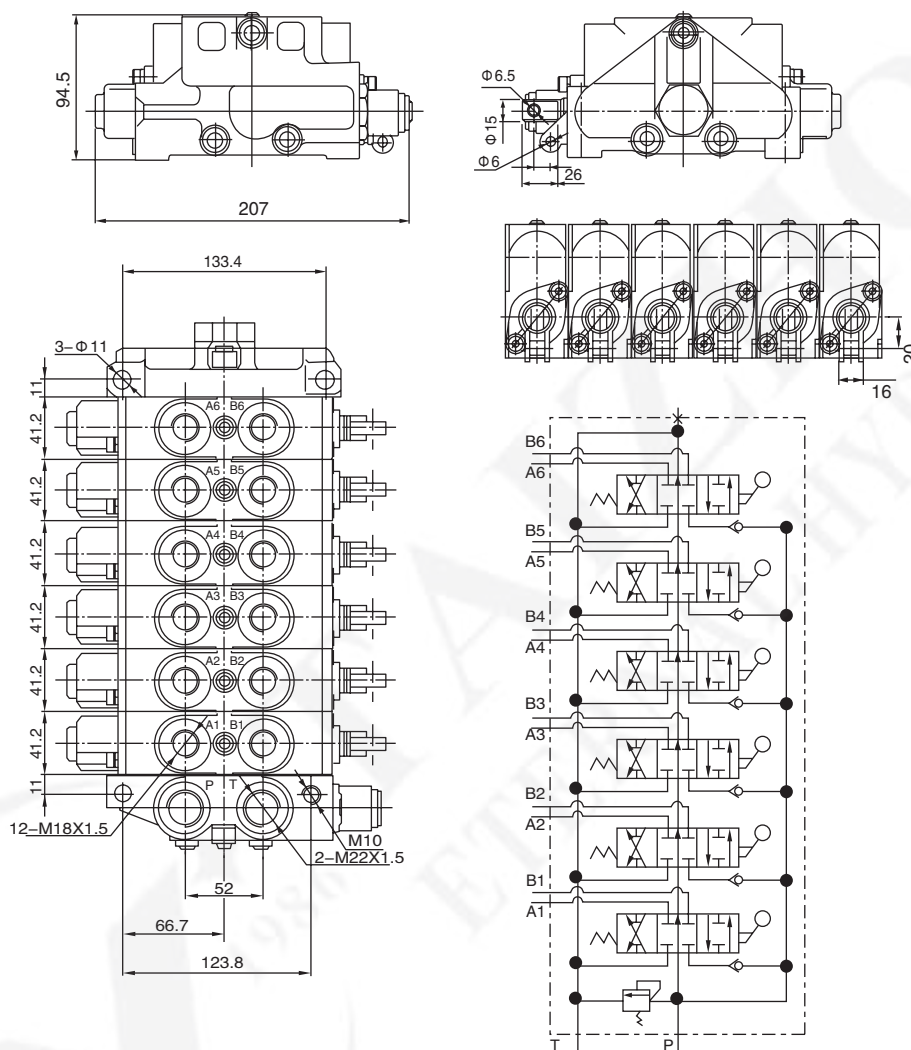
DF-50 Series Sectional Directional Control Valves

[illegible]

DF-50系列分片式多路阀

DF-50 Series Sectional Directional Control Valves

DF-650 外形安装连接尺寸/MODEL DF-650 DIMENSIONAL DATA



备注

- 1、DF50型多路阀功能阀片宽度均为41.2mm，则阀体长度等随着阀片的增加相应的加长41.2mm。
- 2、此阀在出厂时不配操纵手柄，但本公司可以根据客户的需要定做手柄，如有需要请与公司联系。
- 3、客户应尽可能的使用在进油盖和回油盖上的安装孔进行固定。
- 4、各种阀片进行多重组合能产生不同的效果，客户可选用已提供的型号。若客户有其他的要求可以与公司技术部进行联系。
1. The working slice of DF50 width is 41.2mm, so the total width of the valve should be added 41.2mm with the increasing numbers of slices.
2. The handle lever is not standard. If you need levers, please inform us, we will make it to your specifications.
3. The valves should be fixed with the assembling holes on the valve body.
4. Special features not listed can often be made to your specifications. Please consult your sales representative.

CDB系列分片式多路阀

CDB Series Sectional Directional Control Valves

用途与特征/APPLICATIONS&FEATURES



CDB系列多路换向阀是我公司根据国内1-10T叉车、小型装载机、平地机液压系统，并引进、消化吸收国外先进技术而进行优化设计的新产品，CDB系列多路换向阀不但适用于叉车、小型装载机、平地机液压系统，还可以应用于其他起重运输机械、矿山机械液压系统中，使主机实现进口元件国产化的理想产品。

结构特点：

采用片式结构，1-10连内可以任意组合。

油路形式为并联、串并联。

进油片内设有稳流装置，保证转向系统正常工作。

换向片内可带过载阀、二次压力阀、补油阀等附加阀供用户选择。

滑阀机能有关、A、R、Y、O_x等，供用户任意组合。

CDB15型多路换向阀适用于单泵分流双回路系统。

CDB20型多路换向阀适用于双泵分流双回路系统。

CDB系列多路换向阀功能全、性能佳、结构紧凑、安全可靠、维修方便。

CDB series hydraulic valve is a new product according to domestic 1-10T forklift, small size loaders and flat land hydraulic system by our company, and import and digest abroad advanced technologies. CDB series valves are not only used in hydraulic system forklift mini loaders and planers, but also hydraulic systems of other lifting transportation machinery and mining machinery. The valve is an ideal substitute for imported parts.

Structure features:

The valve can be combined from one to ten .

The oil circuit mode is parallel connection or series connection.

There is an equipment with flow stabilizing unit to ensure the system function normally.

There are additional valves such as overload valve, secondary pressure valve, and make up oil valve are available for users.

The spool function include O, A, R, Y, O for user selection and combination.

CDB15 valve is applicable to single pump split-flow double circuit system.

CBD20 series valve is applicable to double pump split-flow circuit system.

The CDB series valve has a global function with high quality, compact structure. They are both reliable and easily maintenance.

CDB系列分片式多路阀

CDB Series Sectional Directional Control Valves

性能参数/SPECIFICATIONS

公称通径 Nom dia.(mm)		15		20		
额定压力 Rated flow(L/min)		80		160		
公称压力 Nom pressure.(Mpa)		E	F	E	F	G
		16	20	16	20	25
主安全阀调压范围 Pressure range of main relief valve(Mpa)		8—20		8—25		
转向安全阀调压范围 Pressure range of steering relief valve(Mpa)		3—10		3—20		
转向输出流量范围 Steering flow output range(L/min)		11—16		22—32		
过载阀调压范围 (含二次压力阀) Overload valve pressure range(Including secondary pressure valve)(Mpa)		6.3—22		8—28		
许用背压 Allowable back pressure at port(Mpa)		2				
R 阀控制压差 R spool control control pressure difference(Mpa)		≤2				
工作油液 Hydraulic oil	温度范围 Temp.range (°C)	粘度范围 Visc.range(mm²/s)		过滤精度 Filtrating accuracy(μ m)		
	—20—+80	10—400		≤10		

首块代号/First block code

表1/Table 1

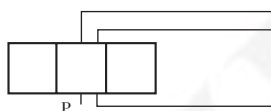
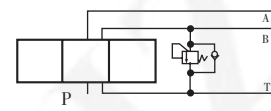
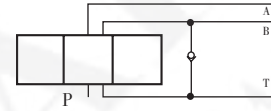
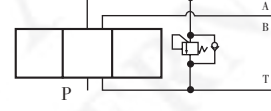
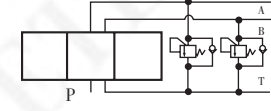
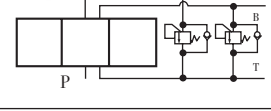
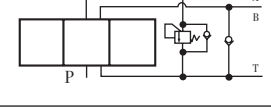
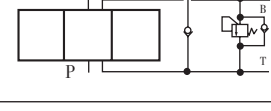
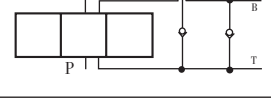
通径	代号	说明	视图
15	省略 Omitted	PF 口为 M16X1.5 (基型) PF port with M16X1.5	

CDB系列分片式多路阀

CDB Series Sectional Directional Control Valves

A、B口带的辅助阀/AUXILIARY VALVE ON PORTS A&B

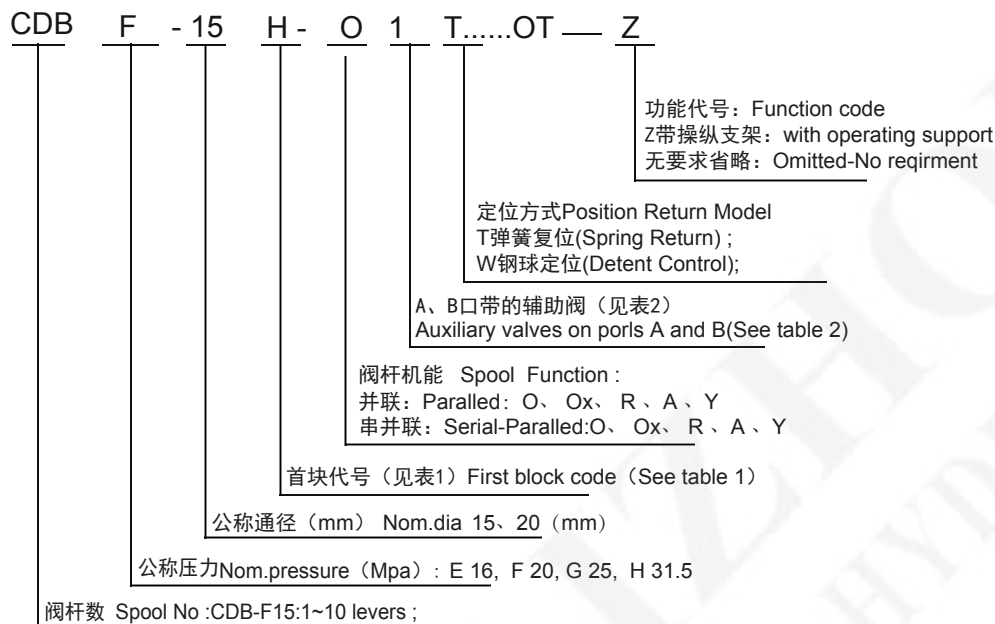
表2/Table 2

代号 Code		液压图形符号 Hydraulic graphic symbols	附带的辅助阀 Auxiliary valve	
过载阀压力与进油口安全阀压力相同 The overload valve has the same pressure as the relief valve at the inlet port	过载阀压力与进油口安全阀压力不相同 The overload valve has different pressure from the relief valve at the inlet port		A□	B□
无/No	无/No		无/No	无/No
1	1		无/No	过载阀 Overload valve
2	2		无/No	补油阀 Make up valve
3	3		过载阀 Overload valve	无/No
4	4		过载阀 Overload valve	过载阀 Overload valve
5	5		过载阀 Overload valve	补油阀 Make up valve
6	6		补油阀 Make up valve	无/No
7	7		补油阀 Make up valve	过载阀 Overload valve
8	8		补油阀 Make up valve	补油阀 Make up valve

CDB-F15系列分片式多路阀

CDB-F15 Series Sectional Directional Control Valves

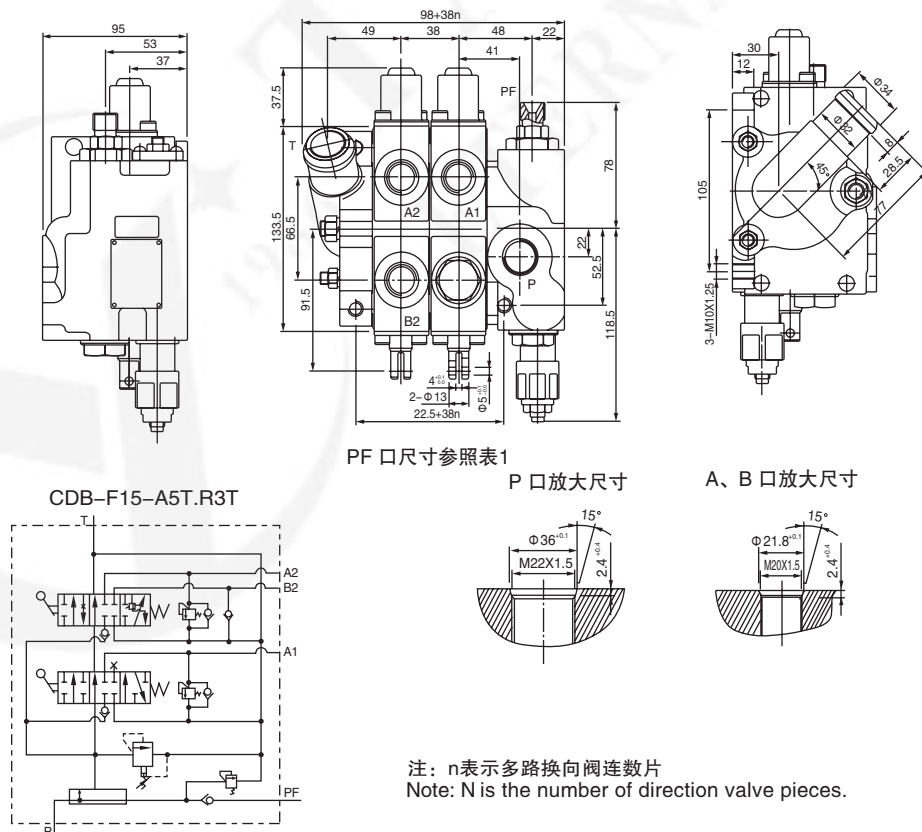
型号说明/MODEL CODE



注: 订货有特殊要求者, 请与销售顾问联系。

Note: Special features not listed can often be made to your specifications. Please consulte your sales representative.

CDB-F15 外形安装连接尺寸/MODEL CDB-F15 DIMENSIONAL DATA

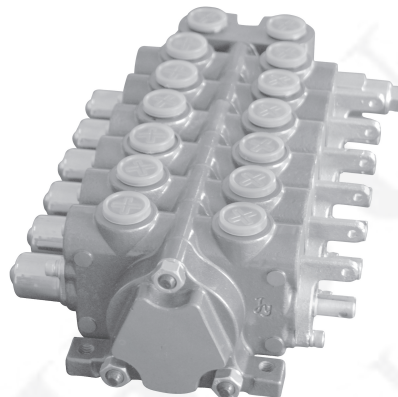


ZCDB-F15系列分片式多路阀

ZCDB-F15 Series Sectional Directional Control Valves

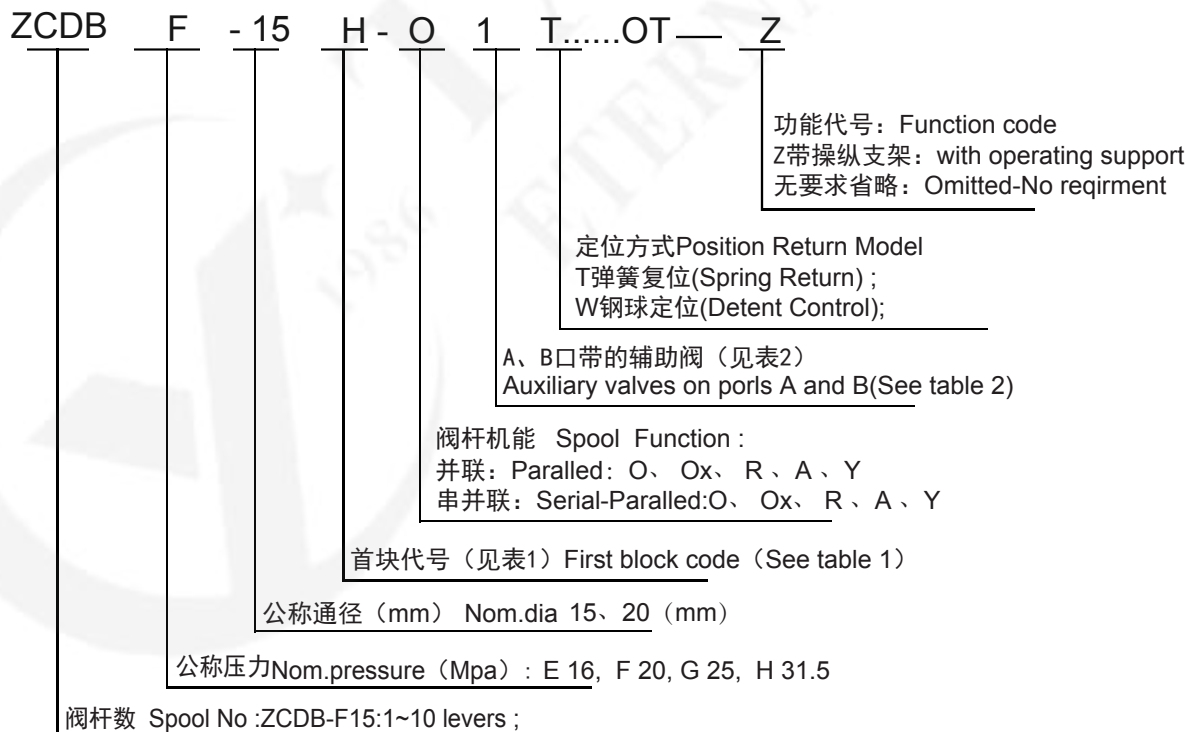
用途与特征/APPLICATIONS&FEATURES

ZCDB-※15系列多路换向阀是由单向阀、安全阀、进油体、回油体和多个换向阀片组合而成的组合阀，以手动换向阀为主，它具有结构紧凑、工作压力高、性能优异、工作可靠等特点。油路采用并联油路，有多种滑阀机能供系统需要，阀杆复位方式采用手动换向弹簧自动复位或钢珠定位，阀片内部设置单向阀，以防止油液倒流，进油阀片带有溢流阀，以控制整个系统压力。根据用户需要，换向阀片两端可装有过载阀以满足不同执行机构负载需要，该阀广泛用于叉车、环保车等工程机械的液压系统。



ZCDB-※15 series sectional directional hydraulic control valve is a kind of combination valve assembled with check valve, inlet slice, outlet slice and working slices. This valve has such characteristics as compact structure, high working pressure, good performance, high reliability, etc. The circuit is parallel connection. There are many spool functions for option. The positioning and returning modes of the valve include spring returning and detent control. There is a check valve inside the valve plate in case of back flow. There is a main relief valve in the inlet slice to control the whole system pressure. According to the customers' requestes, the overload valve can be assembled on A, B port. The valve is widely used in such hydraulic systems of engineering machinery as forklift, environmental trucks, etc.

型号说明/MODEL CODE



注: 订货有特殊要求者, 请与销售顾问联系。

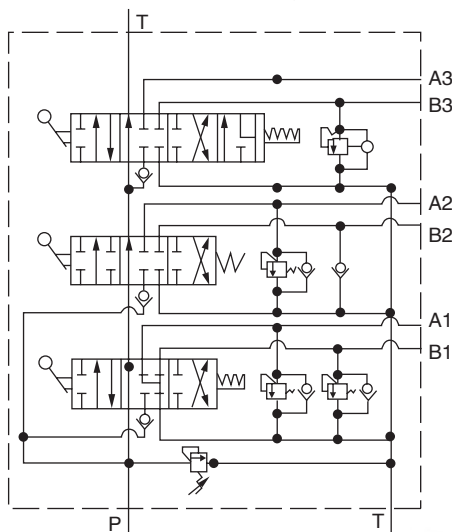
Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

ZCDB-F15系列分片式多路阀

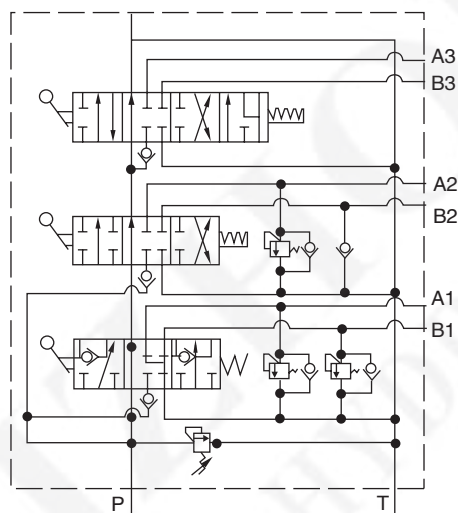
ZCDB-F15 Series Sectional Directional Control Valves

型号举例/MODEL EXAMPLES

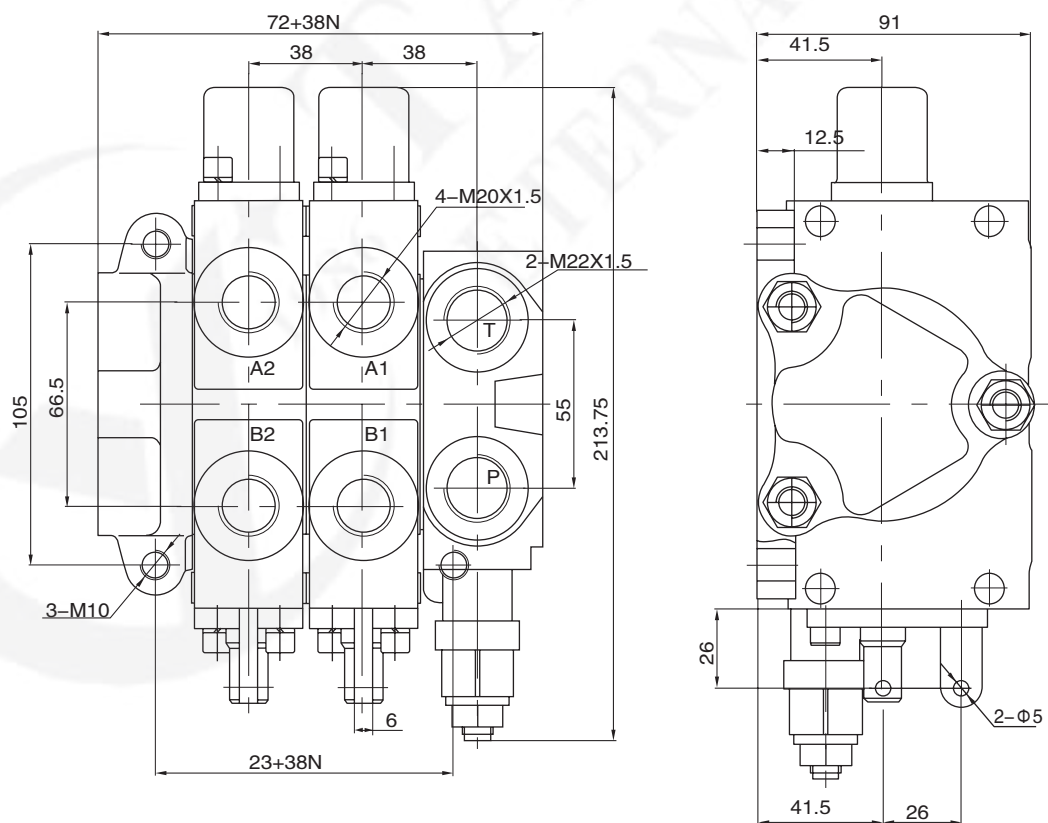
ZCDB-※15-Y4W. O5T. Q1W-J



ZCDB-※15-M4T. O5T. QW



ZCDB-F15 外形安装连接尺寸/MODEL ZCDB-F15 DIMENSIONAL DATA

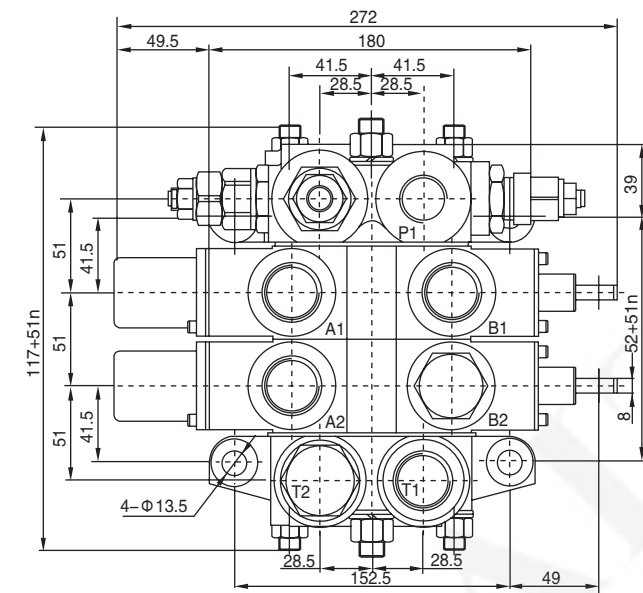


注: n表示多路换向阀连数片
Note: N is the number of direction valve pieces.

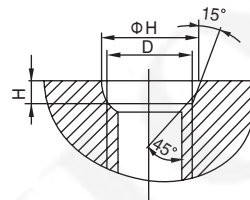
CDB-F20系列分片式多路阀

CDB-F20 Series Sectional Directional Control Valves

CDB-F20 外形安装连接尺寸/MODEL CDB-F20 DIMENSIONAL DATA

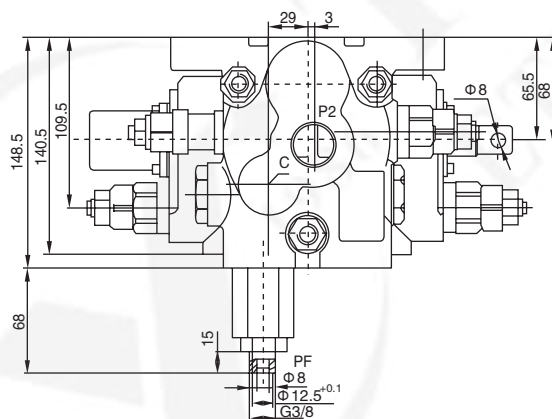


油口尺寸

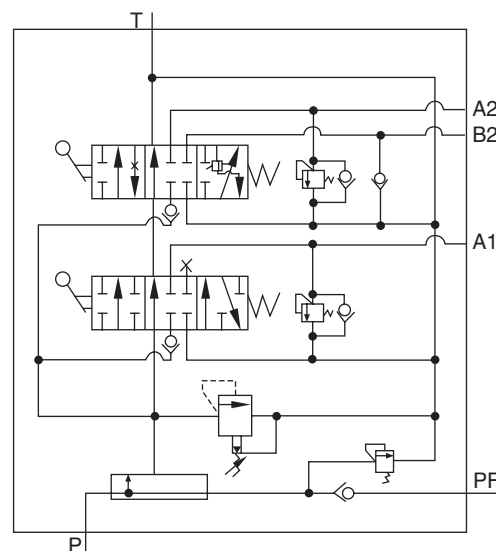


油口尺寸表

油口	D	H	ΦU
P1、P2	G3/3	3.5 ^{+0.1}	30.2 ^{+0.1}
A、B、T2	M33X2	3.3 ^{+0.1}	32.4 ^{+0.1}
T2	M33X2	3.5 ^{+0.1}	35.5 ^{+0.1}
C	测压口NPT1/8 Pressure measuring port		



CDB-F20-A5T.R3T

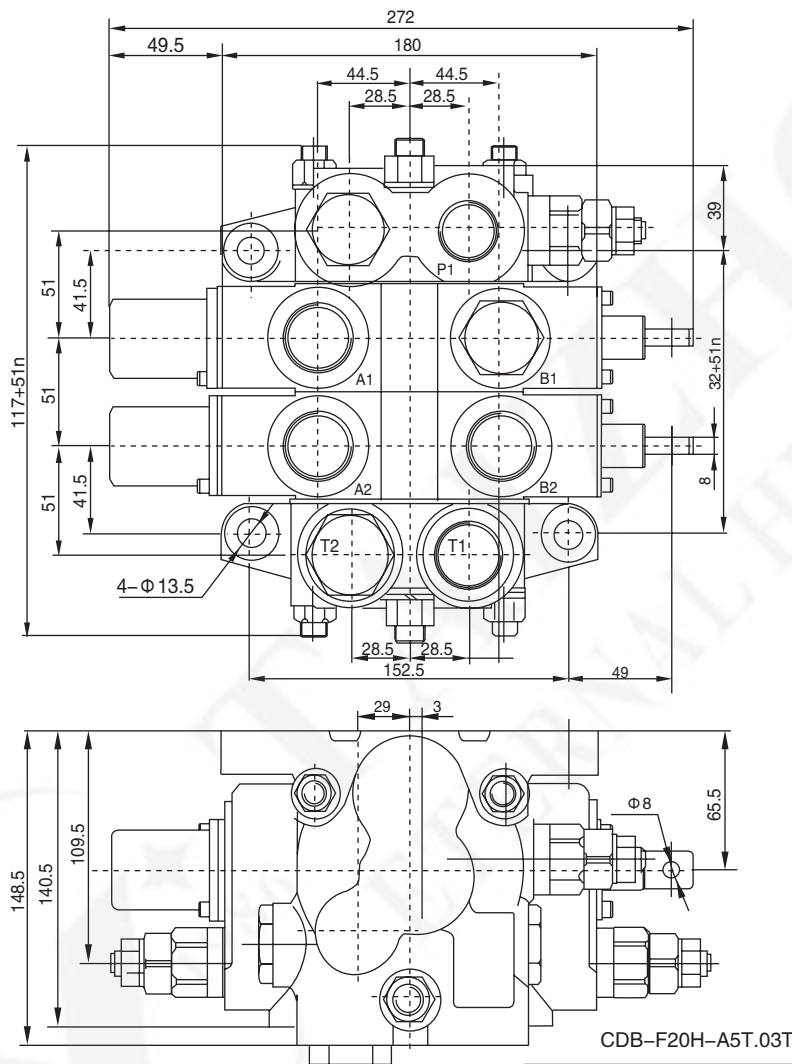


注：n表示多路换向阀连数片
Note: N is the number of direction valve pieces.

ZCDB-F20系列分片式多路阀

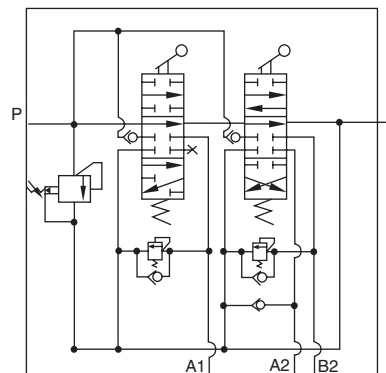
ZCDB-F20 Series Sectional Directional Control Valves

ZCDB-F20 外形安装连接尺寸/MODEL ZCDB-F20 DIMENSIONAL DATA



CDB-F20H-A5T.03T

油口尺寸参照CDB※20油口尺寸表
Oil mouth dimensions refer to CDB...



注：n表示多路换向阀连数片
Note: N is the number of direction valve pieces.

ZY08系列整体阀

ZY08 Series Monoblock Directional Control Valves.

用途与特征/APPLICATIONS&FEATURES

ZY08 多路换向阀是我单位自主设计开发的一种中高压整体式七路换向阀。可按客户要求在上阀设溢流阀。溢流阀可调节系统压力，单向阀防止油液倒流，换向阀滑阀机能可有A、O、Y、P等，可任意组合。输出与其它液压元件相接提供动力源。经过特殊设计的该阀广泛用于叉车、环卫车辆、小型装载机等工程机械的液压系统。



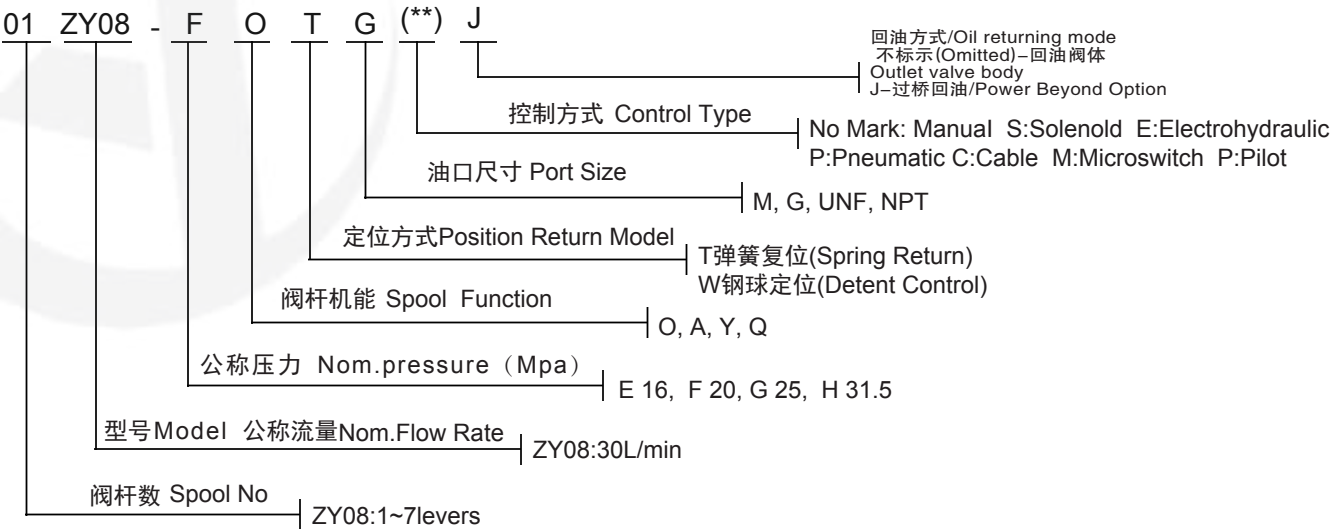
- Model ZY08 with middle-high pressure monoblock 7 spools construction is an independently developed control valves by our company.
- ◆ Inner check valve: The check valve inside the valve body is to insure the hydraulic oil not to be returned.
 - ◆ Inner relief valve: The relief valve inside the valve body is able to adjust the hydraulic system working pressure.
 - ◆ Oil way: Parallel circuit, with power beyond.
 - ◆ Control Way: Manual control
 - ◆ Valve construction: monoblock construction, 7 levers.
 - ◆ Spool Function: O,A,Y P.
 - ◆ The type valve is specially used on wood grabbing machines.

性能参数/SPECIFICATIONS

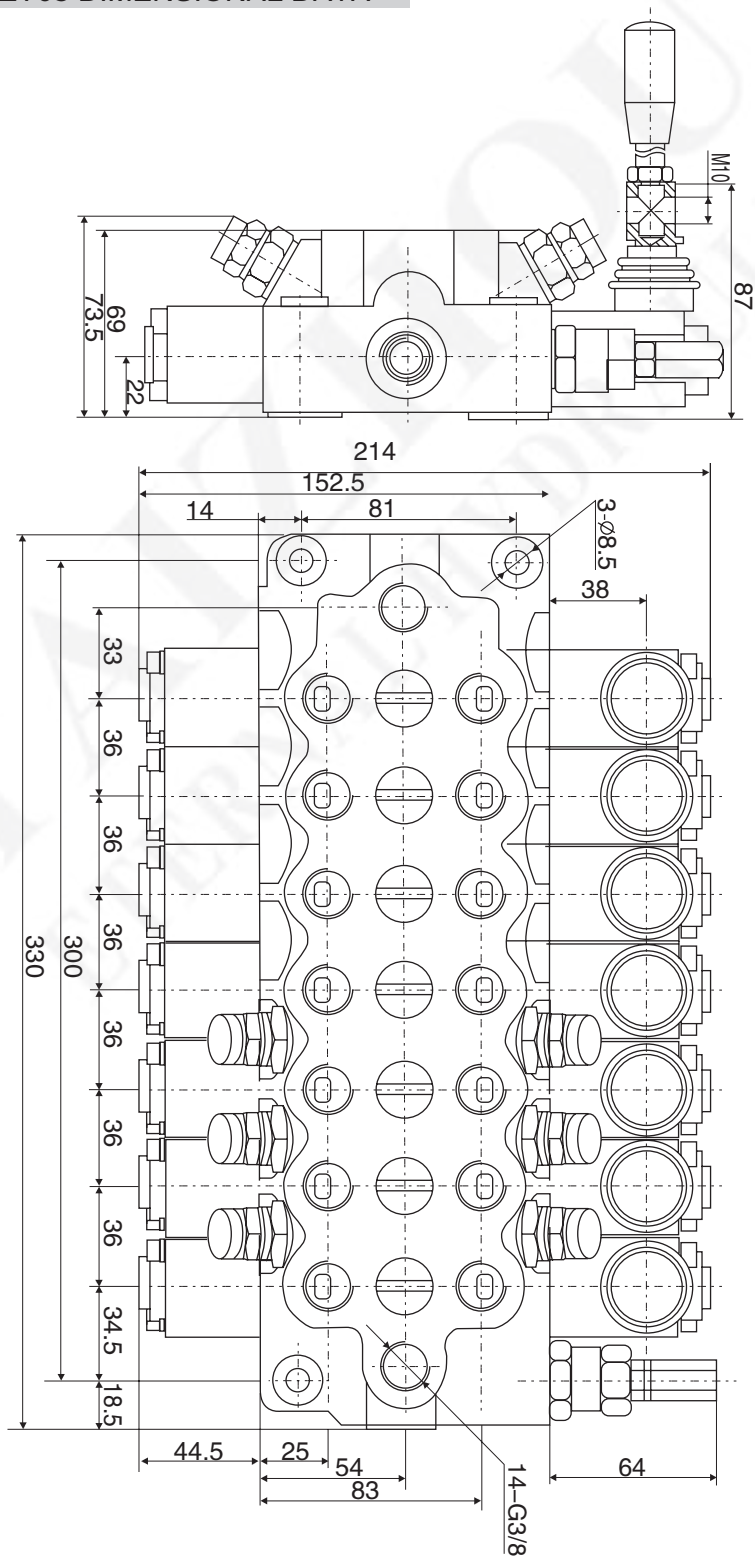
公称压力 Nom. Pressure (Mpa)	最大压力 Max. Pressure (Mpa)	公称流量 Nom. flow (L/min)	允许背压 Allowable Back. Pressure (Mpa)	工作油液 Hydraulic Oil		
				温度范围 Tem.range (℃)	粘度范围 Visc.range (mm2/s)	过滤精度 Filtrating accuracy (μm)
16	20	30	≤1	-20~+80	10~400	≤10

注：油液最高污染等级：按GB/T14039之19/16
Note:maximum permissible degree of contamination of the oil is according to GB/T14039-19/16

型号说明/MODEL CODE



ZY08 Series Monoblock Directional Control Valves.



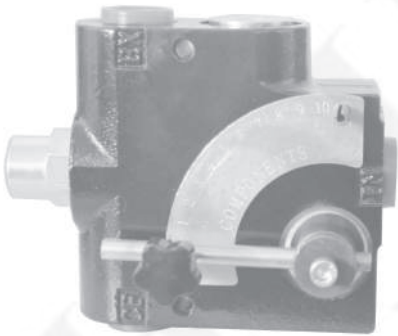
159

LKF-60压力补偿可变流量控制阀

LKF-60 Pressure Compensating Flow Control Valve

产品描述/SPECIFICATION

LKF是全范围压力补偿可变流量控制阀。经过精心设计，它的节流口面积会随着阀杆的旋转而变化。不论CF油口EX油口的压力如何变化，控制油口的流量始终是平稳恒定的。它拥有一个可调节的弹簧安全阀使压力可以上升到设置的安全压力。安全阀的压力出厂设置是1500psi，可调节范围是750-3000psi。



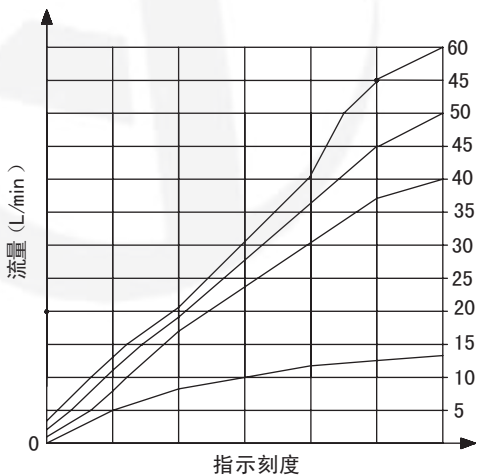
产品特点/FEATURES

LKF model is a full range pressure compensating variable flow control. It is designed so that the orifice area varies as the lever is rotated. The outlet flow is smooth and constant regardless of the pressure on the control flow or excess flow ports. An adjustable ball spring relief valve allows for pressure compensated how up to the pressure setting on the relief valve. Relief valves are preset at 1500psi and filed adjustable from 750 to 3000psi.

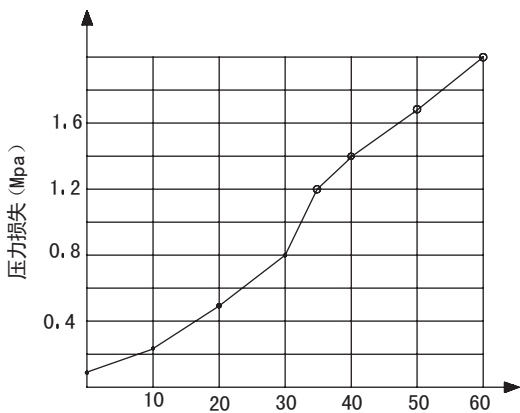
技术参数/PARAMETERS

型号 Model	油口尺寸 Oil Port	流量 Flow(gpm)	公称压力 (bar) Standard Pressure
LKF-40-3/8NPT	3/8" -NPT	0-30L/min (0-8gpm)	210
LKF-60-1/2NPT	1/2" -NPT	0-60L/min (0-16gpm)	
LKF-114-3/4NPT	3/4" -NPT	0-114L/min (0-30gpm)	

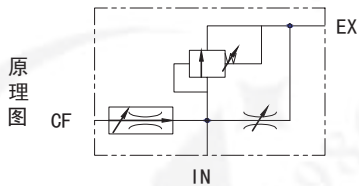
LKF60流量曲线/LKF60 Curve of Flow



LKF60 压力损失表/LKF60 Curve of Pressure Drop



LKF-60外形安装连接尺寸/MODEL LKF-60 DIMENSIONAL DATA



1. 公称通径	15mm
2. 公称压力	21MPa
3. 公称流量	0-60L/min

Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

SVV06电磁切换阀

SVV06 Solenoid Diverter Valve

用途与特征/APPLICATIONS&FEATURES

- 1.SVV06是分片式6通电磁切换阀，也可以做成8通和10通的油路。
- 2.SVV06油口可以安装带法兰式叠加块，可安装防震阀。
- 3.有多种不同电压的电磁阀可供选择
- 4.SVV06电磁切换阀是基础的多路阀和2个液压执行元件之间的链接点。
- 5.切换阀是用于液压系统中需要在原有多路阀的基础上按顺序增加一个执行元件时，可以通过增加切换阀来实现同一个多路阀，可按顺序控制2个不同的执行元件。
- 6.叠加式切换阀原理可以允许单连阀通过串联的方式，连接5个切换阀，从而控制6个执行元件。
- 7.L口必须一直接回油箱。



Sectional SVV06 Series

- ◆ 6-way with alternating spool; it's sectional type to obtain 8-way or 10-way circuit.
- ◆ It's possible to flange mounting a block with cross return anti-shock valves.
- ◆ Coils with several feeding voltage are available.
- ◆ They are used as link between two consumers and the basic directional valve, when we want to control both consumers alternately by means of one basic directional control valve.
- ◆ Diverter are used to add an extra facility to the directional control valve when it is needed for a sequence of operations such as a safety operation or to control a selected hydraulic cylinder.
- ◆ The stackable circuit selector valves allow one single drive for 6 users with 5 diverters connected in series.
- ◆ Please note the drain line must be connected back to tank at all times.

型号说明/MODEL CODE

SVV06 – G3/8 – L – DC12V

控制电压/Voltage:DC12V,DC24V

卸油孔标记L口，没有可省略

L:Drain Port, No drain port is omitted.

螺纹规格 Port Size: G3/8,G1/2,SAE8

切换阀代号/Solenoid Diverter Valve

SVV06电磁切换阀

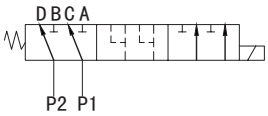
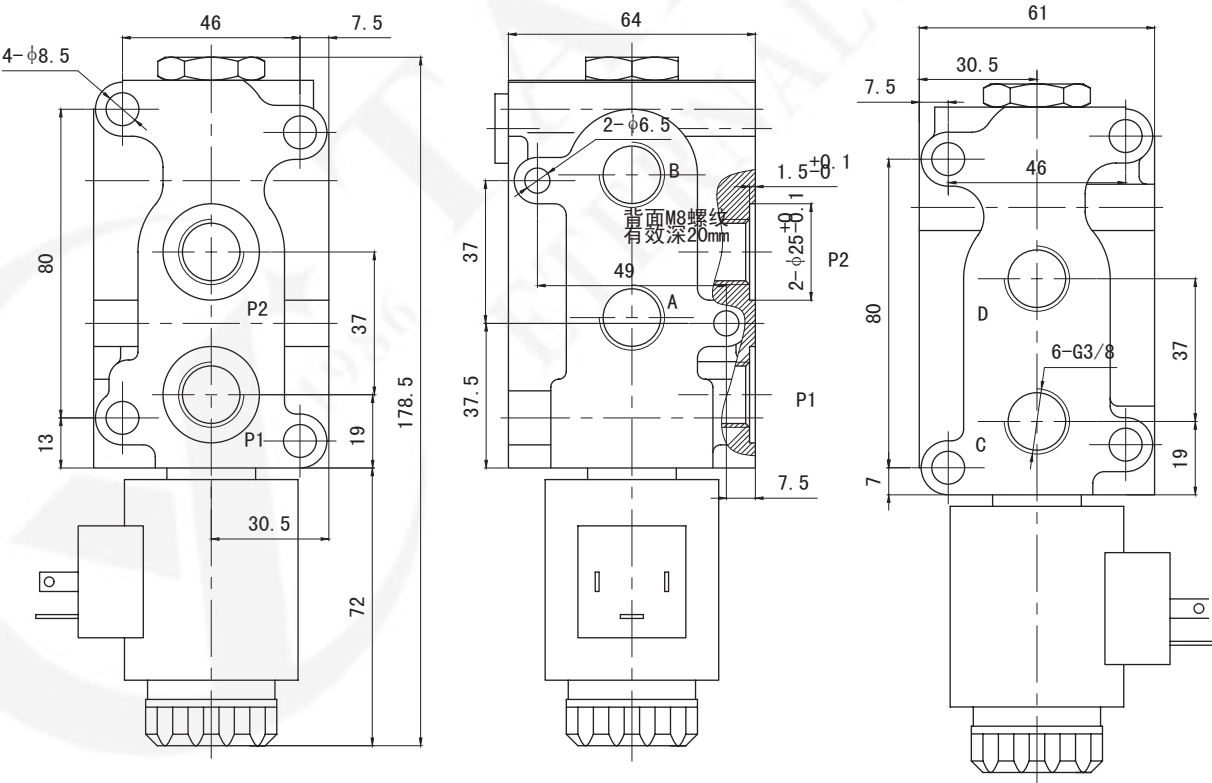
SVV06 Solenoid Diverter Valve

技术参数/PARAMETERS

最大压力 Max Pressure/bar	带L口 With L	315	工作电压 Supply Voltage/V	12,24VDC, 220VAC
最大压力 Max Pressure/bar	不带L口 Without L	210	功率 Power/W	30
流量 Flow Rate/LPM	最大 MAX	50	切换频率 Switching Frequency/1/h	15000
油温 Oil Temperature	℃	-40~+70	室温 Ambient Temperature	To 50℃
油液粘度 Viscosity	Mm/s	15~380	线圈温度 Coil Temperature	To 180℃
过滤精度 Filtration	NAS1638	9	线圈工作制式 Duty Cycle	100%ED

注：订货有特殊要求者，请与销售顾问联系。
Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

SVV06外形安装连接尺寸/MODELR SVV06 DIMENSIONAL DATA



- 主要技术参数:
1. 最大流量50L/min,
 2. 最大压力31.5MPa,
 3. 控制电压DC12V/DC24V

DVS90电磁切换阀

DVS90 Solenoid Diverter Valve

用途与特征/APPLICATIONS&FEATURES

- 1.DVS90是分片式6通电磁切换阀，也可以做成8通和10通的油路。
- 2.DVS90油口可以安装带法兰式叠加块，可安装防震阀。
- 3.有多种不同电压的电磁阀可供选择
- 4.DVS90电磁切换阀是基础的多路阀和2个液压执行元件之间的链接点。
- 5.切换阀是用于液压系统中需要在原有多路阀的基础上按顺序增加一个执行元件时，可以通过增加切换阀来实现同一个多路阀，可按顺序控制2个不同的执行元件。
- 6.叠加式切换阀原理可以允许单连阀通过串联的方式，连接5个切换阀，从而控制6个执行元件。
- 7.L口必须直接回油箱。

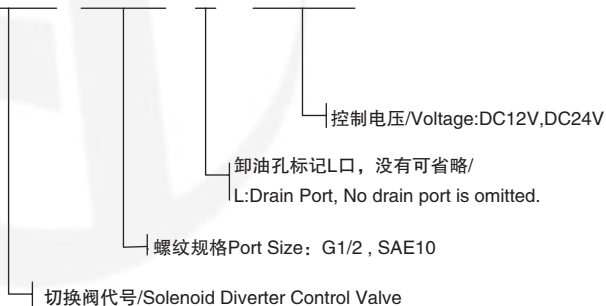


DVS90 Solenoid Diverter Valve

- ◆ 6-way with alternating spool; it's sectional type to obtain 8-way or 10-way circuit.
- ◆ It's possible to flange mounting a block with cross return anti-shock valves.
- ◆ Coils with several feeding voltage are available.
- ◆ They are used as link between two consumers and the basic directional valve, when we want to control both consumers alternately by means of one basic directional control valve.
- ◆ Diverters are used to add an extra facility to the directional control valve when it is needed for a sequence of operations such as a safety operation or to control a selected hydraulic cylinder.
- ◆ The stackable circuit selector valves allow one single drive for 6 users with 5 diverters connected in series.
- ◆ Please note the drain line must be connected back to tank at all times.

型号说明/MODEL CODE

DVS90 - G1/2 - L - DC12V



DVS90电磁切换阀

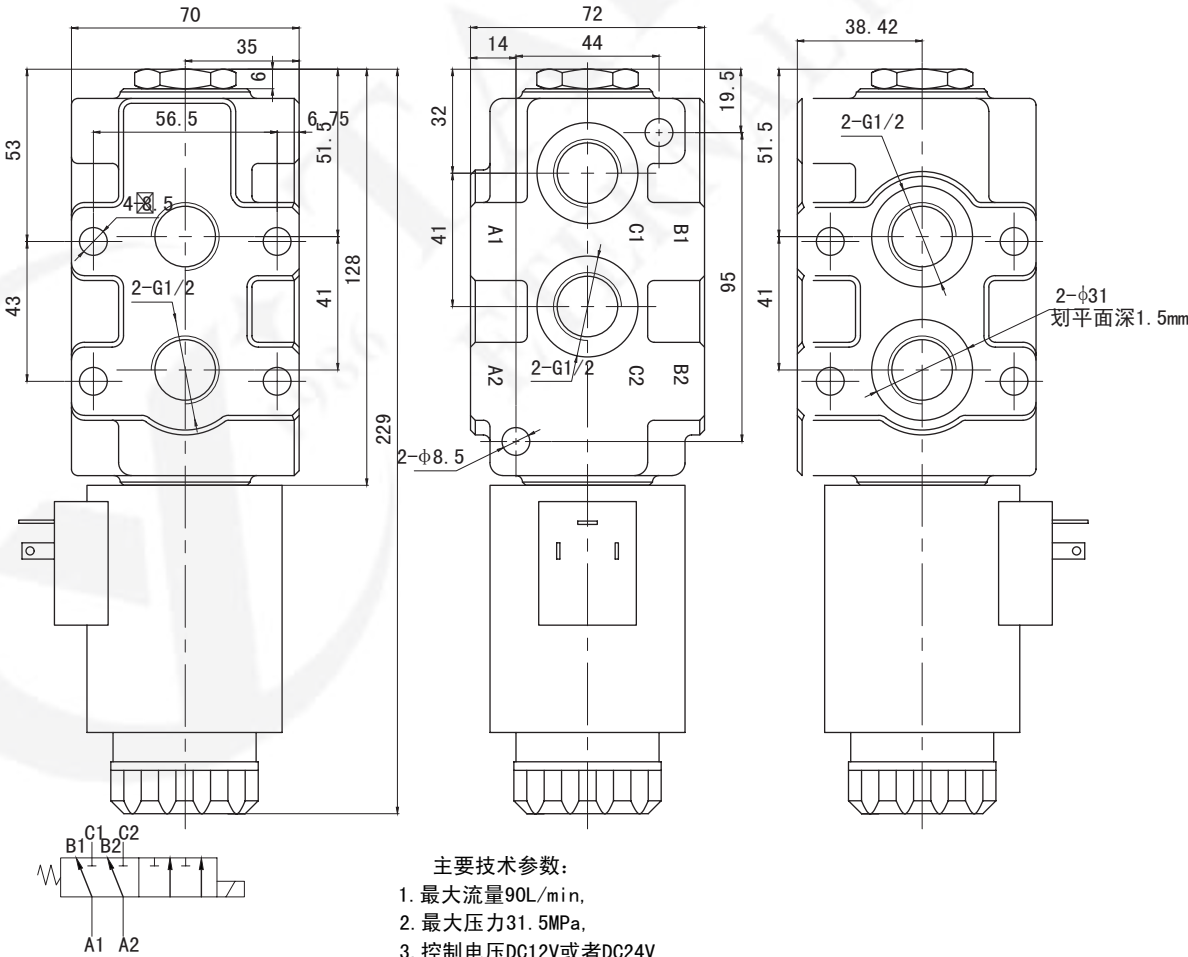
DVS90 Solenoid Diverter Valve

技术参数/PARAMETERS

Table with 5 columns: Parameter, Unit/Condition, Value 1, Value 2, and Value 3. Rows include Max Pressure, Flow Rate, Oil Temperature, Viscosity, Filtration, Supply Voltage, Power, Switching Frequency, Ambient Temperature, Coil Temperature, and Duty Cycle.

注：订货有特殊要求者，请与销售顾问联系。
Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

DVS90外形安装连接尺寸/MODELR DVS90 DIMENSIONAL DATA



SVV09电磁切换阀

SVV09 Solenoid Diverter Valve

用途与特征/APPLICATIONS&FEATURES

- 1.SVV09是分片式6通电磁切换阀，也可以做成8通和10通的油路。
- 2.SVV09油口可以安装带法兰式叠加块，可安装防震阀。
- 3.有多种不同电压的电磁阀可供选择
- 4.SVV09电磁切换阀是基础的多路阀和2个液压执行元件之间的链接点。
- 5.切换阀是用于液压系统中需要在原有多路阀的基础上按顺序增加一个执行元件时，可以通过增加切换阀来实现同一个多路阀，可按顺序控制2个不同的执行元件。
- 6.叠加式切换阀原理可以允许单连阀通过串联的方式，连接5个切换阀，从而控制6个执行元件。
- 7.L口必须一直接回油箱。



SVV09 Solenoid Diverter Valve

- ◆ 6-way with alternating spool; it's sectional type to obtain 8-way or 10-way circuit.
- ◆ It's possible to flange mounting a block with cross return anti-shock valves.
- ◆ Coils with several feeding voltage are available.
- ◆ They are used as link between two consumers and the basic directional valve,when we want to control both consumers alternately by means of one basic directional control valve.
- ◆ Diverter are used to add an extra facility to the directional control valve when it is needed for a sequence of operations such as a safety operation or to control a selected hydraulic cylinder.
- ◆ The stackable circuit selector valves allow one single drive for 6 users with 5 diverters connected in series.
- ◆ Please note the drain line must be connected back to tank at all times.

型号说明/MODEL CODE

SVV09 - G1/2 - L - DC12V

控制电压/Voltage:DC12V,DC24V

卸油孔标记L口，没有可省略

L:Drain Port, No drain port is omitted.

螺纹规格Port Size: G1/2 , SAE10

切换阀代号/Solenoid Diverter Control Valve

SVV09电磁切换阀

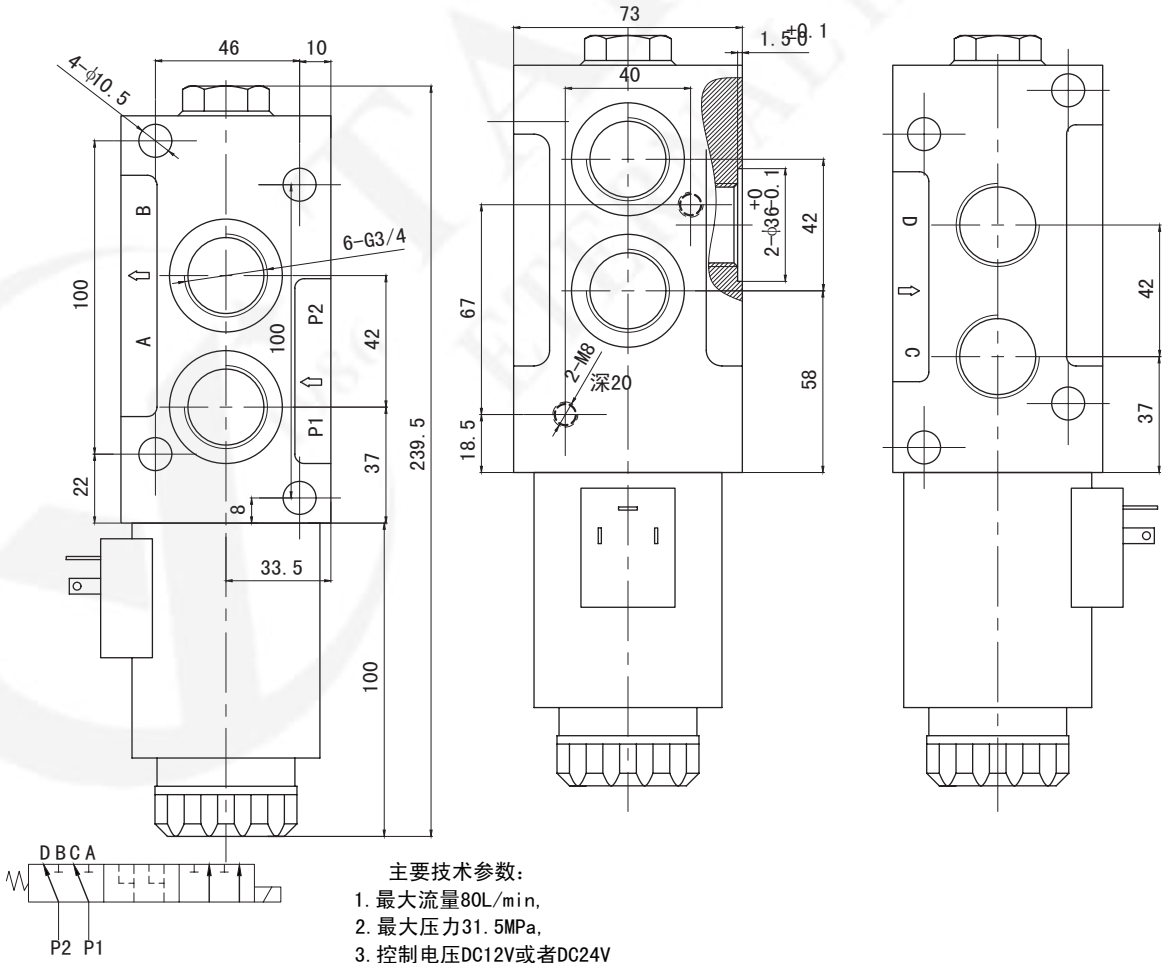
SVV09 Solenoid Diverter Valve

技术参数/PARAMETERS

Table with 5 columns: Parameter, Unit/Condition, Value 1, Value 2, Value 3. Rows include Max Pressure, Flow Rate, Oil Temperature, Viscosity, Filtration, Supply Voltage, Power, Switching Frequency, Ambient Temperature, Coil Temperature, and Duty Cycle.

注：订货有特殊要求者，请与销售顾问联系。
Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

SVV09外形安装连接尺寸/MODELR SVV09 DIMENSIONAL DATA



RV系列转阀

RV Series Rotary Spool Valves

用途与特征/APPLICATIONS&FEATURES

RV系列液压转阀是由阀体、内部阀芯和手柄杆组成。转阀有3通，4通，6通，8通，可以根据客户需要定制，同时有中位开启和关闭两种不同的阀芯机能，流量从60LPM到200LPM。RV系列液压转阀可以实现快速准确的切换油缸和马达之间的油路。客户可以选择3通油路，可以从A路切换到B路或者在中位回油箱。

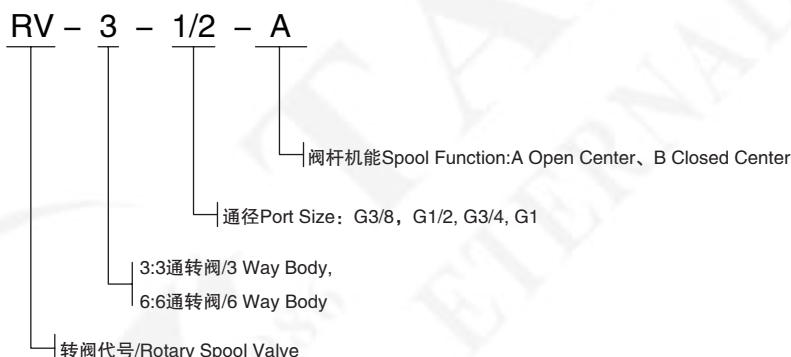


The directional control valves of the rotary spool type consists basically of a rotor which is rotated with respect to the valve body. When the rotor is placed in selected positions inlet and outlet ports are connected in various combinations permitting the start, stop or directional change of fluid under pressure. The functions specific to a valve primarily on rotor type selected.

Features:

- ◆ Provides a fast and positive control of oil to and from cylinders and motors.
- ◆ Customers can select from one of three spool types allowing flow to be diverted from one line to another or in neutral position of pressure to tank.

型号说明/MODEL CODE



技术参数/PARAMETERS

油口 PORT SIZE	流量 Flow Rate/LPM	压力 Pressure/Mpa	阀芯机能 Spool Function	重量 Weight/kgs
G3/8	60LPM	32	Closed Center and Open Center	1.5
G1/2	90LPM	32		2
G3/4	140LPM	32		3
G1	200LPM	32		4

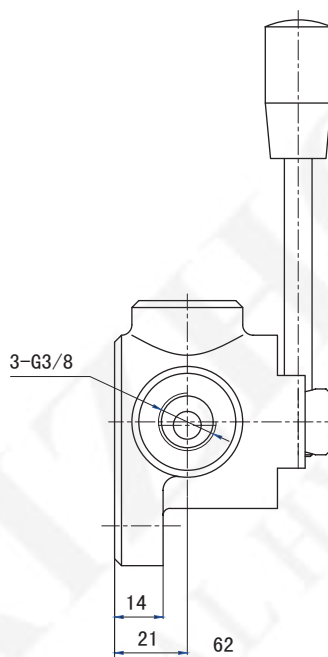
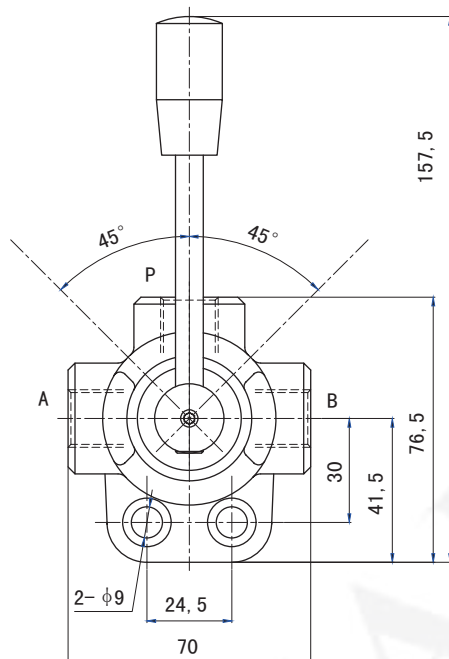
注：订货有特殊要求者，请与销售顾问联系。

Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

RV系列转阀

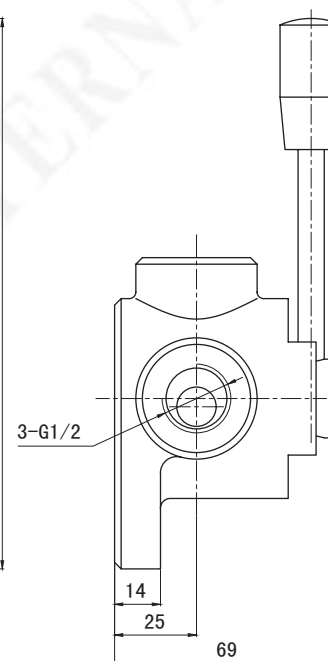
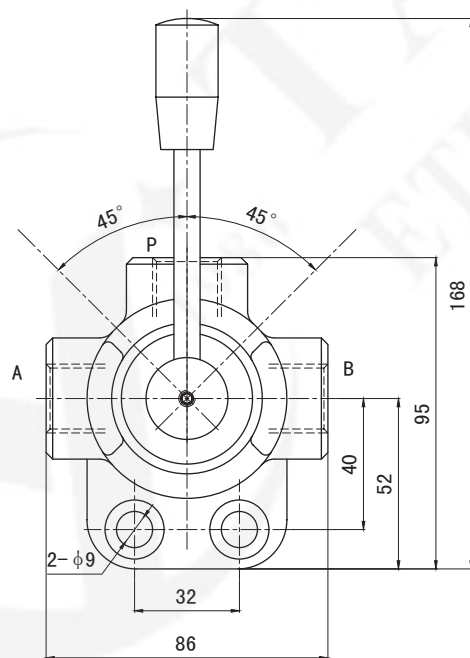
RV Solenoid Diverter Valve

RV外形安装连接尺寸/MODELR RV DIMENSIONAL DATA



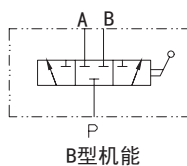
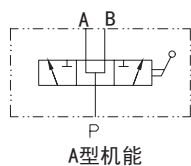
技术参数

1. 最大流量: 60L/min
2. 最大压力: 31.5MPa
3. 油口螺纹: G3/8



技术参数

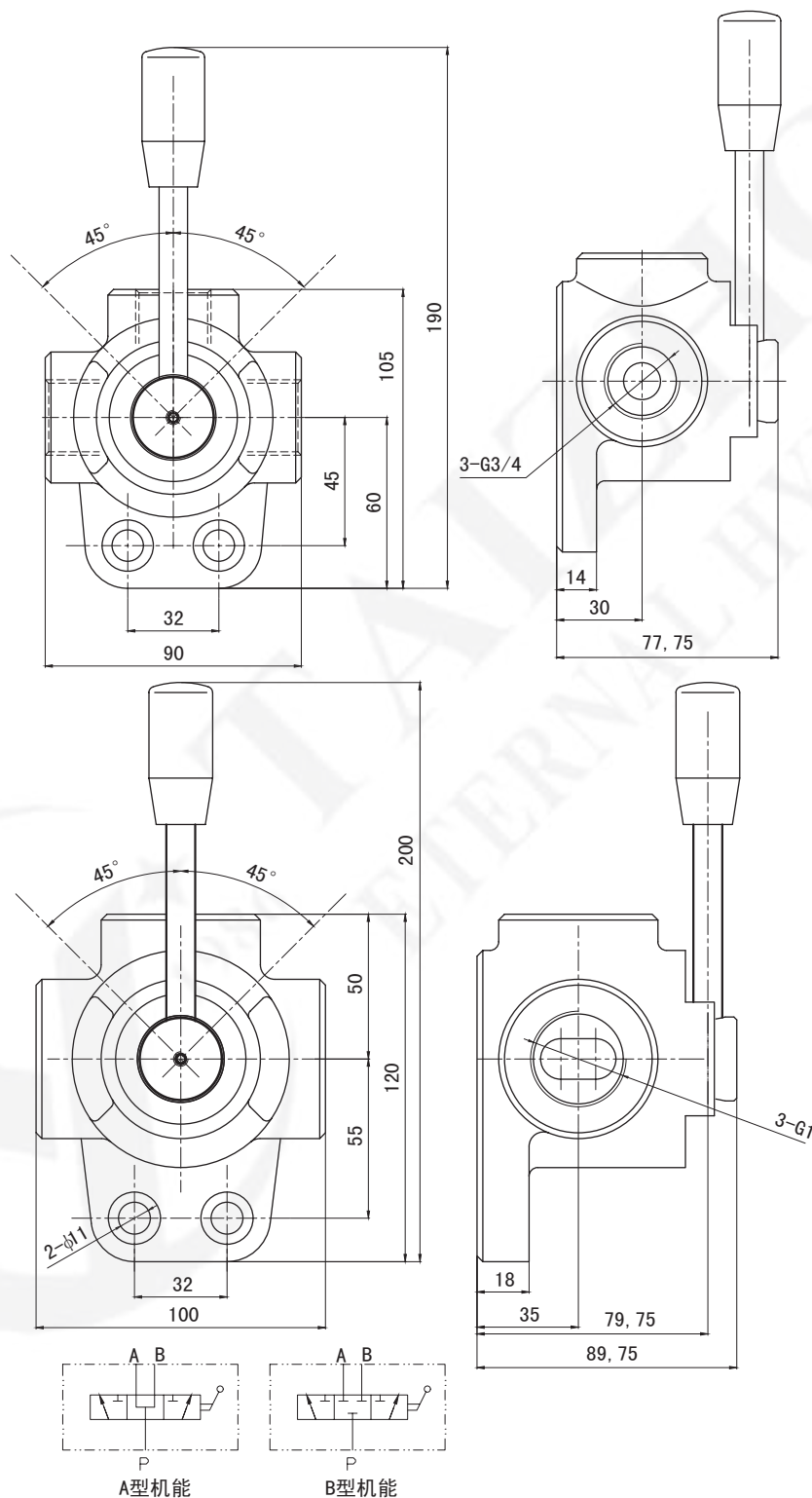
1. 最大流量: 90L/min
2. 最大压力: 31.5MPa
3. 油口螺纹: G1/2



RV系列转阀

RV Solenoid Diverter Valve

RV外形安装连接尺寸/MODELR RV DIMENSIONAL DATA



技术参数
1. 最大流量:120L/min
2. 最大压力:31.5MPa
3. 油口螺纹:G3/4

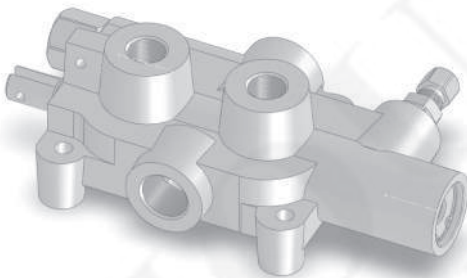
技术参数
1. 最大流量:200L/min
2. 最大压力:25MPa
3. 油口螺纹:G1

LVA系列劈木机阀

LVA Series Log Splitter Valve

用途与特征/APPLICATIONS&FEATURES

LVA型劈木机阀是通过手柄的动作使阀芯做轴向移动从而对油路进行切换的直动式换向滑阀。此劈木机阀自带过载保护，结构紧凑，控制灵活，使用方便可靠，专用于劈木机的油路控制，能使劈木机快速、平稳工作。



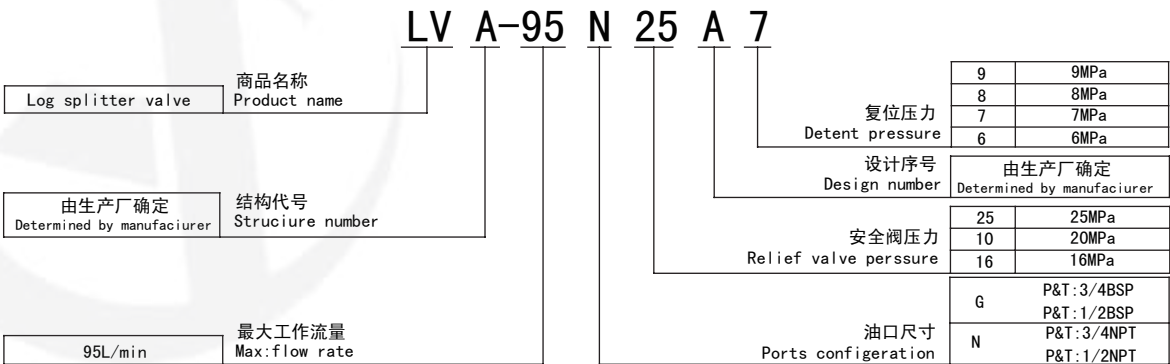
LVA type splitting machine valve is through the lever action make valve core do axial movement and the oil circuit to switch straight acting reversing valve. The splitting machine valve owns overload protection, compact structure, flexible control, easy to use and reliable, dedicated to splitting machine oil circuit control, can make the splitting machine fast and stable work.

性能参数/SPECIFICATIONS

Table with 7 columns: Nominal Pressure, Max. pressure, Nom. flow, Allowable Back. pressure, Hydraulic Oil (Temperature range, Visc. range, Filtrating accuracy).

注：油液最高污染等级:按GB/T14039之19/16
Note: maximum permissible degree of contamination of the oil is according to GB/T14039-19/16

型号说明/MODEL CODE

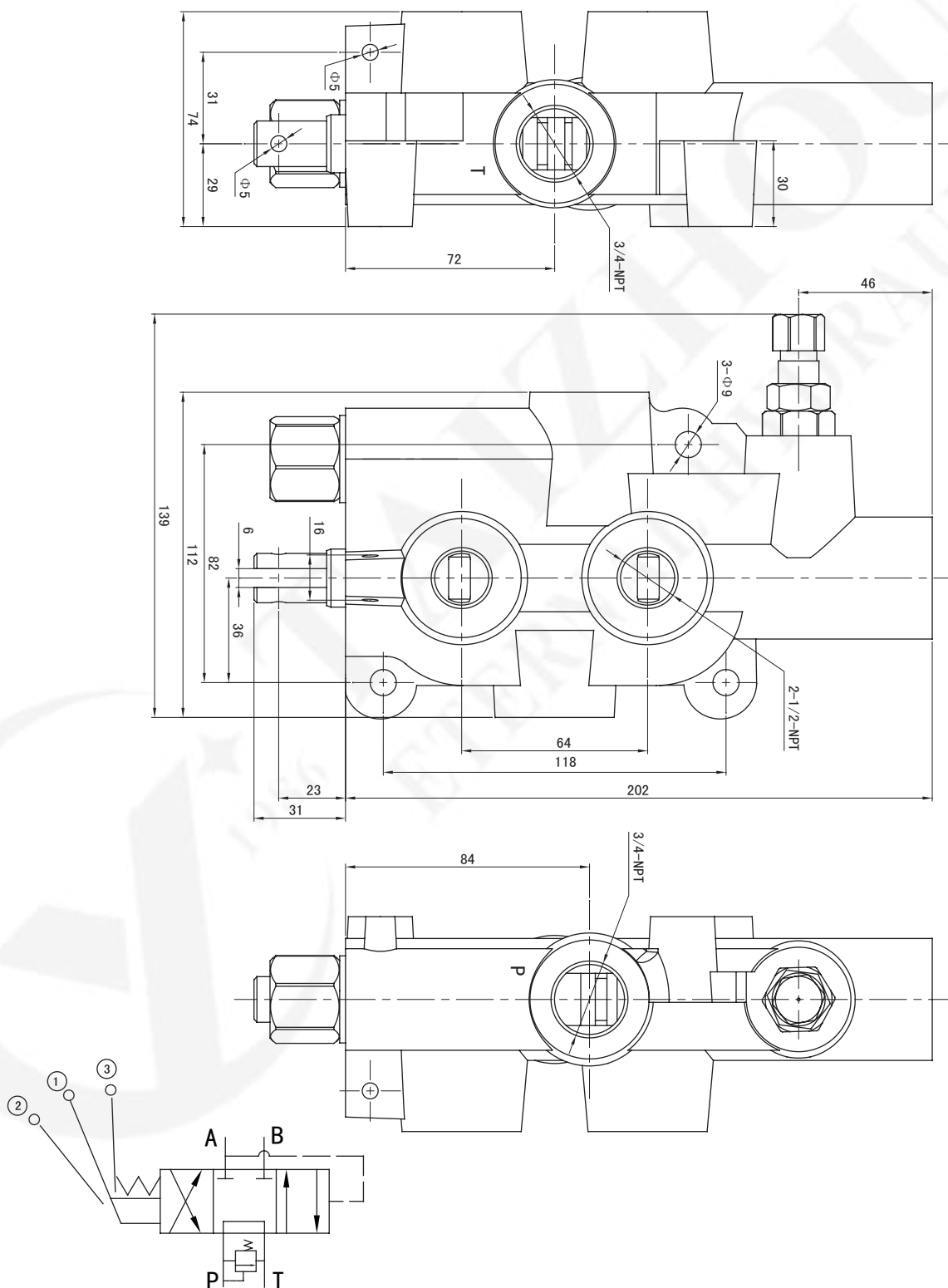


注：订货有特殊要求者，请与销售顾问联系。
Note: Special features not listed can often be made to your specifications. Please consult your sales representative.

LVA系列劈木机阀

LVA Series Log Splitter Valve

LVA 外形安装连接尺寸/MODEL LVA DIMENSIONAL DATA



BZZ系列全液压转向器

Model BZZ Hydraulic Steering Unit

用途与特征/APPLICATIONS&FEATURES



全液压转向器广泛用于车辆转向和船舶操舵.驾驶人员通过它可以用较小的操纵力实现较大的转向力控制,并且在性能上安全、可靠、操纵上轻便、灵活。

BZZ1、BZZ2、BZZ3、型全液压转向器具有下列优点:

- 消除机械式连动装置,可降低主机成本,提供可靠轻便的结构;操作灵活省力;
- 在发动机熄火时,可实现应急人力转向;
- 可用很小的力矩进行连续无级控制转动;
- 提供给控制回路以及主机尺寸广泛的选择面;
- 能和多种转向油泵及液压供应系统连接。

BZZ5型负荷传感全液压转向器除具有上述优点外,还具备下述特点:

点:

无论负荷压力大小、方向盘转速快慢,均能按转向油路要求,优先分配相应流量,保证转向可靠、灵敏、轻便;

油泵输出的流量,除向转向系统供给所需的流量外,剩余部分可供给辅助油路使用,从而消除转向油路供油过多而造成的功率损失;提高了系统效率。

SCU can be used in the area of steering of vehicle and hydraulic rudder of ships where the operator can use it to control power steering force with light operating force. it is safety, reliable and smooth in the function and operation.

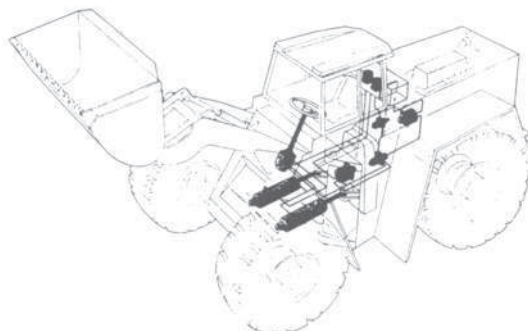
Model BZZ1、BZZ2、BZZ3 offer the following advantages:

- * Eliminate linkage-reduce cost, provide flexibility in design.
- * Provide operator comfortable.
- * Automatically reverts to emergency manual pump in case of engine failure.
- * Provide continuous unlimited control circuits and meter sizes.
- * Can work with many kinds of power steering pumps or fluid supply systems.

Model BZZ5 load sensing steering with above advantages, also has following features:

* Provide reliable, smooth pressure compensated steering, because pressure variations in the steering circuit do not affect steering response or maximum steering rate, and the steering circuit always has flow priority.

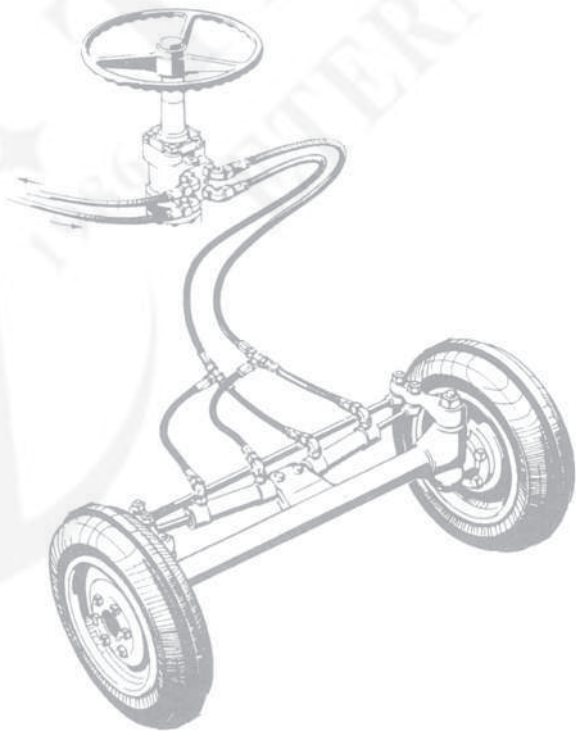
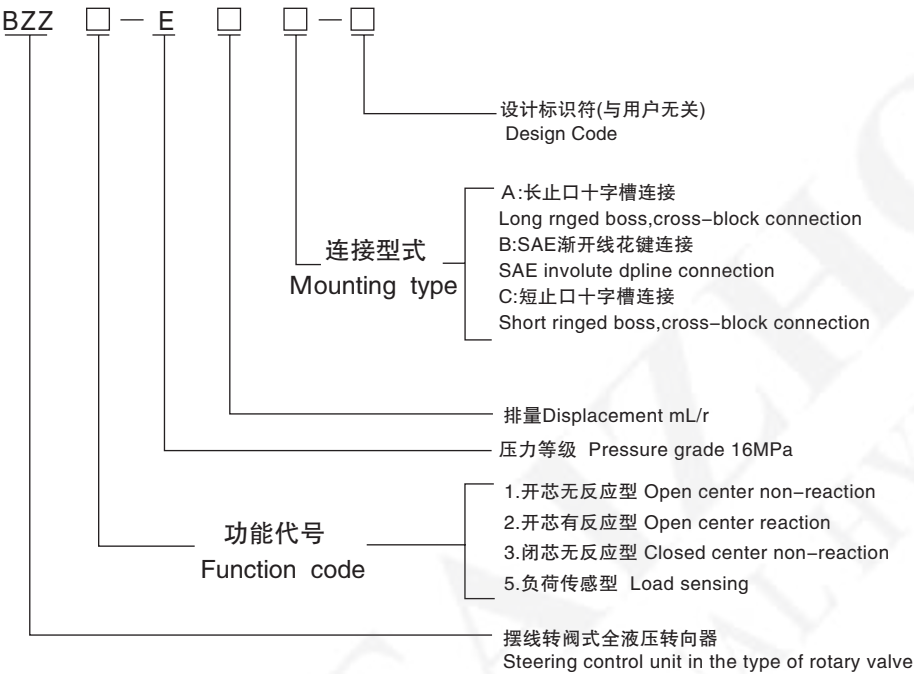
* Only the flow required by the steering maneuver goes to the steering circuit. Flow not required for steering is available for use in the auxiliary circuit. Therefore power loss is decreased, system efficiency is increased.



BZZ系列全液压转向器

Model BZZ Hydraulic Steering Unit

型号说明 Order Code



BZZ系列全液压转向器

Model BZZ Hydraulic Steering Unit

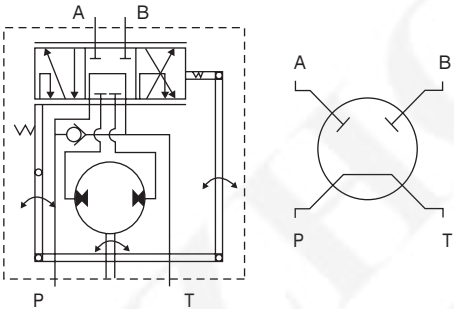
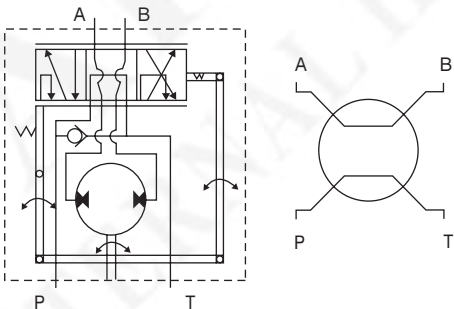
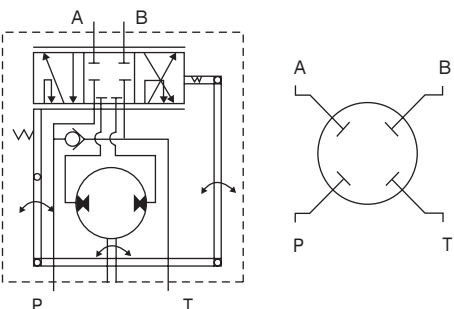
通用资料 General Deacription

BZZ型转向器的功能 Model BZZ F unction	BZZ型全液压转向器由一对旋转阀组和一对转定子啮合副组成.通过转向柱使转向器连接到车辆的方向盘上,当方向盘转动时,从转向系统供油泵来的油经旋转阀和转定子副流到油缸的左或右腔(取决于转动方向)。转定子副排出的油与方向盘的转角成正比.如果从转向系统供油泵来的油太少,该转向器则可当手动泵看待。 The steering unit consists of a rotary valve and a rotary meter. Via steering column the steering unit is connected to the steering whee of vehicle. When the steering wheel is turned, oil is directed from the steering system pump via the rotary valve (spool and sleeve) and rotary meter(Gerotor/Geroler gear set) to the cylinder ports L or R (depend on the direction of turn). The rotary meter meters the oil flow to the steering cylinder in proportion to the angular rotation of the steering wheel. if the oil flow from the steering system pump is too small,the steering unit can function sa a manual pump.
开芯系统 In open center system	释放方向盘,转向器中的旋转阀处于中位时,油泵和油箱之间是开环联接的。在中位开芯型转向系统中,一般使用定量油泵。 Released the wheel of steering, pump and tank are connected in open circuit when the rotary valve of steering unit is in the neutral position. Normally uses a fixed diaplacement pump.
闭芯系统 In closed center system	释放方向盘,转向器中的旋转阀处于中位时,转向器的进油端是关闭的。在中们芯型转向系统中,一般使用变量油泵。 Released the wheel of steering, pump and tank are disconnected in closed circuit when the rotary valve of steering unit is in the neutral position. Normally uses a pressure compensated variable displacement pump.
对转向柱的配备要求 Technical requirement forsteering column	转向柱的结构必须能保证不传递轴向负载到转向器的输入轴上,安装转向柱时应该使用转向器在完成操纵动作以后,能自动回到中位位置。 While the steering column connecting with the steering unit, No permit load force each other in either axial or radial. The unit automatically goes back to the neutral position after completed one work step with installing steering column.
转向柱上的操纵力 Operation guide of steeringcolume	在正常操纵条件下,动力单元的油泵供给足够的液压油,方向盘的最大输入扭矩不会超过$5N \cdot m$.如果动力单元的供油泵不能供油或供油量太少,转向器将自动切换成手动泵,在手动转向(即人力转向)状态下,方向盘的输入扭矩将会明显大于$5N \cdot m$,但最大输入扭矩请勿大于$120N \cdot m$,否则将会导致转向器内部部分零件损坏。 Under normal operating,the steering pump supplies an adequate oil flow dynamic units The maximum torque on steering wheel will not exceed $5N \cdot m$. If the oil flow from the steering syxtem pump fails or is too small, the steering unit can functionautomatically as a manual steering pump. Under manual steering, the input torque of steering wheel will exceed $5N \cdot m$ obviously. If torque exceeds $120N \cdot m$, some of parts of steering unit will be damaged inside.

BZZ系列全液压转向器

Model BZZ Hydraulic Steering Unit

功能符号 Function Code

BZZ1 开芯无反应型 Open center non-reaction	
BZZ2 开芯有反应型 Open center reaction	
BZZ3 闭芯无反应型 Closed center non-reaction	

BZZ系列全液压转向器

Model BZZ Hydraulic Steering Unit

主要技术参数 Main Specification

型 号 Model	排 量 Displacement (mL/r)	推荐流量 Flow (L/min)	最大入口压力 Max.input pressute(MPa)	最大连续背压 Max.cont.back pressute(MPa)	重 量 Weight (kg)
BZZ1、2、3-E50*	50	4	16	2.5	4.72
BZZ1、2、3-E63*	63	5			4.85
BZZ1、2、3-E80*	80	6			5.0
BZZ1、2、3-E100*	100	7.5			5.27
BZZ1、2、3-E125*	125	9.5			5.43
BZZ1、2、3-E160*	160	12			5.75
BZZ1、2、3-E200*	200	15			6.08
BZZ1、3-E250*	250	19			6.48
BZZ1、3-E280*	280	21			6.78
BZZ1、3-E315*	315	24			7.13
BZZ1、3-E400*	400	30			7.78
BZZ1、3-E500*	500	38			8.67
BZZ1、3-E630*	630	48			9.72
BZZ1、3-E800*	800	60			11.18
BZZ1、3-E1000*	1000	75			12.8

注:上表型号1、2、3、为单选值。Note: Up type no. 1,2,3, is single value.

低输入扭矩全注脚压转向器主要技术参数 Main Specification Of Low-input Torque Hydraulic Steering Control Units

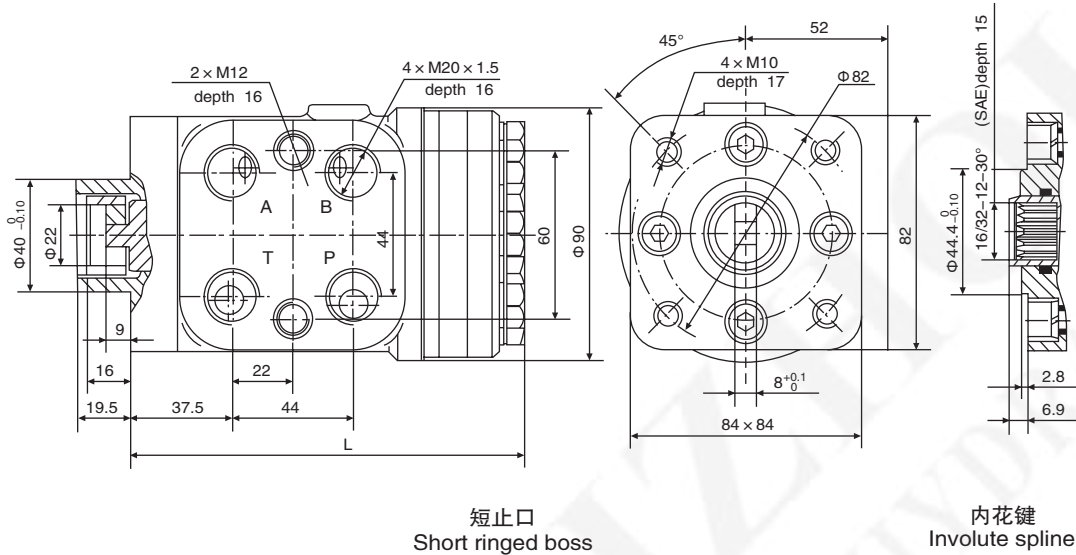
型 号 Model	排 量 Displacement (mL/r)	推荐流量 Flow (L/min)	最大入口压力 Max.input pressute(MPa)	最大连续背压 Max.cont.back pressute(MPa)	输入扭矩 Input torque (N · m)	重 量 Weight (kg)
BZZ1、2、3-E50*A	50	4	16	2.5	≤2.4	4.72
BZZ1、2、3-E63*A	63	5				4.85
BZZ1、2、3-E80*A	80	6				5.0
BZZ1、2、3-E100*A	100	7.5				5.27
BZZ1、2、3-E125*A	125	9.5				5.43
BZZ1、2、3-E160*A	160	12				5.75
BZZ1、2、3-E200*A	200	15				6.08
BZZ1、3-E250*A	250	19				6.48
BZZ1、3-E280*A	280	21				6.78
BZZ1、3-E315*A	315	24				7.13
BZZ1、3-E400*A	400	30				7.78

注:上表型号1、2、3、为单选值。Note: Up type no. 1,2,3, is single value.C

BZZ系列全液压转向器

Model BZZ Hydraulic Steering Unit

连接尺寸 Mounting Data



注：图于为短止口联接形式，长止口联接形式分别将图示9、16和19.5变为18、25和30.5
Note: Above is for short ringed boss connection dimension. When dimension is 18、25、30.5 instead of 9、16、19.5 long ringed boss connection is available for reference above.

型 号 Model	长 度 Length L(mm)
BZZ1、2、3-E50*	140
BZZ1、2、3-E63*	141
BZZ1、2、3-E80*	142.5
BZZ1、2、3-E100*	145
BZZ1、2、3-E125*	148
BZZ1、2、3-E160*	153
BZZ1、2、3-E200*	158
BZZ1、3-E250*	164
BZZ1、3-E280*	169
BZZ1、3-E315*	174
BZZ1、3-E400*	184
BZZ1、3-E500*	197
BZZ1、3-E630*	216
BZZ1、3-E800*	236
BZZ1、3-E1000*	262

注:上表型号1、2、3、为单选值。Note: Up type no. 1,2,3, is single value.

BZZ系列全液压转向器

Model BZZ Hydraulic Steering Unit

用途与特征/APPLICATIONS&FEATURES

在负荷传感型的转向系统中，转向系统和工作通过优先阀可使用同一个油泵或实现系统合流。同时，若使用带负载感应的油泵，负荷传感系统将会体现明显的节省能量效果。

负荷传感型转向器有一个Ls口连接到优先阀或负载感应油泵的Ls口，使转向器的转向负载压力信号油管（推荐管道长度≤2m）传送到优先阀或负载感应油泵，用以控制系统供给转向器的供油量。当负荷传感型转向器处于中位时，转向系统内只有小于2L/min的油量直接回流至油箱。

In load sensing steering systems, the oil for steering system and working circuit may be supplied by a pump via a priority valve of which can support extra amount of steering system oil into operating system, In addition when uses a pump with which is connected load reaction, energy of system will be saved.

A Ls inlet of load sensing steering unit is connected with a priority valve or with a Ls inlet of pump with load reaction. Via the oil hose (Be recommended length is less than 2m) the pressure signal of the steering load transfers from the steering unit to the priority valve or the pump with load reaction, so as to control the oil volume which is supplied to steering unit. In the neural position of load sensing steering unit, only less than 2L/ min oil of steering system direct to flow back to the tank.

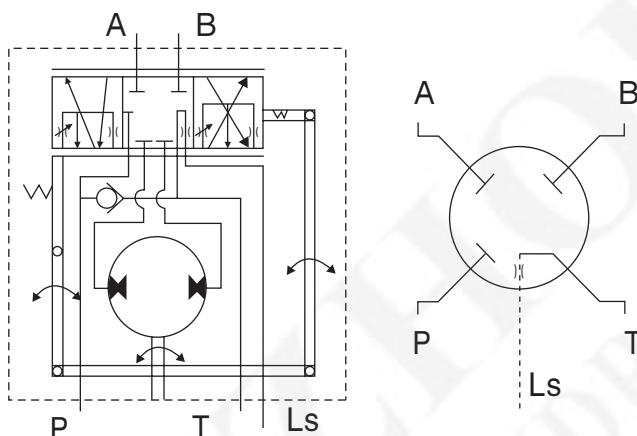
主要技术参数 Main Specification

型 号 Model	排 量 Displacement (mL/r)	方向盘允许 最高转速 Max.input speed(MPa)	最大入口压力 Max.input pressute (MPa)	最大连续背压 Max.cont.back pressute (MPa)	最大动力转向扭矩 Max.power steering torque (N · m)
BZZ5-E80 ^B _C	80	100	16	1.6	≤5
BZZ5-E100 ^B _C	100				
BZZ5-E125 ^B _C	125				
BZZ5-E160 ^B _C	160				
BZZ5-E200 ^B _C	200				
BZZ5-E250 ^B _C	250				
BZZ5-E315 ^B _C	315	75			
BZZ5-E400 ^B _C	400				
BZZ5-E500 ^B _C	500	60			
BZZ5-E630 ^B _C	630				
BZZ5-E800 ^B _C	800				
BZZ5-E1000 ^B _C	1000				

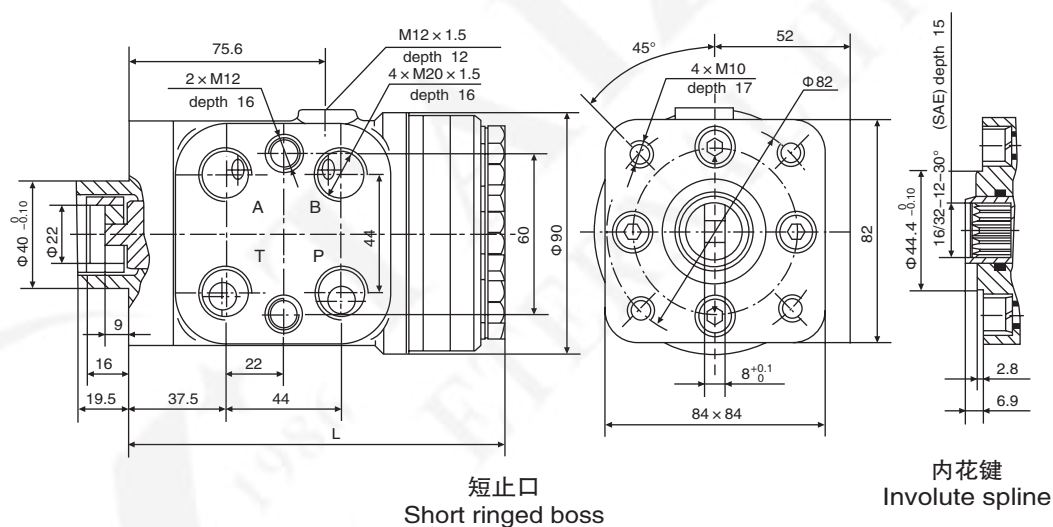
注:上表型号1、2、3、为单选值。Note: Up type no. 1,2,3, is single value.

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BZZ5
 负荷传感型
 Load sensing



连接尺寸 Mounting Data



型 号 Model	长 度 Length L (mm)
BZZ5-E80*	142.5
BZZ5-E100*	145
BZZ5-E125*	148
BZZ5-E160*	153
BZZ5-E200*	158
BZZ5-E250*	164

型 号 Model	长 度 Length L (mm)
BZZ5-E315*	174
BZZ5-E400*	184
BZZ5-E500*	197
BZZ5-E630*	216
BZZ5-E800*	236
BZZ5-E1000*	262