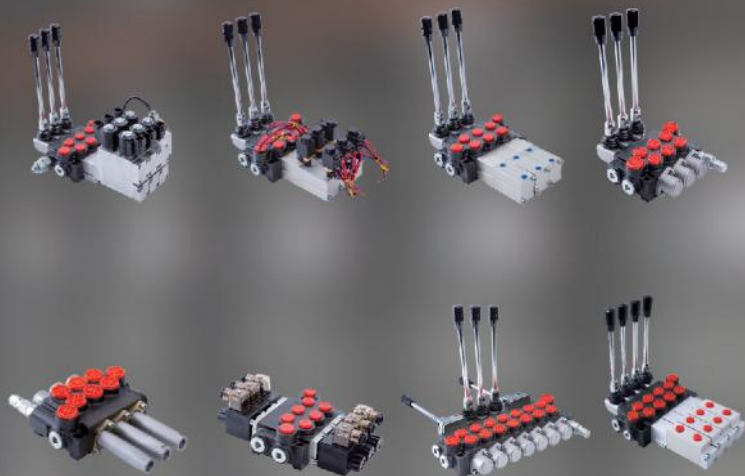




HAN JIU

P 系列多路换向阀

P Series Directional Control Valve



P40/50系列
P40/50 Series



P80系列
P80 Series



P120系列
P120 Series

Series Introduction

系列简介

As a masterpiece of general-purpose monoblock valve, P series directional control valve is a combination of advanced technology, excellent performance, diversified applications and safety protection. It mainly has the following characteristics:

Advanced technology, excellent performance - P series monoblock control valves bring together advanced hydraulic control technology to ensure its outstanding performance.

Diversified application areas - P series monoblock valves are popular for their excellent versatility and are widely used in agricultural machinery, small and medium-sized construction machinery and special vehicles etc.

Flexible control mode - P series monoblock valves provide you with a variety of control options, including manual, pneumatic, hydraulic, solenoid, electro-pneumatic, electro-hydraulic control and so on. This kind of flexibility makes the P series monoblock valves can adapt to different operational needs, thus providing a more convenient control experience.

High pressure carry-over (Power Beyond) port design - The high pressure carry-over (Power Beyond) port design gives it the ability to provide hydraulic power source for other hydraulic components. further enhancing performance and flexibility of the system, provide continuous strong power support for your equipment.



作为通用性整体式结构多路换向阀的杰作，P系列多路换向阀是一款集先进技术、卓越性能、多样化应用和安全保护于一身的顶尖产品，承载了无限的可能，在农业机械、中小型工程机械以及特种车辆等多个领域都广泛应用！它主要有以下特点：

先进技术，卓越性能-P系列多路换向阀汇聚了先进的液压控制技术，确保了其出色的性能表现。

多样化的应用领域-P系列多路换向阀以其出色的通用性而广受欢迎，广泛应用于多个领域

灵活的控制方式-P系列多路换向阀为您提供多种控制方式选择，包括手控、气控、液控、电磁控、电气控、电液控等。这种灵活性使得P系列多路换向阀能够适应不同的操作需求，从而提供更加便捷的控制体验。

高压过桥口设计-高压过桥口设计使其具备为其他液压元件提供液压动力源的能力，进一步增强了系统的整体性能和灵活性，为您的设备提供持续强劲的动力支持。

Ordering Code

订货编码

P XX / X - X - X - XXX - XXX ... - X - X
 (1) (2) (3) (4) (5) (6) (7) (5) (6) (7) (8) (9)

(1) Code: 40, 50, 80, 120

(2) Sections: 1-7

(3) Relief Valve Setting Pressure: 0-250(bar)

(4) Inlet Port Option: See TABLE-3

(5) Control Method Option: See TABLE-1

(6) Spool Function: See TABLE-2

(7) Spool Returning Way: See TABLE-4

(8) Working Port Option: See TABLE-3

(9) Outlet Port Option: See TABLE-3

(1) 代码: 40, 50, 80, 120

(2) 联数: 1-7

(3) 安全阀设定压力: 0-250(bar)

(4) 进油口选项: 见表3

(5) 控制方式: 见表1

(6) 阀杆机能: 见表2

(7) 阀杆复位方式: 见表4

(8) 工作油口选项: 见表3

(9) 出油口选项: 见表3

TABLE 1-CONTROLLING METHOD

表 1-控制方式

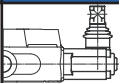
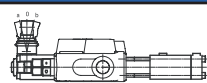
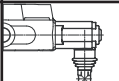
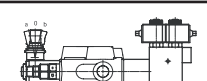
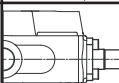
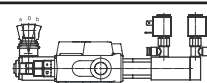
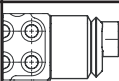
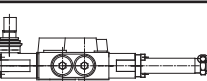
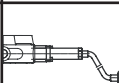
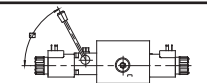
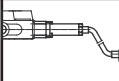
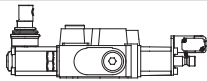
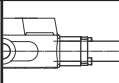
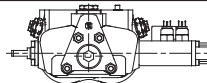
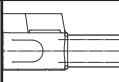
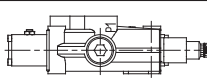
CODE 代码	TYPE VIEW 类型视图	DESCRIPTION 描述	CODE 代码	TYPE VIEW 类型视图	DESCRIPTION 描述
C1		Standard Handle 标准手柄	C9		Pneumatic Control (Pilot Operated Pressure: 5-10bar) 气 控 (先导控制压力: 5-10bar)
C2		Handle at 180° 手柄倒置180°	C10		Electro-hydraulic Control (Pilot operated pressure: 20-25bar) 电液控 (先导控制压力: 20-25bar)
C3		No Handle 无手柄	C11		Electro-pneumatic Control (Pilot operated pressure: 5-10bar) 电气控 (先导控制压力: 5-10bar)
C4		Joystick 一控二手柄	C12		Manual & Cable Base 手控+软轴座
C5		Handle with Cable (Cable Length can be customized) 一控一手柄带软轴 (软轴长度可定制)	C13		Solenoid Control (With Emergency Control Handle) 电磁控 (带应急控制手柄)
C6		Joystick with Cable (Cable Length can be customized) 一控二手柄带软轴 (软轴长度可定制)	C14		Manual & Micro Switch (Normal On/Off Micro Switch) 手控+微动开关 (普通开/关式微动开关)
C7		Cable Base 软轴底座	C15		Manual & Micro Switch (NC/NO Micro Switch with Spool Stroke Detect) 手控+微动开关 (常通/常闭型带阀杆行程检测微动开关)
C8		Hydraulic Control (Pilot Operated Pressure: 20-25bar) 液 控 (先导控制压力: 20-25bar)	C16		Rotary Manual Control 旋转手柄控制

TABLE 2-SPOOL FUNCTION

表 2-阀杆机能选项

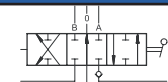
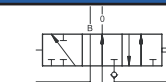
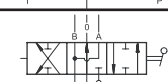
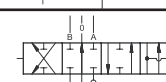
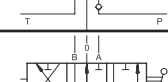
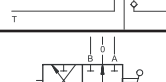
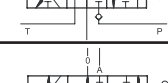
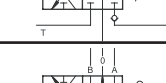
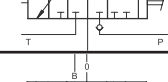
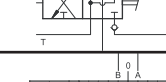
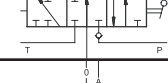
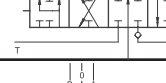
Code 代 码	Spool type 阀杆类型	Description 描 述	Code 代 码	Spool type 阀杆类型	Description 描 述
ST1		3 Positions, Double Acting, A/B Closed at Neutral 3位, 双动作, 中位A, B口封闭	ST8		3 Positions, Single Acting at B B Open at Neutral 3位, B口单动作, 中位B口开启
ST2		3 Positions, Double Acting, A/B Open at Neutral 3位, 双动作, 中位A, B口开启	ST9		4 Positions, Double Acting, with Floating Position-B 4位, 双动作, 带浮动位(后)
ST3		3 Positions, Double Acting, A Open at Neutral 3位, 双动作, 中位A口开启	ST10		4 Positions, Double Acting, with Floating Position-F 4位, 双动作, 带浮动位(前)
ST4		3 Positions, Double Acting, B Open at Neutral 3位, 双动作, 中位B口开启	ST11		2 Positions, Double Acting, A/B Closed at Neutral 2位, 双动作, 中位A/B口关闭
ST5		3 Positions, Single Acting at A A Closed at Neutral 3位, A口单动作, 中位A口关闭	ST12		2 Positions, Double Acting, A/B Open at Neutral 2位, 双动作, 中位A/B口开启
ST6		3 Positions, Single Acting at B B Closed at Neutral 3位, B口单动作, 中位B口关闭	ST13		4 Positions, Double Acting, with Differential Position-F 4位, 双动作, 带差速位(前)
ST7		3 Positions, Single Acting at A A Open at Neutral 3位, A口单动作, 中位A口开启	ST14		4 Positions, Double Acting, with Differential Position-B 4位, 双动作, 带差速位(后)

TABLE 3-PORT SIZE OPTION

表 3-油口选项

BSP THREAD 英制螺纹		METRIC THREAD 公制螺纹		US STANDARD UNF THREAD 美标UNF螺纹		US STANDARD NPT THREAD 美标NPT螺纹	
Code 代号	Thread size 螺纹尺寸	Code 代号	Thread size 螺纹尺寸	Code 代号	Thread size 螺纹尺寸	Code 代号	Thread size 螺纹尺寸
G06	G3/8	M18	M18X1.5	U10	9/16-18UNF	N04	NPT1/4
G08	G1/2	M20	M20X1.5	U12	3/4-16UNF	N06	NPT3/8
G12	G3/4	M22	M22X1.5	U14	7/8-14UNF	N08	NPT1/2
G16	G1	M27	M27X2.0	U16	1-1/16-12 UNF	N12	NPT3/4
G18	G1-1/4	M33	M33X2.0	U20	1-5/16 -12 UNF	N16	NPT1
G20	G1-3/4						

TABLE 4-SPOOL RETURNING TYPE

表 4-阀杆复位方式

CODE 代码	TYPE VIEW 类型视图	DESCRIPTION 描述	CODE 代码	TYPE VIEW 类型视图	DESCRIPTION 描述
D1		Spring Return 弹簧复位	D8		2 Positions, Spring Return (Only suitable for ST11/ST12) 2位, 弹簧复位(适用ST11/12)
D2		Detent at A&B, Spring Return to Neutral Position A、B定位, 中位弹簧复位	D9		2 Positions, Spring Return (Only suitable for ST11/ST12) 2位, 弹簧复位(适用ST11/12)
D3		Detent at A, Spring Return to Neutral Position and B A定位, 中位及B位置弹簧复位	D10		Detent at B, Spring Return to Neutral Position (ST11/12) B定位, 中位弹簧复位(ST11/12)
D4		Detent at B, Spring Return to Neutral Position and A B定位, 中位及A位置弹簧复位	D11		2 Positions, Detent at 0/B (Suitable for ST11/12) 2位, 全定位(适用于ST11/12)
D5		4 Positions, 4 th floating position detent, spring return to A/0/B 4位, 浮动定位, A/0/B弹簧复位	D12		Detent at A, Spring Return to Neutral Position (ST11/12) A定位, 中位弹簧复位(ST11/12)
D6		4 Positions, All Detent 4位, 4位全定位	D13		2 Positions, Detent at 0/A (Suitable for ST11/12) 2位, 全定位(适用于ST11/12)
D7		3 Positions, All Detent 3位, 3位全定位			

P40 Series Monoblock Valve

P40系列整体式多路换向阀

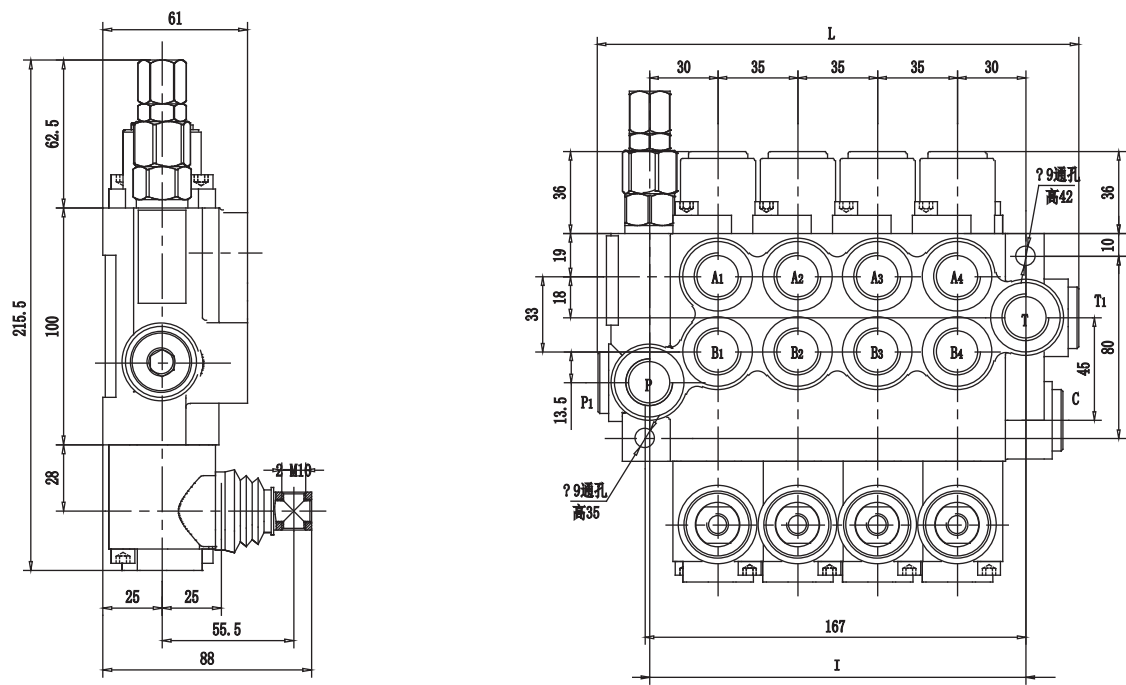


Technical Parameters | 技术参数

Item 项 目	Parameter 参 数	
Nominal Flow Rate 额定流量	40 L/min	10.5 GPM
Max Pressure 最大压力	250 bar	3626 PSI
Operating Viscosity Range 工作粘度范围	15 ~ 75 mm ² /s	15 ~ 75 CST
Ambient Temperature Range 环境温度范围	-40° ~ 80°C	-40° ~ 176°F
Structure 结 构	Monoblock: 1-7 Sections 整体式: 1-7联	
Controlling Method 控制方式	Manual, Hydraulic, Pneumatic, Electro-pneumatic, Electro-hydraulic, Solenoid, Joystick, Joystick and Cable, Micro Switch 手控, 液控, 气控, 电气控, 电液控, 电磁控, 一控二手柄控制, 一控一/一控二软管控制, 微动控制	

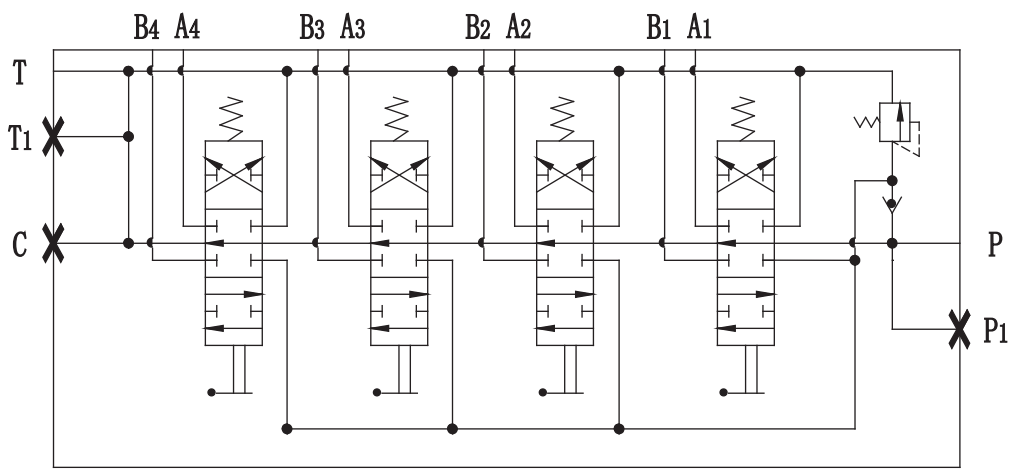
P40 Series Monoblock Valve
P40系列整体式多路换向阀

Drawing & Dimensions | 图纸和尺寸



Sections	1	2	3	4	5	6	7
I(mm)	62	97	132	167	202	237	272
L(mm)	96.5	131.5	166.5	201.5	236.5	271.5	306.5

Hydraulic Schematic | 液压原理图



P50 Series Monoblock Valve

P50系列整体式多路换向阀

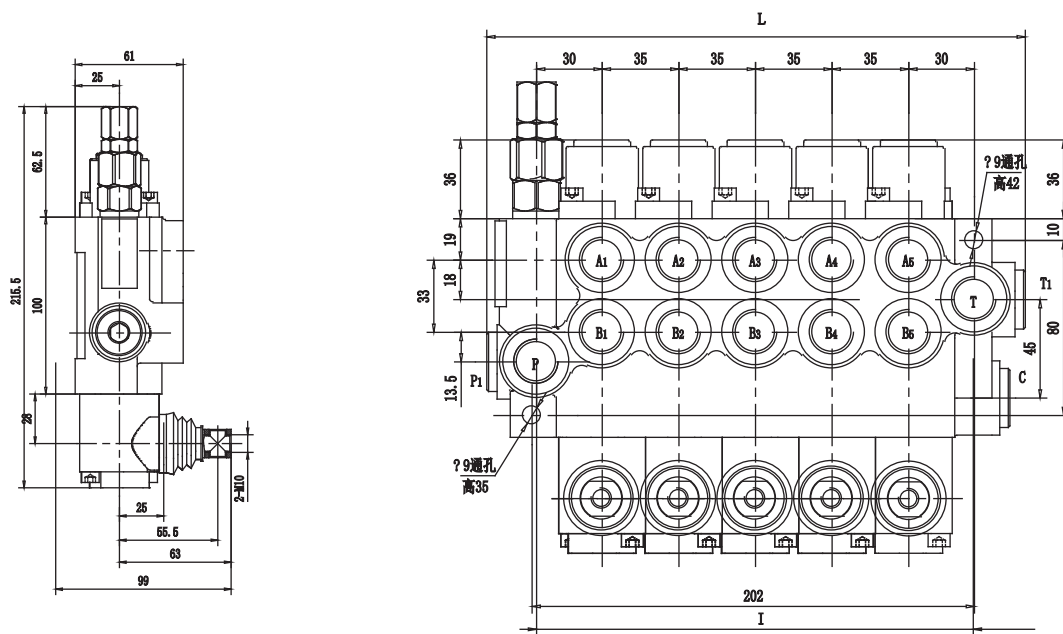


Technical Parameters | 技术参数

Item 项 目	Parameter 参 数	
Nominal Flow Rate 额定流量	50 L/min	13.2 GPM
Max Pressure 最大压力	250 bar	3626 PSI
Operating Viscosity Range 工作粘度范围	15 ~ 75 mm ² /s	15 ~ 75 CST
Ambient Temperature Range 环境温度范围	-40° ~ 80°C	-40° ~ 176°F
Structure 结 构	Monoblock: 1-7 Sections 整体式: 1-7联	
Controlling Method 控制方式	Manual, Hydraulic, Pneumatic, Electro-pneumatic, Electro-hydraulic, Solenoid, Joystick, Joystick and Cable 手控, 液控, 气控, 电气控, 电液控, 电磁控, 一控二手柄控制, 一控一/一控二软轴控制	

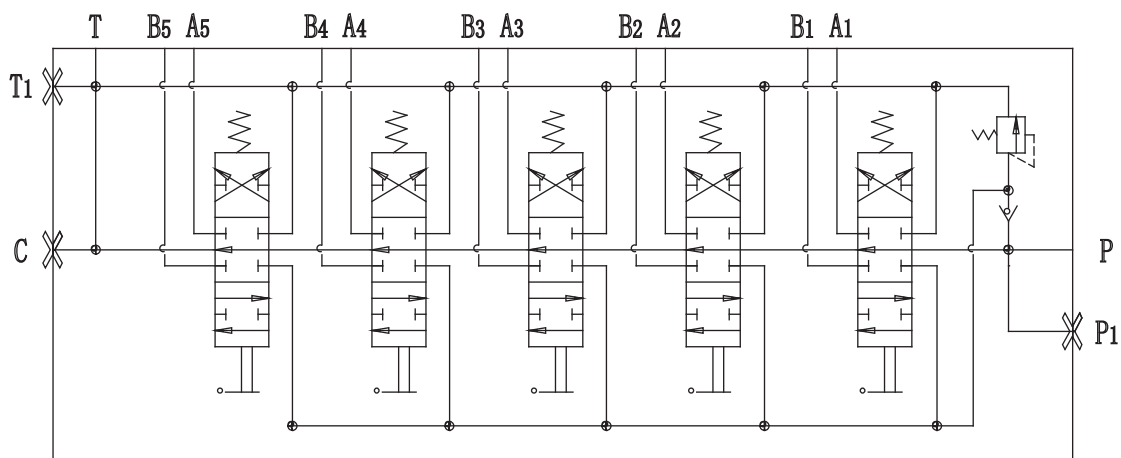
P50系列整体式多路换向阀

Drawing & Dimensions | 图纸和尺寸



<i>Sections</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>7</i>
<i>I(mm)</i>	<i>62</i>	<i>97</i>	<i>132</i>	<i>167</i>	<i>202</i>	<i>237</i>	<i>272</i>
<i>L(mm)</i>	<i>96.5</i>	<i>131.5</i>	<i>166.5</i>	<i>201.5</i>	<i>236.5</i>	<i>271.5</i>	<i>306.5</i>

Hydraulic Schematic | 液压原理图



P80 Series Monoblock Valve

P80系列整体式多路换向阀



Technical Parameters | 技术参数

Item 项 目	Parameter 参 数	
Nominal Flow Rate 额定流量	80 L/min	21 GPM
Max Pressure 最大压力	250 bar	3626 PSI
Operating Viscosity Range 工作粘度范围	15 ~ 75 mm ² /s	15 ~ 75 CST
Ambient Temperature Range 环境温度范围	-40° ~ 80°C	-40° ~ 176°F
Structure 结 构	Monoblock: 1-7 Sections 整体式: 1-7联	
Controlling Method 控制方式	Manual, Hydraulic, Pneumatic, Electro-pneumatic, Electro-hydraulic, Solenoid, Joystick, Joystick and Cable 手控, 液控, 气控, 电气控, 电液控, 电磁控, 一控二手柄控制, 一控一/一控二软轴控制	

P80Z Under Carriage Valve

P80Z下车阀

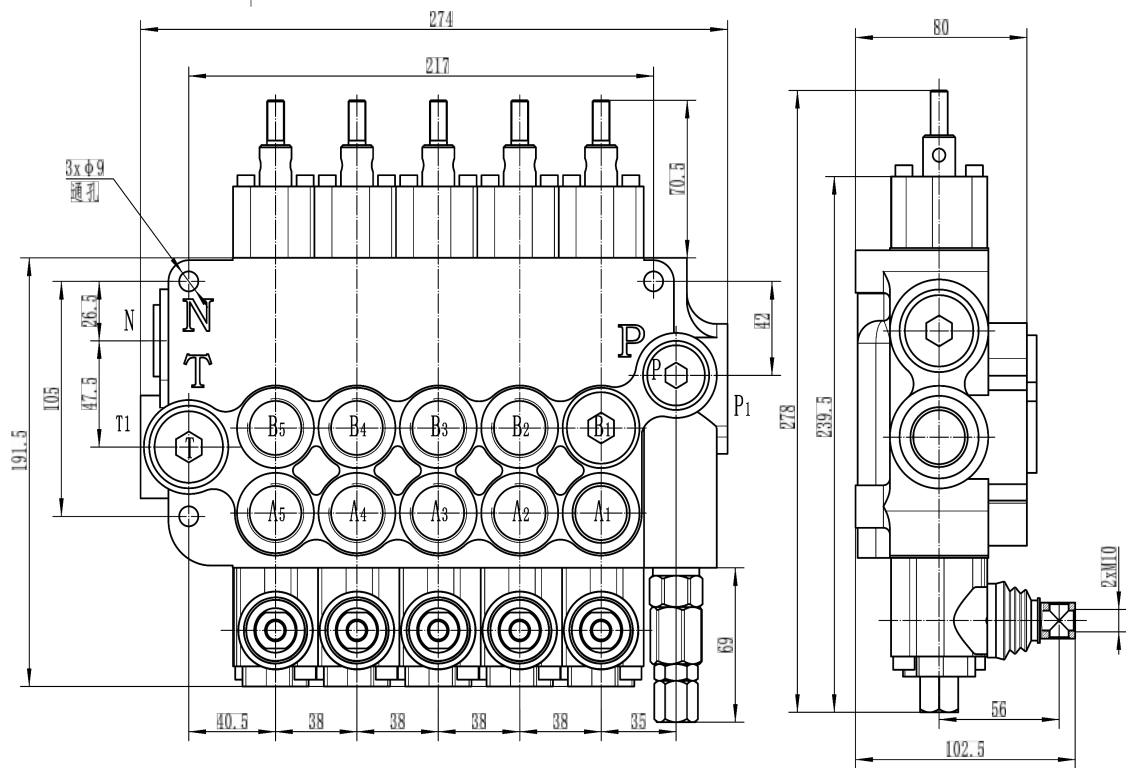


Technical Parameters | 技术参数

Item 项 目	Parameter 参 数	
Nominal Flow Rate 额定流量	80 L/min	21 GPM
Max Pressure 最大压力	250 bar	3626 PSI
Operating Viscosity Range 工作粘度范围	15 ~ 75 mm ² /s	15 ~ 75 CST
Ambient Temperature Range 环境温度范围	-40° ~ 80°C	-40° ~ 176°F
Structure 结 构	Monoblock: 1-7 Sections 整体式: 1-7联	
Controlling Method 控制方式	Manual, Hydraulic, Pneumatic, Electro-pneumatic, Electro-hydraulic, Solenoid, Joystick, Joystick and Cable 手控, 液控, 气控, 电气控, 电液控, 电磁控, 一控二手柄控制, 一控一/一控二软轴控制	

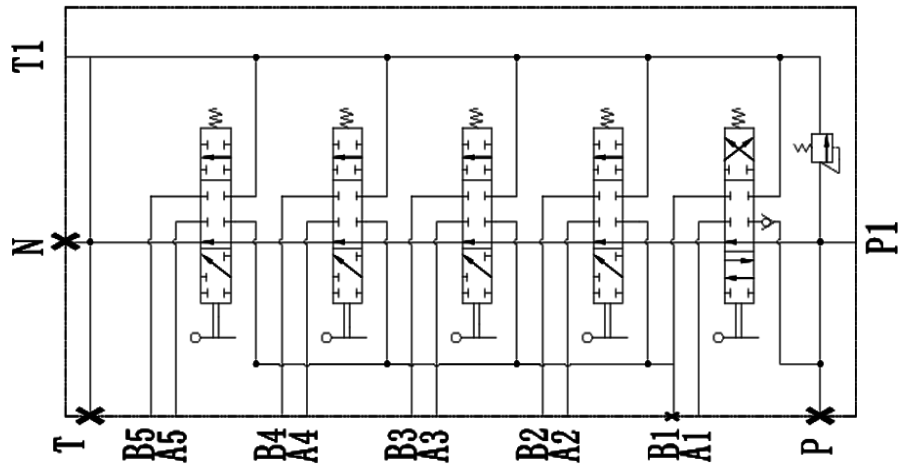
P80Z Under Carriage Valve
P80Z下车阀

Drawing & Dimensions | 图纸和尺寸



Sections	1	2	3	4	5	6	
I(mm)	65	103	141	179	217	255	293
L(mm)	105	143	181	219	257	295	333

Hydraulic Schematic | 液压原理图



P120 Series Monoblock Valve

P120系列整体式多路换向阀

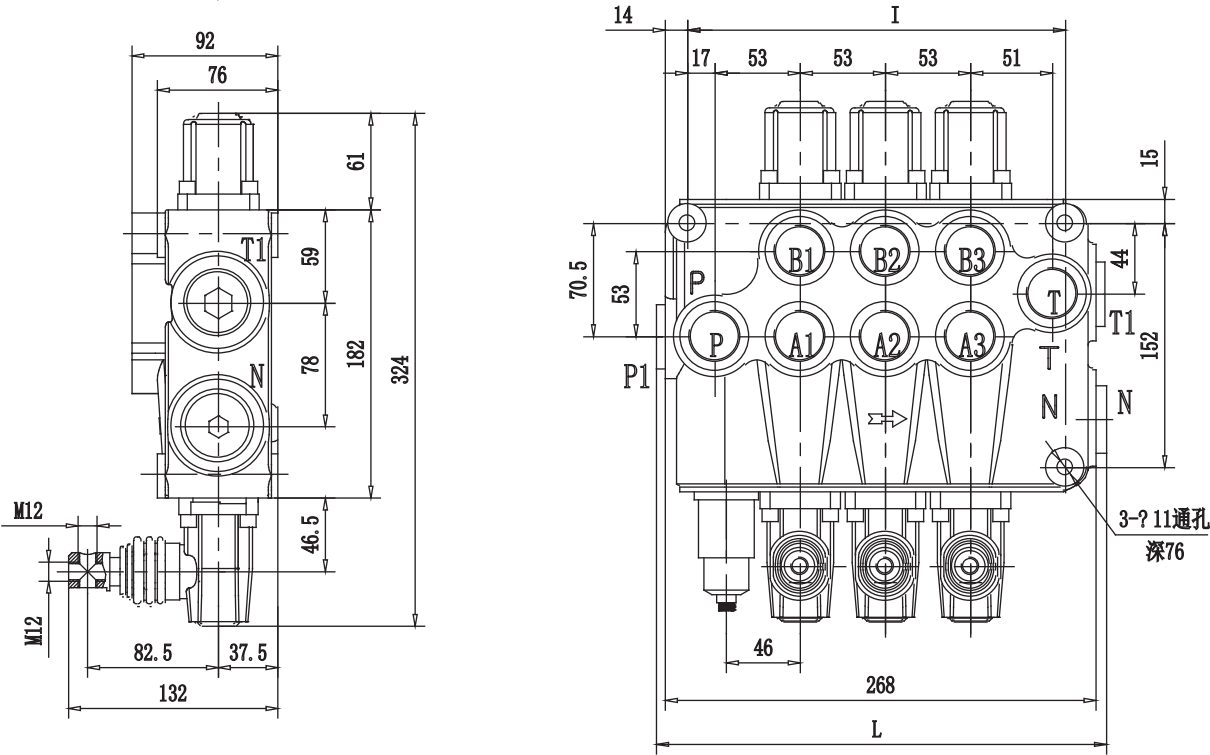


Technical Parameters | 技术参数

Item 项 目	Parameter 参 数	
Nominal Flow Rate 额定流量	120 L/min	31.5 GPM
Max Pressure 最大压力	250 bar	3626 PSI
Operating Viscosity Range 工作粘度范围	15 ~ 75 mm ² /s	15 ~ 75 CST
Ambient Temperature Range 环境温度范围	-40° ~ 80°C	-40° ~ 176°F
Structure 结 构	Monoblock: 1-4 Sections 整体式: 1-4联	
Controlling Method 控制方式	Manual, Hydraulic, Pneumatic, Electro-pneumatic, Electro-hydraulic, Solenoid, Joystick, Joystick and Cable, Rotary Control 手动, 液控, 气控, 电气控, 电液控, 电磁控, 一控二手柄控制, 一控一/一控二软轴控制, 旋转手柄	

P120 Series Monoblock Valve
P120系列整体式多路换向阀

Drawing & Dimensions | 图纸和尺寸



Sections	1	2	3	4
I(mm)	129	182	235	288
L(mm)	160	213	266	319

Hydraulic Schematic | 液压原理图

