

Stackable Hydraulic Control Device

叠加式液控先导手柄

MCJ02A

Features 产品特点

- Compact and light weight
结构紧凑，轻便
- Progressive and sensitive operation
递进式灵敏控制
- Precise control and precise metering
精密线性控制
- Comfort driven, low operating force
操作力小，具有舒适的操控性能
- High durability, low energy consumption and low maintenance
高寿命，低耗能，低维护成本



Technical Specification 技术参数

Maximum pressure 最高工作压力	100 bar
Maximum flow 最大流量	15 L/min
Leakage (single port) 内泄漏量	3 cc/min (with 50 bar of pressure) 3 cc/min (@50 bar 测试)

Applications 典型应用领域

- Mini steer loaders, backhoe loaders, tractors
小型滑移装载机，挖掘装载机，拖拉机

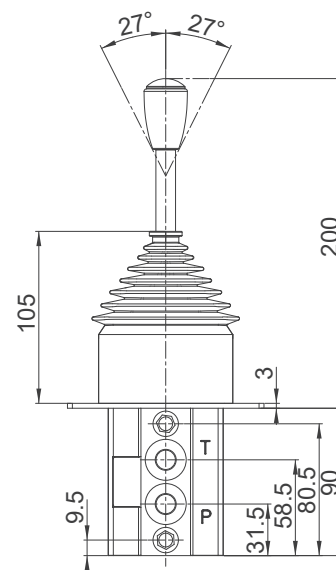
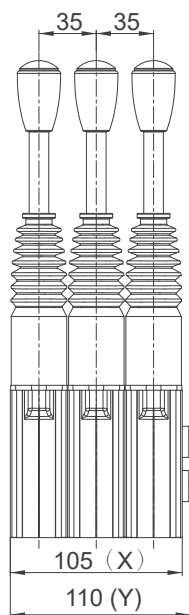
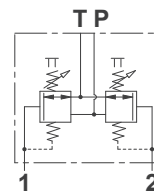
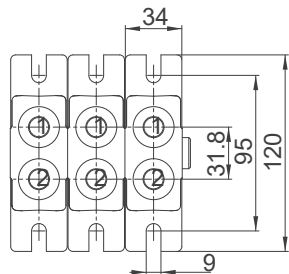


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Dimensions & Hydraulic Symbol 安装尺寸和液压符号



Type 类别	X (mm)	Y (mm)	Weight 重量 (kg)
MCJ02A/1	35	40	1.8
MCJ02A/2	70	75	3.6
MCJ02A/3	105	110	5.4
MCJ02A/4	140	145	7.2
MCJ02A/5	175	180	9.0
MCJ02A/6	210	215	10.8
MCJ02A/7	245	250	12.6
MCJ02A/8	280	285	14.4
MCJ02A/9	315	320	16.2
MCJ02A/10	350	355	18.0
MCJ02A/11	385	390	19.8
MCJ02A/12	420	425	21.6

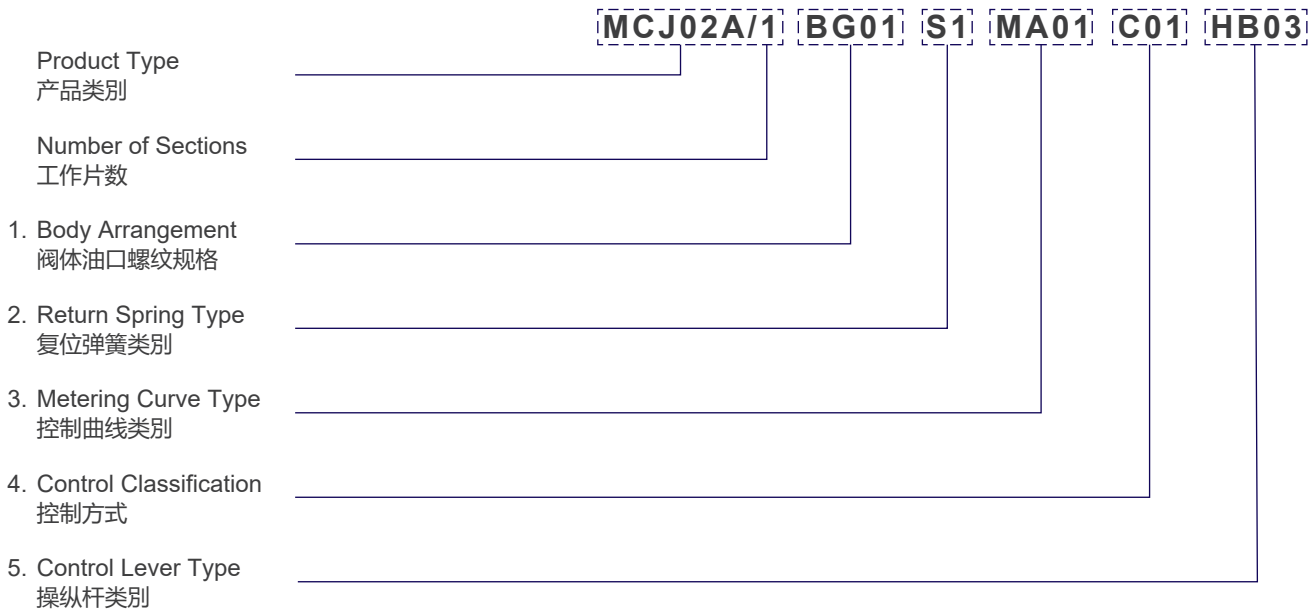
Ports 油口	BSP Thread (ISO 1179-1)	UN-UNF Thread (ISO 11926-1)
Inlet (P)	G 1/4	9/16-18 UNF
Ports (1 - 2)	G 1/4	9/16-18 UNF
Outlet (T)	G 1/4	9/16-18 UNF

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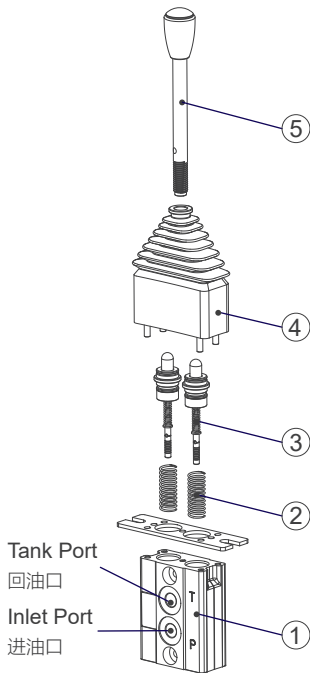
Ordering Codes 订货型号



Ordering code in position 2 and 3 must be selected for each port when ordering.

每个控制油口都要选择 2 和 3 项。

Complete Sample 完整示例: MCJ02A/1 BG01 S1 MA01 S1 MA01 C01 HB03



Position 位置	Code 型号	Description 描述	Page 页码
1	BG01	Body arrangement 阀体油口螺纹规格	P.31
2	S1	Return spring type (port 1) 复位弹簧 (控制油口 1)	P.31
3	MA01	Metering curve (port 1) 控制曲线 (控制油口 1)	P.32
2	S1	Return spring type (port 2) 复位弹簧 (控制油口 2)	P.31
3	MA01	Metering curve (port 2) 控制曲线 (控制油口 2)	P.32
4	C01	Control classification 控制方式	P.33
5	HB03	Control lever type 操纵杆类型	P.34

■ Example of MCJ02A with 3 sections:
以 MCJ02A/3 为例, 订货型号如下:

MCJ02A/3

BG01 S1 MA01 S1 MA01 C01 HB03

BG01 S1 MA01 S1 MA01 C01 HB03

BG01 S1 MA01 S1 MA01 C01 HB03

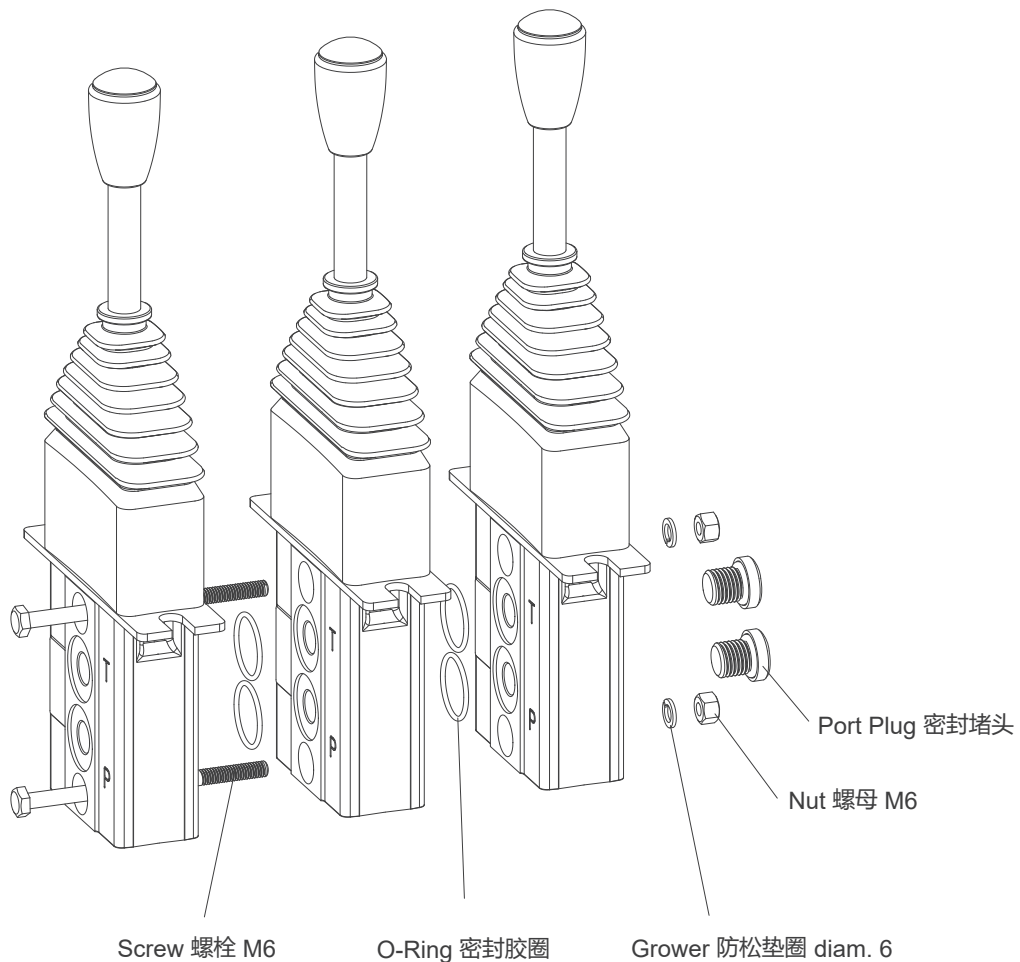
Stackable Hydraulic Control Device

叠加式液控先导手柄

MCJ02A

Assembly kits contain tie rods, nuts, growers and o-rings. Maximum assembly: 12 sections.

组合两片以上的叠加先导手柄时，需要由螺杆、锁紧螺母、防松垫圈和密封胶圈组装，最多可组合 12 片。



Example of MCJ02A with 3 sections 以 MCJ02A/3 叠加手柄为例

These assembly sections including:

所需组件包括:

- Tie rods x 2 sets
螺杆组件 2 套
- O-rings x 4 pcs
密封胶圈 4 个
- Port plugs x 2 pcs
密封堵头 2 个

Selections for MCJ02A Series

MCJ02A 系列配置选项

Body Arrangement 阀体油口螺纹规格

MCJ02A standard body is available in two configurations: SAE thread or BSP thread.

MCJ02A 系列标准阀体连接油口有两种规格可选：SAE 螺纹和 BSP 螺纹，具体请见下表：

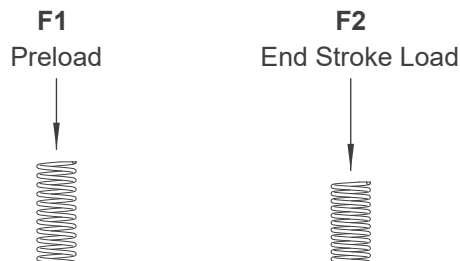
Code 型号	Description 描述	Drawing 简图
BG01	Standard body with ports G 1/4 进油口、回油口、先导控制油口均为 G 1/4	
BU01	Standard body with ports 9/16-18UNF 进油口、回油口、先导控制油口均为 9/16-18UNF	

Return Spring 复位弹簧

Two types of springs are available in each service port. Return spring must be selected.

The relative values are shown here below.

叠加式液控先导手柄复位弹簧有两种类型可选，每一组控制曲线都必须选配一个复位弹簧，具体参数请见下表：



Code 型号	F1 (N)	F2 (N)
S1	15	28
S2	24	40

Selections for MCJ02A Series

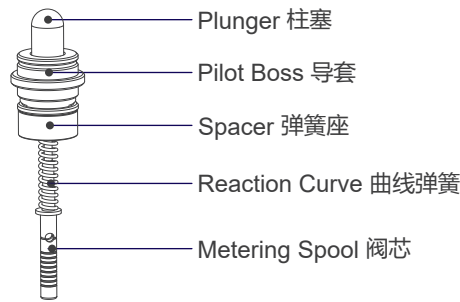
MCJ02A 系列配置选项

Metering Curve 控制曲线

The metering curve classification depends on working pressure and stroke length. Two types of metering curves are available currently (MA type and MB type).

叠加式液控先导手柄控制曲线根据控制压力和行程分类。

目前有两种类型的曲线：具有跃阶的控制曲线 (MA 型) 和没有跃阶的控制曲线 (MB 型)。具体参数请见下表：



Code 型号	Pressure 压力		Stroke 行程		Linear Metering Curve with Step 控制曲线带跃阶 (MA)
	P1 (bar)	P2 (bar)	S1 (mm)	S2 (mm)	
MA01	5	25	1.2	7.2	
MA02	5.8	19.5	1.2	7.2	
MA03	5	22	1.2	7.2	
MA04	5	15	1.2	7.2	
MA05	5	20	1.2	7.2	

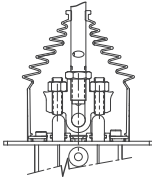
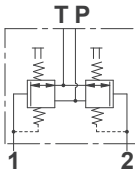
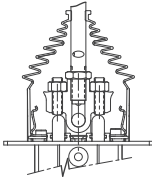
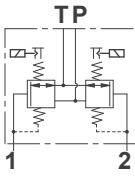
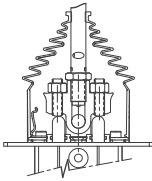
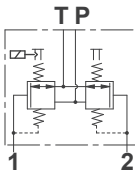
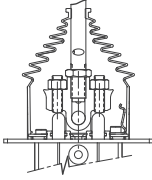
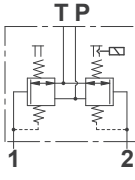
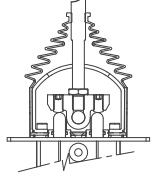
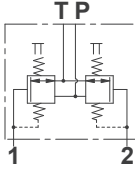
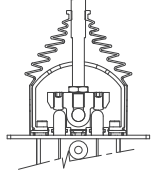
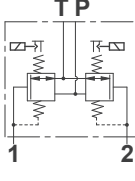
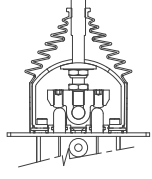
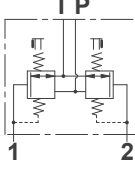
Code 型号	Pressure 压力		Stroke 行程		Linear Metering Curve without Step 控制曲线不带跃阶 (MB)
	P1 (bar)	P2 (bar)	S1 (mm)	S2 (mm)	
MB01	5	25	1.2	8	
MB02	5.8	19.5	1.2	8	
MB03	5	22	1.2	8	
MB04	5	15	1.2	8	
MB05	5	20	1.2	8	

Selections for MCJ02A Series

MCJ02A 系列配置选项

Control Classification 控制方式

All control actuation types are interchangeable. Control lever type must be chosen according to different control type.
所有控制方式都可以互换，根据不同的控制方式选择相应的操纵杆。

Code 型号	Description 描述	Drawing 简图	Configuration 配置
C01	Return spring in neutral 中位弹簧复位		
C02	Stroke end mechanical detent in position 1 and 2 带机械定位于控制口 1 - 2		
C03	Stroke end mechanical detent in position 1 带机械定位于控制口 1		
C04	Stroke end mechanical detent in position 2 带机械定位于控制口 2		
C21	Return spring in neutral (arch version) 中位弹簧复位(弓形版)		
C22	Stroke end mechanical detent in position 1 and 2 (arch version) 带机械定位于控制口 1 - 2 (弓形版)		
C31	Friction (arch version) 带摩擦片定位(弓形版)		

Selections for MCJ02A Series

MCJ02A 系列配置选项

Control Lever Type 操纵杆类别

MCJ02A series control levers are shown here below.

MCJ02A 系列标准的操纵杆如下表所示，可按照客户要求定制。

Code 型号	Dimensions 尺寸	Drawing 简图
HB01		
HB02		
HB03		
HB04		

Control lever type must be chosen according to different control kit.

不同的控制方式选用不同的操纵杆，具体请见下表：

Control Classification 控制方式	HB01	HB02	HB03	HB04
C01	✓		✓	
C02	✓		✓	
C03	✓		✓	
C04	✓		✓	
C21		✓		✓
C22		✓		
C31		✓		✓