

## Contact Details

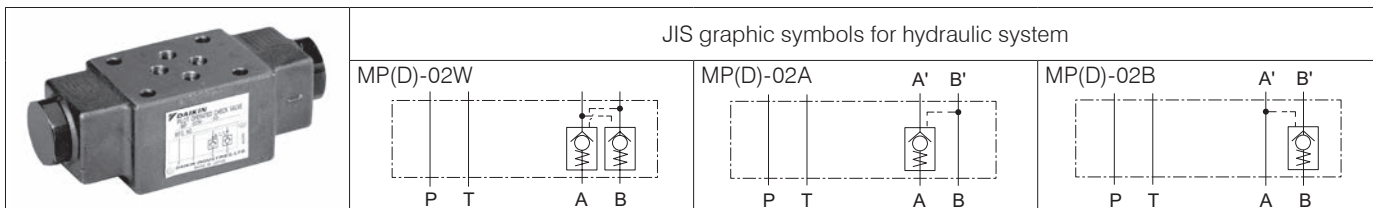
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# 02 Series Stacking Type Pilot Operated Check Valves



## Nomenclature

※ - MP ※ - 02 ※ - ※※ - ※※

1 2 3 4 5 6 7

### 1 Applicable fluid code

No designation: Petroleum-based hydraulic fluid, water-glycol hydraulic fluid  
F: Phosphate ester hydraulic fluid

### 2 Model No.

MP: Modular stacking type pilot operated check valve

### 3 Decompression code

No designation: Direct operated type  
D: Decompression type (applicable only to design No. 55)

### 4 Nominal diameter

02: ¼

### 5 Control port

W: Port A/B  
A: Port A  
B: Port B

### 6 Cracking pressure code

20: 0.2 MPa {2 kgf/cm<sup>2</sup>}  
50: 0.5 MPa {5 kgf/cm<sup>2</sup>}

### 7 Design No.

**(The design No. is subject to change)**

55: 25 MPa {250 kgf/cm<sup>2</sup>}  
60: 35 MPa {350 kgf/cm<sup>2</sup>}

## Specifications

Model code	Maximum operating pressure MPa {kgf/cm <sup>2</sup> }	Maximum flow rate L/min	Cracking pressure MPa {kgf/cm <sup>2</sup> }	Area ratio *1	Mass kg
MP※-02※-20-55	25 {250}	40	0.2 {2}	(1) 2.7 :1	1.1
MP※-02※-50-55			0.5 {5}		
MP-02※-20-60	35 {350}	40	0.2 {2}	(2) 1.96:1	1.2
MP-02※-50-60			0.5 {5}		

Note: \*1 Area ratio (1) <MP> Pilot piston: Check valve (2) <MPD> Pilot piston: Large check valve (3) <MPD> Pilot piston: Small check valve

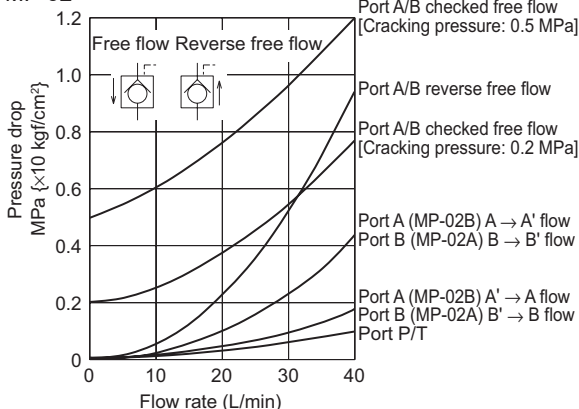
## Handling

- The internal drain type is adopted.

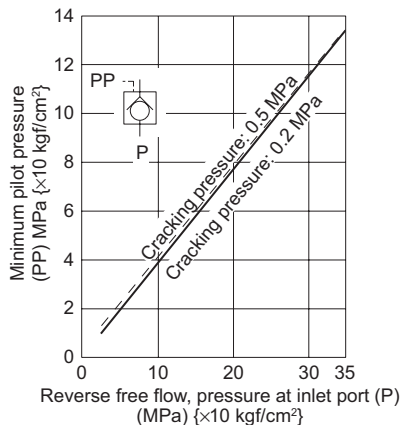
## Performance curves (viscosity: 32 mm<sup>2</sup>/s {cSt})

### Pressure drop characteristics

MP-02※-※※-※※

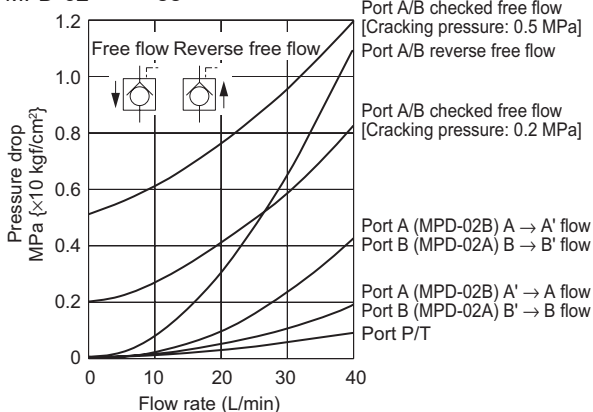


### Pilot pressure characteristics

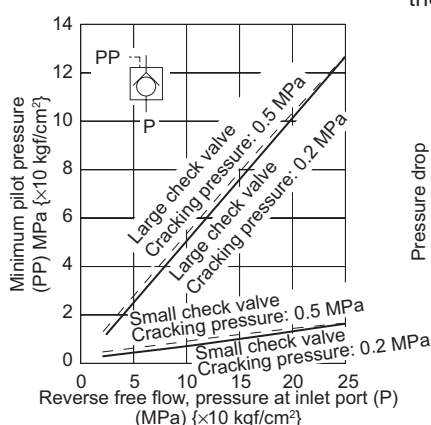


### Pressure drop characteristics

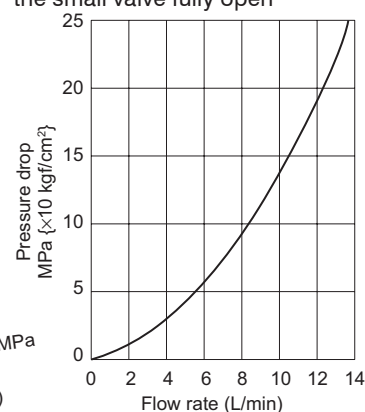
MPD-02※-※※-55



### Pilot pressure characteristics



### Pressure drop characteristics with the small valve fully open



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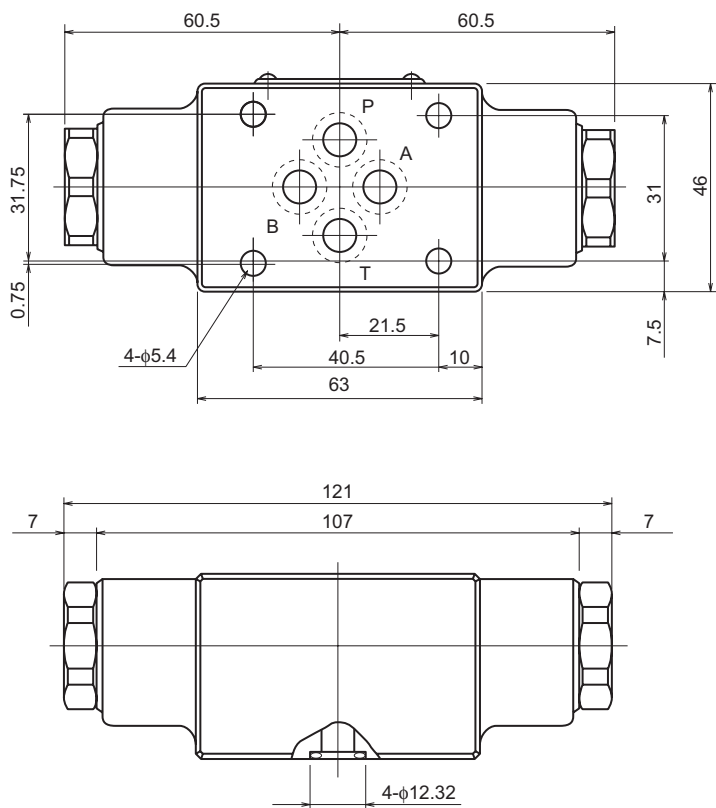
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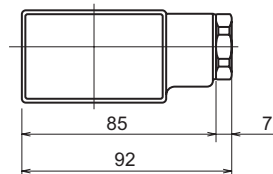
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## External dimension diagram

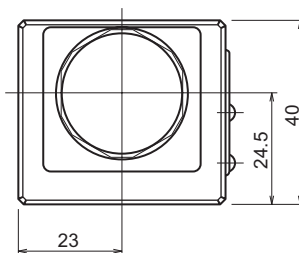
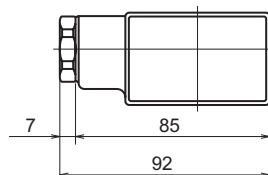
MP(D)-02W-55



MP(D)-02A-55



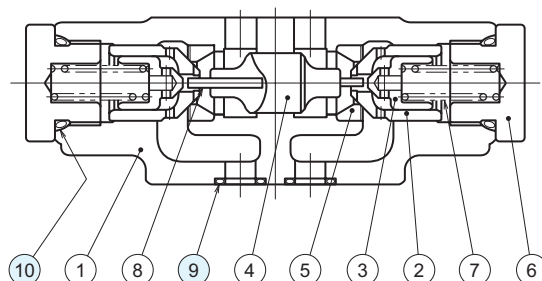
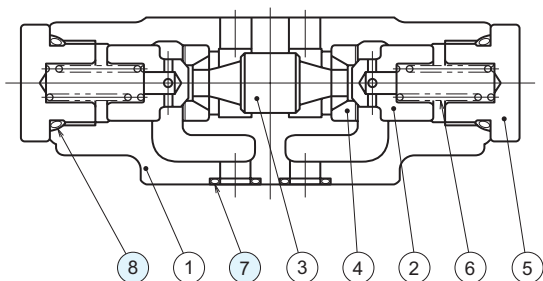
MP(D)-02B-55



## Sectional structural diagram

MP-02※-55

MPD-02※-55



### Sealing part table

Part No.	Name	Quantity		Part specifications
		MP-02W	MP-02A, B	
7	O-ring	4	4	AS568-012 (NBR, Hs90)
8	O-ring	2	1	JIS B 2401 1B P18

### Sealing part table

Part No.	Name	Quantity		Part specifications
		MPD-02W	MPD-02A, B	
9	O-ring	4	4	AS568-012 (NBR, Hs90)
10	O-ring	2	1	JIS B 2401 1B P18

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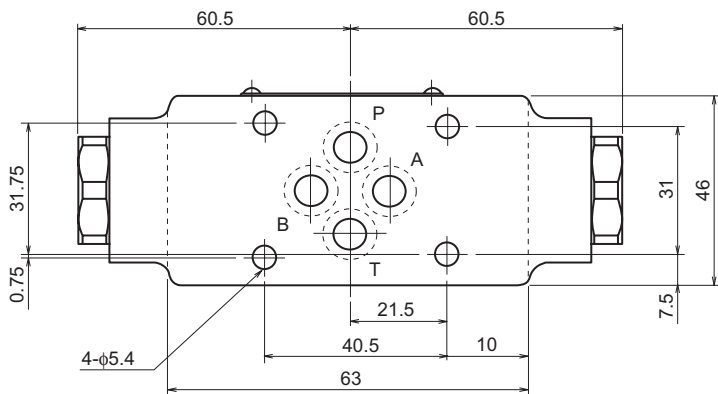
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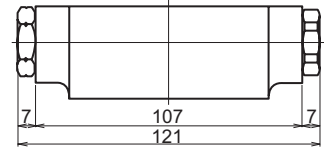
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## External dimension diagram

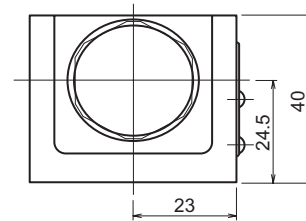
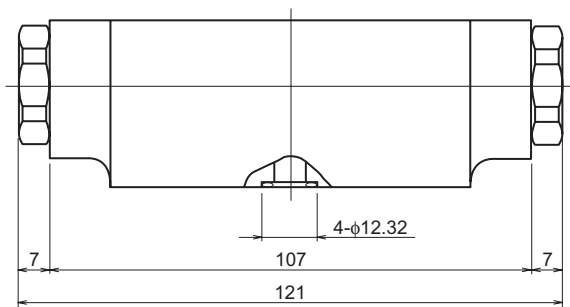
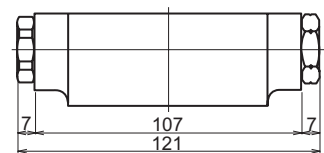
MP-02W-\*\*-60



MP-02A-\*\*-60

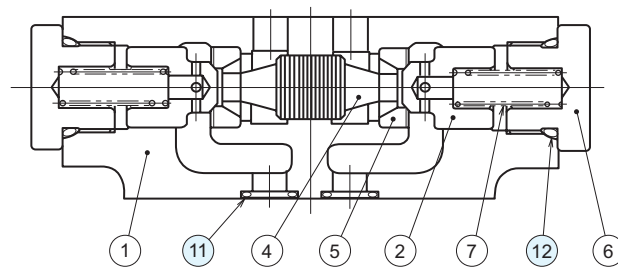


MP-02B-\*\*-60



## Sectional structural diagram

MP-02W-\*\*-60



Sealing part table

Part No.	Name	Quantity		Part specifications
		MP-02W	MP-02A, B	
11	O-ring	4	4	AS568-012 (NBR, Hs90)
12	O-ring	2	2	JIS B 2401 1B P18