

## Contact Details

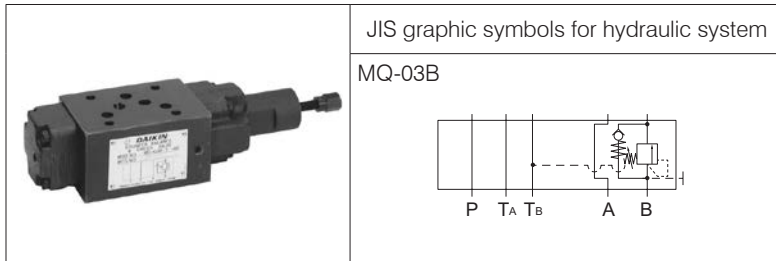
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# 03 Series Stacking Type Port B Counter Balance Valves



## Nomenclature

※ - MQ - 03 B - 1 ※ - 40

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.

MQ: Modular stacking type pressure control valve

### 3 Nominal diameter

03: 3/8

### 4 Control port

B: Port B

### 5 Function code

I: Counter balance valve

### 6 Pressure adjustment range

A: 0.25 to 0.85 MPa { 2.5 to 8.5 kgf/cm<sup>2</sup> }  
 C: 0.5 to 3.5 MPa { 5 to 35 kgf/cm<sup>2</sup> }  
 E: 2 to 14 MPa { 20 to 140 kgf/cm<sup>2</sup> }

### 7 Design No.

(The design No. is subject to change)

## Specifications

Model code	Maximum operating pressure MPa {kgf/cm <sup>2</sup> }	Maximum flow rate L/min	Pressure adjustment range *1 MPa {kgf/cm <sup>2</sup> }	Check valve cracking pressure MPa {kgf/cm <sup>2</sup> }	Mass kg	Pressure change MPa {kgf/cm <sup>2</sup> } per screw revolution
MQ-03B-1A-40	25 {250}	80	0.25 to 0.85 { 2.5 to 8.5 }	0.05 {0.5}	3.9	0.08 { 0.8 }/revolution
MQ-03B-1C-40			0.5 to 3.5 { 5 to 35 }			0.33 { 3.3 }/revolution
MQ-03B-1E-40			2 to 14 { 20 to 140 }			1.7 { 17 }/revolution

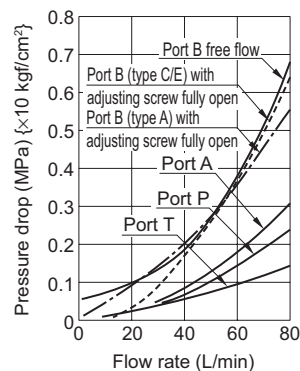
Note: \*1 The pressure adjustment ranges are indicated using cracking pressures.

## Handling

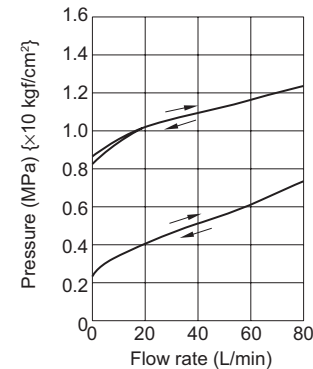
- The drain piping is connected to the tank port (port TB).
- When using the valve in combination with a pilot operated check valve, use a model MQC counter balance valve (see Page I-68).

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

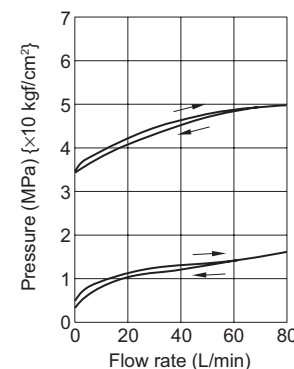
Pressure drop characteristics  
MQ-03B-1※



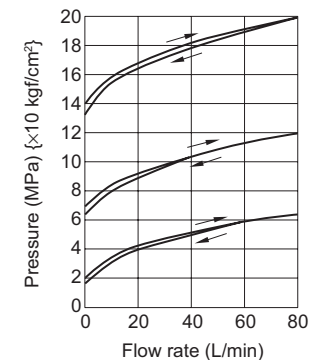
Pressure - Flow rate characteristics  
MQ-03B-1A



MQ-03B-1C



MQ-03B-1E



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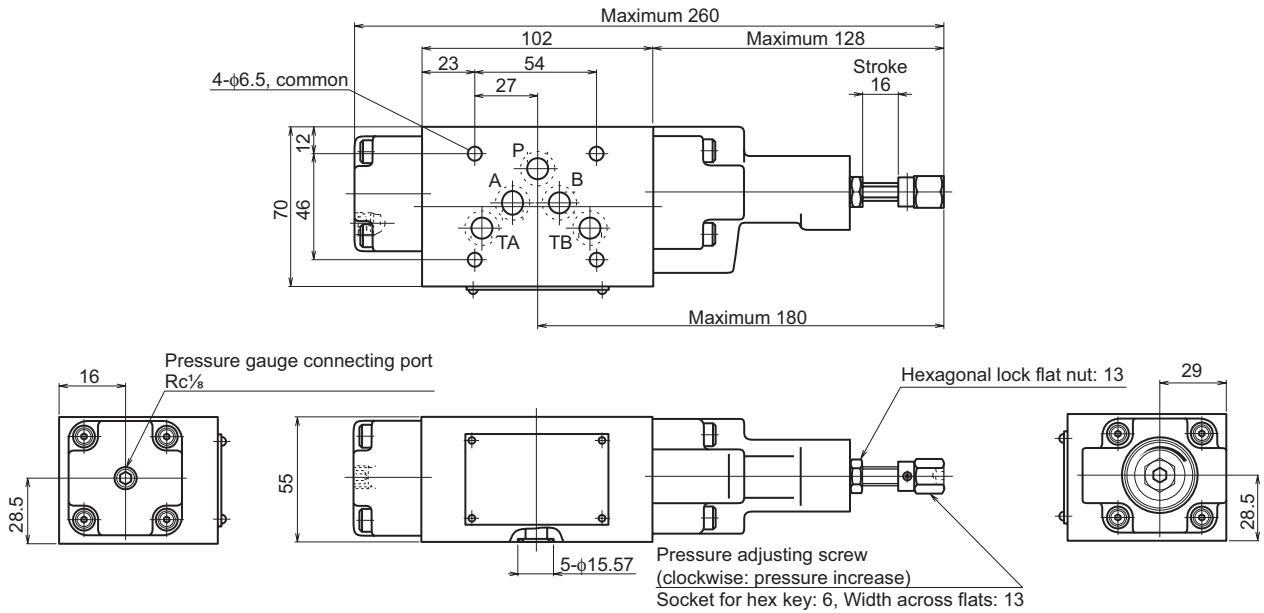
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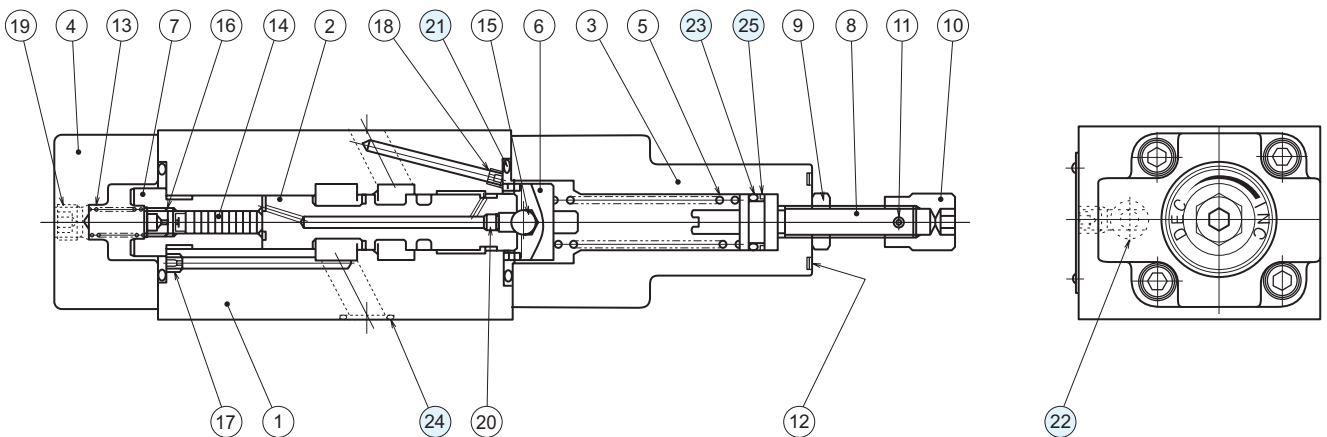
## External dimension diagram

MQ-03B



## Sectional structural diagram

MQ-03B



Sealing part table

Part No.	Name	Quantity	Part specifications
21	O-ring	2	JIS B 2401 1BG30
22	O-ring	1	JIS B 2401 1BP5
23	O-ring	1	JIS B 2401 1BP11
24	O-ring	5	AS568-014 (NBR, Hs90)
25	Backup ring	1	JIS B 2407 Bias cut P11