

## Contact Details

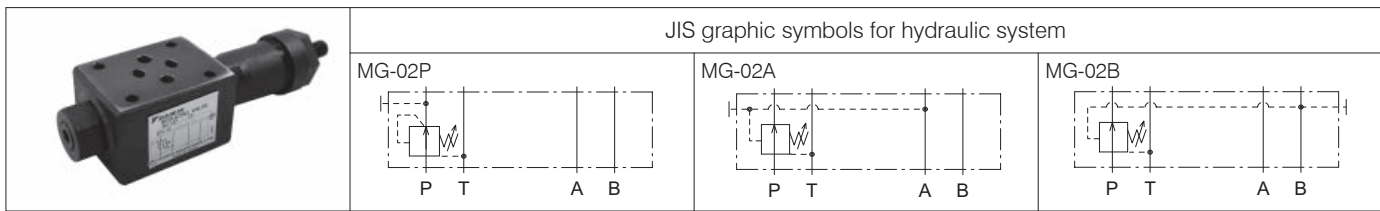
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# O2 Series Stacking Type Pressure Reducing Valves



## Nomenclature

※	-	MG	-	O2	※	-	※	※	-	55	-	※	※		
1		2		3	4		5		6		7	8			
※	-	MG	-	O2	※	-	※	※	-	60	-	※	O2	-	※
1		2		3	4		5		6		9		8		

### 1 Applicable fluid code

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

### 2 Model No.

MG: Modular stacking type reducing valve

### 3 Nominal diameter

O2: 1/4

### 4 Control port

P: Port P  
 A: Port A  
 B: Port B

### 5 Pressure adjustment range

O3: 0.3 to 3.5MPa { 3 to 35 kgf/cm<sup>2</sup> }  
 1: 0.7 to 7 MPa { 7 to 70 kgf/cm<sup>2</sup> }  
 2: 3.5 to 16 MPa { 35 to 160 kgf/cm<sup>2</sup> }

### 6 Design No. (The design No. is subject to change)

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

### 7 Pressure adjusting screw position

(applicable only to design No. 55)  
 No designation: Adjusted at port B side  
 G: Adjusted at port A side

### 8 Option code

No designation: Pressure adjusting screw type  
 T: Pressure adjusting handle type

### 9 Pressure gauge connection port

(applicable only to design No. 60)  
 R02: Rc<sup>1</sup>/<sub>4</sub>  
 S02: G<sup>1</sup>/<sub>4</sub> (JIS B 2351)

## Specifications

Model code	Maximum operating pressure MPa {kgf/cm <sup>2</sup> }	Maximum flow rate (L/min)	Pressure adjustment range MPa {kgf/cm <sup>2</sup> }	Mass kg	Pressure change MPa {kgf/cm <sup>2</sup> } per screw revolution
MG-02※-O3-55	25 {250}	40	0.3 to 3.5 { 3 to 35 }	1.1	0.34 { 3.4 }/revolution
MG-02※- 1-55			0.7 to 7 { 7 to 70 }		0.65 { 6.5 }/revolution
MG-02※- 2-55			3.5 to 16.0 {35 to 160}		1.8 { 18.0 }/revolution
MG-02※-O3-60	35 {350}		0.3 to 3.5 { 3 to 35 }	1.3	0.34 { 3.4 }/revolution
MG-02※- 1-60			0.7 to 7 { 7 to 70 }		0.65 { 6.5 }/revolution
MG-02※- 2-60			3.5 to 16.0 {35 to 160}		1.8 { 18.0 }/revolution

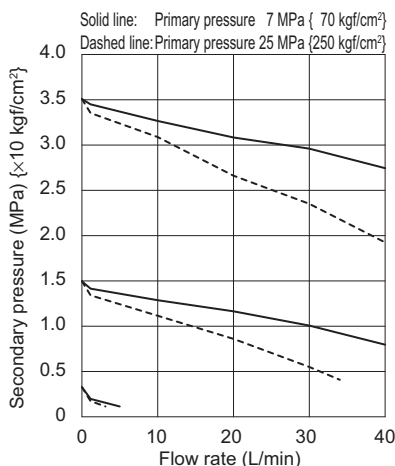
## Handling

- The drain piping is connected to the tank port.
- To ensure good pressure reducing performance, set the primary side circuit pressure and the secondary pressure reducing circuit pressure difference of 1 MPa {10 kgf/cm<sup>2</sup>} minimum.

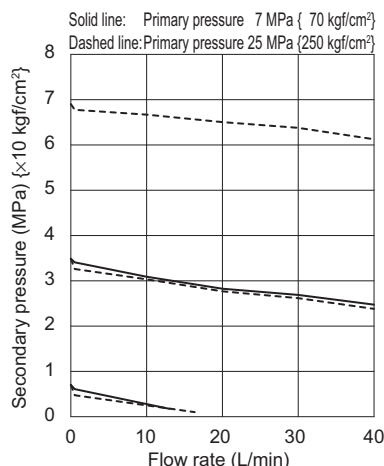
## Performance curves (viscosity: 32 mm<sup>2</sup>/s {cSt})

Pressure - Flow rate characteristics (tank port: vent to atmosphere)

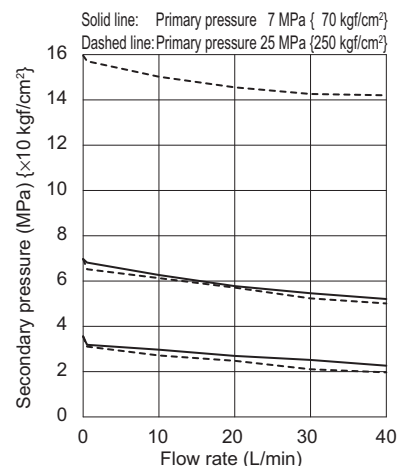
MG-02P-03-55



MG-02P-1-55



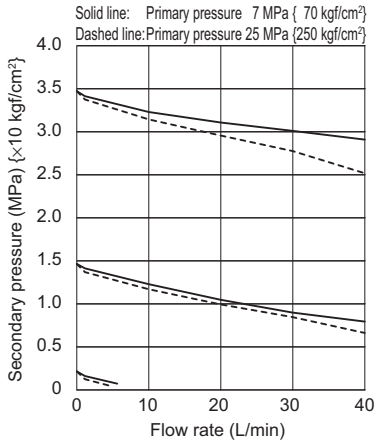
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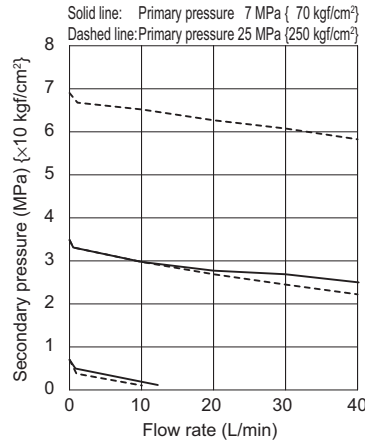
**Performance curves (viscosity: 32 mm<sup>2</sup>/s {cSt})**

**Pressure - Flow rate characteristics (tank port: vent to atmosphere)**

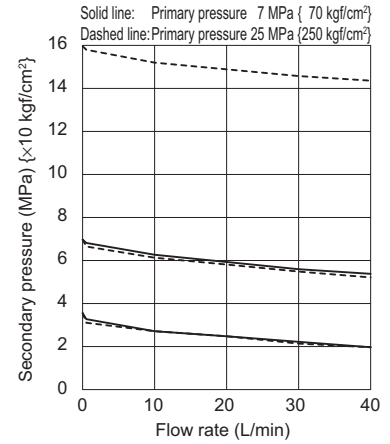
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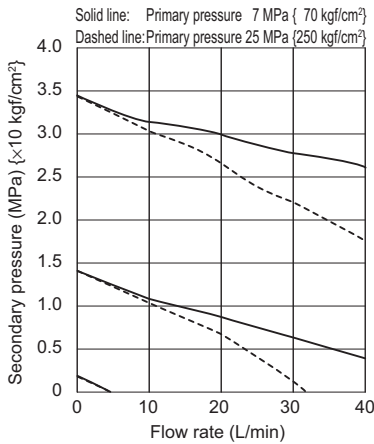
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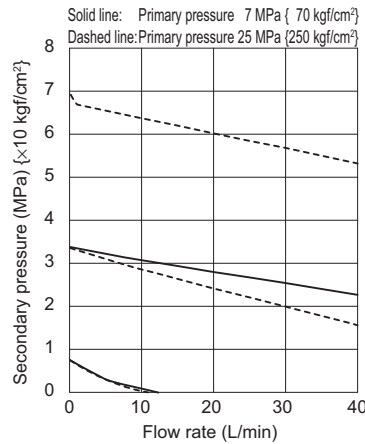
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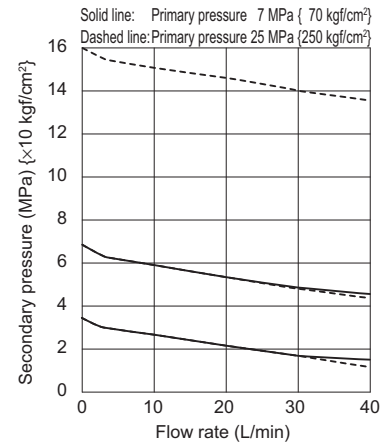
MG-02P-03-60



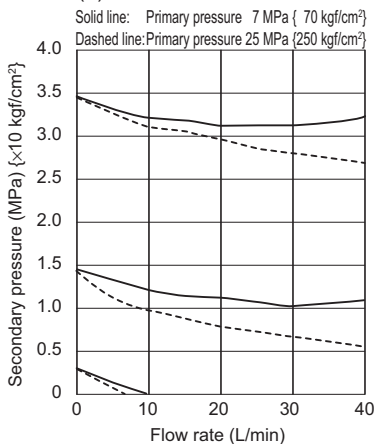
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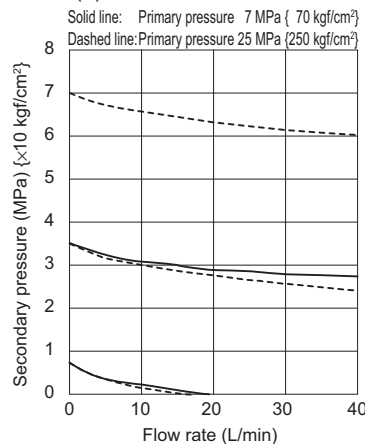
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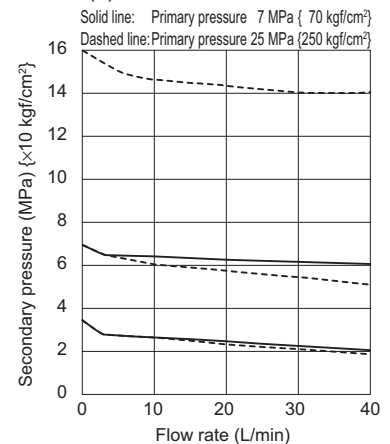
MG-02A(B)-03-60



MG-02A(B)-1-60

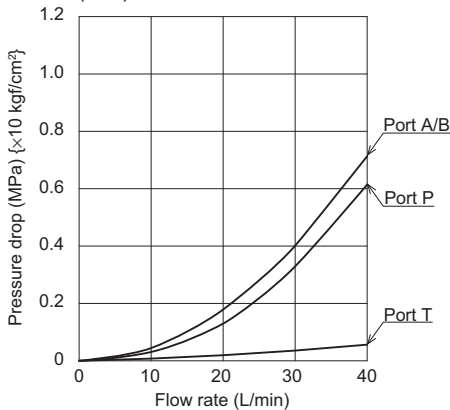


MG-02A(B)-2-60

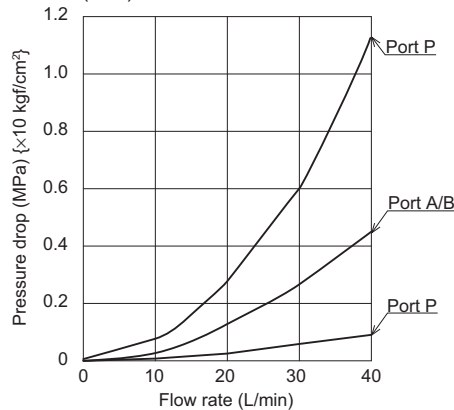


**Pressure drop characteristics**

MG-02P(A, B)-\*\*×-55



MG-02P(A, B)-\*\*×-60



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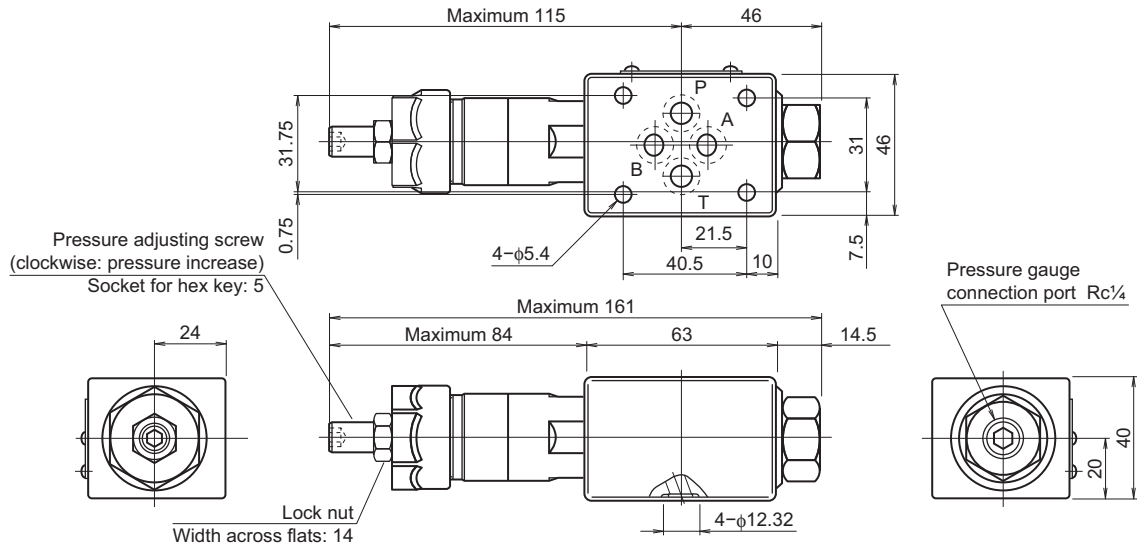
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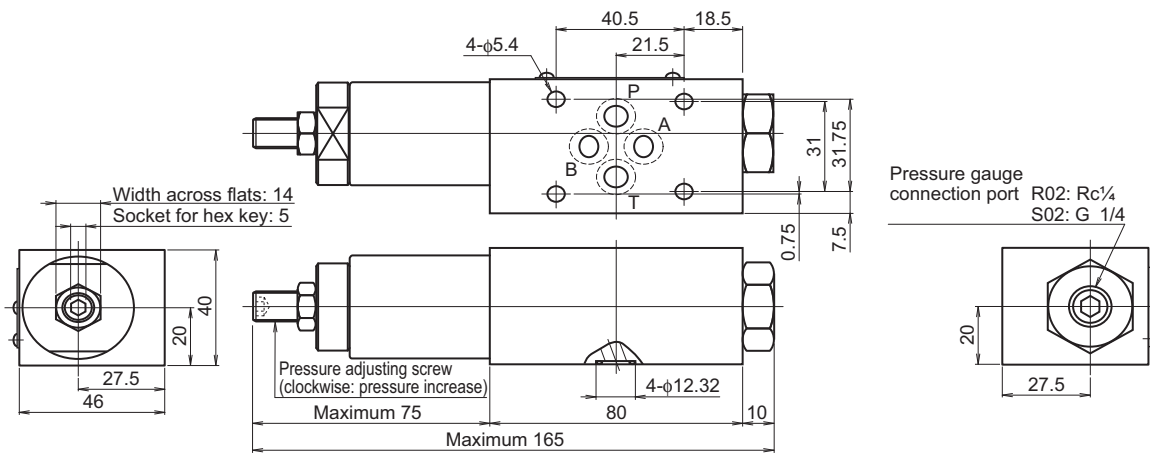
## External dimension diagram

MG-02\*-\*\*-55

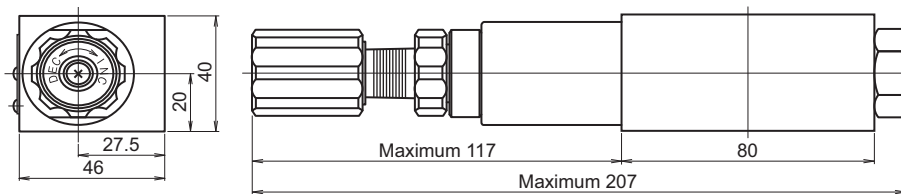


For products with option code G, the pressure adjusting screw is located at the port A side.

MG-02\*-\*\*-60-02



MG-02\*-\*\*-60-02-T



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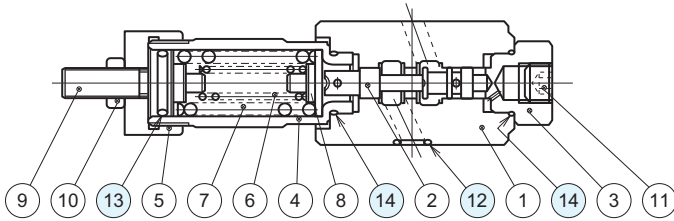
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## Sectional structural diagram

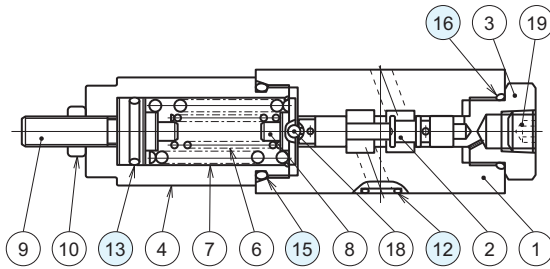
MG-02\*-\*\*-55



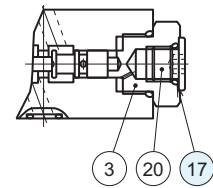
### Sealing part table

Part No.	Name	Quantity	Part specifications
12	O-ring	4	AS568-012 (NBR, Hs90)
13	O-ring	1	JIS B 2401 1A P18
14	O-ring	2	AS568-017 (NBR, Hs90)

MG-02\*-\*\*-60-R02



MG-02\*-\*\*-60-S02



### Sealing part table

Part No.	Name	Quantity	Part specifications
12	O-ring	4	AS568-012 (NBR, Hs90)
13	O-ring	1	JIS B 2401 1A P18
15	O-ring	1	JIS B 2401 1B P26
16	O-ring	1	JIS B 2401 1B P20
17	O-ring	1	JIS B 2401 1B P11