

Contact Details

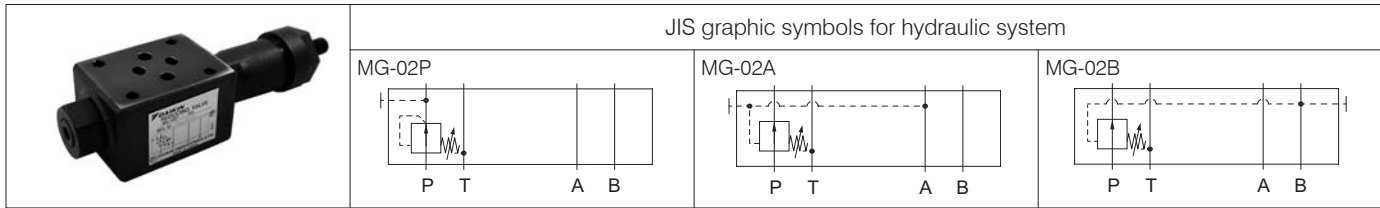
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02 Series Stacking Type Pressure Reducing Valves



Nomenclature

※	-	MG	-	02	※	-	※	※	-	55	-	※	※	-	※	※
1		2		3	4		5		6		7	8		10		
※	-	MG	-	02	※	-	※	※	-	60	-	※	02	-	※	
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

02: ¼

4 Control port

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

5 Pressure adjustment range

03: 0.3 to 3.5MPa { 3 to 35 kgf/cm² }
 1: 0.7 to 7 MPa { 7 to 70 kgf/cm² }
 2: 3.5 to 16 MPa {35 to 160 kgf/cm² }

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

55: 25 MPa {250 kgf/cm²} series
 60: 35 MPa {350 kgf/cm²} 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: Rc¼
 S02: G¼ (JIS B 2351)
 (R02: Rc¼ for design No. 55 with no designation)

10 Control No.

32: Plug (R¼) not fitted to pressure gauge connection port

Specifications

Model code	Maximum operating pressure MPa {kgf/cm ² }	Maximum flow rate (L/min)	Pressure adjustment range MPa {kgf/cm ² }	Mass kg	Pressure change MPa {kgf/cm ² } per screw revolution
MG-02※-03-55	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※-03-60	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

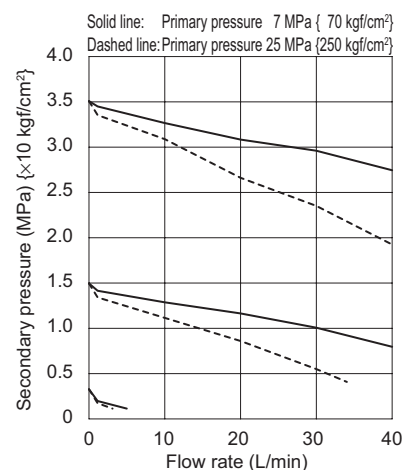
Handling

- 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/cm²} minimum.

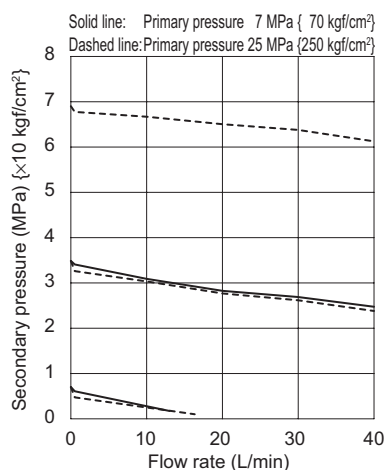
Performance curves (viscosity: 32 mm²/s {cSt})

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

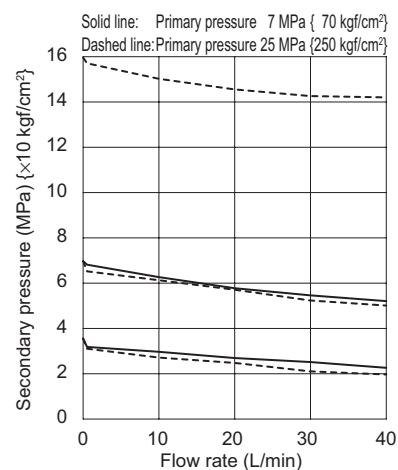
MG-02P-03-55



MG-02P-1-55



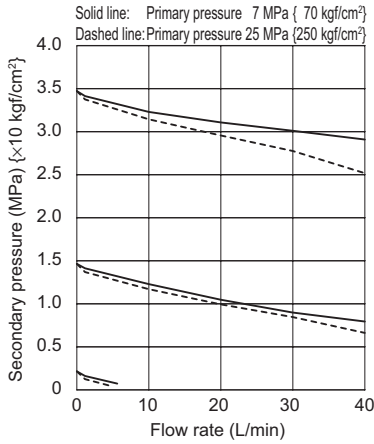
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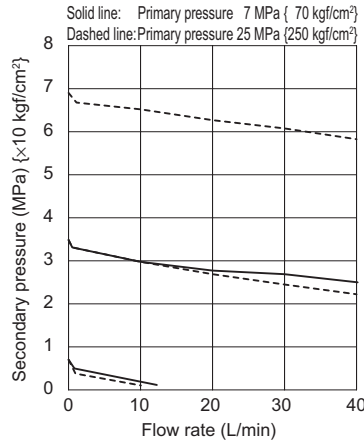
Performance curves (viscosity: 32 mm²/s {cSt})

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

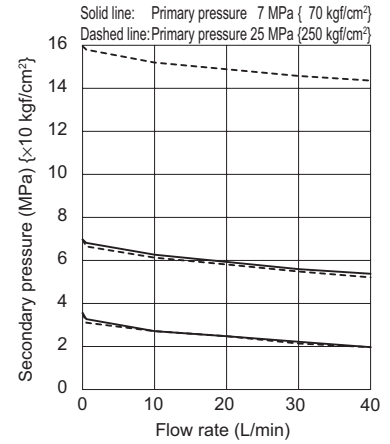
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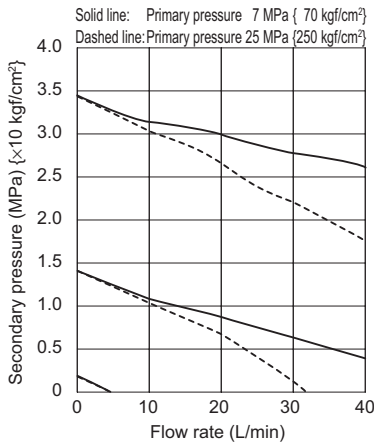
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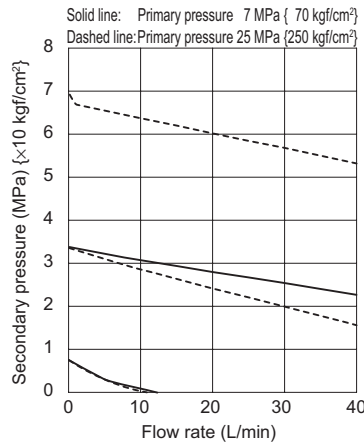
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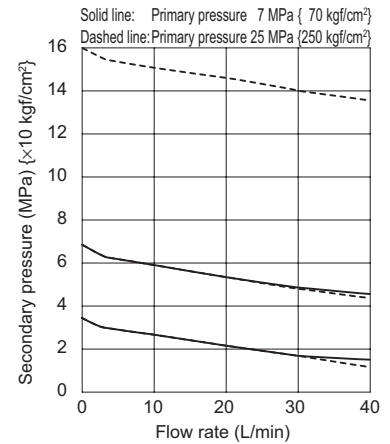
MG-02P-03-60



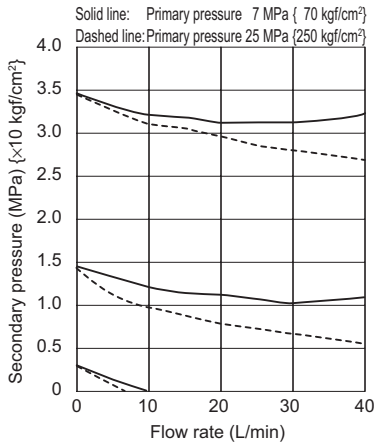
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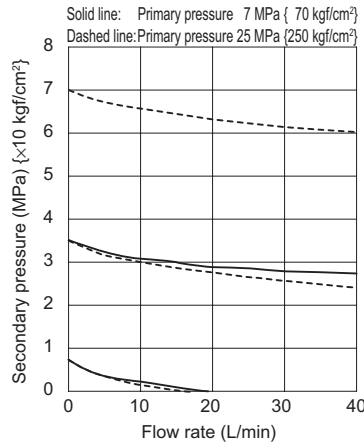
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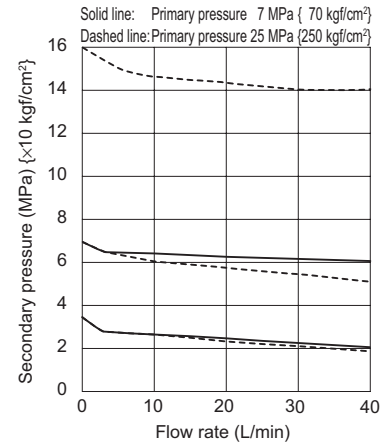
MG-02A(B)-03-60



MG-02A(B)-1-60

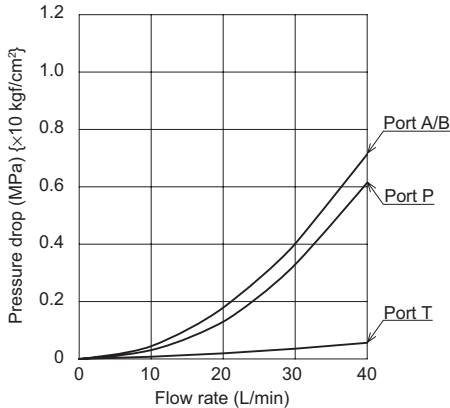


MG-02A(B)-2-60

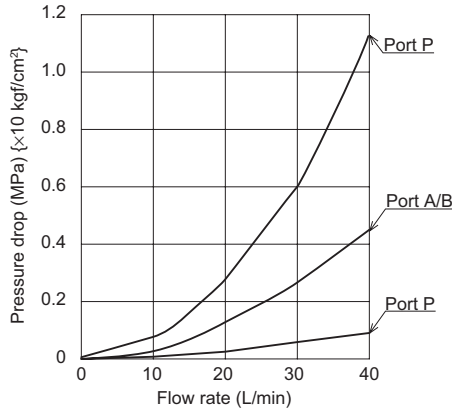


Pressure drop characteristics

MG-02P(A, B)-**55



MG-02P(A, B)-**60



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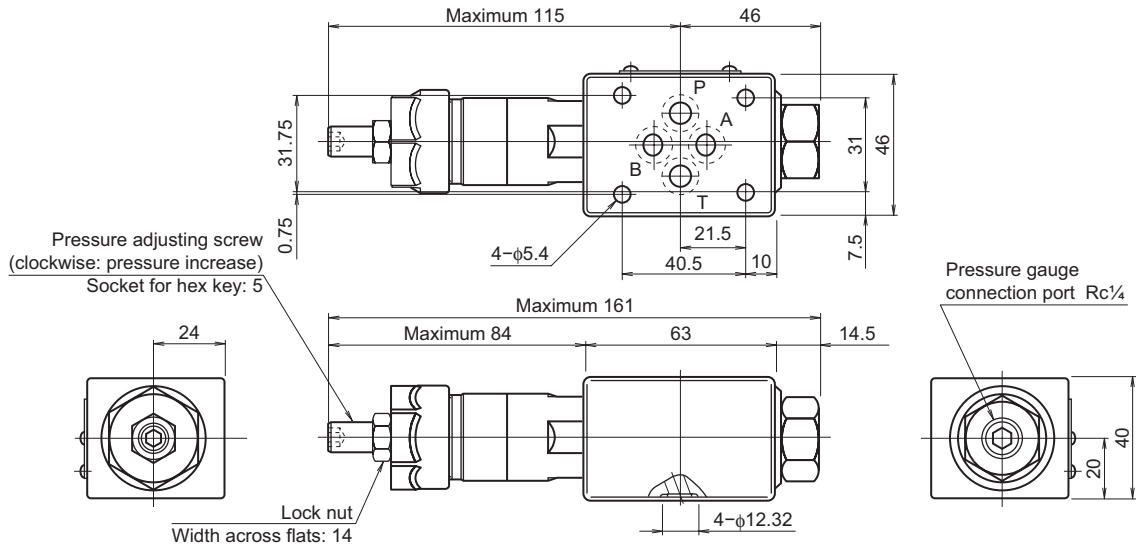
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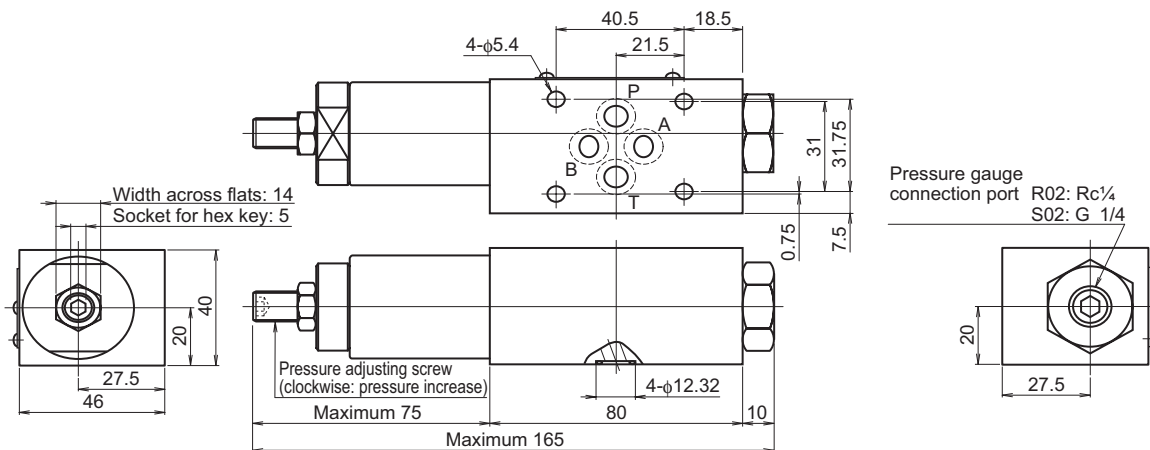
External dimension diagram

MG-02*-**-55

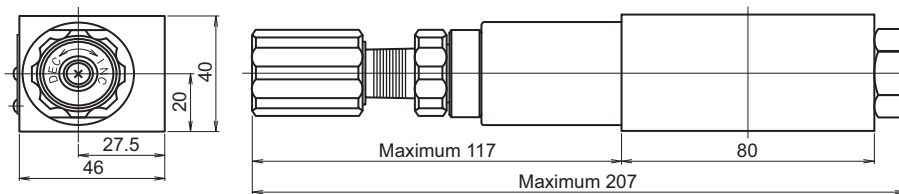


For products with option code G, the pressure adjusting screw is located at the port A side.

MG-02*-**-60-02



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



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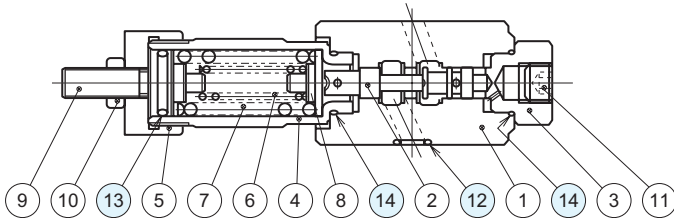
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Sectional structural diagram

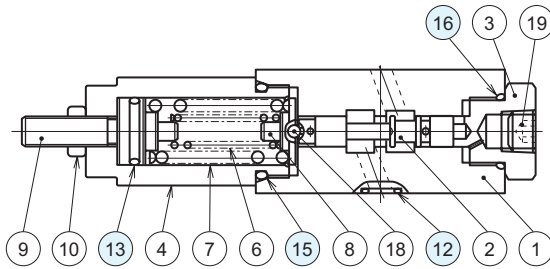
MG-02*-**-55



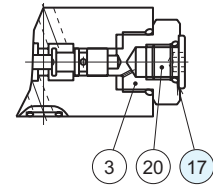
Sealing part table

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