Vent unloading shockless valves TGMSL-3
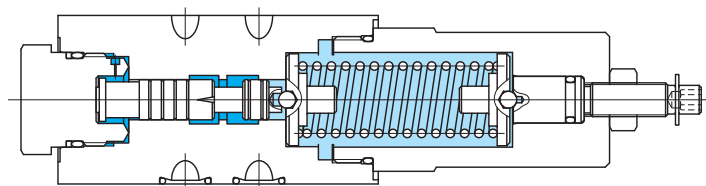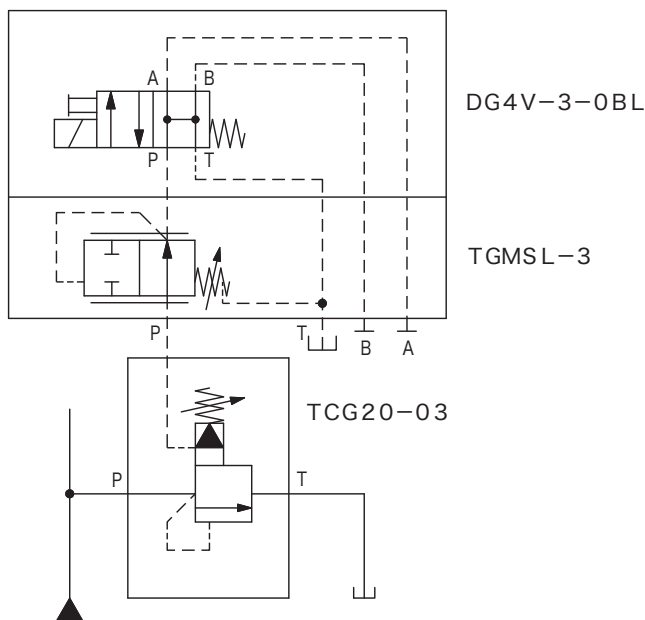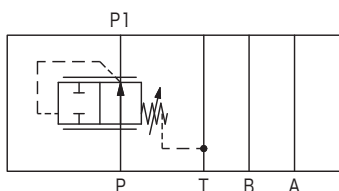

• This product is designed to reduce shock during vent unload of the relief valve. In the application example below, the TGMSL-3 is stacked with the DG4V-3 solenoid valve and is connected to the vent port of the pilot operated relief valve.

Functional Symbols

Application Example

DG4V-3-0BL

TGMSL-3

TCG20-03

Model Code

(F3)-TGMSL-3-(L)-50

| 1 | 2 | 3 | 4 | 5 |

1 Hydraulic fluid
   Omit: mineral oil based fluid, water-glycol based fluid
   F3: phosphate ester fluid

2 Vent unloading shockless module

3 Mounting dimensions
   3: ISO 4401-03

4 Adjuster position
   Omit: B port side adjuster (standard)
   L: adjuster on A port side

5 Design no.

Specifications

Model Code	Max. Working Pressure MPa	Rated Flow L/min	Weight kg
TGMSL-3	31.5	1.7	1.3

Notes on Operation

• Valve will not operate with adjustment screw fully tightened and may cause shock in system. Also if adjustment screw is completely loose, the vent line will close and the main valve will not unload. Adjust screw to a midpoint position.

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Mounting Bolts (JIS B 1176, Strength Class 12.9)

- When DG4V-3 solenoid valve is mounted
  Hex socket bolts M5×90 .... 4 pcs
- Mounting bolts must be ordered separately.
- Tightening torque of mounting bolts: 7 to 8 N·m

Subplate

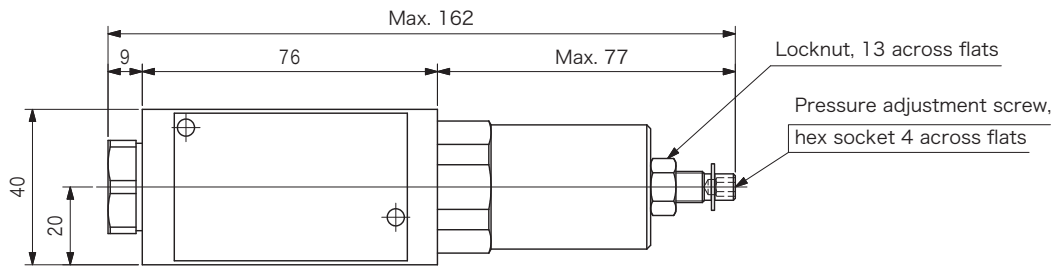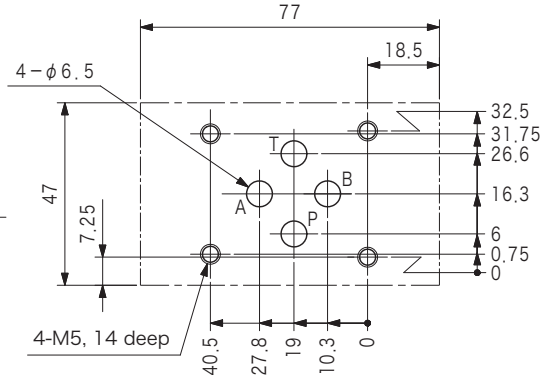| Connection Port Orientation	Subplate	Connection Port Diameter Rc
Bottom Piping	DGVM-3-10-T-JA-J	3/8
Side Piping	DGMS-3-1E-10-T-JA-J	

- Subplate must be ordered separately.
- Mounting bolts are not included.
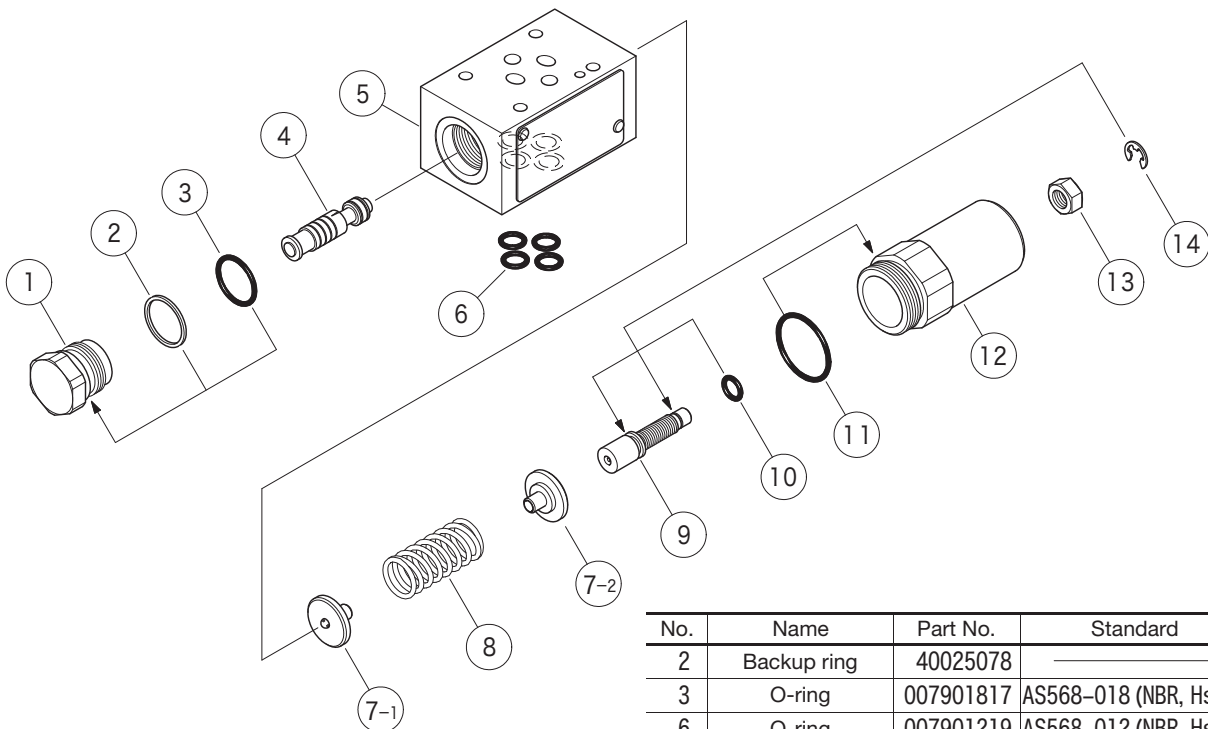- See page R6-6 for dimensions.

Dimensions

TGMSL-3-50
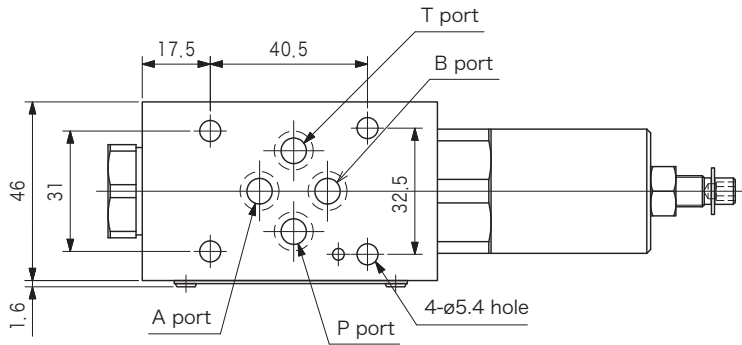
●**Mounting dimensions**

Construction

No.	Name	Part No.	Standard	Qty
2	Backup ring	40025078	—	1
3	O-ring	007901817	AS568–018 (NBR, Hs70)	1
6	O-ring	007901219	AS568–012 (NBR, Hs90)	4
10	O-ring	007901119	AS568–011 (NBR, Hs90)	1
11	O-ring	007902319	AS568–023 (NBR, Hs90)	1

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