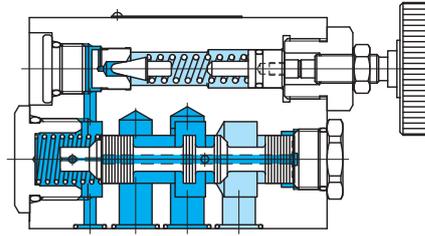
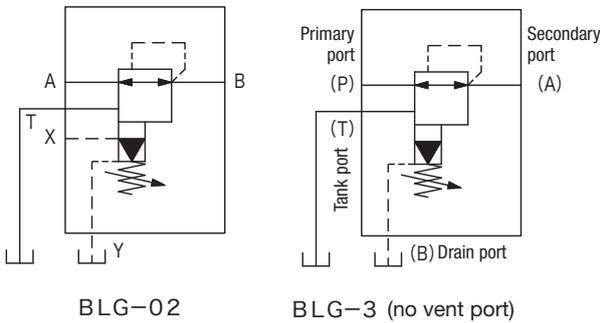


Balancer valves (pressure reducing & relief valves) BLG



Functional Symbols



- The BLG balancer valve is a multi pressure control valve which supplies freely selected balanced pressure to the auxiliary cylinder for smooth ascent/descent drive operation of large load tables, etc. The valve integrates reducing and counterbalance (relief) functions and balance pressure can be freely changed by handle operation in the case of increasing or decreasing load.
- Compared to conventional circuits which utilize reducing valve, counterbalance (relief) valve, and check valve, these functions can be integrated into a single valve with the BLG.

Model Code

(F3)-BLG-02-B-12(-S20)



- 1 Hydraulic fluid
Omit: mineral oil based fluid, water-glycol based fluid
F3: phosphate ester fluid
- 2 Balancer valve (gasket mounting)
- 3 Size (02) and mounting dimensions (3)
- 4 Pressure adjustment range
B: 1 to 7 MPa
- 5 Design no.
10: BLG-3
12: BLG-02
- 6 Pressure gauge port
Omit: gauge port
S20: no gauge port (BLG-02 only)
Note: S20 is standard for BLG-02.

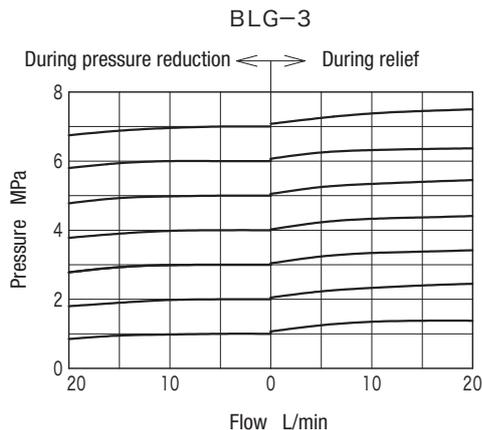
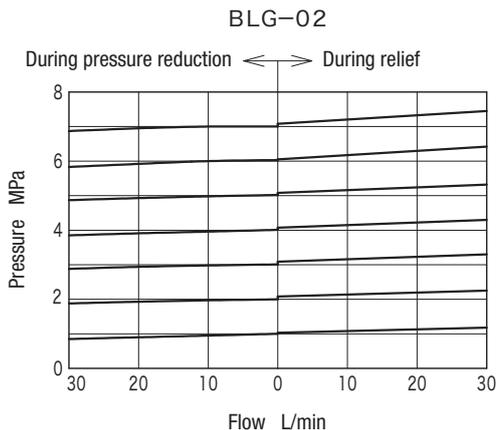
Specifications

Model Code	Size	Max. working pressure MPa	Rated Flow L/min	Press. Adjustment Range MPa	Weight kg
BLG-3	02 (*1)	10.5	20	1~7	1.8
BLG-02	02	10.5	30		2.9

(*1) Mounting dimensions ISO 4401-03

Characteristics Curve (at 20 mm²/s) (typical examples)

Flow-Pressure Characteristics



Notes on Operation

- Connect drain line directly to tank. Ensure that end of the piping is always below the fluid level.
- Loosen the lock nut and turn pressure adjustment knob clockwise to increase the setting pressure and counterclockwise to decrease the setting pressure.

Mounting Bolts (JIS B 1176, Strength Class 12.9)

Valve Model	Hex Socket Bolts	Qty
BLG-3	M5×50	4
BLG-02	M8×30	4

- Mounting bolt tightening torque
BLG-3: 7 to 8 N·m
BLG-02: 27 to 33 N·m

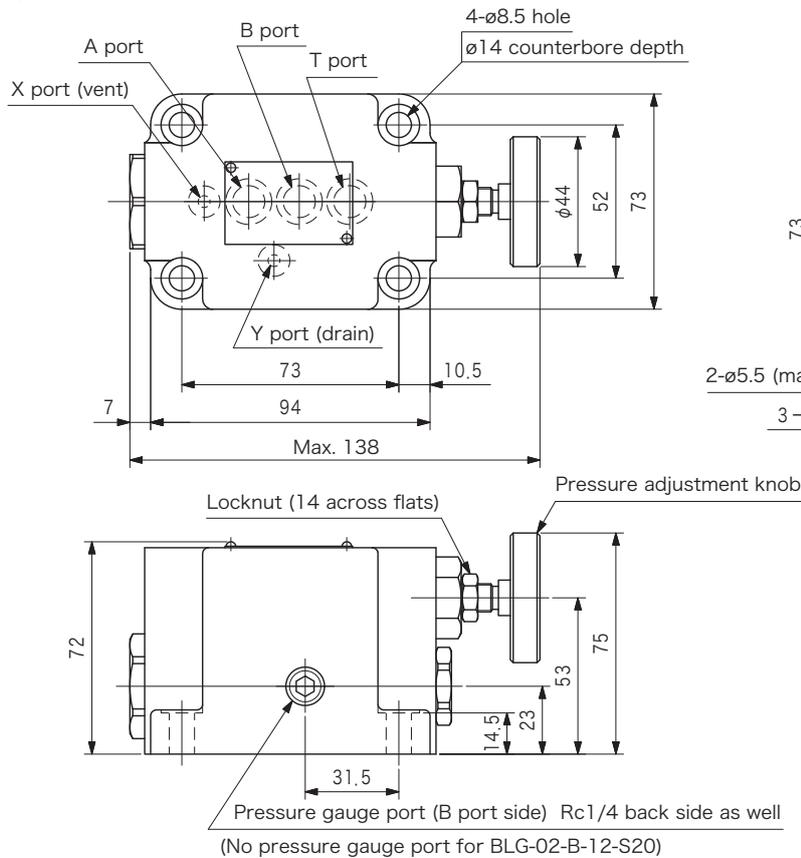
Subplate

Valve Model	Connection Port Orientation	Subplate	Connection Port Dia. Rc
BLG-3	Bottom Piping	DGVM-3-10-T-JA-J	3/8
	Side Piping	DGMS-3-1E-10-T-JA-J	

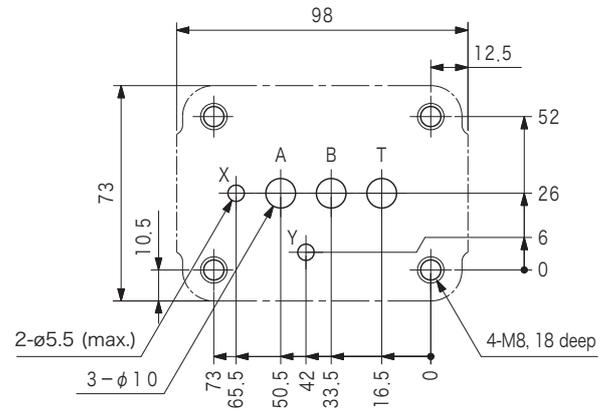
- Subplate must be ordered separately.
- Mounting bolts are not included.
- See page R6-6 for dimensions.
- BLG-02 should be mounting on manifold block.

Dimensions

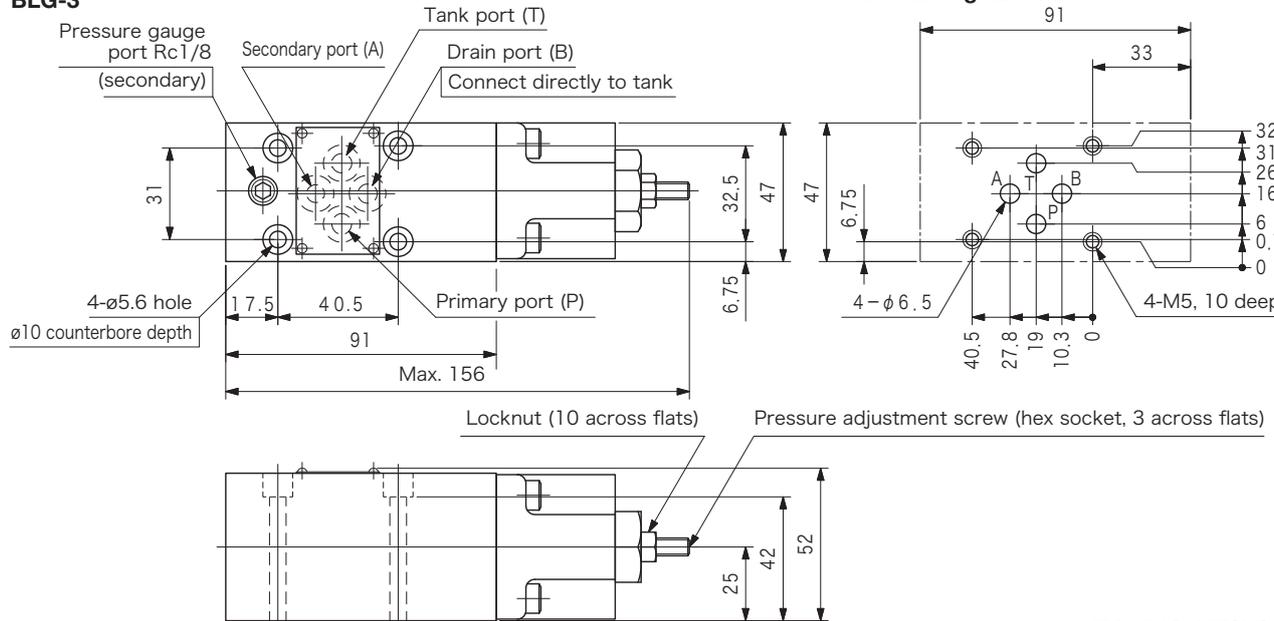
BLG-02



●Mounting dimensions



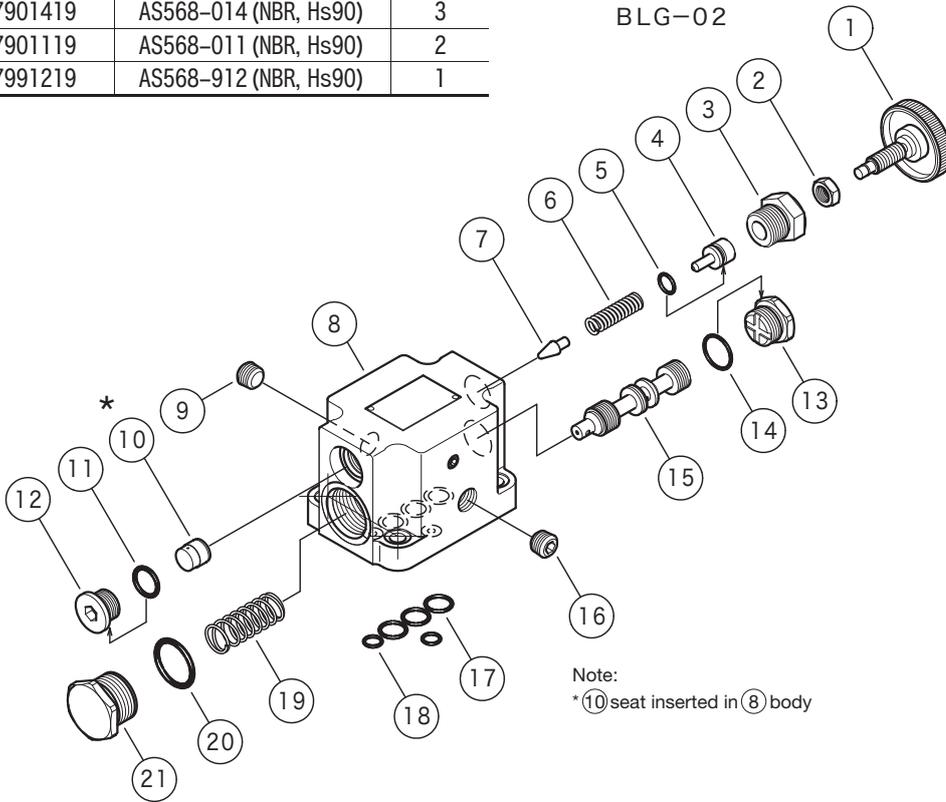
BLG-3



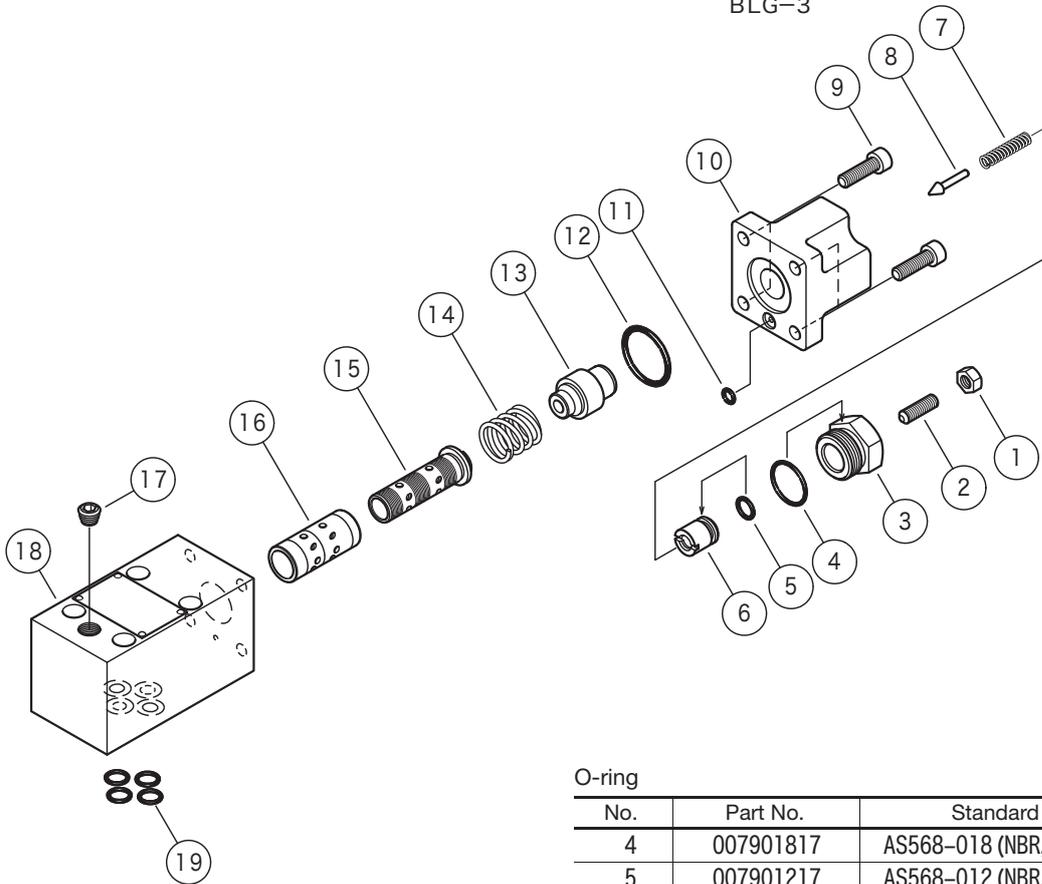
Construction

O-ring

No.	Part No.	Standard	Qty
5	007901217	AS568-012 (NBR, Hs70)	1
11	008001419	JIS B 2401 1B-P14	1
14	007901719	AS568-017 (NBR, Hs90)	1
17	007901419	AS568-014 (NBR, Hs90)	3
18	007901119	AS568-011 (NBR, Hs90)	2
20	007991219	AS568-912 (NBR, Hs90)	1



BLG-3



O-ring

No.	Part No.	Standard	Qty
4	007901817	AS568-018 (NBR, Hs70)	1
5	007901217	AS568-012 (NBR, Hs70)	1
11	007900817	AS568-008 (NBR, Hs70)	1
12	007911817	AS568-118 (NBR, Hs70)	1
19	007901217	AS568-012 (NBR, Hs70)	4