

Brake control valve

OPERATION MANUAL

KANEKO SANGYO CO.,LTD.

The contents of this manual may be upgraded into a new version without any notice in the future.

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Foreword

For specifications and other information about each device not included in this document, please refer to the separately submitted delivery drawings. If you have any questions or concerns, please contact us. (See the contact details at the end of this document.)

1 . Overview

This valve is a three-way valve that is switched by hydraulic cylinder operation.

2. Construction

This valve consists of a main body and a hydraulic drive cylinder.

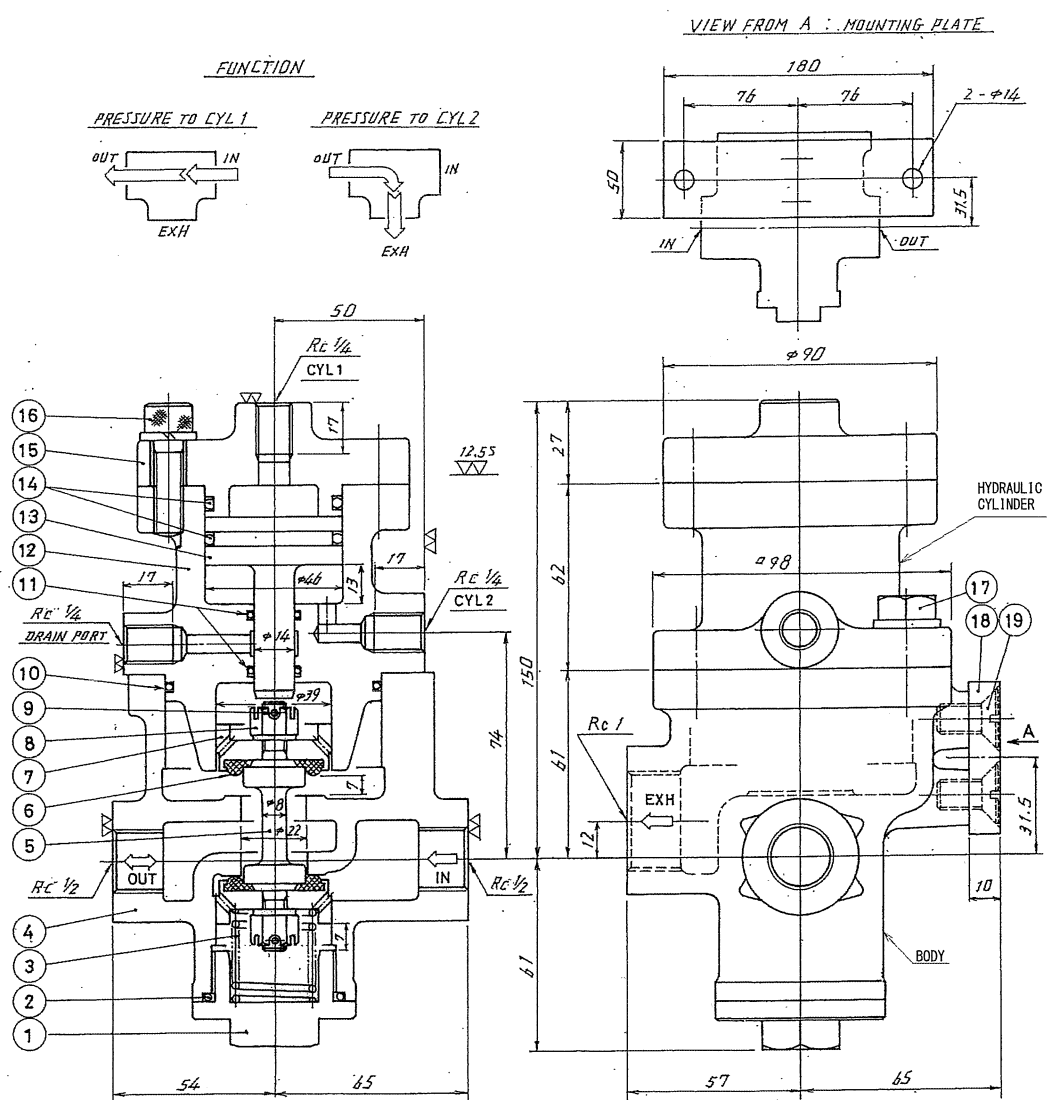


Fig. 1

3 . Installation

(1) Pre-install treatment

Before installation, clean the inside of the pipe as much as possible to remove any debris such as welding scale. Most initial problems are caused by debris getting caught in the pipe.

(2) Checking flow direction

Please install and pipe in the direction that suits the function of this valve.

(3) Installation posture

Check that the unit is installed vertically (with the cylinder part facing up).

4 . Operation

In Figure 1, when hydraulic pressure is supplied to "CLY1," piston (13) moves down and stem (5) is pushed, closing disc 6 (top) and disc 6 (bottom). Fluid flows from "IN" to "OUT," and "EXH" is shut off. Also, when hydraulic pressure is supplied to "CLY2," the piston (13) rises, and the force of the spring (3) causes the stem (5) to rise, opening the upper disc (6) and closing the lower disc (6). The fluid flows from OUT to EXH, blocking the IN.

5 . Maintenance

No special maintenance is required during operation, but it should be disassembled and inspected internally at least once every two years.

Also, if you use the valve extremely infrequently, open and close it at least every six months to check that it is operating normally.

6 . Assembly / Disassembly

Before disassembling, set the pressure inside the main body and cylinder to zero and remove them from the piping.

6-1. Disassembly

- (1) Remove the (17) hex bolts and remove the hydraulic cylinder.
- (2) Remove the cap screw (16) and push in the bottom end of the piston (13) to remove it.
- (3) Please replace the O-rings (11, 14).
- (4) Remove the plug (1) and remove the spring (3).
- (5) Replace the O-ring (2).

Precaution

Handle with care to avoid damaging the sealing surface and sliding surface of the packing.

Do not disassemble the stem (5), disc (6), disc holder (7), grooved nut (8), and split pin (9).

Please consult us if replacement is required.

6-2. Assembly

Assembly shall be done in reversed way of disassembly, but please pay attention to the following points when assembling:

(1) When installing packings, apply a thin, uniform layer of grease (lithium-based) to the packing and metal surfaces.

(2) Remove the (15) cylinder cover and move the (13) piston up and down to check that it moves smoothly.

Precaution after assembly

Please check that all screwed parts are not loose. Also, operate the valve to check that it is operating normally.

7. Replacing packing

In particular, the O-ring should be replaced every two years. However, this does not necessarily mean that the product will become unusable, so please replace it according to your usage conditions.

The model numbers and dimensions used are as follows:

NO.	Part no.	Type code · size	Qty	Material
1	2	O-ring JIS W1516 G-1	1	NBR
2	10	O-ring JIS W1516 G-9	1	NBR
3	11	O-ring JIS B2401 P40	2	NBR
4	14	O-ring JIS B2401 P26	2	NBR

Contact

If you have any questions or concerns, please contact us below.

In that case, please also let us know the following:

- (1) Product name and valve size
- (2) Number of delivery drawing: either specification, outline drawing, or cross-sectional drawing

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