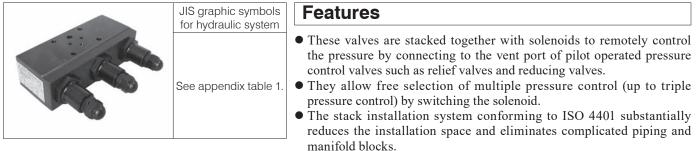
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# **Direct Operated Relief Valve (for Remote Control)**



### Nomenclature

**       -       MRV       -       **       -       **       *         1       2       3       4       5       6	× - 10 7 8
<ol> <li>Applicable fluid code         <ul> <li>No designation: Petroleum-based hydraulic fluid, water-glycol hydraulic fluid</li> <li>F: Phosphate ester hydraulic fluid</li> </ul> </li> <li>Model No.         <ul> <li>MRV: Direct operated relief valve (stack type)</li> <li>Number of built-in relief valves (See appendix table 1)</li> <li>S: 1</li> <li>W: 2</li> <li>T: 3</li> </ul> </li> </ol>	<ul> <li>4 Number of built-in relief valve control ports (See appendix table 1)</li> <li>5 6 7 Pressure control system and pressure adjustment range (See appendix table 3) Specify the number from among 1 to 6 given in appendix table 3.</li> <li>8 Design No. (The design No. is subject to change)</li> </ul>
3 4: Appendix 1	

### JIS graphic symbols for hydraulic system

	3	4	3	4	3	4	3	4	3	4
Code	S	1	S	2	W	1	W	2	Т	-
JIS graphic symbols for hydraulic system	P T		P T		P T	A B Right) (Left)		A B Right) (Left)		A B Right) (Left)

## 5 6 7: Appendix 2

### Numbers of relief valves and relief valve positions

	Relief valve position		
Number of relief valves	5	6	7
S: 1	(Right)	-	-
W: 2	(Left)	(Right)	-
T: 3	(Left)	(Center)	(Right)

Note: The table indicates the positions of built-in relief valves. See the JIS graphic symbols for hydraulic system and external dimensions for details.

## Specifications

Model code	Nominal diameter	Pressure adjustment range MPa {kgf/cm²}	Maximum flow rate L/min	Mass kg
MRV-S1 -* -10				1.5
MRV-S2 -* -10	1⁄4	See appendix table 3.	1.5	1.5
MRV-W1 -*** -10				21
MRV-W2-*** -10				2.1
MRV-T -***-10				2.8

## **Appendix 3**

# • Combinations of pressure adjustment ranges and pressure adjusting mechanisms

Pressure adjustment range	Pressure adjusting mechanism		
MPa {kgf/cm <sup>2</sup> }	Handle adjusting type	Screw adjusting type	
1.5 to 7 {15 to 70}	1	4	
1.5 to 16 {15 to 160}	2	5	
1.5 to 25 {15 to 250}	3	6	

Note: Enter one of the numbers 1 to 6 given in the table in fields 5, 6, and 7.

ss	Model code	Pressure change MPa {kgf/cm <sup>2</sup> } per handle revolution			
3	MRV-**-1 (4)	<-1 (4) 2.5 {25}/revolution			
5	MRV-**-2 (5)	4.6 {46}/revolution			
	MRV-**-3 (6)	7.9 {79}/ revolution			
4 I					

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# Sub-plate model code

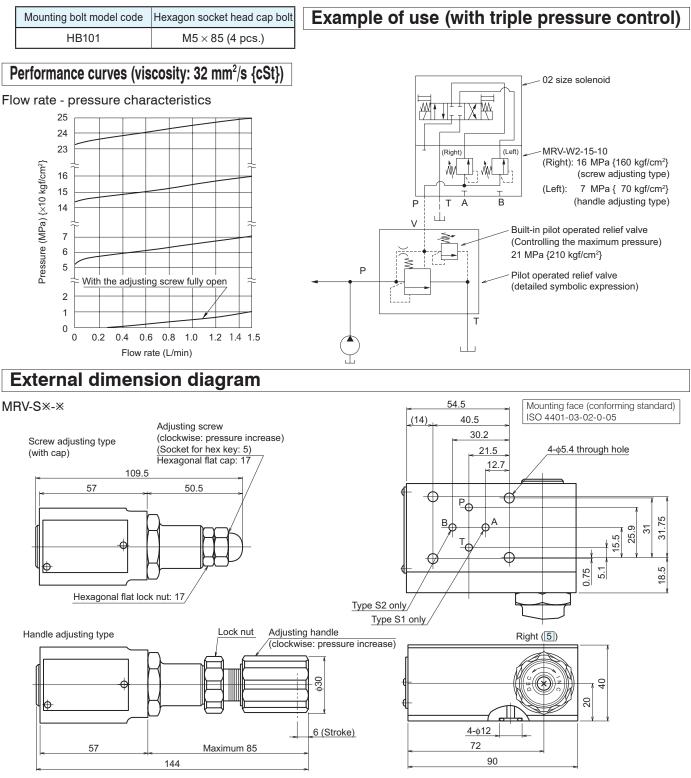
• The sub-plate is not provided with the valve. Order it separately as required by specifying the model code given in the table below.

Model code	Nominal diameter	Connection port diameter	Mass kg
JS-01M02	1⁄4	Rc¼	0.4

Refer to Page S-9 for the dimensions of the sub-plate.

## Handling

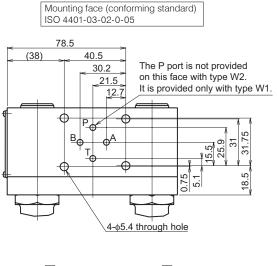
- Directly connect the tank piping of the valve to the tank without merging it with other tank piping.
- Since excessive internal volume of the pilot line piping may lead to vibration, use steel pipes with an inner diameter of 4 mm maximum and with thick walls for this piping.
- Mounting bolts are not provided with the valve. Order the following bolts separately as required.

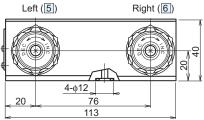


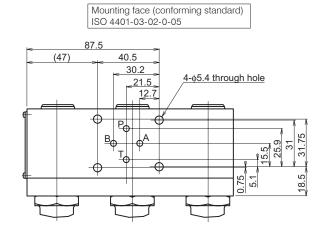
MRV-T-\*\*\*

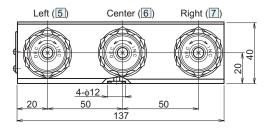
# External dimension diagram

### MRV-W\*-\*\*



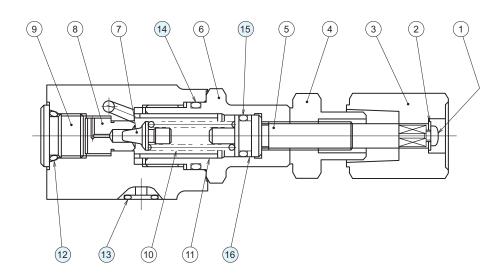






# Sectional structural diagram

MRV



#### Sealing part table

Name	Quantity	Part specifications
O-ring	S: 1, W: 2, T: 3	JIS B 2401 1BP14
O-ring	4	JIS B 2401 1BP9
O-ring	S: 1, W: 2, T: 3	JIS B 2401 1BP20
O-ring	S: 1, W: 2, T: 3	JIS B 2401 1BP11
Backup ring	S: 1, W: 2, T: 3	JIS B 2407 bias cut P11
	O-ring O-ring O-ring O-ring	O-ring         S: 1, W: 2, T: 3           O-ring         4           O-ring         S: 1, W: 2, T: 3           O-ring         S: 1, W: 2, T: 3           O-ring         S: 1, W: 2, T: 3