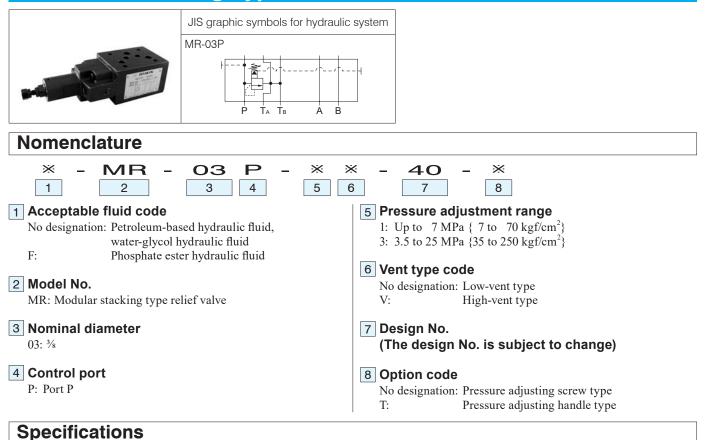
Internet

https://www.daikinpmc.com/en/ For latest information, PDF catalogs and operation manuals

# **03 Series Stacking Type Port P Relief Valves**



#### Maximum operating Maximum Pressure adjustment range \*1 Mass Pressure change Model code flow rate pressure MPa {kgf/cm<sup>2</sup>} kg MPa {kgf/cm<sup>2</sup>} per screw revolution MPa {kgf/cm<sup>2</sup>} L/min MR-03P-1\*-40 Up to 7 { 7 to 70} 2.5 {25}/revolution 25 {250} 80 3.4 MR-03P-3\*-40 3.5 to 25 {35 to 250} 7.9 {79}/revolution

Note: \*1 The minimum adjustment pressure varies depending on the flow rate. See the minimum adjustment pressure characteristics for details.

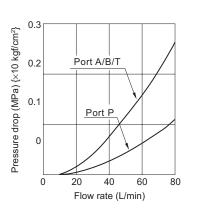
## Handling

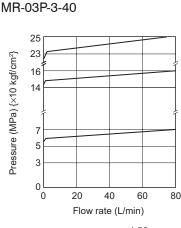
- Maintain the back pressure of the tank port at no greater than 0.5 MPa {5 kgf/cm<sup>2</sup>}.
- When using the valve in combination with a direct operated relief valve for remote control, connect the remote control valve to the vent port. Since excessive internal volume of the pilot piping may lead to vibration, use steel pipes with an inner diameter of 4 mm maximum and with thick walls for this piping.
- When using the valve as a safety valve, set the pressure 1 to 1.5 MPa {10 to 15 kgf/cm<sup>2</sup>} higher than the pressure set for the hydraulic circuit.
- The time required to switch from the unload to on-load state can be reduced by using the high-vent type.

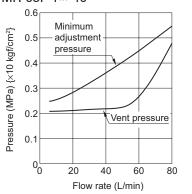
Pressure - Flow rate characteristics

### Performance curves (viscosity: 32 mm<sup>2</sup>/s {cSt})

Pressure drop characteristics





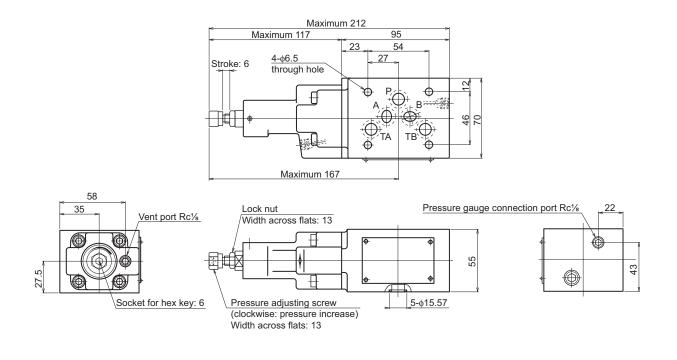


I-58

Vent unloading pressure characteristics Minimum adjustment pressure characteristics MR-03P-1\*-40

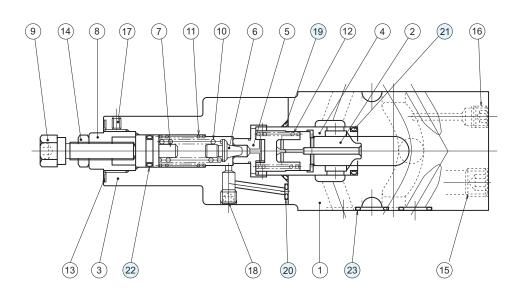
## External dimension diagram

MR-03P



## Sectional structural diagram

MR-03P



#### Sealing part table

Part No.	Name	Quantity	Part specifications
19	O-ring	1	JIS B 2401 1BP22
20	O-ring	1	JIS B 2401 1BP4
21	O-ring	1	JIS B 2401 1BP18
22	O-ring	1	JIS B 2401 1AP11
23	O-ring	5	AS568-014 (NBR, Hs90)