

06 series modular stack valve model table

Classification	Name	Model code	JIS graphic symbols for hydraulic system	Maximum operating pressure MPa {kgf/cm ² }	Maximum flow rate L/min	Height mm	Mass kg	Pressure adjustment range Cracking pressure MPa {kgf/cm ² }	Page
Flow control valves	Meter-out Port A/B Throttle valve	MT-06W		31.5 {315}	500	90	13.6	Check valve cracking pressure 0.15 {1.5}	I-127 to I-129
	Meter-out Port A Throttle valve	MT-06A							
	Meter-out Port B Throttle valve	MT-06B							
	Meter-in Port A/B Throttle valve	MT-06Wi							
	Meter-in Port A Throttle valve	MT-06Ai							
	Meter-in Port B Throttle valve	MT-06Bi							
Directional control valves	Port P Check valve	MC-06P-**		21 {210}	120	88.9	10.5	Check valve cracking pressure 05: 0.05 {0.5} 45: 0.45 {4.5}	I-130 to I-131
	Port T Check valve	MC-06T-**							
	Port A/B Decompression type pilot operated check valve	MPD-06W-**		31.5 {315}	500	90	13.6	Check valve cracking pressure 20: 0.2 {2} 50: 0.5 {5}	I-132 to I-133
	Port A Decompression type pilot operated check valve	MPD-06A-**							
	Port B Decompression type pilot operated check valve	MPD-06B-**							

Handling

● **Hydraulic oil**

- Use a petroleum-based hydraulic fluid equivalent to ISO VG32 to 68.
- Operate the unit in an environment where both the following conditions are satisfied: viscosity range from 15 to 400 mm²/s {cSt} and oil temperature from -15 to 70°C.
- Contamination of the hydraulic fluid causes valve trouble and reduces the service life, so pay due attention to controlling contamination and ensure that it goes no higher than NAS contamination class 12.

● **Installation and maintenance**

- There is no restriction on the installation direction. However, valves of the 04 and 06 series may cause uneven load so stack them oriented upward.
- Finish the face on which the valve is mounted to a surface roughness of 1.6a or better and a flatness tolerance within 0.01 mm.
- When stacking stack valves, give adequate consideration to the order in which the valves are arrayed and stacked, taking the space required to operate the adjusting screws, the adjusting handles and their lock nuts into consideration.

● **Filters**

- Use a line filter with a filtration accuracy of 25 μm or better.

Contact Details

Before using the product, please check the guide pages at the front of this catalog.

Internet

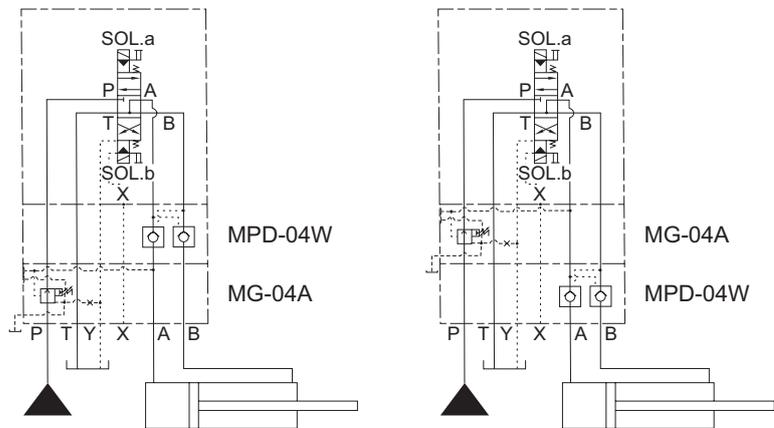
<http://www.daikinpmc.com/en/>

For latest information, PDF catalogs and operation manuals

Notes on circuit construction

When constructing a circuit with a reducing valve and a pilot operated check valve

In the incorrect circuit shown on the left, the position cannot be maintained with the pilot operated check valve due to internal leakage from the reducing valve's pilot line. Therefore, the valves need to be stacked as shown in the correct circuit on the right.

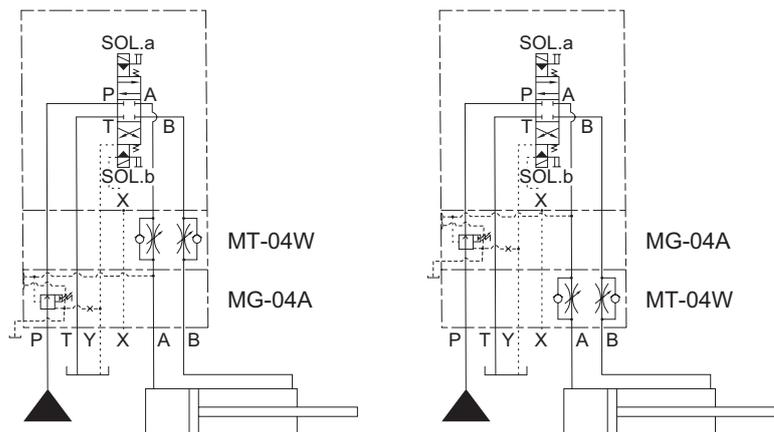


Incorrect

Correct

When constructing a circuit with a reducing valve and a throttle valve with check valve (meter-out)

In the incorrect circuit shown on the left, the cylinder output may be insufficient or the cylinder may not operate smoothly when retracting the cylinder because the reducing valve operates due to the throttle load of the throttle valve. Therefore, the valves need to be stacked as shown in the correct circuit on the right.

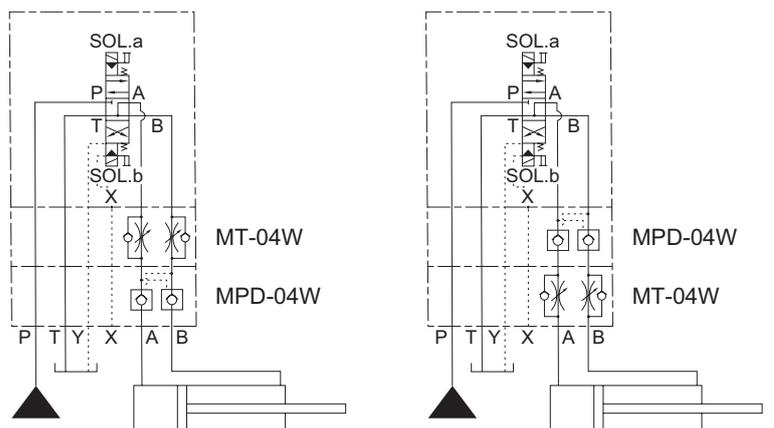


Incorrect

Correct

When constructing a circuit with a throttle valve with check valve (meter-out) and a pilot operated check valve

In the incorrect circuit shown on the left, knocking of the cylinder may be observed because the pilot operated check valve does not open sufficiently due to the throttle load of the throttle valve. Therefore, the valves need to be stacked as shown in the correct circuit on the right.



Incorrect

Correct