





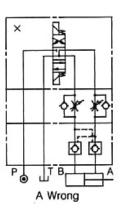
FEATURES

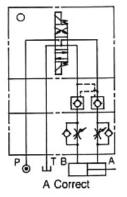
Modular type of pressure controls, flow controls, and check valves are sandwitched between directional control valves and their subplates or manifolds. They use no piping and share a common mounting surface, and are the ultimate in modern design, compactness and efficiency. They reduce the possibility of eakage, vibration, flow noise caused by piping. The compactness takes less space, ease the installation and maintenance.

They are available in both D03 and D05 sizes.

CIRCUITRY EXAMPLES

Α. directional valve Solenoid Pilot operated modular check valve (for A, B lines) Modular reducing valve (for B line)

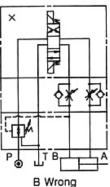


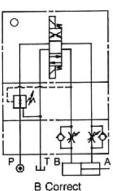


When MT-***B and MPC-** W are used together in same circuit, the right circuit is correct usage, and left is wrong, as the MPC would not be totally closed.

B.

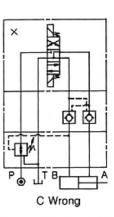
B. Solenoid directional valve Modular flow control valve (for A. B lines, metering out) Modular reducing valve (for B

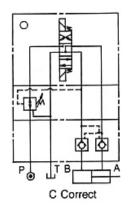




When MPR-**B and MT-** W are used together in same circuit, the right circuit is correct usage, and left is wrong, as the function of pressure reducing valve will be affected when oil flow from B to T. Because the metering out throttle/check valve will create a pressure which will cause pressure reducing valve to reduce the pressure too low, and the cylinder then can not operate with enough force or move smoothly.

C. Solenoid directional valve Modular flow control valve (for A, B lines, metering out) Modular pilot operated check valve (for A, B lines)

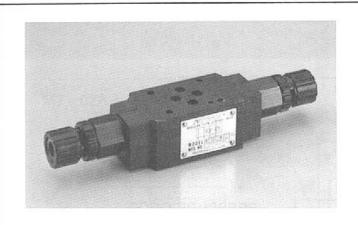




C. When MT-**W and MPC-**W are used together in same circuit, the MT should be installed closer to the cylinder ports, otherwise cylinder may have a "knocking" phenomenon happened.



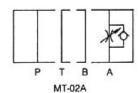
Oilgear Modular Throttle And Check Valve MT-02 Series

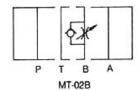


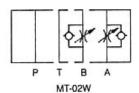
SPECIFICATIONS

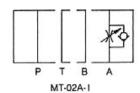
Max. operating pressure	210 Kgf/cm² (3000PSI)
Max. flow capacity	35 LPM (9.3 GPM)

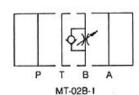
SYMBOLS

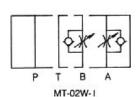




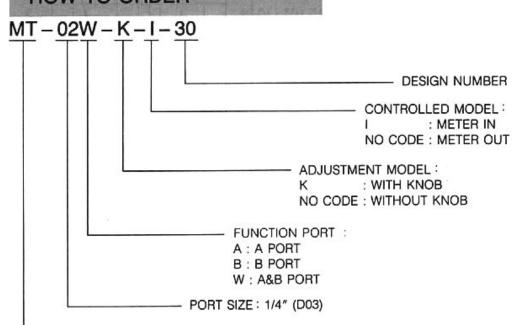








HOW TO ORDER



MODULAR THROTTLE AND CHECK VALVE

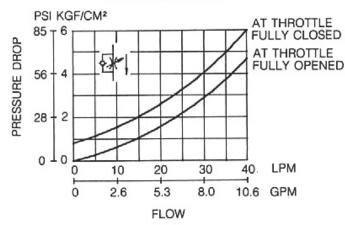


PERFORMANCE CURVES

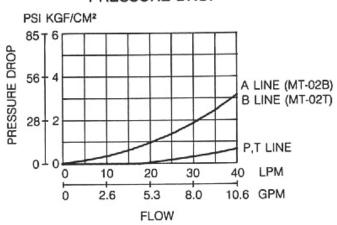
TEST CONDITIONS

Viscosity: 35 CST Temperature: 50°C

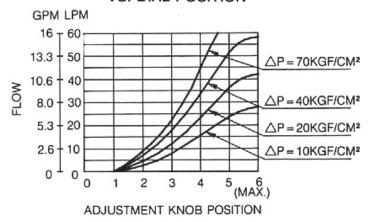
PRESSURE DROP FOR FREE FLOW



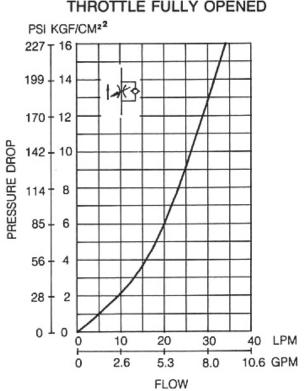
PRESSURE DROP



METERED FLOW VS. DIAL POSITION



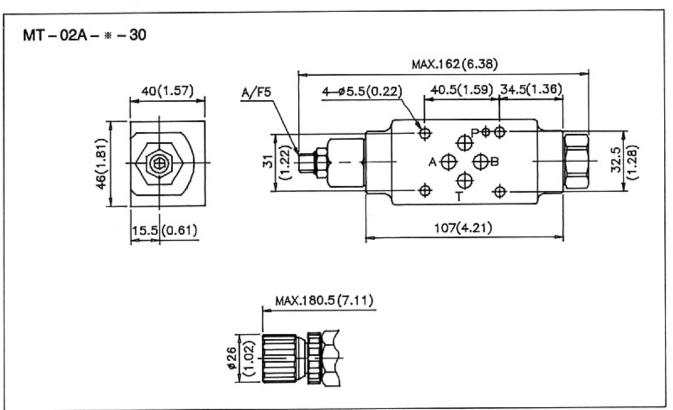
PRESSURE DROP AT THROTTLE FULLY OPENED

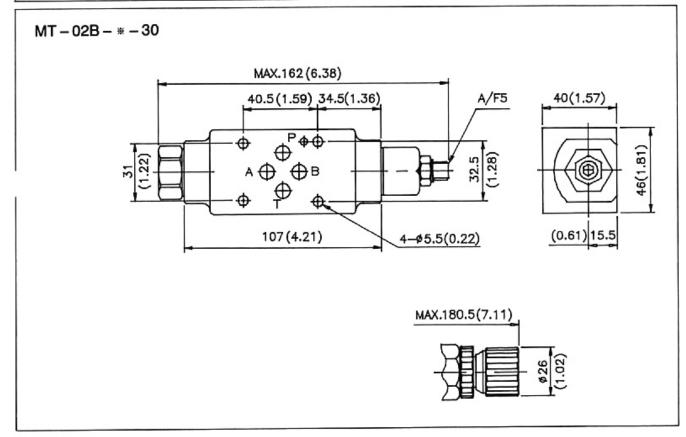




UNIT: mm(inch)

WEIGHT: 1.2 kgs (2.65 lbs)



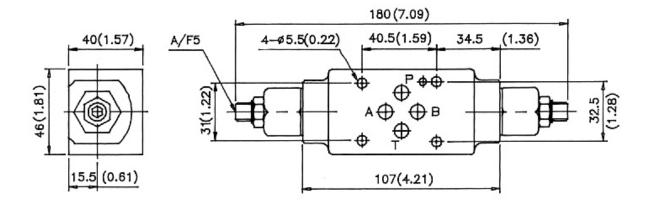


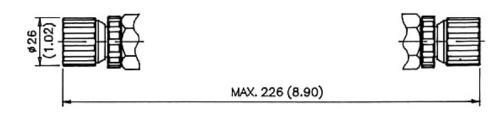


UNIT: mm(inch)

WEIGHT: 1.4 kgs (3.1 lbs)

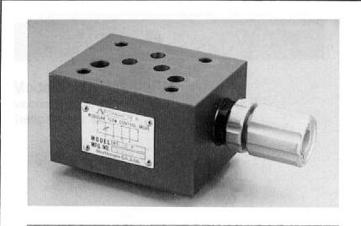
MT - 02W - * - * - 30







Modular Throttle And Check Valve MT-03 Series

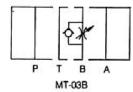


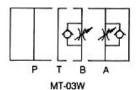
SPECIFICATIONS

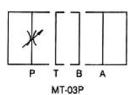
Max. operating pressure	210 Kgf/cm² (3000PSI)
Max. flow capacity	70 LPM (20 GPM)

SYMBOLS

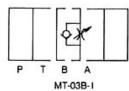


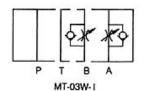


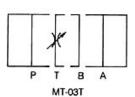












HOW TO ORDER

MT - 03W - K - I - 30— DESIGN NUMBER CONTROLLED MODEL: : METER IN NO CODE: METER OUT ADJUSTMENT MODEL: : WITH KNOB NO CODE: WITHOUT KNOB FUNCTION PORT : P : P PORT T: TPORT A : A PORT B : B PORT W: A&B PORT PORT SIZE: 3/8" (D05) - MODULAR PRESSURE REDUCING VALVE

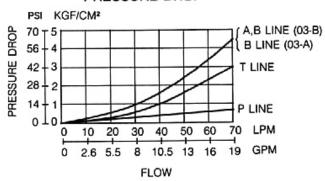


PERFORMANCE CURVES

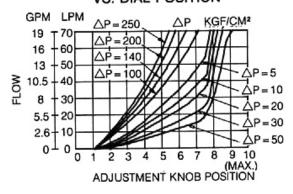
Models with MT-03W/A/B

Viscosity: 35 CST Temperature: 50°C

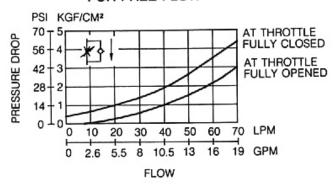
PRESSURE DROP



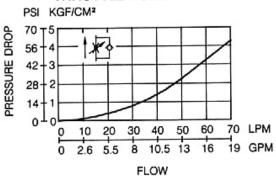
METERED FLOW VS. DIAL POSITION



PRESSURE DROP FOR FREE FLOW



PRESSURE DROP AT THROTTLE FULLY OPENED

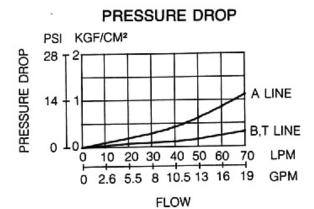


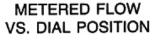


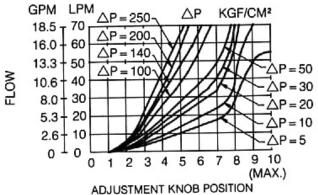
PERFORMANCE CURVES

Models with MT-03P/T

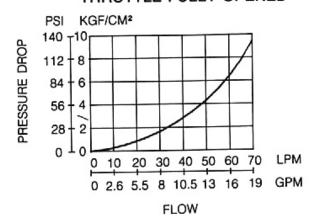
Viscosity: 35 CST Temperature: 50°C







PRESSURE DROP AT THROTTLE FULLY OPENED

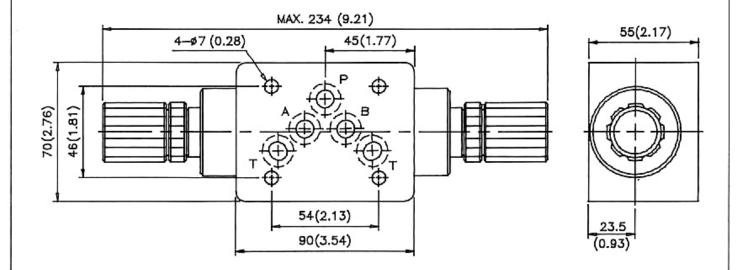




UNIT: mm(inch)

WEIGHT: 2.8kgs (6.171lbs)

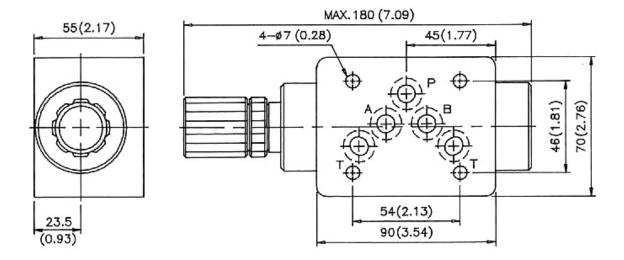
$$MT - 03W - * - * - 30$$





UNIT: mm (inch)

WEIGHT: 2.4 kgs(5.29lbs)

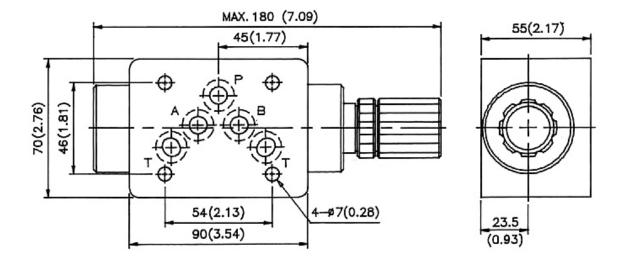




UNIT: mm (inch)

WEIGHT: 2.4kgs(5.29lbs)

$$MT - 03B - * - * - 30$$





MODULAR THROTTLE AND CHECK VALVE

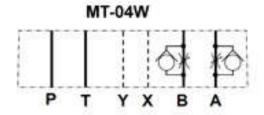
MT-04 SERIES

The modular adjustable flow control valve functions as a needle valve flow restrictor in one direction in abranch of a circuit, with free flow in the opposite direction. It operates on the A & B ports in the "meter-out" configuration. Adjustment is made with a calibrated knob, standard with the valve.

As a modular valve, this valve mounts between an NFPA D07 size directional control valve and the subplate. A longer than standard bolt kit is required when mounting modular valves in a stack.



Symbols





Model Code



1 Series

MT: Modular Throttle and Check Valve (Flow Control)

2 Mounting Style 04: NFPA Size D07

3 Function Port W: A & B Ports

4 Adjustment Style K: Adjusting Knob

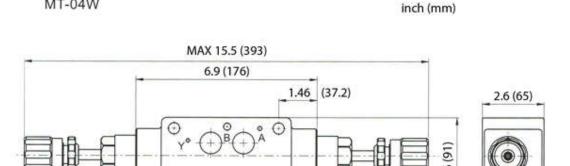
5 Design Number

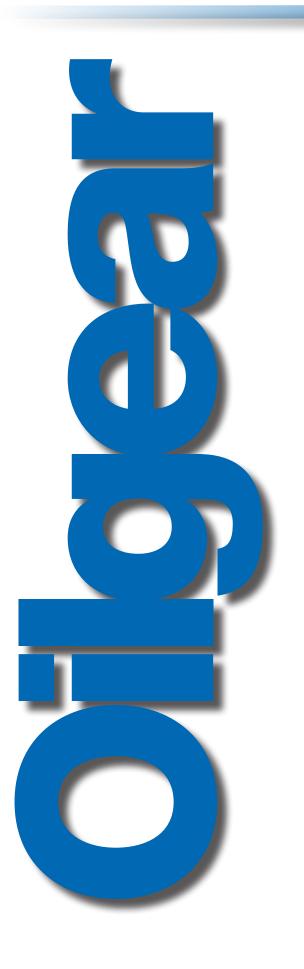
Features

Max. operating pressure	250 BAR (3675 PSI)
Max. flow capacity	190 LPM (50 GPM)

Dimensions

MT-04W





Sede Mundial

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www.oilgear.com.br

Para obter informações adicionais sobre seu aplicativo ou sobre os produtos referenciados neste manual, entre em contato com a Oilgear mais próxima. Acesse o website da Oilgear para obter uma relação completa de nossos endereços.