





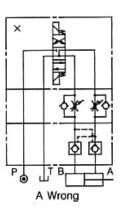
FEATURES

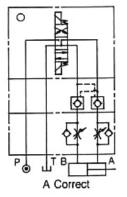
Modular type of pressure controls, flow controls, and check valves are sandwitched between directional control valves and their subplates or manifolds. They use no piping and share a common mounting surface, and are the ultimate in modern design, compactness and efficiency. They reduce the possibility 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)

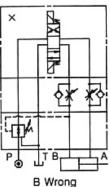


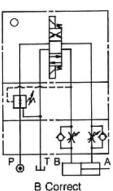


When MT-***B and MPC-** W are used together in same circuit, the right circuit is correct usage, and left is wrong, as the MPC would not be totally closed.

B.

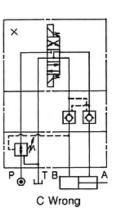
B. Solenoid directional valve Modular flow control valve (for A. B lines, metering out) Modular reducing valve (for B

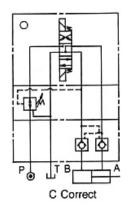




When MPR-**B and MT-** W are used together in same circuit, the right circuit is correct usage, and left is wrong, as the function of pressure reducing valve will be affected when oil flow from B to T. Because the metering out throttle/check valve will create a pressure which will cause pressure reducing 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)

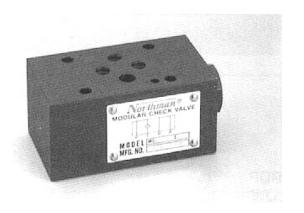




C. When MT-**W and MPC-**W are used together in same circuit, the MT should be installed closer to the cylinder ports, otherwise cylinder may have a "knocking" phenomenon happened.



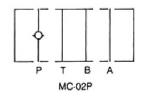
Oilgear Modular Check Valve MC-02 Series

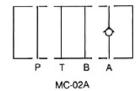


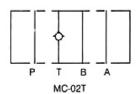
SPECIFICATIONS

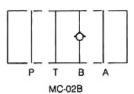
Max. operating pressure	210 Kgf/cm² (3000PSI)
Max. flow capacity	35 LPM (9.3 GPM)

SYMBOLS

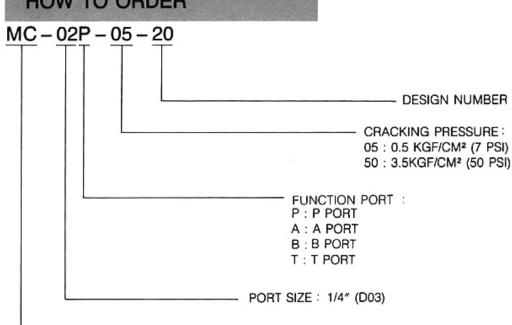








HOW TO ORDER

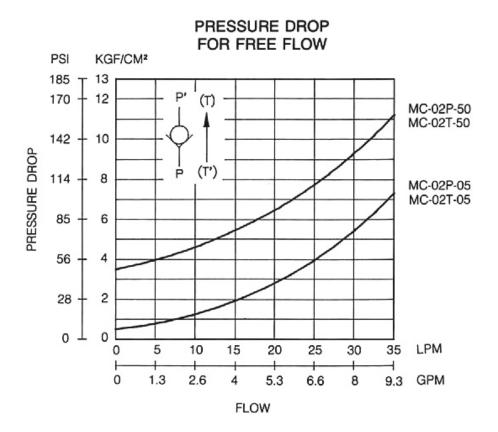


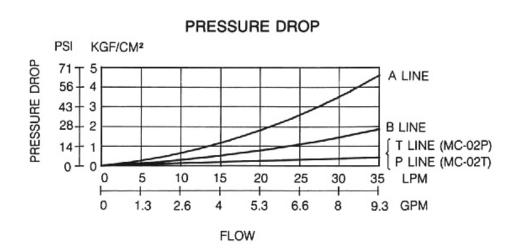
MODULAR CHECK VALVE



TEST CONDITIONS

Viscosity: 35 CST Temperature: 50°C

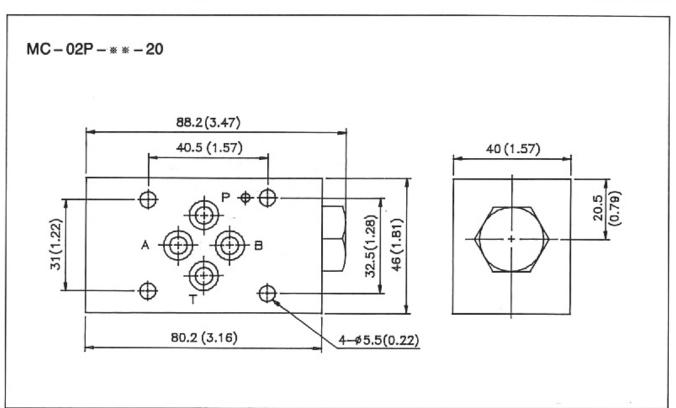


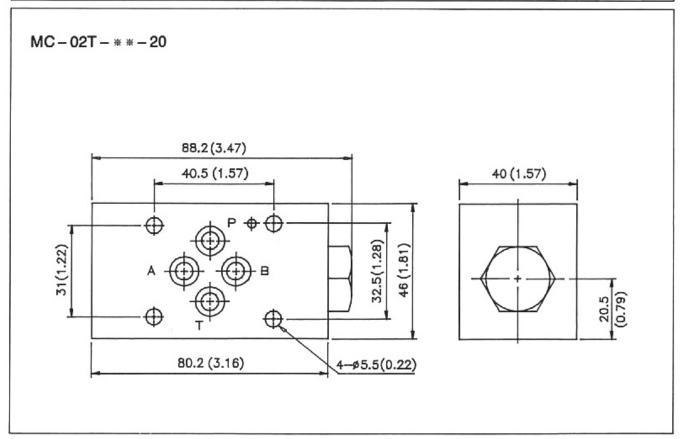




UNIT: mm(inch)

WEIGHT: 1.2 kgs (2.65 lbs)

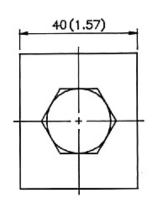


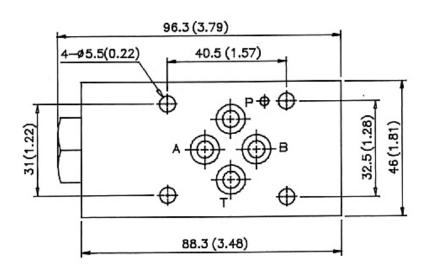


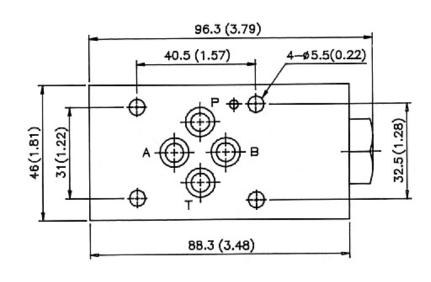


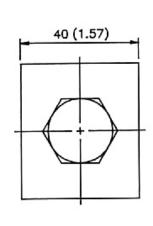
UNIT: mm(inch)

WEIGHT: 1.2 kgs (2.65 lbs)



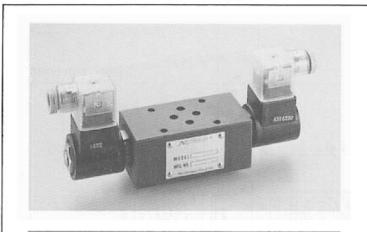








Modular Solenoid Check Valve MSC-02 Series



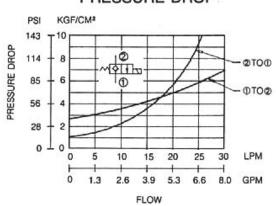
SPECIFICATIONS

Max. operating pressure	210 Kgf/cm² (3000PSI)
Max. flow capacity	30 LPM (8 GPM)

SYMBOLS

PERFORMANCE CURVES

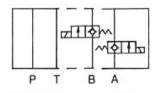
PRESSURE DROP



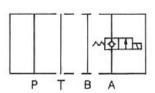
B: B PORT

PORT SIZE: 1/4" (D03)

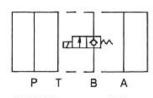
MODULAR SOLENOID CHECK VALVE



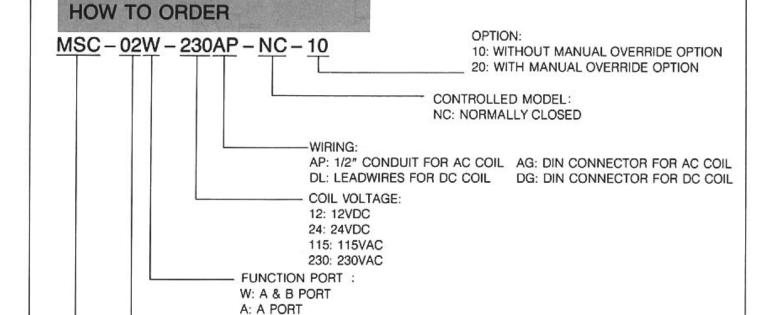
MSC-02W- ** * ** NC- **



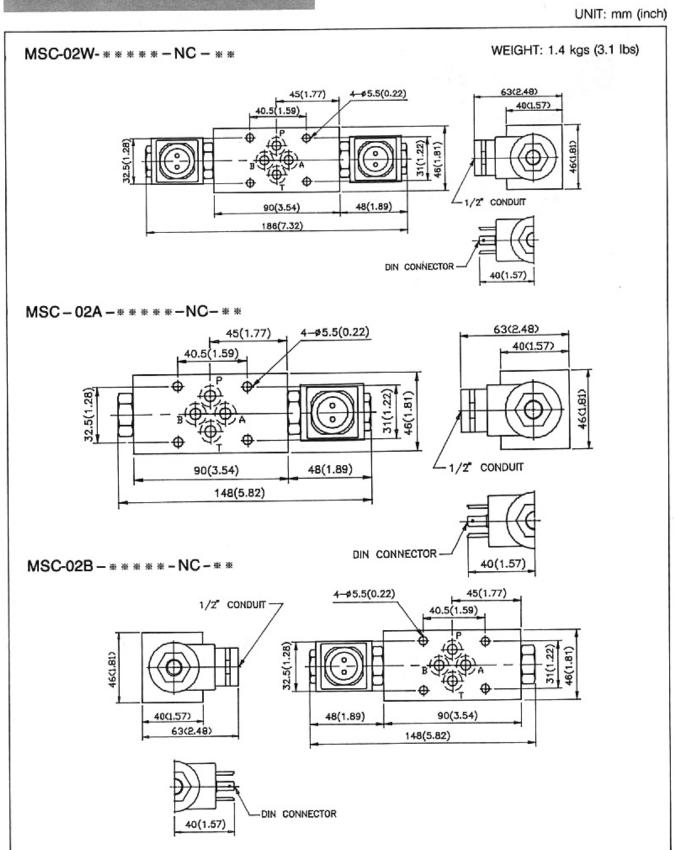
MSC-02A-*****NC-**



MSC-02B-*****-NC-**

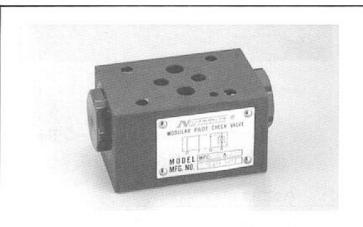








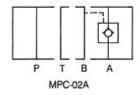
Oigear Modular Pilot Check Valve MPC-02 Series

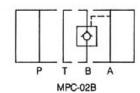


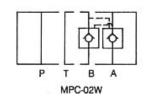
SPECIFICATIONS

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

SYMBOLS







HOW TO ORDER

MPC - 02W - 30

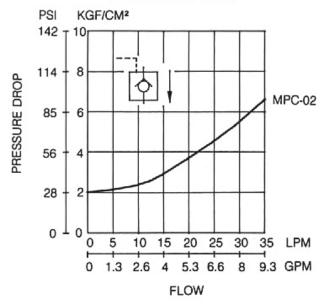
— DESIGN NUMBER FUNCTION PORT: A: A PORT B : B PORT W: A&B PORT — PORT SIZE : 1/4" (D03) MODULAR PILOT CHECK VALVE



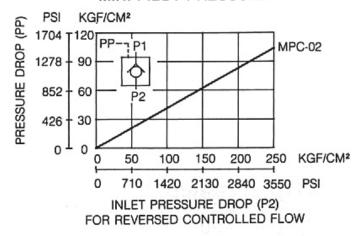
TEST CONDITIONS

Viscosity: 35 CST Temperature: 50°C

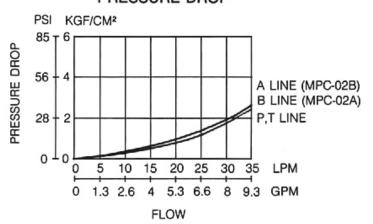
PRESSURE DROP FOR FREE FLOW



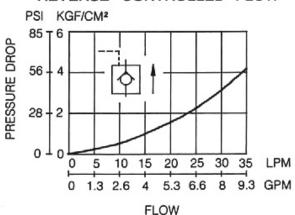
MIN. PILOT PRESSURE



PRESSURE DROP



PRESSURE DROP FOR REVERSE CONTROLLED FLOW

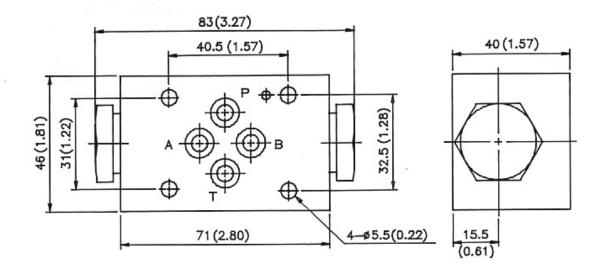




UNIT: mm(inch)

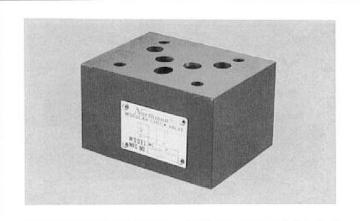
WEIGHT: 1.1 kgs (2.43 lbs)

MPC-02 *-30





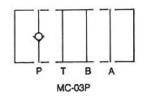
Oigear Modular Check Valve MC-03 Series

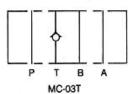


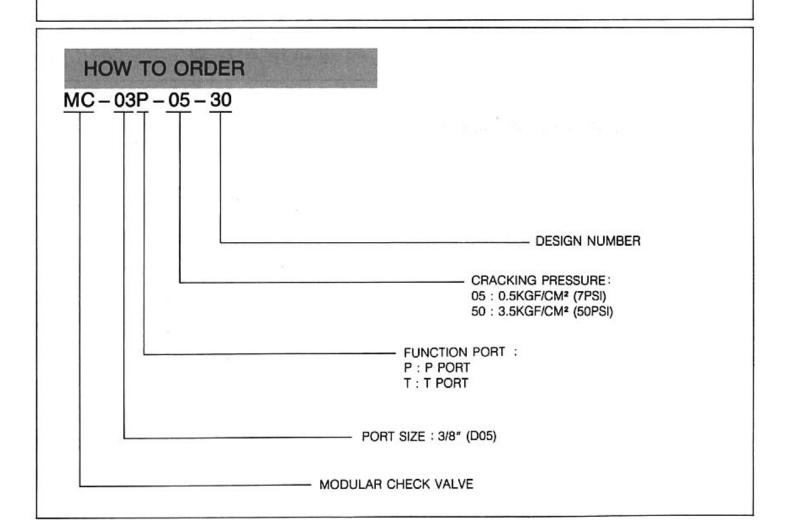
SPECIFICATIONS

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

SYMBOLS





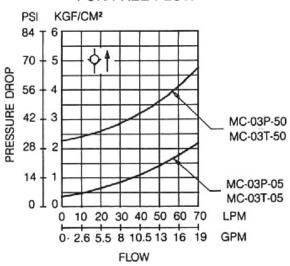




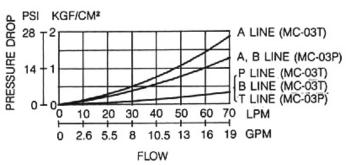
TEST CONDITIONS

Viscosity: 35 CST Temperature: 50°C

PRESSURE DROP FOR FREE FLOW



PRESSURE CROP

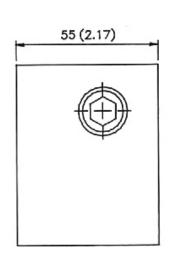


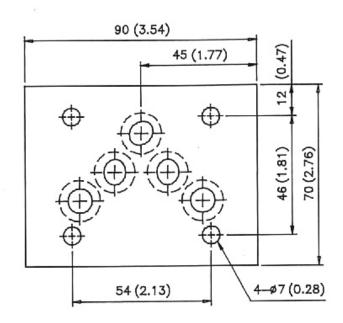
INSTALLATION DIMENSIONS

UNIT: mm(inch)

WEIGHT: 2.3 kgs (5.07lbs)

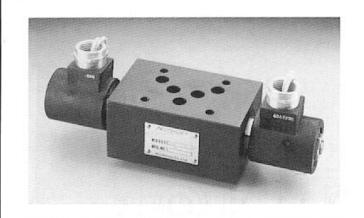
$$MC - 03 * - * * - 30$$







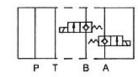
Modular Solenoid Check Valve MSC-03 Series



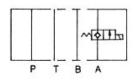
SPECIFICATIONS

Max. operating pressure	210 Kgf/cm² (3000PSI)
Max. flow capacity	30 LPM (8 GPM)

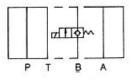
SYMBOLS







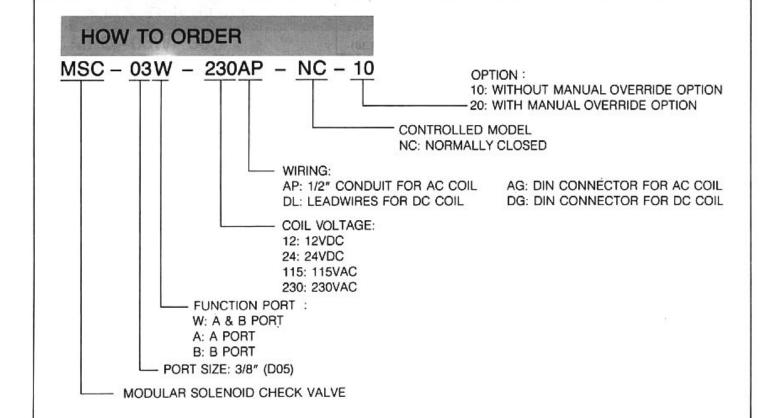
MSC-03A-####-NC-##



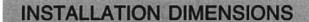
MSC-03B-####-NC-##

PERFORMANCE CURVES

PRESSURE DROP PSI KGF/CM² 143 **-10** PRESSURE DROP 114 OTO 2 1 Po 85 6 **@TO®** 56 28 0 LPM 50 5.3 8.0 10.7 13.5 16.0 GPM 2.6 FLOW



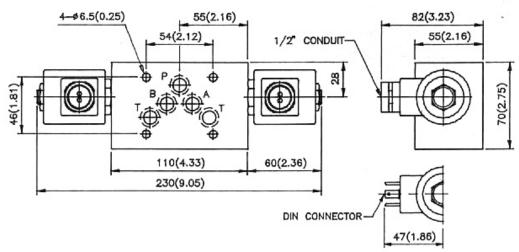




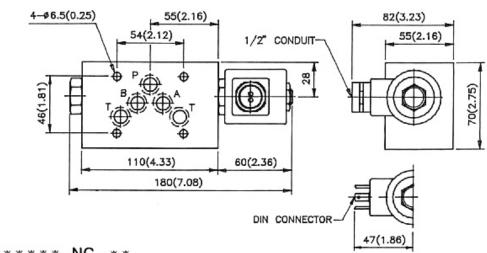
UNIT: mm (inch)



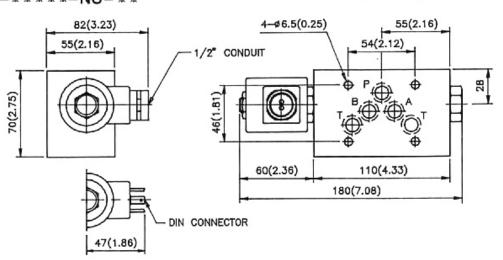
WEIGHT: 3.4 kgs (7.5 lbs)



WEIGHT: 2.9 kgs (6.39 lbs)

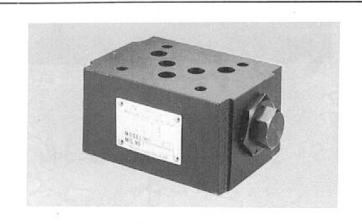


MSC-03B - * * * * * - NC - * *





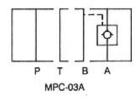
Oigear Modular Pilot Check Valve MPC-03 Series

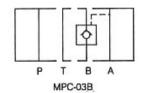


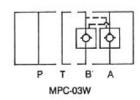
SPECIFICATIONS

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

SYMBOLS







HOW TO ORDER MPC-03W-30

— DESIGN NUMBER

- FUNCTION PORT : A: A PORT B: B PORT W: A&B PORT

— PORT SIZE : 3/8" (D05)

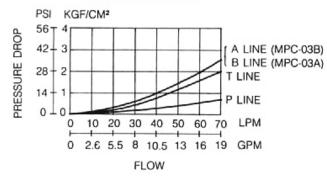
— MODULAR CHECK VALVE



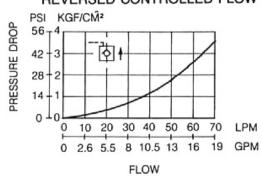
TEST CONDITIONS

Viscosity: 35 CST Temperature: 50°C

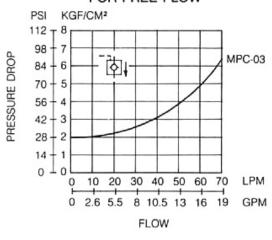
PRESSURE DROP



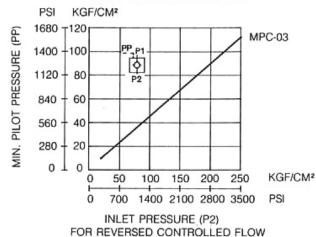
PRESSURE DROP FOR REVERSED CONTROLLED FLOW



PRESSURE DROP FOR FREE FLOW



MIN. PILOT PRESSURE

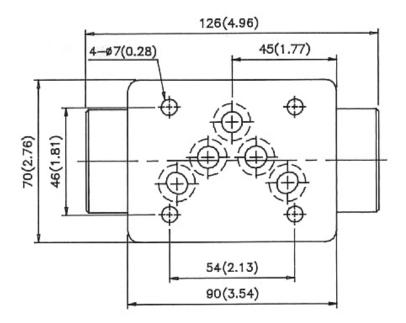


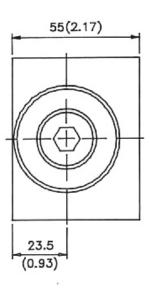


UNIT: mm(inch)

WEIGHT: 3.4 kgs (7.5lbs)

MPC-03 *-30







MODULAR PILOT CHECK VALVE

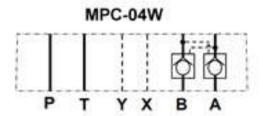
MPC-04 SERIES

The modular pilot-operated check valve will allow free flow in one direction and block flow in the opposite direction. It functions to positively hold the actuator in a neutral position. Movement is restored by an automatic pilot pressure signal when the directional control valve shifts to move the actuator. It operates on the A & B ports.

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

MPC: Modular Pilot

3 Function Port W: A & B, Meter-Out

Check Valve

2 Mounting Style

4 Spring 50: Spring PSI

04: NFPA Size D07

5 Design Number

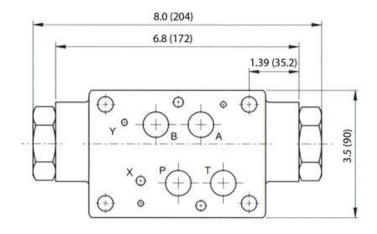
Features

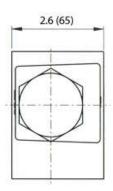
Max. operating pressure	250 BAR (3675 PSI)
Max. flow capacity	190 LPM (50 GPM)

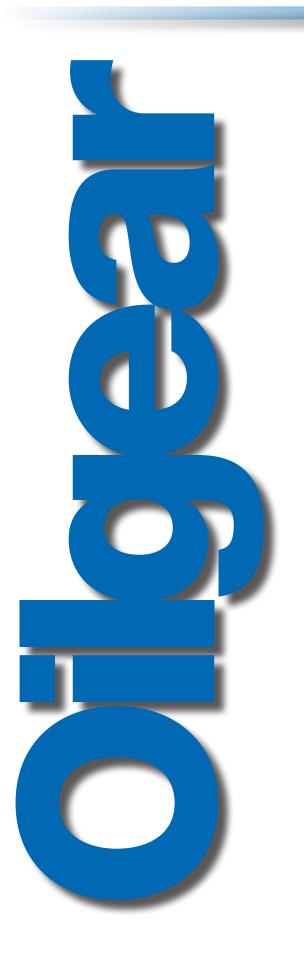
Dimensions

MPC-04W

Inch (mm)







Sede Mundial

The Oilgear Company

2300 South 51st Street Milwaukee, WI USA 53219 Tel: 414/327-1700 Fax: 414/327-0532

www.oilgear.com

Oilgear do Brasil Hydráulica Ltda.

Av. Ricardo Bassoli Cezare,1009 Jd. das Bandeiras 13050-080 Campinas-SP Brasil Tel/Fax: +55 19 3307-7866

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.