HYDRAULIC MODULAR VALVE
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FEATURES

Modular type of pressure controls, flow controls, and check valves are sandwiched 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 leakages, 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

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

A Wrong

A Correct

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

B Wrong

B Correct

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

C Wrong

C Correct

A. 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. 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. 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.
SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
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</tr>
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<tbody>
<tr>
<td>Max. operating pressure</td>
<td>210 Kgf/cm² (3000 PSI)</td>
</tr>
<tr>
<td>Max. flow capacity</td>
<td>35 LPM (9.3 GPM)</td>
</tr>
</tbody>
</table>

SYMBOLS

MRF-02P

MRF-02A

MRF-02B

MRF-02D

MRF-02C

HOW TO ORDER

MRF-02P - K - 1 - 20

DESIGN NUMBER

PRESSURE ADJUSTMENT RANGE:
1: 8-70 KGF/CM² (120-1000 PSI)
2: 35-140 KGF/CM² (500-2000 PSI)
3: 70-210 KGF/CM² (1000-3000 PSI)

ADJUSTMENT MODEL:
K : WITH KNOB
NO CODE: WITHOUT KNOB

FUNCTION PORT:
P : P PORT
A : A PORT
B : B PORT
C : A&B PORT VENTING TO TANK
D : A&B PORT CROSS OVER RELIEF

PORT SIZE: 1/4" (D03)
PERFORMANCE CURVES

TEST CONDITIONS
Viscosity: 35 CST
Temperature: 50°C

NOMINAL OVERRIDE CHARACTERISTICS

PRESSURE DROP

MIN. ADJUSTMENT PRESSURE

MIN. FLOW CHARACTERISTICS
MODULAR PRESSURE REDUCING VALVE
MPR-02 SERIES

SPECIFICATIONS

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<td>35 LPM (9.3 GPM)</td>
</tr>
</tbody>
</table>

SYMBOLS

MPR-02P

MPR-02A

MPR-02B

HOW TO ORDER

MPR-02P – K – 1 – 20

DESIGN NUMBER

PRESSURE ADJUSTMENT RANGE:

0 : 1.5-35 KGF/cm² (20-500 PSI)
1 : 8-70 KGF/cm² (120-1000 PSI)
2 : 35-140 KGF/cm² (500-2000 PSI)
3 : 70-210 KGF/cm² (1000-3000 PSI)

ADJUSTMENT MODEL:

K : WITH KNOB
NO CODE : WITHOUT KNOB

FUNCTION PORT:

P : P PORT
A : A PORT
B : B PORT

PORT SIZE : 1/4" (D03)

MODULAR PRESSURE REDUCING VALVE
PERFORMANCE CURVES

TEST CONDITIONS
Viscosity: 35 CST
Temperature: 50°C

PRESSURE DROP

MIN. ADJUSTMENT PRESSURE
VS. MAX. FLOW
INSTALLATION DIMENSIONS

UNIT: mm (inch)
WEIGHT: 1.2 kgs (2.65 lbs)

MPR-02B - • • • 20

A/F5

(0.74) 18.7 40.5 (1.59) 4-Ø5.5 (0.22)

3(1.22)

MAX.146 (5.75)

1/4" RC

MAX.172 (6.77)

(1.02)
MODULAR THROTTLE AND CHECK VALVE
MT-02 SERIES

SPECIFICATIONS

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SYMBOLS

MT-02A

MT-02B

MT-02W

MT-02A-I

MT-02B-I

MT-02W-I

HOW TO ORDER

MT-02W-K-I-30

- DESIGN NUMBER
- CONTROLLED MODEL:
  - I: METER IN
  - NO CODE: METER OUT
- ADJUSTMENT MODEL:
  - K: WITH KNOB
  - NO CODE: WITHOUT KNOB
- FUNCTION PORT:
  - A: A PORT
  - B: B PORT
  - W: A&B PORT
- PORT SIZE: 1/4" (D03)

MODULAR THROTTLE AND CHECK VALVE
PERFORMANCE CURVES

TEST CONDITIONS
Viscosity: 35 CST
Temperature: 50°C

PRESSURE DROP FOR FREE FLOW

PRESSURE DROP

PRESSURE DROP AT THROTTLE FULLY OPENED

METERED FLOW VS. DIAL POSITION

GPM LPM

FLOW

ADJUSTMENT KNOB POSITION

ΔP = 70KGF/CM²
ΔP = 40KGF/CM²
ΔP = 20KGF/CM²
ΔP = 10KGF/CM²

PRESSURE DROP

A LINE (MT-02B)
B LINE (MT-02T)
P.T LINE

FLOW

FLOW

FLOW

LPM

LPM

LPM
MT-02 SERIES

INSTALLATION DIMENSIONS

UNIT: mm(inch)
WEIGHT: 1.4 kgs (3.1 lbs)

MT-02W-***-30

[Diagram with dimensions]
MODULAR CHECK VALVE
MC-02 SERIES

SPECIFICATIONS

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<tr>
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<tbody>
<tr>
<td>Max. flow capacity</td>
<td>35 LPM (9.3 GPM)</td>
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</table>

SYMBOLS

- **MC-02P**
  - P
  - T
  - B
  - A

- **MC-02T**
  - P
  - T
  - B
  - A

- **MC-02A**
  - P
  - T
  - B
  - A

- **MC-02B**
  - P
  - T
  - B
  - A

HOW TO ORDER

**MC-02P - 05 - 20**

- **DESIGN NUMBER**
- **CRACKING PRESSURE**:
  - 05 : 0.5 Kgf/cm² (7 PSI)
  - 50 : 3.5 Kgf/cm² (50 PSI)
- **FUNCTION PORT**:
  - P : P PORT
  - A : A PORT
  - B : B PORT
  - T : T PORT
- **PORT SIZE**: 1/4" (D03)

MODULAR CHECK VALVE
TEST CONDITIONS
Viscosity: 35 CST
Temperature: 50°C

PRESSURE DROP FOR FREE FLOW

PRESSURE DROP
MODULAR SOLENOID CHECK VALVE
MSC-02 SERIES

SPECIFICATIONS

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

SYMBOLES

PERFORMANCE CURVES

PRESSURE DROP

<table>
<thead>
<tr>
<th>PSI</th>
<th>KG/FCM²</th>
</tr>
</thead>
<tbody>
<tr>
<td>143</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td></td>
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<td>58</td>
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<td>50</td>
<td></td>
</tr>
<tr>
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<td></td>
</tr>
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<td></td>
</tr>
<tr>
<td>20</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

FLOW

| 0   | 1.3  |
| 5   | 2.6  |
| 10  | 3.9  |
| 15  | 5.3  |
| 20  | 6.6  |
| 25  | 8.0  |

HOW TO ORDER

MSC-02W - 230AP - NC - 10

OPTION:
10: WITHOUT MANUAL OVERRIDE OPTION
20: WITH MANUAL OVERRIDE OPTION

CONTROLLED MODEL:
NC: NORMALLY CLOSED

WIRING:
AP: 1/2" CONDUIT FOR AC COIL
DL: LEADWIRES FOR DC COIL
COIL VOLTAGE:
12: 12VDC
24: 24VDC
115: 115VAC
230: 230VAC

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

PORT SIZE: 1/4" (D03)
MODULAR SOLENOID CHECK VALVE
SPECIFICATIONS

<table>
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<tr>
<th>Specification</th>
<th>Value</th>
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<tbody>
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<td>Max. flow capacity</td>
<td>35 LPM (9.3 GPM)</td>
</tr>
</tbody>
</table>

SYMBOLS

MPC-02A

MPC-02B

MPC-02W

HOW TO ORDER

MPC-02W-30

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 FOR REVERSE CONTROLLED FLOW
INSTALLATION DIMENSIONS

MPC-02 ※ - 30

UNIT: mm(inch)
WEIGHT: 1.1 kgs (2.43 lbs)
MODULAR RELIEF VALVE
MRF-03 SERIES

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Max. operating pressure</th>
<th>210 Kgf/cm² (3000PSI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. flow capacity</td>
<td>70 LPM (20 GPM)</td>
</tr>
</tbody>
</table>

SYMBOLS

MRF-03P

MRF-03A

MRF-03B

MRF-03D

MRF-03C

HOW TO ORDER

MRF - 03P - K - 1 - 30

DESIGN NUMBER

PRESSURE ADJUSTMENT RANGE:
1: 8-70KGF/CM² (120-1000PSI)
2: 35-140KGF/CM² (500-2000PSI)
3: 70-210KGF/CM² (1000-3000PSI)

ADJUSTMENT MODEL:
K: WITH KNOB
NO CODE: WITHOUT KNOB

FUNCTION PORT:
P: P PORT
A: A PORT
B: B PORT
C: A&B PORT VENTING TO TANK
D: A&B PORT CROSS OVER RELIEF

PORT SIZE: 3/8" (D05)

MODULAR RELIEF VALVE
PERFORMANCE CURVES

TEST CONDITIONS
Viscosity: 35 CST
Temperature: 50°C

NOMINAL OVERRIDE CHARACTERISTICS

MIN. FLOW VS. ADJUSTMENT PRESSURE

PRESSURE DROP
MRF-03 SERIES

INSTALLATION DIMENSIONS

UNIT: mm (inch)
WEIGHT: 3.7 kgs (8.16 lbs)

MRF-03C/D-**-**-30

55(2.17)
46(1.81)
33(1.29)

MAX. 290 (11.42)
98(3.86)
4-Ø7(0.28)

(0.85) 21.5 54(2.13)

196 (7.72)

73(2.87)

A/F5
MODULAR PRESSURE REDUCING VALVE
MPR-03 SERIES

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Max. operating pressure</th>
<th>210 Kg/cm² (3000 PSI)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. flow capacity</td>
<td>70 LPM (20 GPM)</td>
</tr>
</tbody>
</table>

SYMBOLS

MPR-03P

MPR-03A

MPR-03B

HOW TO ORDER

MPR-03P - K - 0 - 30

- DESIGN NUMBER
- PRESSURE ADJUSTMENT RANGE:
  0 : 3-35KGF/CM² (40-500 PSI)
  1 : 35-70KGF/CM² (500-1000 PSI)
  2 : 70-140KGF/CM² (1000-2000 PSI)
  3 : 140-210KGF/CM² (2000-3000 PSI)
- ADJUSTMENT MODEL:
  K : WITH KNOB
  NO CODE : WITHOUT KNOB
- FUNCTION PORT:
  P : P PORT
  A : A PORT
  B : B PORT
- PORT SIZE : 3/8" (D05)

MODULAR PRESSURE REDUCING VALVE
PERFORMANCE CURVES

TEST CONDITIONS
Viscosity: 35 CST
Temperature: 50°C

PILOT FLOW CHART

PRESSURE DROP AT SPOOL FULLY OPENED (P-LINE)

PRESSURE DROP
INSTALLATION DIMENSIONS

UNIT: mm (inch)
WEIGHT: 3.4 kgs (7.5 lbs)

MPR-03P/A - 30

A/F5

55 (2.17)
41.5 (1.63)

MAX. 207 (8.15)
12 (0.47)

63.5 (2.5)

54 (2.13)

4 (0.28)

110 (4.33)

MAX. 224 (8.82)

70 (2.76)

4.29 (1.14)
MODULAR THROTTLE AND CHECK VALVE
MT-03 SERIES

SPECIFICATIONS

<table>
<thead>
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<th>Parameter</th>
<th>Specification</th>
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SYMBOLS

MT-03A

MT-03B

MT-03W

MT-03P

MT-03A-I

MT-03B-I

MT-03W-I

MT-03T

HOW TO ORDER

MT-03W-K-I-30

DESIGN NUMBER

CONTROLLED MODEL:
I : METER IN
NO CODE: METER OUT

ADJUSTMENT MODEL:
K : WITH KNOB
NO CODE: WITHOUT KNOB

FUNCTION PORT:
P : P PORT
T : T PORT
A : A PORT
B : B PORT
W : A&B PORT

PORT SIZE : 3/8" (D05)

MODULAR PRESSURE REDUCING VALVE
Performace 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

FLOW

METERED FLOW VS. DIAL POSITION

PRESSURE DROP AT THROTTLE FULLY OPENED

FLOW

ADJUSTMENT KNOB POSITION
MT-03 SERIES

INSTALLATION DIMENSIONS

UNIT: mm(inch)
WEIGHT: 2.8kgs (6.171 lbs)

MT-03W-***-30

MAX. 234 (9.21)
4-Ø7 (0.28)
45 (1.77)
55 (2.17)
23.5 (0.93)
54 (2.13)
90 (3.54)
70 (2.76)
46 (1.81)
INSTALLATION DIMENSIONS

MT-03A-***-30

UNIT: mm (inch)
WEIGHT: 2.4 kgs (5.29 lbs)
MT-03 SERIES

INSTALLATION DIMENSIONS

UNIT: mm (inch)
WEIGHT: 2.4 kgs (5.29 lbs)

MT-03B-____-30

MAX. 180 (7.09)

45 (1.77)

54 (2.13)

4-φ7 (0.28)

90 (3.54)

70 (2.76)

46 (1.81)

23.5 (0.93)

55 (2.17)
MODULAR CHECK VALVE
MC-03 SERIES

SPECIFICATIONS

<p>| | |</p>
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SYMBOLS

![Symbols for MC-03P and MC-03T](image)

HOW TO ORDER

MC-03P - 05 - 30

- **Design Number**
- **Cracking Pressure**:
  - 05: 0.5 KGF/CM² (7 PSI)
  - 50: 3.5 KGF/CM² (50 PSI)
- **Function Port**:
  - P: P PORT
  - T: T PORT
- **Port Size**: 3/8" (D05)

MODULAR CHECK VALVE
MC-03 SERIES

PERFORMANCE CURVES

TEST CONDITIONS
Viscosity: 35 CST
Temperature: 50°C

PRESSURE DROP
FOR FREE FLOW

PRESSURE DROP
PSI  KGF/CM²
84  6
70  5
56  4
42  3
28  2
14  1
0   0

FLOW
0  2.6  5.5  8  10.5  13  16  19
LPM  GPM

MC-03P-50
MC-03T-50
MC-03P-05
MC-03T-05

PRESSURE CROP

PRESSURE DROP
PSI  KGF/CM²
28  2
14  1
0   0

FLOW
0  2.6  5.5  8  10.5  13  16  19
LPM  GPM

A LINE (MC-03T)
A, B LINE (MC-00P)
P LINE (MC-03T)
B LINE (MC-03T)
T LINE (MC-03P)

INSTALLATION DIMENSIONS

MC-03和-00-30

UNIT: mm(inch)
WEIGHT: 2.3kgs(5.07lbs)

55 (2.17)
90 (3.54)
45 (1.77)
12 (0.47)
46 (1.81)
70 (2.76)
54 (2.13)
47 (0.28)
MODULAR SOLENOID CHECK VALVE
MSC-03 SERIES

SPECIFICATIONS

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<tr>
<td>Max. flow capacity</td>
<td>30 LPM (8 GPM)</td>
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</tbody>
</table>

SYMBOLS

PERFORMANCE CURVES

PRESSURE DROP

<table>
<thead>
<tr>
<th>PSI</th>
<th>KGF/CM²</th>
</tr>
</thead>
<tbody>
<tr>
<td>143</td>
<td>10</td>
</tr>
<tr>
<td>114</td>
<td>8</td>
</tr>
<tr>
<td>86</td>
<td>6</td>
</tr>
<tr>
<td>56</td>
<td>4</td>
</tr>
<tr>
<td>26</td>
<td>2</td>
</tr>
</tbody>
</table>

FLOW

| 0    | 2.6    |
| 5.3  | 8.0    |
| 10.7 | 13.5   |
| 15.6 |        |

HOW TO ORDER

MSC - 03W - 230AP - NC - 10

OPTION:
10: WITHOUT MANUAL OVERRIDE OPTION
20: WITH MANUAL OVERRIDE OPTION

CONTROLLED MODEL
NC: NORMALLY CLOSED

WIRING:
AP: 1/2" CONDUIT FOR AC COIL
DL: LEAD WIRES FOR DC COIL

COIL VOLTAGE:
12: 12VDC
24: 24VDC
115: 115VAC
230: 230VAC

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

PORT SIZE: 3/8" (D05)

MODULAR SOLENOID CHECK VALVE
**MODULAR PILOT CHECK VALVE**
**MPC-03 SERIES**

### SPECIFICATIONS

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<tr>
<td>Max. flow capacity</td>
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</tbody>
</table>

### SYMBOLS

- **MPC-03A**
- **MPC-03B**
- **MPC-03W**

### 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

**PERFORMANCE CURVES**
**INSTALLATION DIMENSIONS**

**MPC - 03-30**

UNIT: mm (inch)
WEIGHT: 3.4 kgs (7.5 lbs)
MODULAR SYSTEM MANIFOLD BLOCKS
M02 M03 SERIES

HOW TO ORDER

M02 - 1E - 1

THREAD:
1: PT
2: NPT

NUMBER OF STATIONS

PORT SIZE:
02: 1/4" (D03)
03: 3/8" (D05)

MULTI-STATION MANIFOLD BLOCKS

INSTALLATION DIMENSIONS

UNIT: mm (inch)
WEIGHT: 2.1 kgs (4.62 lbs)

MODEL D E
M02-1E 1 PT3/8" M5x0.8P
2 NPT3/8" #10-24 UNC
M02 SERIES MAINFOLD

INSTALLATION DIMENSIONS

UNIT: mm (inch)

PARAMETERS:
- M = (N-1) * P
- P = 53 (2.09)
- Φ1.4 (0.55) Depth 10 (0.4)

MODEL | D | E | N | M | L | WEIGHT (kg) (Lb)
--- | --- | --- | --- | --- | --- | ---
M02.25- | 1 PT38* M5 x 0.8P | 2 | 53 | 141 | 4.5 (10.1)
2 NPT35* #10-24UNC |
M02.35- | 1 PT38* M5 x 0.8P | 3 | 166 | 194 | 6.3 |
2 NPT35* #10-24UNC |
M02.45- | 1 PT38* M5 x 0.8P | 4 | 169 | 247 | 8.1 |
2 NPT35* #10-24UNC |
M02.55- | 1 PT38* M5 x 0.8P | 5 | 212 | 300 | 10.0 |
2 NPT35* #10-24UNC |
M02.65- | 1 PT38* M5 x 0.8P | 6 | 265 | 353 | 11.8 |
2 NPT35* #10-24UNC |
M02.75- | 1 PT38* M5 x 0.8P | 7 | 318 | 406 | 13.6 |
2 NPT35* #10-24UNC |

*INDICATING WEIGHT FOR STEEL BLOCK MATERIAL
INSTALLATION DIMENSIONS

M03 - 1E - *

UNIT: mm (inch)
WEIGHT: 6.4 kgs (14.08 lbs)

MODEL | C     | D     | E          |
-------|-------|-------|------------|
M03-1E | PT3/4"| PT1/2"| M6 x 1P    |
2      | NPT3/4"| NPT1/2"| 1/4-20 UNC |

* indicating weight for steel block material
**M03 SERIES MAINFOLD**

**INSTALLATION DIMENSIONS**

M03 - *E -*

UNIT: mm(inch)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>N</th>
<th>M</th>
<th>L</th>
<th>WEIGHT: kgs (Lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M03-2E</td>
<td>PT3/4&quot;</td>
<td>PT1/2&quot;</td>
<td>M6 x 1P</td>
<td>2</td>
<td>165</td>
<td>185</td>
<td>13.8</td>
</tr>
<tr>
<td></td>
<td>NPT3/4&quot;</td>
<td>NPT1/2&quot;</td>
<td>1/4-20UNC</td>
<td></td>
<td></td>
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<tr>
<td>M03-3E</td>
<td>PT3/4&quot;</td>
<td>PT1/2&quot;</td>
<td>M6 x 1P</td>
<td>3</td>
<td>240</td>
<td>260</td>
<td>19.5</td>
</tr>
<tr>
<td></td>
<td>NPT3/4&quot;</td>
<td>NPT1/2&quot;</td>
<td>1/4-20UNC</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M03-4E</td>
<td>PT3/4&quot;</td>
<td>PT1/2&quot;</td>
<td>M6 x 1P</td>
<td>4</td>
<td>315</td>
<td>335</td>
<td>25.0</td>
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<tr>
<td></td>
<td>NPT3/4&quot;</td>
<td>NPT1/2&quot;</td>
<td>1/4-20UNC</td>
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</tr>
<tr>
<td>M03-5E</td>
<td>PT3/4&quot;</td>
<td>PT1/2&quot;</td>
<td>M6 x 1P</td>
<td>5</td>
<td>390</td>
<td>410</td>
<td>31.0</td>
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<td>NPT1/2&quot;</td>
<td>1/4-20UNC</td>
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</tbody>
</table>

*INDICATING WEIGHT FOR STEEL BLOCK MATERIAL*
HOW TO ORDER

MBK - 02 - 1 - 1

- THREAD:
  1. METER SIZE
  2. INCH SIZE

- NUMBER OF VALVE

- VALVE NOMINAL SIZE:
  02 : 1/4" (D03)
  03 : 3/8" (D05)

- MOUNTING BOLT KITS

INSTALLATION DIMENSIONS

UNIT: mm(inch)

<table>
<thead>
<tr>
<th>STAGE</th>
<th>SIZE</th>
<th>A (LENGTH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>02</td>
<td>94 (3.70)</td>
</tr>
<tr>
<td></td>
<td>03</td>
<td>105 (4.17)</td>
</tr>
<tr>
<td>2</td>
<td>02</td>
<td>134 (5.27)</td>
</tr>
<tr>
<td></td>
<td>03</td>
<td>181 (6.34)</td>
</tr>
<tr>
<td>3</td>
<td>02</td>
<td>174 (6.85)</td>
</tr>
<tr>
<td></td>
<td>03</td>
<td>216 (8.50)</td>
</tr>
<tr>
<td>4</td>
<td>02</td>
<td>214 (8.42)</td>
</tr>
<tr>
<td></td>
<td>03</td>
<td>271 (10.67)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MODEL</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>B</th>
<th>C</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBK-02-a-1</td>
<td>4(0.16)</td>
<td>8.5(0.33)</td>
<td>M5 x 0.8P</td>
<td>9(0.35)</td>
<td>9(0.35)</td>
<td>15(0.59)</td>
</tr>
<tr>
<td>MBK-02-a-2</td>
<td>4(0.16)</td>
<td>8.5(0.33)</td>
<td>#10-24UNC</td>
<td>9(0.35)</td>
<td>9(0.35)</td>
<td>15(0.59)</td>
</tr>
<tr>
<td>MBK-03-a-1</td>
<td>5(0.20)</td>
<td>10(0.39)</td>
<td>M8 x 1P</td>
<td>12(0.47)</td>
<td>13(0.47)</td>
<td>22(0.87)</td>
</tr>
<tr>
<td>MBK-03-a-2</td>
<td>5(0.20)</td>
<td>10(0.39)</td>
<td>1/4-20UNC</td>
<td>12(0.47)</td>
<td>13(0.47)</td>
<td>22(0.87)</td>
</tr>
</tbody>
</table>

REMARK: PER SET WITH FOUR PIECES.
MODULAR SYSTEM END PLATES

SYMBOLS

INSTALLATION DIMENSIONS

UNIT: mm\(\times\)inch

M02 END PLATES

M03 END PLATES