## Motor Mount Valves

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<td>13-131.0</td>
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### General Information for Motor Mount Valves (Above)

**Motor Mount Ports (Interface Specification)**

Reference: 520-P-130000-EN-00/09.2015
MATERIAL: ANODIZED ALUMINUM ALLOY.

A LARGE REAR FLANGE OR A BRAKE.

MOUNTING DIMENSIONS SPECIFIED ON PAGE 13-010.0 TO CLEAR

WHITE, PARKER (HPI & ROSS), DANFOSS, ETC. WITH MANIFOLD

AND A LOW SPEED HIGH TORQUE HYDRAULIC MOTOR SUCH AS EATON,

THIS UNIT IS A RISER BLOCK TO MOUNT IN BETWEEN THE VALVE

AND A LOW SPEED HIGH TORQUE HYDRAULIC MOTOR SUCH AS EATON,

WHITE, PARKER (HPI & ROSS), DANFOSS, ETC. WITH MANIFOLD

MOUNTING DIMENSIONS SPECIFIED ON PAGE 13-010.0 TO CLEAR

A LARGE REAR FLANGE OR A BRAKE.

MATERIAL: ANODIZED ALUMINUM ALLOY.

REFERENCE: 520-P-130101-EN-00/09.2015

MMRB-30090

MOTOR MOUNT RISER BLOCK

3.00”

1.88”

1.20”

MMRB-30090-X

BASIC MOTOR MOUNT RISER BLOCK

SEALS N = BUNA (12113)

V = VITON (14113)

DESCRIPTION

THIS UNIT IS A RISER BLOCK TO MOUNT IN BETWEEN THE VALVE

AND A LOW SPEED HIGH TORQUE HYDRAULIC MOTOR SUCH AS EATON,

WHITE, PARKER (HPI & ROSS), DANFOSS, ETC. WITH MANIFOLD

MOUNTING DIMENSIONS SPECIFIED ON PAGE 13-010.0 TO CLEAR

A LARGE REAR FLANGE OR A BRAKE.

MATERIAL: ANODIZED ALUMINUM ALLOY.
# MOTOR MOUNT RELIEF VALVE

**Diagram:**
- **Type A**: "E"/SHUTTLE
- **Type B**: "F"/SHUTTLE
- **Type C**: "G"/SHUTTLE
- **Type D**: "H"/SHUTTLE

**Dimensions:**
- Node A: 1.75" (44.5 mm)
- Node B: 2.00" (50.8 mm)
- Node C: 2.45" (62.2 mm)
- Node D: 3.25" (82.5 mm)

**Options:**
- **BASIC**
- **SIZE**: 10 = 7/8" - 14UNF
- **SEALS**: N = BUNA "N" V = VITON
- **ADJUSTMENT**: C = CAPPED S = SCREW T = TAMPERPROOF

**Use on:** "D" & "H" only

**Pressure Range:**
- 15 = 0 to 1500 PSI
- 30 = 0 to 3000 PSI

**Ports:**
- 10TA = SAE - #10
- Other ports available upon request

**Type A, B, C, D, E & F**

**Reference:** 520-P-131100-EN-00/09.2015

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**Plot:**

- **L/M (28.5 cSt)**: 0 to 4000
- **Pressure Drop (ΔP)**: 0 to 2750
- **G.P.M. (135 SUS)**: 0 to 90

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**FOR ADJUSTMENT CONTROL**

**OPTIONS SEE PAGE 0-050.0**
# MMRV-10

## MOTOR MOUNT RELIEF VALVE

**DESCRIPTION**

This unit is a cross port relief valve to mount on to a low speed high torque hydraulic motor such as Eaton, White, Parker (HPI & Ross), Danfoss, etc. With manifold mounting dimensions specified on page 13-010.0

**OPERATIONS**

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<thead>
<tr>
<th>TYPE</th>
<th>PORT RELIEFS</th>
<th>CARTRIDGE VALVE</th>
</tr>
</thead>
<tbody>
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<td>A</td>
<td>&quot;A&quot; TO &quot;B&quot;</td>
<td>RVPS-10-X-X-0-XX</td>
</tr>
<tr>
<td>B</td>
<td>&quot;B&quot; TO &quot;A&quot;</td>
<td>RVPS-10-X-X-0-XX</td>
</tr>
<tr>
<td>C</td>
<td>&quot;A&quot; TO &quot;B&quot; &amp; &quot;B&quot; TO &quot;A&quot;</td>
<td>RVBD-10-X-X-0-XX</td>
</tr>
<tr>
<td>D</td>
<td>&quot;A&quot; TO &quot;B&quot; &amp; &quot;B&quot; TO &quot;A&quot;</td>
<td>RVPP-10-X-X-0-XX</td>
</tr>
<tr>
<td>E</td>
<td>&quot;A&quot; TO &quot;B&quot; (SAME AS &quot;A&quot;)</td>
<td>WITH BRAKE SHUTTLE</td>
</tr>
<tr>
<td>F</td>
<td>&quot;B&quot; TO &quot;A&quot; (SAME AS &quot;B&quot;)</td>
<td>WITH BRAKE SHUTTLE</td>
</tr>
<tr>
<td>G</td>
<td>&quot;A&quot; TO &quot;B&quot; &amp; &quot;B&quot; TO &quot;A&quot;</td>
<td>WITH BRAKE SHUTTLE (SAME AS &quot;C&quot;)</td>
</tr>
<tr>
<td>H</td>
<td>&quot;A&quot; TO &quot;B&quot; &amp; &quot;B&quot; TO &quot;A&quot;</td>
<td>WITH BRAKE SHUTTLE (SAME AS &quot;D&quot;)</td>
</tr>
</tbody>
</table>

**SPECIFICATIONS**

- **Operating Pressure:** 3000 PSI [210 BAR].
- **Operating Temperature:** -40° TO +250° F. [-40° TO +120° C.].
- **Operating Medium:** All general purpose hydraulic fluids.
- **Brake Port When Required:** SAE-#4 (7/16”-20 UNF THD.)
- **Material:** Anodized aluminium alloy body.
- **Optional:** Provisions can be made to clear the mounting bolt on the SAE "A" flange mount motor with mounting hole on the same side as the working ports "A" and "B".

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Reference: 520-P-131100-EN-00/09.2015
MOTOR MOUNT PILOTED CHECK

- **Type "A"**
  - "D"/Shuttle

- **Type "B"**
  - "E"/Shuttle

- **Type "C"**
  - "F"/Shuttle

**Pressures**

- **Free Flow**
  - 0 - 3 PSI

- **Piloted Open**
  - 3,5 - 14,0 PSI

**Seals**

- N = BUNA "N"
- V = VITON

**Adjustment**

- F = Fixed (Standard)
- M = Manual Load Release

**Ports**

- 10TA = SAE - #10
- Other ports upon request

**Pressure Drop (ΔP)**

- 0 to 200 PSI

**L/M (28.5 cSt)**

- 11.3, 22.5, 33.8, 45, 56.3, 67.5, 14.0 G.P.M. (135 SUS)

**Motor Mount Pilot Check**

Reference: 520-P-131200-EN-00/09.2015
DESCRIPTION
THIS UNIT IS A PILOT OPERATED CHECK VALVE TO MOUNT ON TO A LOW SPEED HIGH TORQUE HYDRAULIC MOTOR SUCH AS EATON, WHITE, PARKER (HPI & ROSS), DANFOSS, ETC. WITH MANIFOLD MOUNTING DIMENSIONS SPECIFIED ON PAGE 13-010.0
SEE PAGE 1-102.0 FOR MORE INFORMATION ON PERFORMANCE DATA AND OTHER OPTIONS OF THE CARTRIDGE #POCI-10-N-F-0-XX.

OPERATIONS

<table>
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<tr>
<th>TYPE</th>
<th>CHECKED PORT</th>
<th>CARTRIDGE VALVE</th>
</tr>
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<tbody>
<tr>
<td>A</td>
<td>&quot;A&quot;</td>
<td>POCI-10-X-X-0-XX</td>
</tr>
<tr>
<td>B</td>
<td>&quot;B&quot;</td>
<td>POCI-10-X-X-0-XX</td>
</tr>
<tr>
<td>C</td>
<td>&quot;A&quot; &amp; &quot;B&quot;</td>
<td>POCI-10-X-X-0-XX</td>
</tr>
<tr>
<td>D</td>
<td>&quot;A&quot;</td>
<td>WITH BRAKE SHUTTLE</td>
</tr>
<tr>
<td>E</td>
<td>&quot;B&quot;</td>
<td>WITH BRAKE SHUTTLE</td>
</tr>
<tr>
<td>F</td>
<td>&quot;A&quot; &amp; &quot;B&quot;</td>
<td>WITH BRAKE SHUTTLE</td>
</tr>
</tbody>
</table>

SPECIFICATIONS

OPERATING PRESSURE: 3000 PSI [210 BAR].
OPERATING TEMPERATURE: −40° TO +250° F. [−40° TO +120° C.].
OPERATING MEDIA: ALL GENERAL PURPOSE HYDRAULIC FLUIDS.
BRAKE PORT WHEN REQUIRED IS SAE–#4 (7/16”–20 UNF THD.)
MATERIAL: ANODIZED ALUMINIUM ALLOY BODY.
PILOT RATIO: 3 TO 1.
OPTIONAL: PROVISIONS CAN BE MADE TO CLEAR THE MOUNTING BOLT ON THE SAE "A" FLANGE MOUNT MOTOR WITH MOUNTING HOLE ON THE SAME SIDE AS THE WORKING PORTS "A" AND "B".
MOTOR MOUNT COUNTERBALANCE

MMCB-10-X-X-X-10TA-XX

BASIC
SIZE
10 = 7/8"-14UNF
SEALS
N = BUNA "N"
V = VITON
ADJUSTMENT
C = CAPPED
S = SCREW
T = TAMPERPROOF
FOR ADJUSTMENT CONTROL
OPTIONS SEE PAGE 0-050.0

PRESSURE DROP ($\Delta P$)

<table>
<thead>
<tr>
<th>L/M (28.5 cSt)</th>
<th>11.3</th>
<th>22.5</th>
<th>33.8</th>
<th>45</th>
<th>56.3</th>
<th>67.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSI</td>
<td>50</td>
<td>100</td>
<td>150</td>
<td>200</td>
<td>250</td>
<td>300</td>
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</table>

PILOTED OPEN
FREE FLOW
DESCRIPTION

THIS UNIT IS A COUNTERBALANCE VALVE TO MOUNT ON TO A LOW SPEED HIGH TORQUE HYDRAULIC MOTOR SUCH AS EATON, WHITE, PARKER (HPI & ROSS), DANFOSS, ETC. WITH MANIFOLD MOUNTING DIMENSIONS SPECIFIED ON PAGE 13–010.0

SEE PAGE 8–052.0 FOR MORE INFORMATION ON PERFORMANCE DATA AND OTHER OPTIONS OF THE CARTRIDGE #CBPA-10-N-S-0-XX.

OPERATIONS

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<th>CARTRIDGE VALVE</th>
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<td>A</td>
<td>&quot;A&quot;</td>
<td></td>
<td>CBPA-10-X-X-0-XX</td>
</tr>
<tr>
<td>B</td>
<td>&quot;B&quot;</td>
<td></td>
<td>CBPA-10-X-X-0-XX</td>
</tr>
<tr>
<td>C</td>
<td>&quot;A&quot; &amp; &quot;B&quot;</td>
<td></td>
<td>CBPA-10-X-X-0-XX</td>
</tr>
<tr>
<td>D</td>
<td>&quot;A&quot; E</td>
<td>WITH BRAKE SHUTTLE</td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>&quot;B&quot;</td>
<td>WITH BRAKE SHUTTLE</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>&quot;A&quot; &amp; &quot;B&quot;</td>
<td>WITH BRAKE SHUTTLE</td>
<td></td>
</tr>
</tbody>
</table>

SPECIFICATIONS

OPERATING PRESSURE: 3000 PSI [210 BAR].
OPERATING TEMPERATURE: –40 TO +250 F [-40 TO +120 C].
OPERATING MEDIA: ALL GENERAL PURPOSE HYDRAULIC FLUIDS.

BRAKE PORT WHEN REQUIRED IS SAE–#4 (7/16”–20 UNF THD.)
MATERIAL: ANODIZED ALUMINIUM ALLOY BODY.

PILOT RATIO: 4 TO 1.

OPTIONAL: PROVISIONS CAN BE MADE TO CLEAR THE MOUNTING BOLT ON THE SAE "A" FLANGE MOUNT MOTOR WITH MOUNTING HOLE ON THE SAME SIDE AS THE WORKING PORTS "A" AND "B".

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Reference: 520-P-131300-EN-00/09.2015
MOTOR MOUNT COUNTERBALANCE

**TYPE "A"**
"D"/SHUTTLE

**TYPE "B"**
"E"/SHUTTLE

**TYPE "C"**
"F"/SHUTTLE

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**MMCB-12-X-X-X-12TA-XX**

**BASIC**

**SIZE**
12 = 1.062"-12UNF

**SEALS**
N = BUNA "N"
V = VITON

**ADJUSTMENT**
C = CAPPED
S = SCREW
T = TAMPERPROOF

**PORTS**
12TA = SAE - #12

**PRESSURE RANGE**
15 = 0 TO 1500 PSI
30 = 0 TO 3000 PSI

**TYPE**
"A", "B", "C", "D", "E" & "F"
(SEE OTHER SIDE PAGE 13-131.1)

FOR ADJUSTMENT CONTROL OPTIONS SEE PAGE 0-050.0

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**PRESSURE DROP (ΔP)**

- **BAR**
  - 0
  - 3,5
  - 7,0
  - 10,5
  - 14,0

- **PSI**
  - 50
  - 100
  - 150
  - 200
  - 250
  - 300
  - 350
  - 400

- **L/M (28.5 cSt)**
  - 33,6
  - 45,0
  - 67,6
  - 90
  - 112,6
  - 135

**FREE FLOW**

- 12
- 18
- 24

**PILOTED OPEN**

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Reference: 520-P-131310-EN-00/09.2015
MOTOR MOUNT COUNTERBALANCE

DESCRIPTION

This unit is a counterbalance valve to mount on to a low speed high torque hydraulic motor such as Eaton, White, Parker (HPI & Ross), Danfoss, etc. with manifold mounting dimensions specified on page 13-010.0. See page 8-053.0 for more information on performance data and other options of the cartridge #CBPA-12-N-S-0-XX.

OPERATIONS

<table>
<thead>
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<th>PORT</th>
<th>COUNTERBALANCED</th>
<th>CARTRIDGE VALVE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>&quot;A&quot;</td>
<td>&quot;A&quot;</td>
<td>CBPA-12-X-X-0-XX</td>
</tr>
<tr>
<td>B</td>
<td>&quot;B&quot;</td>
<td>&quot;B&quot;</td>
<td>CBPA-12-X-X-0-XX</td>
</tr>
<tr>
<td>C</td>
<td>&quot;A&quot; &amp; &quot;B&quot;</td>
<td>&quot;A&quot; &amp; &quot;B&quot;</td>
<td>CBPA-12-X-X-0-XX</td>
</tr>
<tr>
<td>D</td>
<td>&quot;A&quot;</td>
<td>WITH BRAKE SHUTTLE</td>
<td>WITH BRAKE SHUTTLE</td>
</tr>
<tr>
<td>E</td>
<td>&quot;B&quot;</td>
<td>WITH BRAKE SHUTTLE</td>
<td>WITH BRAKE SHUTTLE</td>
</tr>
<tr>
<td>F</td>
<td>&quot;A&quot; &amp; &quot;B&quot;</td>
<td>WITH BRAKE SHUTTLE</td>
<td>WITH BRAKE SHUTTLE</td>
</tr>
</tbody>
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SPECIFICATIONS

Operating Pressure: 3000 PSI [210 BAR].
Operating Temperature: -40 to +250 F [-40 to +120 C].
Operating Media: All general purpose hydraulic fluids.
Brake Port When Required Is SAE-#4 (7/16”-20 UNF THD.)
Material: Anodized Aluminium Alloy Body.
Pilot Ratio: 4 to 1.

Optional: Provisions can be made to clear the mounting bolt on the SAE "A" flange mount motor with mounting hole on the same side as the working ports "A" and "B".

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Reference: 520-P-131310-EN-00/09.2015