ISO 05 SANDWICH BODIES
- Aluminum rated to 3000 psi and Ductile Iron rated to 5000 psi.
- See page viii for ordering cartridge/body and seals. Pressure ratings, material specifications on page xiv.

Counterbalance Valves

**FUNCTION**
On A Pilot from B

<table>
<thead>
<tr>
<th>Gage Port (Plugged)</th>
<th>ALUMINUM</th>
<th>DUCTILE IRON</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Model Code</td>
<td>List Price</td>
</tr>
<tr>
<td>.25 NPTF</td>
<td>BBA</td>
<td></td>
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<tr>
<td>.25 BSPP</td>
<td>BBA/M</td>
<td></td>
</tr>
</tbody>
</table>

TYPICAL CARTRIDGES USED WITH BODIES SHOWN ABOVE

- Counterbalance Valve, 3:1 Pilot Ratio
  - CBEA Page 4.10

- Counterbalance Valve, 4.5:1 Pilot Ratio
  - CBEG Page 4.12

- Counterbalance Valve, 10:1 Pilot Ratio
  - CBEH Page 4.14

OTHER VALVES:
ISO 05 SANDWICH BODIES

• Aluminum rated to 3000 psi and Ductile Iron rated to 5000 psi.
• See page viii for ordering cartridge/body and seals. Pressure ratings, material specifications on page xiv.

### Counterbalance Valves

**FUNCTION**

On A Pilot from B
Vent to T

<table>
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<th>Model Code</th>
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<tr>
<td>NBA</td>
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</table>
ISO 05 SANDWICH BODIES

- Aluminum rated to 3000 psi and Ductile Iron rated to 5000 psi.
- See page viii for ordering cartridge/body and seals. Pressure ratings, material specifications on page xiv.

### Counterbalance Valves

**FUNCTION**

- **On A**
  - No Pilot Assist

#### ALUMINUM

<table>
<thead>
<tr>
<th>Model Code</th>
<th>List Price</th>
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<tbody>
<tr>
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#### DUCTILE IRON

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<tr>
<th>Model Code</th>
<th>List Price</th>
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<tbody>
<tr>
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<td></td>
</tr>
<tr>
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</tbody>
</table>

**TYPICAL CARTRIDGES USED WITH BODIES SHOWN ABOVE**

- Direct Acting Relief Valve
  - RDFA Page 1.10

**OTHER VALVES:**

[Diagram for Counterbalance Valves]
ISO 05 SANDWICH BODIES

- Aluminum rated to 3000 psi and Ductile Iron rated to 5000 psi.
- See page viii for ordering cartridge/body and seals. Pressure ratings, material specifications on page xiv.

Counterbalance Valves

**FUNCTION**

On B

Pilot from A

<table>
<thead>
<tr>
<th>Gage Port (Plugged)</th>
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<tr>
<td>.25 BSPP</td>
<td>BBB/M</td>
<td></td>
</tr>
</tbody>
</table>

**TYPICAL CARTRIDGES USED WITH BODIES SHOWN ABOVE**

- Counterbalance Valve, 3:1 Pilot Ratio
  - CBEA Page 4.10
- Counterbalance Valve, 4.5:1 Pilot Ratio
  - CBEG Page 4.12
- Counterbalance Valve, 10:1 Pilot Ratio
  - CBEH Page 4.14
ISO 05 SANDWICH BODIES

- Aluminum rated to 3000 psi and Ductile Iron rated to 5000 psi.
- See page viii for ordering cartridge/body and seals. Pressure ratings, material specifications on page xiv.

**Counterbalance Valves**

**FUNCTION**

On A and B

Cross-Piloted

**TYPICAL CARTRIDGES USED WITH BODIES SHOWN ABOVE**

<table>
<thead>
<tr>
<th>Model Code</th>
<th>List Price</th>
<th>Model Code</th>
<th>List Price</th>
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<tbody>
<tr>
<td>BBY</td>
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<td>BBY/S</td>
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</table>

**OTHER VALVES:**

- Counterbalance Valve, 3:1 Pilot Ratio
  - CBEA Page 4.10
- Counterbalance Valve, 4.5:1 Pilot Ratio
  - CBEG Page 4.12
- Counterbalance Valve, 10:1 Pilot Ratio
  - CBEH Page 4.14

**ALUMINUM**

<table>
<thead>
<tr>
<th>Model Code</th>
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**DUCTILE IRON**

<table>
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**T–2A Cavity Locating Shoulder Depth .69 2 places.**

(5) – 014 O–rings
ISO 05 SANDWICH BODIES

- Aluminum rated to 3000 psi and Ductile Iron rated to 5000 psi.
- See page viii for ordering cartridge/body and seals. Pressure ratings, material specifications on page xiv.

### Counterbalance Valves

**FUNCTION**

On A and B  
Cross-Piloted  
Vents to T

<table>
<thead>
<tr>
<th>ALUMINUM</th>
<th>DUCTILE IRON</th>
</tr>
</thead>
<tbody>
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<td>Model Code</td>
<td>List Price</td>
</tr>
<tr>
<td>NBY</td>
<td></td>
</tr>
</tbody>
</table>

**TYPICAL CARTRIDGES USED WITH BODIES SHOWN ABOVE**

- Vented Counterbalance Valve, 3:1 Pilot Ratio  
  CWEA Page 4.18
- Vented Counterbalance Valve, 5:1 Pilot Ratio  
  CWEG Page 4.20

**OTHER VALVES:**
ISO 05 SANDWICH BODIES

- Aluminum rated to 3000 psi and Ductile Iron rated to 5000 psi.
- See page viii for ordering cartridge/body and seals. Pressure ratings, material specifications on page xiv.

### Counterbalance Valves

**FUNCTION**

Cushion Lock Circuit
On A and B

### ALUMINUM

<table>
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<th>List Price</th>
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<tbody>
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### DUCTILE IRON

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<tbody>
<tr>
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<td></td>
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</table>

**TYPICAL CARTRIDGES USED WITH BODIES SHOWN ABOVE**

- Counterbalance Valve, 3:1 Pilot Ratio
  - CBEA Page 4.10

- Counterbalance Valve, 4.5:1 Pilot Ratio
  - CBEG Page 4.12

- Counterbalance Valve, 10:1 Pilot Ratio
  - CBEH Page 4.14