Air Controlled Relief Valve

(F3)-CG19-(H)10**(P)-*(V)-(***)-90
(F3)-CS19-(H)10**(P)-*(V)-(***)-90
(F3)-CT19-10**(P)-*-(***)-90
PILOT VALVE (SEE TABLE) (DG18V–3–C–**–40 SHOWN)

291822 SLEEVE
400730 SLEEVE
291822 WASHER
68905 WASHER (4 REQ'D)

NOTE
ROTATE PILOT VALVE AND COVER S/A 90° CLOCKWISE FOR DUAL OPERATOR CG19 MODELS.

255698 BOLT KIT (INCLUDES 4 BOLTS) TORQUE 5.6 N.m (50 lb. in.) MAXIMUM

1074 SCREW (4 REQ'D) TORQUE 54.2–67.7 N.m (40–50 lb. in.)

SPRING (SEE TABLE)

Assemble 285601 seat with cross hole facing up as shown.

262367 'O'RING

285601 SEAT
294656 RESTRICTION PLUG
263497 'O'RING
329463 Plug
TORQUE 53–58 N.m (39–43 lb. ft.)

283948 PLUNGER
64520 WASHER
262332 'O'RING

283952 PISTON

283954 WASHER (SEE TABLE)

SLEEVE ('H' HIGH FLOW MODELS ONLY) (SEE TABLE)

MODEL | SEAT | SLEEVE
--- | --- | ---
C*19–10 | 283954 | —
C*19–H10 | 587996 | 400730

© Eaton Hydraulics, Incorporated 2000
All Rights Reserved
<table>
<thead>
<tr>
<th>MODEL</th>
<th>COVER S/A</th>
<th>DIAGRAM PLATE</th>
<th>PILOT VALVE</th>
<th>PILOT VALVE PARTS DRWG.</th>
</tr>
</thead>
<tbody>
<tr>
<td>C<em>19–(H)100A(P)–</em>(V)–90</td>
<td>422864</td>
<td>422865</td>
<td>DG18V–3–0BL–**–40</td>
<td></td>
</tr>
<tr>
<td>C<em>19–(H)101A(P)–</em>(V)–90</td>
<td>422865</td>
<td>423814</td>
<td>DG18V–3–2BL–**–40</td>
<td></td>
</tr>
<tr>
<td>C<em>19–(H)102A(P)–</em>(V)–90</td>
<td>422862</td>
<td>422863</td>
<td>DG18V–3–2C–**–40</td>
<td></td>
</tr>
<tr>
<td>C<em>19–(H)100C–</em>(V)–90</td>
<td>422862</td>
<td>428563</td>
<td>DG18V–3–0C–**–40</td>
<td></td>
</tr>
<tr>
<td>C<em>19–(H)102C–</em>(V)–90</td>
<td>422863</td>
<td>422863</td>
<td>DG18V–3–0FL–**–40</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE**

Parts prefixed with a symbol are available only in kits.

- **INCLUDED IN COVER S/A**
- **INCLUDED IN F3 SEAL KIT 920346** (includes pilot valve seals)
- **LUBRICATE WITH OIL BEFORE ASSEMBLY**
- **NOT AVAILABLE FOR SALE**

---

**DIAGRAM PLATE (SEE TABLE)**

**MODEL**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>COVER</th>
<th>PLUG/O’RING (2 REQ’D)</th>
<th>PLUG/O’RING</th>
</tr>
</thead>
<tbody>
<tr>
<td>C*19–(H)100A–90</td>
<td>422852</td>
<td>——</td>
<td>——</td>
</tr>
<tr>
<td>C*19–(H)101A–90</td>
<td>424204</td>
<td>343740 263494</td>
<td>398071 263492</td>
</tr>
<tr>
<td>C*19–(H)102A–90</td>
<td>422852</td>
<td>——</td>
<td>——</td>
</tr>
<tr>
<td>C*19–(H)10C–90</td>
<td>424204</td>
<td>343740 263494</td>
<td>398071 263492</td>
</tr>
</tbody>
</table>

---

**DIAGRAM PLATE**

343740 plug
Torque 15.0–16.6 N.m
(133–147 lb. in.)

- **580430 BODY**
- **CS19–(H)10***(V)–90**
- **593000 CT19–10***(V)–90**

---

**MODEL**

343740 plug
Torque 15.0–16.6 N.m
(133–147 lb. in.)

- **581703 BODY**
- **343740 PLUG**
- **263494 O’RING**
- **160571 PIN**
- **AX–36212 SCREW**

---

**BODY (SEE TABLE)**

AX–36212 SCREW (4 REQ’D)

- **DIAGRAM PLATE (SEE TABLE)**
- **263494 O’RING**
- **262332 O’RING**
- **263494 O’RING**
- **262399 O’RING** (2 REQ’D)
- **CG19–(H)10***(V)–90**

---

**PARTS DRWG.**

BODY (SEE TABLE)

263494 O’RING

PLUG / O’RING

343740 plug
Torque 15.0–16.6 N.m
(133–147 lb. in.)

- **160571 PIN**
- **AX–36212 SCREW** (4 REQ’D)

---

**MODEL**

343740 PLUG
Torque 15.0–16.6 N.m
(133–147 lb. in.)

- **263494 O’RING**
- **581703 BODY**

---

**PLUG/O’RING**

590300 BODY

DIAGRAM PLATE (SEE TABLE)

160571 PIN

AX–36212 SCREW (4 REQ’D)

- **343740 PLUG**
- **263494 O’RING**

---

**NOTE**

Parts prefixed with a symbol are available only in kits.

- **INCLUDED IN COVER S/A**
- **INCLUDED IN F3 SEAL KIT 920346** (includes pilot valve seals)
- **LUBRICATE WITH OIL BEFORE ASSEMBLY**
- **NOT AVAILABLE FOR SALE**

---

**PARTS DRWG.**

BODY (SEE TABLE)

263494 O’RING

PLUG / O’RING

343740 plug
Torque 15.0–16.6 N.m
(133–147 lb. in.)

- **160571 PIN**
- **AX–36212 SCREW** (4 REQ’D)

---

**MODEL**

343740 PLUG
Torque 15.0–16.6 N.m
(133–147 lb. in.)

- **263494 O’RING**
- **581703 BODY**

---

**PLUG/O’RING**

590300 BODY

DIAGRAM PLATE (SEE TABLE)

160571 PIN

AX–36212 SCREW (4 REQ’D)

- **343740 PLUG**
- **263494 O’RING**

---

**NOTE**

Parts prefixed with a symbol are available only in kits.

- **INCLUDED IN COVER S/A**
- **INCLUDED IN F3 SEAL KIT 920346** (includes pilot valve seals)
- **LUBRICATE WITH OIL BEFORE ASSEMBLY**
- **NOT AVAILABLE FOR SALE**
## Model Code

(F3) – C * 19 – (H) 10 * * (P) – * (V) – (*** ) – 90

1  2  3  4  5  6  7  8  9 10 11 12 13

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Seals for Mineral Oil &amp; Fire Resistant Fluids (Omit if not Required)</td>
</tr>
<tr>
<td>2</td>
<td>Relief Valve</td>
</tr>
<tr>
<td>3</td>
<td>Connections</td>
</tr>
<tr>
<td></td>
<td>G – Subplate Mounting</td>
</tr>
<tr>
<td></td>
<td>S – Straight Threads</td>
</tr>
<tr>
<td></td>
<td>T – NPTF Threads</td>
</tr>
<tr>
<td>4</td>
<td>Air Controlled, Pilot Operated</td>
</tr>
<tr>
<td>5</td>
<td>High Flow</td>
</tr>
<tr>
<td></td>
<td>CG &amp; CS Models Only (Omit if not Required)</td>
</tr>
<tr>
<td>6</td>
<td>Valve Size</td>
</tr>
<tr>
<td></td>
<td>1-1/4 inch</td>
</tr>
<tr>
<td>7</td>
<td>Pilot Valve Spool Type</td>
</tr>
<tr>
<td>8</td>
<td>Pilot Valve Function</td>
</tr>
<tr>
<td></td>
<td>A – Spring Offset (Single Operator)</td>
</tr>
<tr>
<td></td>
<td>B – Spring Centered (Operator ‘A’ Removed)</td>
</tr>
<tr>
<td></td>
<td>C – Spring Centered (Dual Operator)</td>
</tr>
<tr>
<td></td>
<td>F – Spring Offset (Pressurize to Center)</td>
</tr>
<tr>
<td>9</td>
<td>Manual Operator Option in End Cap for Single Operator Models Only (Omit if not Required)</td>
</tr>
<tr>
<td>10</td>
<td>Pressure Range</td>
</tr>
<tr>
<td></td>
<td>B – 125–1000 psi</td>
</tr>
<tr>
<td></td>
<td>C – 500–2000 psi</td>
</tr>
<tr>
<td></td>
<td>F – 1500–3000 psi</td>
</tr>
<tr>
<td>11</td>
<td>High Vent (Omit if not Required)</td>
</tr>
<tr>
<td>12</td>
<td>Pilot Valve Port Orifices (Omit if not Required)</td>
</tr>
<tr>
<td>13</td>
<td>Design</td>
</tr>
</tbody>
</table>

**RELIEF VALVE SECTIONAL VIEW WITHOUT PILOT VALVE**

For satisfactory service life of these components in industrial applications, use full flow filtration to provide fluid which meets ISO cleanliness code 18/15 or cleaner. Selections from Eaton OFP, OFR and OFRS filter series are recommended.