Wet Armature, Solenoid Operated, Directional Valves

DG4S4-01*(*)B/C-W3*-50
WARNING
Use this drawing for parts information only.

<table>
<thead>
<tr>
<th>Model</th>
<th>Spool</th>
<th>Diagram Plate</th>
<th>Spool Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>DG4S4-010B/C-W-*-50</td>
<td>463385</td>
<td>290341</td>
<td>940711</td>
</tr>
<tr>
<td>DG4S4-011B/C-W-*-50</td>
<td>463386</td>
<td>290342</td>
<td>940712</td>
</tr>
<tr>
<td>DG4S4-012B/C-W-*-50</td>
<td>463387</td>
<td>290343</td>
<td>940713</td>
</tr>
<tr>
<td>DG4S4-013B/C-W-*-50</td>
<td>463388</td>
<td>290344</td>
<td>940714</td>
</tr>
<tr>
<td>DG4S4-016B/C-W-*-50</td>
<td>463389</td>
<td>290345</td>
<td>940715</td>
</tr>
<tr>
<td>DG4S4-0168B/C-W-*-50</td>
<td>463390</td>
<td>290346</td>
<td>940716</td>
</tr>
<tr>
<td>DG4S4-017B/C-W-*-50</td>
<td>577480</td>
<td>940714</td>
<td></td>
</tr>
<tr>
<td>DG4S4-0178B/C-W-*-50</td>
<td>577482</td>
<td>940715</td>
<td></td>
</tr>
<tr>
<td>DG4S4-018B/C-W-*-50</td>
<td>577484</td>
<td>940717</td>
<td></td>
</tr>
<tr>
<td>DG4S4-0133B/C-W-*-50</td>
<td>577482</td>
<td>940715</td>
<td></td>
</tr>
</tbody>
</table>

Assemble type 1 spool with relieved land toward “A” port.
Assemble type 3 spool with narrow land toward “A” port.

Spool kit includes spool, diagram plate, seal kit and parts prefixed with a closed square symbol (■).

DG4S4-01*B/C-W-*-50

- A type “68” spool kit is the same as the type “6” except a different diagram plate is used and the “B” model solenoid is assembled on the opposite end of the valve. A type “68” pilot valve is required for a (C) spring centered two stage valve with “4” or “8” type main stage spools.

- A type “78” spool kit is the same as the type “7” except a different diagram plate is used. A type “78” pilot valve is required for a (D) pressure centered two stage valve with “4” or “8” type main stage spools.

Note
Right hand assembly shown (B models). For left hand assembly all parts, except body, are reversed. Example of left hand model: DG4S4-012B-W-*-50-LH.

- Assemble washer with sharp break edge toward outside of valve.

Coil Type | "W" Non-Serviceable | "W3" Serviceable
---|----------------------|-------------------
AC | △ 926593 | 941034
DC | — | 941035

INCLUDEd in serviceable (W3) Core Tube Subassembly.

Pole Face
Armature

Manual Plunger

262326 O-Ring

Core Tube

166360 O-Ring

400807 Flange (Assemble Chamfer Toward Body)

1250 Screw (2 req’d)
(Torque 29.8-38.0 N.m)
(264-336 lb. in.)

Coil S/A (See table)

577726 Screw (2 req’d)
(Torque 1.4-1.8 N.m)/(12-16 lb. in.)

© Eaton Hydraulics, Incorporated 2000 All Rights Reserved
**DG4S4-01'B-W-*50**

- **11012 Screw (4 req'd)**
  - Torque to 4.9-6.0 N.m (43-53 lb. in.)
  - 751310 Cover

- **262344 O-Ring**

- **174638 Screw (4 req'd)**
  - Torque to 0.8-0.9 N.m (7-9 lb. in.)

- **286122 Gasket & Wire S/A**

- **36212 Screw**

- **Body (Not available for sale)**

- **263493 O-Ring**

- **407533 Plug**
  - Torque 12.1-12.4 N.m (107-110 lb. in.)

- **407533 Plug**
  - Torque 12.1-12.4 N.m (107-110 lb. in.)

- **400815 Washer**

- **290072 Spring**

- **217323 Spring**
  - (DG4S4-018 Only)

- **573395 Spacer**
  - (Position counterbore toward push pin)
  - (Omit for B models)

- **400809 Push Pin**
  - (2 req'd C models)
  - (1 req'd B models)

- **Diagram Plate**
  - (See table)

- **64765 Plug**

- **400816 Washer**

- **263493 O-Ring**

- **DG4S4-01*B-W-*-50**

- **Correct armature and pole face must be used for AC and DC operation**

---

**Note**

- Part numbers prefixed with a symbol are available only as service kits.
- Suffix symbol pertains only to Vickers material control.
- Service all units W/F3 Seal Kit 920109

**Included in Coil Kit**

<table>
<thead>
<tr>
<th>Coil S/A</th>
<th>Coil Kit</th>
<th>AC Volt T/Hz</th>
<th>DC Volt</th>
<th>Coil Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>400823</td>
<td>942466</td>
<td>110/50, 115/60, 120/60</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>400824</td>
<td>942467</td>
<td>220/50, 230/60</td>
<td>D</td>
<td></td>
</tr>
<tr>
<td>400825</td>
<td>942468</td>
<td>440/50, 460/60</td>
<td>M</td>
<td></td>
</tr>
<tr>
<td>400826</td>
<td>942469</td>
<td>12</td>
<td>G</td>
<td></td>
</tr>
<tr>
<td>400827</td>
<td>942470</td>
<td>24</td>
<td>H</td>
<td></td>
</tr>
<tr>
<td>435755</td>
<td>941017</td>
<td>127/50</td>
<td>EG</td>
<td></td>
</tr>
<tr>
<td>582214</td>
<td>941109</td>
<td>250</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>730273</td>
<td>926461</td>
<td>48</td>
<td>J</td>
<td></td>
</tr>
</tbody>
</table>

**CAUTION**

Correct armature and pole face must be used for AC and DC operation
Model Code

(F3) - DG4S4 * - 01 * * - W3 - * - 50 - (LH)

1 Seal Material
   F3 - Seals for mineral oil and fire resistant fluids

2 Model Series
   DG3S4 - Directional valve, subplate or manifold mounted, solenoid operated, sliding spool, 4 way flow direction

3 Solenoid Indicator Lights
   L - Light
   Omitted - None

4 Series
   DG3S4 - Directional valve, subplate or manifold mounted, solenoid operated, sliding spool, 4 way flow direction

5 Spool Type
   B - Spring centered/one solenoid
   C - Spring centered

6 Spring
   B - Spring centered/one solenoid
   C - Spring centered

7 Wet Armature Type
   W - Non-serviceable core tube S/A
   W3 - Serviceable core tube S/A

8 Coil Identification Letter

9 Design

10 Left Hand Assembly
   “B” Models Only

For models with Solenoid Indicator Lights

- 298785 Screw
  Torque to 0.8-1.0 N.m (7-9 lb. in.)

- 298782 Gasket

- Solenoid Indicator Light

- Identification Plate

Note
Refer to parts drawing I-3487-S for models with plug-in feature.

Solenoid Indicator Light Kit
(Includes all parts identified)

<table>
<thead>
<tr>
<th>Voltage Range</th>
<th>Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 thru 127</td>
<td>941615</td>
</tr>
<tr>
<td>192 thru 233</td>
<td>941617</td>
</tr>
</tbody>
</table>

For satisfactory service life of these components use full flow filtration to provide fluid which meets ISO cleanliness code 20/18/15 or cleaner. Selections from Eaton OFP, OFR, and OFRS series are recommended.