Pilot Operated Directional Control Valves

(F3)-DG3S-8-*C*-**-10 Spring Centered
(F3)-DG3S-8-***-**-10 No Spring
Model | Spool | I.D. Plate with Circuit Diagram
---|---|---
DG3S-8-0(C)*-*-10 | 363495 | 400976 400975
DG3S-8-1 C*-*-10 | 276623 | 400977 —
DG3S-8-2(C)*-*-10 | 363496 | 400978 400975
DG3S-8-3 C*-*-10 | 276625 | 400979 —
DG3S-8-4 C*-*-10 | 276626 | 400980 —
DG3S-8-6(C)*-*-10 | 363498 | 400981 400975
DG3S-8-8 C*-*-10 | 363499 | 400980 —
DG3S-8-9(C)*-*-10 | 363500 | 400976 400975
DG3S-8-31 C*-*-10 | 276625 | 580475 —
DG3S-8-33 C*-*-10 | 363501 | 400981 —

**Note**
Assemble type '1' and '3' spools with narrow center land towards "A" end of valve. "A" end of valve is defined as being closest to cylinder port A. Type '31' spools are installed in reverse of type '3', with narrow center land toward "B" end of valve.

Spool (See table)
Remove on No-Spring models (Both ends of valve)

▲262402 “O” Ring
280400 Cover

◇473784 Screw (4 req’d)
Torque 49-59 N.m. (36-43.5 lb. ft.)

* Plug torques (oiled)
<table>
<thead>
<tr>
<th>Plug</th>
<th>Torque (N.m.)</th>
<th>Torque (lb. in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>113000</td>
<td>5.0 - 5.9</td>
<td>45-52</td>
</tr>
<tr>
<td>591768</td>
<td>9.8 - 10.2</td>
<td>87-90</td>
</tr>
<tr>
<td>591769</td>
<td>12.1-12.4</td>
<td>107-110</td>
</tr>
<tr>
<td>591770</td>
<td>15.0-16.6</td>
<td>133-147</td>
</tr>
</tbody>
</table>

**Note**
- Part numbers included in service kits will not be sold separately.
- All threaded fasteners are metric.
- End cover screws are metric grade 12.9.

<table>
<thead>
<tr>
<th>Plug Choke</th>
<th>Orifice Plug (For low shock models with “X” omitted from model code)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;O&quot; Ring (2 req’d) (X &amp; Y ports)</td>
<td>237588</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plug Choke</th>
<th>Orifice Plug (For low shock models with “X” omitted from model code)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;O&quot; Ring (4 req’d) (A, B, P &amp; T ports)</td>
<td>237588</td>
</tr>
</tbody>
</table>

© Eaton Hydraulics, Incorporated 2000
All Rights Reserved
Model Code

(F3)  -  DG3S  -  8  -  *  *  *  -  *  -  *  -  10

1  Seal Material
   F3  -  Special seals for mineral oil or fire resistant fluid

2  Model Series
   DG3S  -  Directional valve, subplate mounted, pilot operated, rated pressure 210 bar (3000 psi)

3  Interface
   8  -  CETOP 8

4  Spool Type
   __________________________
   Spring Centered “C”
   (Omit for no-spring models)

5  Fast Response “X”
   (Omit for standard models)

6  Spool Control Modification
   (Omit when not required)
   1  -  Stroke adjustments
   2  -  Pilot choke adjustments
   3  -  Pilot choke & stroke adjustments
   7  -  Stroke adjustment, cylinder “A” end only
   8  -  Stroke adjustment, cylinder “B” end only

7  Check Valve in Pressure Port
   (Omit when not required)
   K  -  0.35 bar (5 psi)
   R  -  3.45 bar (50 psi)
   S  -  5.20 bar (75 psi)

8  Design

For satisfactory service life of these components, 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.