WFDG5S4-04 Two Stage Pilot Operated Valves

- Electro-Hydraulic Directional Control Valve
- Variety of Spool Configurations
- 18 Month Warranty
- Flow Rates to 60 gpm

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Model Code Breakdown

WF - DG5S ***(*)-(*)-(E)-(T)-*(*)-(*) M-***(*)-***(*)-30/40

1 WF - FluiDyne Brand

2 Series Designation
D Directional control valve
G Manifold or subplate mounted
5 Solenoid controlled, pilot operated
S Sliding spool, rated pressure 210 bar (3000 psi)

3 Interface
NFPA
4-04 D07

4 Spool Type
See Chart on page 2
Code Center position
0 all ports open
2 all ports closed
4 Tandum P to T, A & B closed
6 Closed P A & B to T
7 Open P to A & B, closed T
8 Tandum P to T, A & B closed

5 Spool/Spring Arrangement
A Spring offset to A port
B Spring centered, solenoid A removed
C Spring centered
N No spring detented (pilot only)

6 Left Hand Assembly
L Left hand, single solenoid only.
(For right hand assembly, P to A port when solenoid A is energized.)
Blank Omit if not required

7 Manual Override
Blank – Plain override solenoid ends only

8 Response Type
X Fast response
Blank Standard low shock models

9 Spool Control Modifications
2 Pilot choke (dual) adjustment
Blank Omit if not required

10 Pilot Pressure
E External pilot pressure
Blank Internal pilot pressure

11 Pilot Drain
T Internal pilot drain
BlankExternal pilot drain

12 Pressure Port Check Valve
K 5 psi cracking pressure
R 50 psi cracking pressure
S 75 psi cracking pressure
Blank Omit if not required

13 Solenoid Energization Identity
V Solenoid identification determine by position of solenoid (solenoid A at port A end and/or solenoid B a port B end)
Blank Standard arrangement for ANSI B93.9 (energize solenoid A for flow P to A port)
(Code V for any valve with # 4 or #8 spool)

14 Flag Symbol
M Electrical options and features

15 Coil Type
F Flying Leads
U DIN ISO 4400

16 Electrical Connections
(Code F coil only)
T Wired terminal block
PA3 Three pin connector
PA5 Five pin connector
Blank Omit if not required

17 Housing
(Code F coil only)
W 1/2 NPT thread wiring housing
Blank Omit if not required

18 Electrical Options
(Code U coil only)
Blank ISO with fitted plug and lights

19 Solenoid Indicator Lights
(Code F coil with code T electrical connections only)
L Indicator lights
Blank Omit if not required

20 Coil Identification
B 110V AC 50 Hz/120V AC 60 Hz
D 220V AC 50 Hz/240V AC 60 Hz
G 12 V DC
H 24 V DC

21 Pilot Valve Tank Pressure Rating
5 1450 psi DG4V3S-60
6 3045 psi DG4V3-60 with AC solenoids, high performance
7 3000 psi DG4V3-60 with DC solenoids high performance

22 Design Number
Subject to change

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# Spool Type and Spring Mechanism

<table>
<thead>
<tr>
<th>AB</th>
<th>PT</th>
<th>2B</th>
<th>2BL</th>
<th>2A</th>
<th>2AL</th>
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</thead>
<tbody>
<tr>
<td>2C</td>
<td>b</td>
<td>A</td>
<td>B</td>
<td>6C</td>
<td>b</td>
</tr>
<tr>
<td>0C</td>
<td>b</td>
<td>A</td>
<td>B</td>
<td>6C</td>
<td>b</td>
</tr>
<tr>
<td>6C</td>
<td>b</td>
<td>A</td>
<td>B</td>
<td>22A</td>
<td>b</td>
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<tr>
<td>7C</td>
<td>b</td>
<td>A</td>
<td>B</td>
<td>0AO</td>
<td>b</td>
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<tr>
<td>8C</td>
<td>b</td>
<td>A</td>
<td>B</td>
<td>0AO</td>
<td>b</td>
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<tr>
<td>4C</td>
<td>b</td>
<td>A</td>
<td>B</td>
<td>22A</td>
<td>b</td>
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![Spool Type and Spring Mechanism Diagrams](image-url)
## Technical Data

<table>
<thead>
<tr>
<th>D07</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Valve with one solenoid</td>
<td>14 lbs</td>
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<td>Valve with two solenoids, spring centered</td>
<td>15 lbs</td>
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### Max Operating Pressure

<table>
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<tr>
<th>Ports</th>
<th>Type</th>
<th>PSI</th>
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<tbody>
<tr>
<td>P, A, B</td>
<td>Pressure</td>
<td>4061</td>
</tr>
<tr>
<td>T</td>
<td>Pilot oil drain Y external</td>
<td>3626</td>
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<tr>
<td></td>
<td>Pilot oil drain Y internal</td>
<td>3046</td>
</tr>
<tr>
<td>Y</td>
<td>External Pilot Oil Drain</td>
<td>3046</td>
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</table>

Maximum Pilot Pressure: 3600

### D03 Pilot Coils

<table>
<thead>
<tr>
<th>Rated Voltage</th>
<th>HZ</th>
<th>Working Voltage</th>
<th>In-Rush Current</th>
<th>Holding Current</th>
<th>Power Watts</th>
<th>Remark</th>
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</thead>
<tbody>
<tr>
<td>DC12</td>
<td></td>
<td>10.8~13.2</td>
<td>2.5A</td>
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<td>30</td>
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<tr>
<td>DC24</td>
<td></td>
<td>21.6~26.4</td>
<td>1.25A</td>
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<tr>
<td>AC110B</td>
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<td>99~121</td>
<td>0.65A</td>
<td></td>
<td>30</td>
<td>Rectified Type</td>
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<tr>
<td>AC220B</td>
<td></td>
<td>198~242</td>
<td>0.33A</td>
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<td>30</td>
<td>Rectified Type</td>
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<tr>
<td>AC110V</td>
<td>50/60</td>
<td>99~121</td>
<td>1.7A</td>
<td>0.48A</td>
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<tr>
<td>AC220V</td>
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<td>198~242</td>
<td>0.85A</td>
<td>0.25A</td>
<td>30</td>
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</tbody>
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Installation Dimensions

D07 DC Din Plug

D07 DC Wire Box
Installation Dimensions

D07 AC Wire Box

D07 AC Din Plug

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