Direct Acting Directional Valves
WE6/WE10 Style Valves
4-way 2/3-position, and 3-way 2-position Valves

Features:
• Operating pressures to 4,500 psi*
• Field serviceable coils with both DIN and wire housing
• 18 month warranty
Our promise at FluiDyne is to provide the fluid power industry with high quality, fully tested and technically supported hydraulic pumps, motors and valves. We understand and value the local service and support provided by repair shops, resellers and distributors to the OEM’s and users of fluid power applications. We do not compete with our customers; rather we work with our channels as partners in their success and to advance the technology of fluid power.

Our strength is our people. We focus on personal development and a long term commitment to our staff. We recognize knowledgeable people are a valuable part of the service a business organization provides. We stress a commitment to learning and customer support at every level of the FluiDyne organization. Accounting, Customer Service, Engineering, Inventory, Management, Manufacturing, Quality and Shipping all work together to serve our customer. We believe in treating everyone inside and outside the company with professionalism and respect.

Application and technical support for our products is easy access, and we pride ourselves in not having a switchboard or phone tree. The person, who picks up the phone, helps the customer. We like it simple, we like it direct. Our inventory is extensive and our people are skilled at assembly, modifications and testing. Our product leaves the factory fast (often the same day) and it leaves correct, tested and documented. If there is a mistake, we work hard to make it right, quickly and fairly.

Please call or email to learn more about FluiDyne.
Our products and people make us special.

- 18 month warranty
- Blind drop shipments
- Custom proprietary software allows immediate & accurate technical support, quoting, order entry & bill of material information
- End customer protection
- Extensive Michigan inventory
- ISO Certified 9001:2008
- New FluiDyne and remanufactured products
- Outstanding customer service
- Performance you have come to expect
- Same day shipments
- Standard & modified products
- Multiple test stands which allow for quick 100% testing of all units shipped

www.FluiDyneFP.com
NG6/D03 and NG10/D05 Directional Control Valve

- NG6/NG10 Subplate Mounted Directional Valves
- Operating Pressures 4,500 psi* for P-A-B
- Tank Pressures up to 2,300 psi
- NG6/D03 Flows up to 21 gpm
- NG10/D05 Flows up to 32 gpm

Flow Paths
- 3 service ports = 3
- 4 service ports = 4

Size
- Size NG6 = 6
- Size NG10 = 10

Spool Options
- Spool e.g. C, E, EA, EB, H, J, etc. ¹
- See Spool Symbols for options

Series ³
- D03
  - Series 60 to 69 = 6X
- D05
  - Series 30 to 39 (DIN conn.) = 3X
  - Series 40 to 49 (wire housing conn.) = 4X

De-Energized Condition
- Spring return = No code
- Without spring return = O
- Detented; no spring return = OF

Solenoid Type
- High performance solenoid
- Wet pin (oil-immersed) with removable coil
- Size D03 = E
- Size D05 = C

Coil Voltage
- 12 V DC = G12
- 24 V DC = G24
- 96 V DC = G96
- 110/120 V AC 50/60 Hz = W110
- 220/240 V AC 50/60 Hz = W220

Mounting Face Alterations
- No code = No locating hole (standard)
- /60 = With locating hole
- /62 = With locating hole & pin

Seals
- No code = BR seals (standard)
- V = FKM seals

Port Restrictions
- No code = Without orifice insert (standard)
  - B08 = Orifice Ø 0.031 (0.8 mm)
  - B10 = Orifice Ø 0.039 (1.0 mm)
  - B12 = Orifice Ø 0.047 (1.2 mm)

Electrical Connection Types
- Direct Solenoid Connections (DIN 24340 form A)
  - K4 ² = Without angled plug but with cap
  - Z45 = Angled plug
  - Z45L = Angled plug with light
  - Z55L = Large angled plug with rectifier & light
  - Z55L1 = Plug w/ light & Zener surge suppression

Central Solenoid Connections Wired Housing
- DA = Wire housing with cable gland
- DAL = Wire housing with cable gland & lights

Solenoid Override
- N9 = With protected manual override (standard)
- N = Covered manual override, with rubber boot
- No code = Without manual override

¹ See spool configurations on following page
² Series externally interchangeable within the same decade (ie: 30-39)
³ Appropriate DIN connectors included on FluiDyne valves
## Symbols for Directional Control Valves

### 4 Way Valves; 2 and 3 Position

#### Double Soleniod 3-Position

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>P</th>
<th>T</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>0</td>
<td>0</td>
<td>b</td>
</tr>
<tr>
<td>a</td>
<td>0</td>
<td>b</td>
<td>0</td>
</tr>
</tbody>
</table>

- = E
- = E1
- = F
- = G
- = H
- = J
- = L
- = M
- = P
- = Q
- = R
- = T
- = U
- = V
- = W

#### Single Soleniod 2-Position

- A

- = EA
- = EA 1
- = FA
- = GA
- = HA
- = JA
- = LA
- = MA
- = PA
- = QA
- = RA
- = TA
- = UA
- = WA

- B

- = EB
- = FB
- = GB
- = HB
- = JB
- = LB
- = MB
- = RB
- = TB
- = UB
- = VB

### 2 Position – 3 and 4 Way Valves

#### Double Soleniod

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>P</th>
<th>T</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>b</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>a</td>
<td>0</td>
<td>b</td>
<td>0</td>
</tr>
</tbody>
</table>

- = A
- = C
- = D

#### Single Soleniod

- A

- = A
- = C
- = D

- B

- = B
- = Y
## D03 Parts

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WF86175</td>
<td>WF4WE6 Seal Kit Buna</td>
</tr>
<tr>
<td>WF86176</td>
<td>WF4WE6 Seal Kit Viton</td>
</tr>
<tr>
<td><strong>Seal Kits</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Din Coils</strong></td>
<td></td>
</tr>
<tr>
<td>WF86137</td>
<td>COIL D03 DIN 4WE6 12 VDC</td>
</tr>
<tr>
<td>WF86138</td>
<td>COIL D03 DIN 4WE6 24 VDC</td>
</tr>
<tr>
<td>WF86245</td>
<td>COIL D03 DIN 4WE6 110R/(G96) VDC</td>
</tr>
<tr>
<td>WF86246</td>
<td>COIL D03 DIN 4WE6 220R/(G196) VDC</td>
</tr>
<tr>
<td>WF86140</td>
<td>COIL D03 DIN 4WE6 110 VAC</td>
</tr>
<tr>
<td>WF86139</td>
<td>COIL D03 DIN 4WE6 220 VAC</td>
</tr>
<tr>
<td><strong>Wire Housing Coils</strong></td>
<td></td>
</tr>
<tr>
<td>WF86144</td>
<td>COIL D03 4WE6 12 VDC WIRED DAL</td>
</tr>
<tr>
<td>WF86145</td>
<td>COIL D03 4WE6 24 VDC WIRED DAL</td>
</tr>
<tr>
<td>WF86159</td>
<td>COIL D03 4WE6 110 VAC WIRE DAL</td>
</tr>
<tr>
<td>WF86235</td>
<td>COIL D03 4WE6 220 VAC WIRED DAL</td>
</tr>
</tbody>
</table>

## D05 Parts

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WF86178</td>
<td>WF4WE10 Seal Kit Buna</td>
</tr>
<tr>
<td>WF86179</td>
<td>WF4WE10 Seal Kit Viton</td>
</tr>
<tr>
<td><strong>Seal Kits</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Din Coils</strong></td>
<td></td>
</tr>
<tr>
<td>WF86122</td>
<td>COIL D05 DIN 4WE10 12 VDC</td>
</tr>
<tr>
<td>WF86142</td>
<td>COIL D05 DIN 4WE10 24 VDC</td>
</tr>
<tr>
<td>WF86243</td>
<td>COIL D05 DIN 4WE10 110R/(G96) VDC</td>
</tr>
<tr>
<td>WF86244</td>
<td>COIL D05 DIN 4WE10 220R/(G196) VDC</td>
</tr>
<tr>
<td>WF86143</td>
<td>COIL D05 DIN 4WE10 110 VAC</td>
</tr>
<tr>
<td>WF86234</td>
<td>COIL D05 DIN 4WE10 220 VAC</td>
</tr>
<tr>
<td><strong>Wire Housing Coils</strong></td>
<td></td>
</tr>
<tr>
<td>WF86151</td>
<td>COIL D05 4WE10 12 VDC WIRE DAL</td>
</tr>
<tr>
<td>WF86150</td>
<td>COIL D05 4WE10 24 VDC WIRE DAL</td>
</tr>
<tr>
<td><strong>Ac/DC Core Tubes</strong></td>
<td></td>
</tr>
<tr>
<td>WF86200</td>
<td>D05 AC Core Tube 4WE10 W/Knob</td>
</tr>
<tr>
<td>WF86201</td>
<td>D05 DC Core Tube 4WE10 W/Knob</td>
</tr>
</tbody>
</table>

## Electrical Din Connectors

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WF86186</td>
<td>DIN Connector 24VDC VDR Surge Suppressor</td>
</tr>
<tr>
<td>WF86189</td>
<td>DIN Connector 24V AC/DC Rectifier + VDR Suppressor</td>
</tr>
<tr>
<td>WF86147</td>
<td>DIN Connector 12/24 VDC W/Light</td>
</tr>
<tr>
<td>WF86141</td>
<td>DIN Connector 110/120 VAC W/Light</td>
</tr>
<tr>
<td>WF86241</td>
<td>DIN Connector W/Rectifier 110/120 VAC to 96 VDC</td>
</tr>
<tr>
<td>WF86242</td>
<td>DIN Connector W/Rectifier 220/240 VAC to 196 VDC</td>
</tr>
</tbody>
</table>
FluiDyne supports the distributors providing local knowledge and assistance to fluid power customers.

Our people provide extensive support:

- Engineering expertise
- Decoding special part number
- Identification of parts within units
- Advice on component repair and assembly
- Component failure analysis
- Massive local stock
- New application component selection
- Same day shipments
- 18 month warranty

ReMAN Units & Parts Available for Racine, Oilgear, Bosch, Continental and More.

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