Dual Monitoring Directional Control Valves Kits

Machine safety rules and regulations are rapidly changing. As designers continue to improve operator and machine safety, the requirement of monitoring the various processes and functions become more critical.

Continental Hydraulics offers a wide variety of products to help you meet these challenges and help you to increase the performance integrity of your system. Spool Position Monitored Valves can be used as a component to help meet compliance with current machine safety standards. These devices are only one part of an overall system and are intended to be combined with other safety rated components to provide energy isolation and/or energy dissipation. According to many current safety standards, a Risk Assessment should be performed as a part of the component selection.

With various types of monitored components from a single monitor to the Dual monitoring kits, Continental has the components to provide a solution.

For more detailed information on the Valves used in the Dual Monitoring Kits and the MTTFd values please contact us or visit our web site www.continentalhydraulics.com

Double directional control valve redundancy means that if one critical valve fails, or your control circuit (i.e. light curtain) tells one of the valves to shut off, the machine or down-stream system will be disconnected from the pressure source. Any downstream hydraulic pressure will be routed back to the tank. Your system monitoring equipment will alert you to the failure, so the system can be shut down safely, avoiding damage and injury. These double redundant monitoring valve assemblies are equipped with two main spool position monitoring switches, and two pressure tap ports. This allows your control circuit to monitor the spool position, and whether pressure is rising or falling. This information can be used by the controls engineers to help meet some of the new regulations, and help you design a better machine.

Continental Hydraulics Double Redundant Valve Assemblies are ideal for applications such as:

- Brick and Block Manufacturing
- Automotive Assembly Lines
- Machining Centers
- Missile Test Stations
- Recharging Systems in Critical Petro-Chemical/Energy Producing Applications
- Pulp and Paper Product Production
- Saw Mills
- Metal Forming
- Fish and Poultry Processing Plants
- Powering Dam Gates
- Motion Simulators
- Hydraulic Presses

Continental Hydraulics Double Redundant Directional Control Valves and Ductile Iron Manifold Assemblies, are available in D03, D05 and D08 sizes, with flow rates from 1 to 80 GPM.

Direct and Pilot operated Ductile Iron Dual Monitoring Kits

<table>
<thead>
<tr>
<th>Size</th>
<th>Flow Rate</th>
<th>Pressure</th>
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</thead>
<tbody>
<tr>
<td>D03</td>
<td>15 GPM</td>
<td>5000 PSI</td>
</tr>
<tr>
<td>D05</td>
<td>30 GPM</td>
<td>4600 PSI</td>
</tr>
<tr>
<td>D08</td>
<td>80 GPM</td>
<td>5000 PSI</td>
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</table>

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Kit Dual Monitoring D03 Direct Operated

Ductile Iron Manifold

Ordering Code:

KIT DUAL MONITORING D03S-D24K1-A-M1641

NFPA D03 Monitored valve
24 VDC DIN Connection Coils
M12 4 Pin Switch Connection

Ports:
IN / OUT / Tank SAE-12
G1 / G2 SAE-4

Note:
Connection M12, 4 PIN

Position Monitored:

<table>
<thead>
<tr>
<th>Position</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA</td>
<td>Change at On condition</td>
</tr>
<tr>
<td>MB</td>
<td>Change at Off condition</td>
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</table>
Kit Dual Monitoring D05 Direct Operated

Ductile Iron Manifold

Ordering Code:

KIT DUAL MONITORING D05S-D24K1-A-M1642

NFPA D05 Monitored valve
24 VDC DIN Connection Coils
M12 4 Pin Switch Connection

Ports:
IN / OUT / Tank SAE-12
G1 / G2 SAE-6

Note:
Connection M12, 4 PIN

Position Monitored

<table>
<thead>
<tr>
<th>Position</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>MA</td>
<td>Change at On</td>
</tr>
<tr>
<td>MB</td>
<td>Change at Off</td>
</tr>
</tbody>
</table>
Kit Dual Monitoring D08 Pilot Operated

Ductile Iron Manifold

Ports:
P and B 1 ¼ code 62 S.F.
T ports 1 ½ code 61 S.F.
PT, X and Y SAE-4

NFPA D08 Monitored valve
External Pilot and Drain configuration
24 VDC DIN Connection Coils
M12 4 Pin Switch Connection

Position Monitored

<table>
<thead>
<tr>
<th></th>
<th>MA</th>
<th>Change at On condition</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MB</td>
<td>Change at Off condition</td>
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</tbody>
</table>

KIT DUAL MONITORING D08S-D24K1-A2MA-M1594

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