

# Dual Monitoring Directional Control Valves Kits

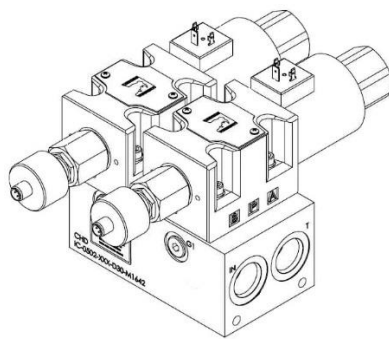


Machine safety rules and regulations are rapidly changing. As designers continue to improve operator and machine safety, the requirement of monitoring the various processes and functions become more critical.

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](http://www.continentalhydraulics.com)



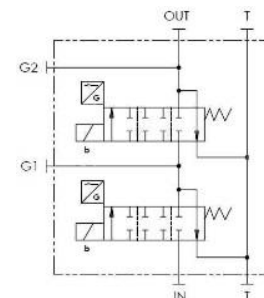
Double directional control valve redundancy means that if one critical valve fails, or your control circuit (i.e. light curtain) tells one of the valves to shut off, the machine or down-stream system will be disconnected from the pressure source. Any downstream hydraulic pressure will be routed back 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.

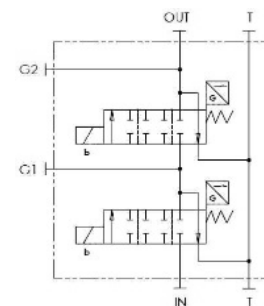
Continental Hydraulics Double Redundant Valve Assemblies are ideal for applications such as:

- 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

**MA Option**



**MB Option (Preferred)**



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.

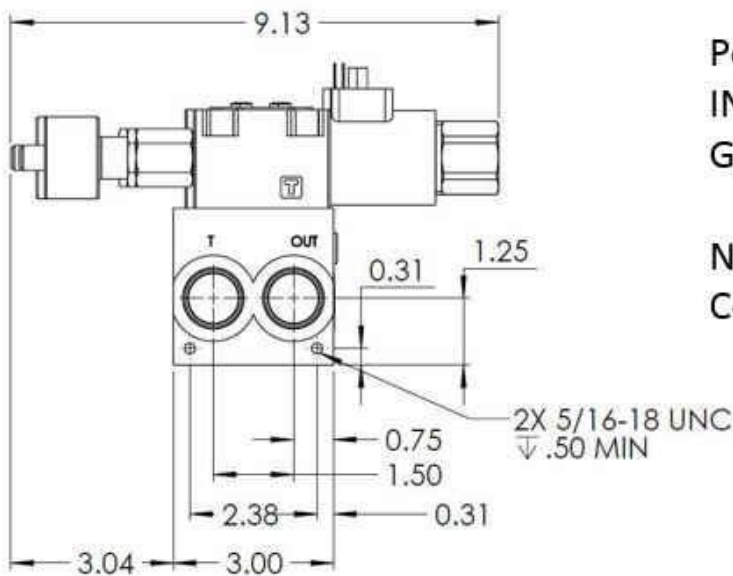
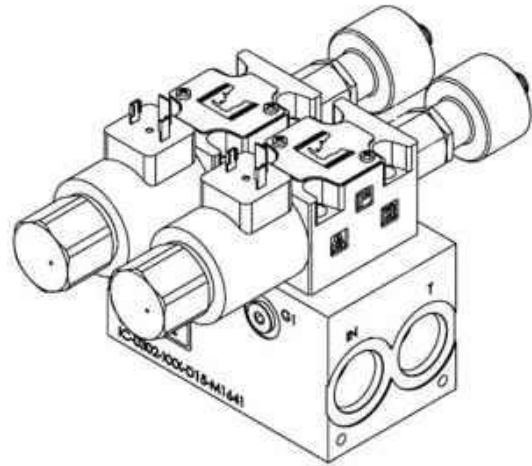
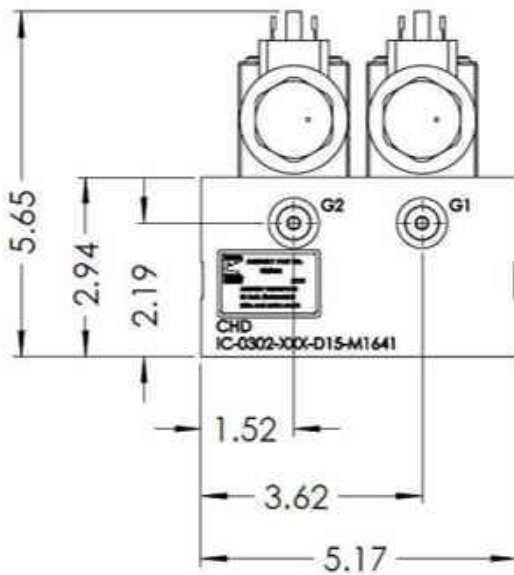
Direct and Pilot operated Ductile Iron Dual Monitoring Kits

D03 size Valves  
Flows to 15 GPM  
Pressures to 5000 PSI

D05 size Valves  
Flows to 30 GPM  
Pressures to 4600 PSI

D08 size Valves  
Flows to 80 GPM  
Pressures to 5000 PSI

# Kit Dual Monitoring D03 Direct Operated



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

Note:  
 Connection            M12, 4 PIN

Ductile Iron Manifold

Ordering Code:

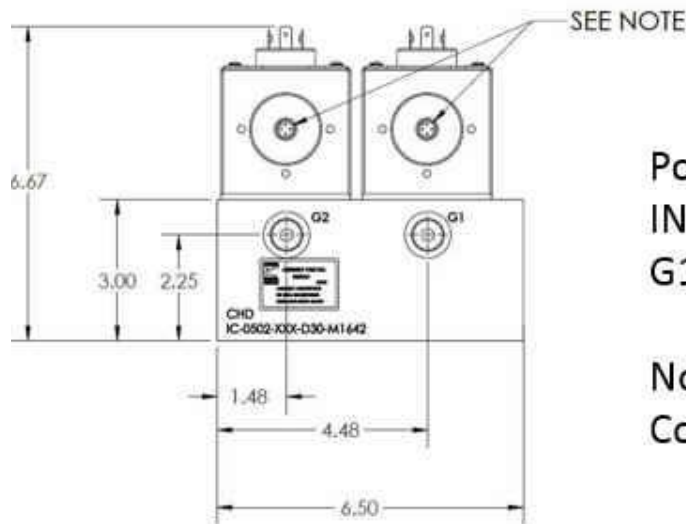
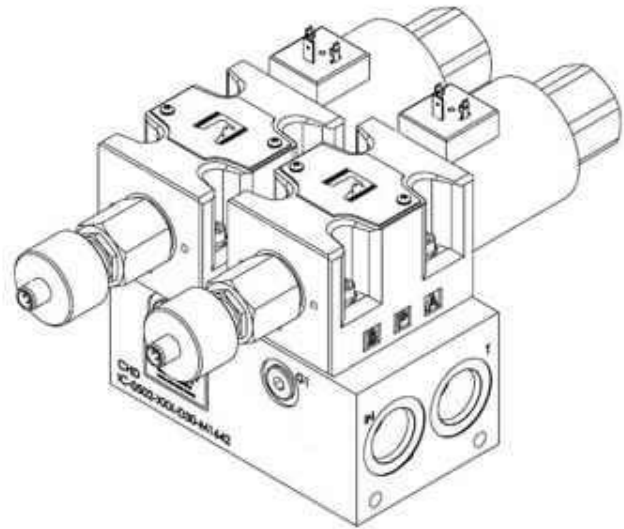
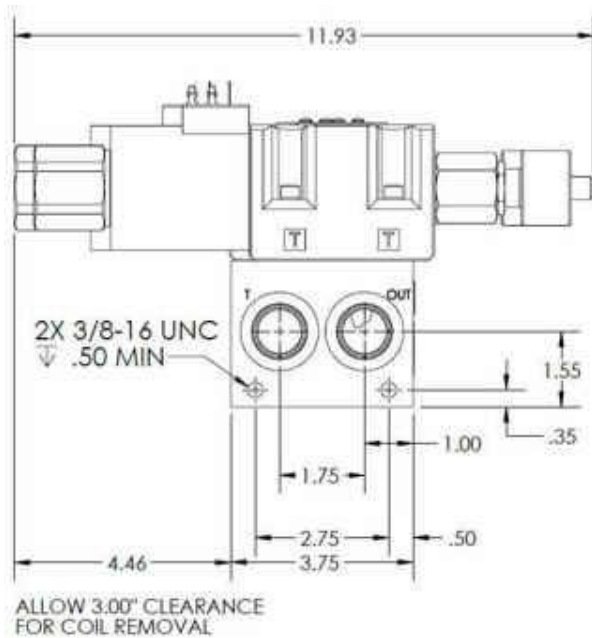
**KIT DUAL MONITORING D03S-D24K1-A  -M1641**

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

Position Monitored

<b>MA</b>	Change at On condition
<b>MB</b>	Change at Off condition

# Kit Dual Monitoring D05 Direct Operated



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

Note:  
 Connection M12, 4 PIN

Ductile Iron Manifold

Ordering Code:

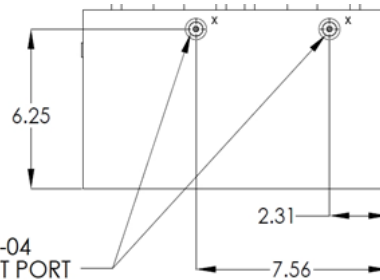
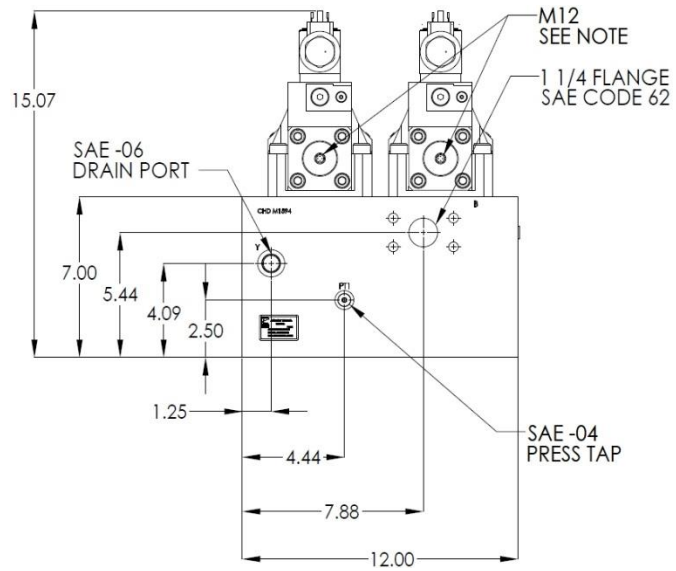
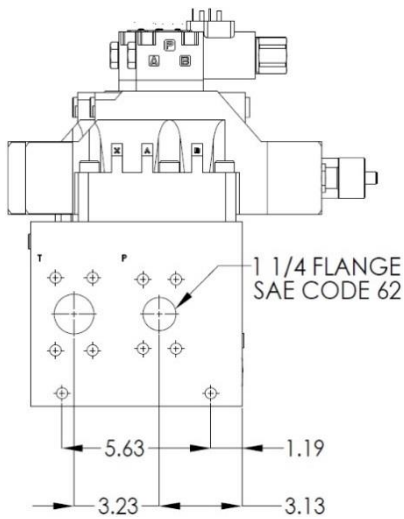
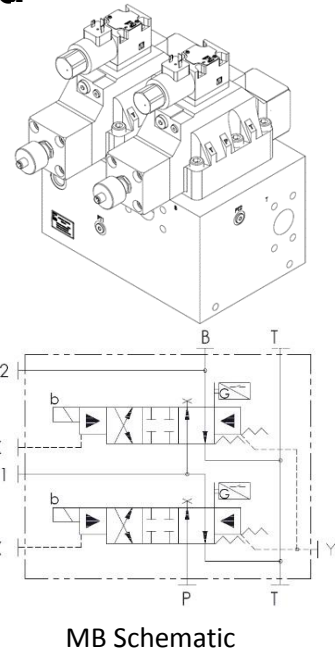
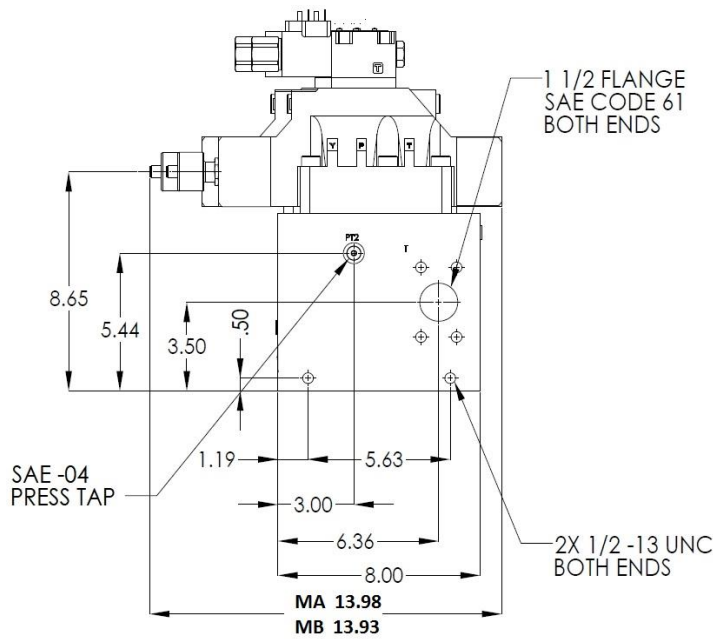
**KIT DUAL MONITORING D05S-D24K1-A  -M1642**

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

Position Monitored

MA	Change at On condition
MB	Change at Off condition

# Kit Dual Monitoring D08 Pilot Operated



## Ports:

- P and B 1 1/4 code 62 S.F.
- T ports 1 1/2 code 61 S.F.
- PT, X and Y SAE-4

Ductile Iron Manifold

# KIT DUAL MONITORING D08S-D24K1-A2 -M1594

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

## Position Monitored

MA	Change at On condition
MB	Change at Off condition

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