



PRODUCT GUIDE

- WCM SUB-SURFACE CONTROL PANEL (WCMSSCP) -



EXPECT QUALITY AND RELIABILITY
using our brand name WCMSSCP

Version 3.0

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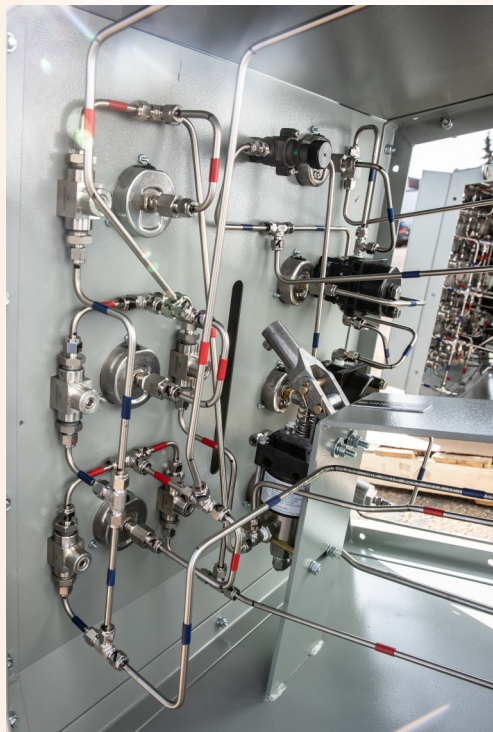
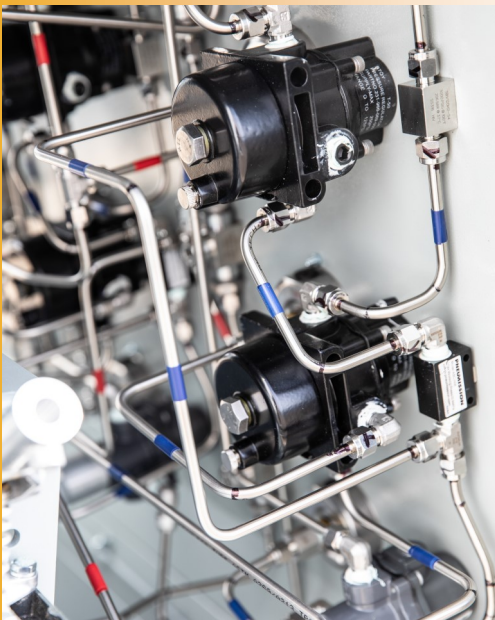
DOMESTIC PRODUCTS MADE IN NORTH AMERICA
Details are the difference between ordinary and EXCELLENCE

DOMESTIC PRODUCTS MADE IN NORTH AMERICA

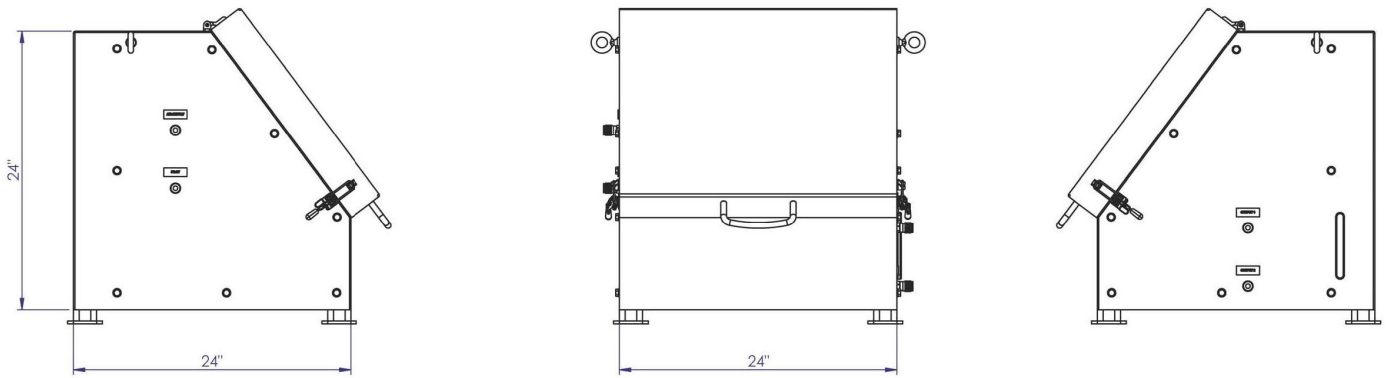
Custom Orders



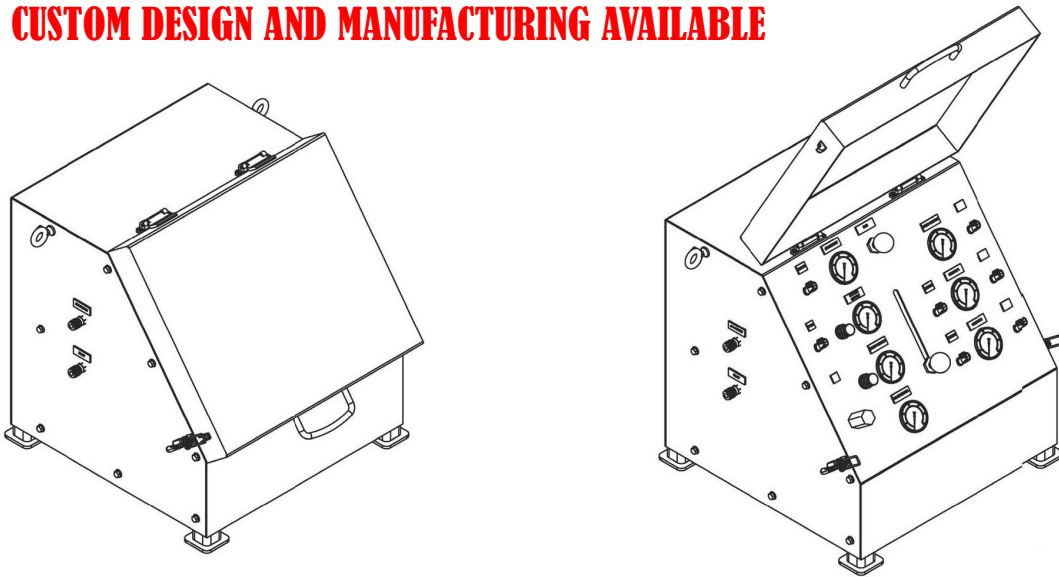
Operational Instructions Included



WCMSSCP SUB-SURFACE CONTROL PANEL



CUSTOM DESIGN AND MANUFACTURING AVAILABLE



WCMSSCP - STANDARD CONFIGURATION

| | |
|-----------------------------------|--|
| Max rated working pressure | 10,000psi |
| Max rated input pressure | 250psi |
| Input fluid | dry air |
| Input bulkhead connection size | 1/4" tube |
| Pilot bulkhead connection size | 1/4" tube |
| Number of pilots | 1 |
| Output fluid | Nuvi's HVI 13 or equivalent |
| Number of outputs | 2 |
| Output bulkhead connection size | 1/4" tube |
| Failsafe function | loss of air, high pressure system relieves |
| Hydraulic reservoir nominal size | 18.9 Litres / 6 U.S. gallons |
| Fluid level indicator | yes |
| Adjustable system pressure relief | 1,000psi - 10,000psi |
| Backup hand pump | 10,000psi |
| Approximate dry weight | 340lbs |

OPERATIONAL INSTRUCTIONS WCMSSCP

The WCMSSP is a Sub Surface Control Panel designed to open and close the Sub Surface Safety Valve (SSSV) located below the surface on the wellhead.

Hydraulic fluid is pumped manually or automatically via the internal pneumatic pump. The SSSV can be closed remotely or locally by pushing the ESD button located on the front of the panel.

The system is controlled from the pneumatic signal.

1. Pneumatic signal pressure:

- A) Will allow user to operate the pump in MANUAL or AUTO.
- B) When pump is "auto" it will automatically pump up to the desired pressure if the pressure going to the actuator drops.

2. Loss of the pneumatic signal pressure will:

- A) Will cause the HI/LO Relay (HLR) to switch position, and bleed the hydraulic fluid from the SSSV back to the reservoir.
- B) Cuts off the air supply to the hydraulic pump. The pump is capable of output pressure in excess of 10,000 PSI. A Pressure Relief Valve, with a setpoint of 9500 PSI is located to protect the system from over pressure.
- C) The supply lines to the actuators are designed so that you can isolate each line without affecting the other. There are check valves on each discharge line so that if there are issues with one it will not affect the other.

Isolations have been installed on the actuator supply so the user can perform maintenance on the pump with out bleeding down the system.

TROUBLE SHOOTING

PUMP WILL NOT FUNCTION

- check air supply, valve is **ON**
- check system supply, valve is **ON**
- check pump supply, speed control is **OPEN**
- check pilot signal, speed control is **OPEN**
- check ESD button is **PULLED OUT**

PUMP RUNNING, NO OUTPUT

- ensure drain valves are **CLOSED**
- ensure output valves are **OPEN**
- check hydraulic oil level
- check for blockage in lines
- check for air in lines
- ensure pump suction valve is **OPEN**
(located outside the cabinet)

The WCMSSP has several selector valves, and pressure indicating gauges. Below is the purpose:

| | |
|----------------------|--|
| AIR SUPPLY | air supply pressure BEFORE onboard pressure regulator |
| SYSTEM SUPPLY | air supply pressure AFTER onboard pressure regulator |
| SPEED CONTROL | pneumatic pump speed control |
| PUMP SUPPLY | pump supply air pressure |
| PILOT SIGNAL | pneumatic signal from external control system (solenoid) |
| PUMP OUTPUT | pump output hydraulic pressure |
| OUTPUT 1 | hydraulic pressure to SSSV 1 |
| OUTPUT 2 | hydraulic pressure to SSSV 2 |

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