

StimCommander Manifold

Automated high-pressure iron

APPLICATIONS

- Hydraulic fracturing in unconventional and conventional formations
- Single- and multiwell pad, vertical, and horizontal gas and oil wells

BENEFITS

- Enables automatic determination of all connections between pumps and valves manifold unit to ensure safe operations and avoids pumping against a closed valve
- Provides fluid flow from the POD* programmable optimal density blender and pump trucks into the well
- Provides two separate suction manifold systems

FEATURES

- Automated control system using the command and control cabin software
- Full control of pumps and valves manifold unit using pump-based commands such as isolate pump, bleed pump, bring pump online, and put pump on standby
- Connections for up to 10 pump trucks (5 on each side)
- Maximum flow rate of 80 bbl/min [12.7 m³/min]
- Racks to carry 3-in [7.6-cm] swivel joints
- Standard landing pads with landing gear



StimCommander Manifold iron.

The StimCommander Manifold* automated high-pressure iron provides fluid flow from the POD blender and pump truck into the well. Up to 10 trucks (5 on each side) may be connected to the automated manifold. The trailer has a maximum rating of 15,000 psi [103 MPa] and maximum flow rate of 80 bbl/min [12.7 m³/min]. Two separate suction manifolds are provided. Each manifold has two 6-in [15.2-cm] lines with 10 truck connections and 6 blender connections.

The automated iron comes equipped with a wellsite process control kit to remotely open and close valves from the human machine interface. This remote control enables personnel to be removed from the high-pressure area while pumping, thus limiting HSE exposure. Additionally, built-in intelligence minimizes the possibility of pumping against a closed valve.

Optional ground valve skids can be used with the automated iron for remote control of the high-pressure area.

StimCommander Manifold Iron Specifications

Semi-trailer type	Fifth wheel
Length, in [mm]	619 [15,723]
Width, in [mm]	96 [2,438]
Height, in [mm]	84 [2,134]
Suspension	Airbag
Tires	Eight 255/70R22.5
Discharge manifold, in [mm]	Two 4 [102]
Discharge manifold working pressure, psi [MPa]	15,000 [103]
Discharge manifold max. flow rate, bbl/min [m ³ /min]	80 [12.72]
Pump truck connections	Ten 3-in [76-mm] female unions
Well connections	Four 3-in [76-mm] male unions
Top suction manifold	Two 6-in [152-mm] lines
Truck connections	Ten 4-in [102-mm] female unions
Blender connections	Six 4-in [102-mm] male unions
Bottom suction manifold	Two 6-in [152-mm] lines
Truck connections	Ten 4-in [102-mm] female unions
Blender connections	Six 4-in [102-mm] male unions
Loose equipment package	Sixteen 3-in, 2-way swivels Eight 3-in, 3-way swivels

Ground Valve Skid Specifications

Length × width × height, in [cm]	70 × 48 × 36 [178 × 122 × 91.4] 48 × 54 × 36 [122 × 137 × 91.4]
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