

SPM® QWS 2500 XL Frac Pump

Next generation, purpose-built to work for you in the harshest hydraulic fracturing environments

WEIR

Oil & Gas



As the industry continues to evolve, so do our pumps. The enhanced design of the SPM® QWS 2500 XL delivers extended service life and an increased rod load of 200,000 lbf even under the most challenging conditions of shale play operations.

The addition of a bolt-on bearing carrier protects the frame, pinion, and bull gear in the event the bearing clocks in the frame due to overload. This results in faster, more cost effective repair, keeping your assets in the field. Additionally, Weir engineering has evaluated and selected a larger Tier 1 bearing specifically for this application and optimized the lubrication through the bearing groove for a service life up to 4x longer than previous generation pinion bearings.

An updated frame design (patent pending) with improved geometry utilizes advances in welding design and technology to significantly improve the fatigue life of the frame. The new design also includes blind tapped holes to reduce leakage. To validate these new features, Weir completed an endurance test of more than one million cycles at 107% rod load. The SPM® QWS 2500 XL passed the test and validated the increased rod load of 200,000 lbf.

This pump can be equipped with the SPM® Duralast® fluid end, which is proven to extend the life over conventional SPM® fluid ends. This combination is designed to significantly increase system uptime and lower total cost of ownership over the life of the pumping asset.

Applications: Fracturing

Maximum Brake Horsepower Input	2500 BHP (1,864 kW)
Maximum Rod Load Capacity	200,000 lbf (921 kg)
Stroke Length.....	8" (203.2 mm)
Gear Ratio.....	6.353:1
Approximate Length.....	64 3/4" (2,153 mm)
Approximate Width.....	73 3/4" (1,877 mm)
Approximate Height.....	43 3/4" (1,102 mm)
Approximate Weight (Dry)	16,000 lb (7,257 kg)

Note: Pump dimensions and weights are approximate. For full detailed drawings, please contact Weir.

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Features and Benefits

- New bolt-on pinion bearing carrier improves serviceability and prevents potential frame damage should a bearing clock in the frame due to overload
- Larger pinion bearing for up to 4x the service life of previous designs
- Thicker bottom plate and change in geometry to enhance power frame rigidity
- New frame design with improved weld joint technology increases fatigue life
- Optimized bearing and gear mesh lubrication for improved performance

Spm 2500 Frac Pump Manual

Joacim Rocklöv



Spm 2500 Frac Pump Manual:

Pumping Manual Christopher Dickenson,T. Christopher Dickenson,1988

Unveiling the Magic of Words: A Report on "**Spm 2500 Frac Pump Manual**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Spm 2500 Frac Pump Manual**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound affect on the souls of its readers.

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web the vapor pressure of a liquid is defined as the pressure exerted by the molecules that escapes from the liquid to form a separate vapor phase above the liquid surface the pressure exerted by the vapor phase is called the vapor or saturation

pressure vapor or saturation pressure depends on temperature

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web sep 21 2022 a vapor pressure curve is a graph of vapor pressure as a function of temperature to find the normal boiling point of liquid a horizontal line is drawn from the y axis at a pressure equal to standard pressure

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web the graph of the vapor pressure of water versus temperature in figure pageindex 3 indicates that the vapor pressure of water is 68 kpa at about 90 c thus at about 90 c the vapor pressure of water will equal the atmospheric pressure in

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web vapor pressure 0 1 psi at 100 f ntp 1992 vapor density relative to air 4 5 ntp 1992 heavier than air will sink specific gravity 0 8 at 59 f uscg 1999 less dense than water will float

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web in fact when the temperature increases from 20 to 60 c the vapor pressure of kerosene rises from 4 to 18 mbar 34 this suggests that kerosene cannot be entirely vaporized at 60 c

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web kerosene icsc 0663 physical chemical information physical state appearance low viscosity liquid with characteristic odour physical dangers as a result of flow agitation etc electrostatic charges can be generated vapour pressure kpa at 37 8 c 1 3 7 exposure health effects