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Maximum Plunger Diameter

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DP = $2 \times \sqrt{\{FL / (P \times \pi)\}}$ Where: DP = Maximum Diameter of Plunger in inchesFL = Rod Load Rating in poundsP = Operating Pressure in pounds per square inch π = Pi = 3.14159 Maximum Diameter of Plunger [in] = $2 \times \sqrt{\{Rod Load [lbs] / (Operating Pressure [PSI] \times 3.14159)\}}$...

Maximum Operating Pressure from Rod Load

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PMAX = FRL × 4 / (DP2 × π) Where: PMAX = Maximum Operating Pressure* in pounds per square inchFRL = Rated Maximum Rod Load in poundsDP = Plunger Diameter in inches π = Pi = 3.14159 Maximum Operating Pressure [PSI] = Rated Rod Load [Lbs] × 4 / {(Plunger Diameter...

PD Pump Flow Rate

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BHP = $Q \times P / (1714 \times n)$ Where: BHP = Brake Horsepower in HorsepowerQ = Flow Rate in gallons per minuteP = Pressure in pounds per square inchn = Efficiency expressed as a decimal value* *Many positive displacement pumps are assumed to operate at 90% efficiency. A...

Positive Displacement Pump Brake Horsepower

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BHP = $Q \times P / (1714 \times n)$ Where: BHP = Brake Horsepower in HorsepowerQ = Flow Rate in gallons per minuteP = Pressure in pounds per square inchn =

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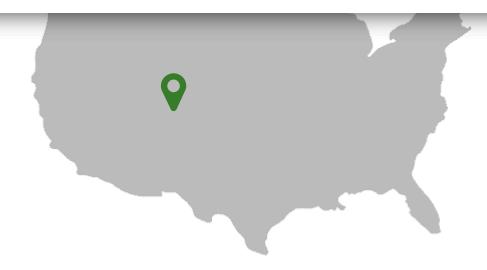
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46920 County Road E.

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