pump repair kits & service accessories

Pump Saver

	The Pump Saver features a unique anti-freeze and lubricant formula. It is designed to protect against freezing for safe, cold weather storage. It also provides longer pump life, maintains seals & pistons, and prevents harmful buildup of hard water mineral deposits in the pump. • 10.7 oz can • 6 cans per caset
Product No.	Description
PS6151	10.07 oz can

Extraction tool Kit



Heavy duty extraction tool kit that includes packing extractors for 13mm through 24mm.

Product No.

PULLKIT

with Case

Extraction Tool Kit Complete

Description

Packing Insertion Tool



Contains inserting tools for installing 20mm, 22mm and 24mm V packings in the packing gland. Prevents damaged sealing services.

Product No.	Description
ZMVTOOL	Packing Insertion Tool

	Oil Drain Kit
	 Designed to make changing oil easy 4 foot hose to aid with oil disposal Screw in cap to eliminate drips Full flow oil drain valve Knob designed to prevent accidental operation
Product No.	Description
ODK250	1/4" fits series: 44, 47, 50, 51, 60, 63, 66
ODK375	3/8" fits series: 69, 70, 76, 77
ODK500	1/2" fits series: 71

Handy Calculations

Belt Length

 $BL = 2L + \frac{\pi (D + d)}{2} + \frac{(D - d)}{4L}$

BL = Belt Length (inches) L = Center to Center Distance D = The Large Pulley Diameter d = The Small Pulley Diameter

Belt Deflection

BD = L x .016 BD = Belt Deflection (inches)

Motor / Pump Speed

Motor Pulley OD=Pump Pulley ODPump RPMMotor RPM

Flow Rate / Pump Speed

Rated GPM = Desired GPM Rated RPM Desired RPM

Horse Power Requirements

Electric Brake HP = $\underline{\text{GPM x PSI}}$ 1460

Hydraulic HP = $\frac{\text{GPM x PSI}}{1714}$

Industrial Gasoline HP = $\frac{\text{GPM x PSI}}{1100}$

Consumer Gasoline HP = $\frac{\text{GPM x PSI}}{900}$

Nozzle Selection

Nozzle # = GPM
$$\sqrt{\frac{4000}{PSI}}$$

Water velocity

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 $V = \frac{Flow Rate (GPM) \times .0321}{Pipe area}$

Reciprocating pump Maximum inlet velocity 5 ft/sec

Area of a pipe $A = \frac{\P D^2}{4}$

 $\P = \pi$ (pi) 3.14159 D = Diameter of pipe (inches²)

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