GPM Pump & Seal

Your One-Stop Shop for Pumps, Parts, Rental and Repair...

PUMPS
- Centrifugal
- Gear
- Submersible
- Air-operated Diaphragm
- Self-priming
- Split-case
- Engine-Driven
- Skids / Units
- Rotary Lobe
- Metering / Dosing

MECHANICAL SEALS
- Single/Double Cartridge
- Component/Spring
- Metal Bellows
- Mixer/Agitator
- Seal Pots & Systems

MOTORS & DRIVES
- Explosion-proof
- IEEE841 Petro-Chem
- Control Panels
- Soft-starters
- VFD's
- Gearboxes/Gearmotors

PERIPHERALS
- ALL Coupling Types
- Coupling Guards
- Bearing Isolators
- Shims
- Baseplates / Skids
- Riser Blocks
- Spiral-wound Gaskets
- Hose Assemblies

Brand	Description
VERSAMATIC PUMPING MADE EASY	Redefined the Standard of Performance Air-operated Double Diaphragm Pumps.
SUMMIT PUMP, Inc	ANSI, Process, and Self-priming Pumps; After-market Parts for Popular Manufacturers.
Flex-A-Seal	Mechanical Seals and Support Systems Manufactured in the U.S.A.
TB Wood's	Designer and Manufacturer of Mechanical Power Transmission Products.
CRANE Pumps & Systems — PROSSER, DEMING, BARNES, WEINMAN, CROWN, burks	Diverse Manufacturer of Pumps and Solutions for Water, Wastewater and Industrial Applications.
WEG MOTORS AND DRIVES	The Global Solution for Electric Motors and Automation for Industry.
EBARA	Large Variety of Submersible, Waste Water and Stainless Steel Corrosive Resistant Pumps.
NORD DRIVESYSTEMS	Gearboxes, Reducers and Drive Technology for All Industrial Applications.
VERTIFLO	Leader in Vertical Sump Pumps for All Wastewater Applications.
Liquiflo Chemical Processing Pumps	Gear and Centrifugal Pump Specifically Design for Chemical Industry
ROPER PUMPS	World Leader in Helical Gear Pump Manufacturing.
ProMinent	Manufacturer of metering pumps and metering systems
Hydra-Cell Industrial Pumps	Heavy-duty Positive Displacement Industrial Pumps.
LMI MILTON ROY	Chemical and Dosing Pump Specialists.
VOGELSANG	Complete Line of Rotary Lobe Pumps and In-line Grinders.
PIONEER PUMP	Leading Manufacturer of High-Performing Centrifugal Pumps.
BALDOR DODGE	Industrial Electric Motor and Mechanical Power Transmission Products.
Garlock SEALING TECHNOLOGIES	Global Leader in High-Performance Fluid Sealing Products.
SANDPIPER A WARREN RUPP, INC. BRAND	Since 1965 Sandpiper Has Held A Leading Position In The AOD Pump Market.
SEEPEX. ALL THINGS FLOW	Leading World-wide Specialist In The Progressive Cavity Pump Industry.

406 Anders Lane
Kemah, TX 77565

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www.gpmpumpandseal.com

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$$\frac{GPM_1}{GPM_2} = \frac{RPM_1}{RPM_2} \quad \rightarrow \quad GPM_2 = GPM_1\left(\frac{RPM_2}{RPM_1}\right)$$

$$\frac{TDH_1}{TDH_2} = \left(\frac{RPM_1}{RPM_2}\right)^2 \quad \rightarrow \quad TDH_2 = TDH_1\left(\frac{RPM_2}{RPM_1}\right)^2$$

$$\frac{BHP_1}{BHP_2} = \left(\frac{RPM_1}{RPM_2}\right)^3 \quad \rightarrow \quad BHP_2 = BHP_1\left(\frac{RPM_2}{RPM_1}\right)^3$$

HEAD & PRESSURE FORMULA

$$\text{Head in feet} = \frac{\text{(Head in psi) x 2.31}}{\text{(Sp. Gr.)}}$$

$$\text{Head in psi} = \frac{\text{(Head in feet) x (Sp. Gr.)}}{2.31}$$

$$°F = °C\left(\frac{5}{9}\right)+32$$

$$°C = \left(°F - 32\right)\frac{9}{5}$$

PUMPING POWER FORMULA

Centrifugal pumps:

$$\text{Brake hp} = \frac{\text{gpm x } H_{ft} \text{ x Sp. Gr.}}{3960 \text{ x Efficiency}}$$

Rotary and reciprocating pumps:

$$\text{Brake hp} = \frac{\text{gpm x psi}}{1714 \text{ x Efficiency}}$$

$$\text{KW} = \frac{\text{pump bhp x 0.7457}}{\text{motor efficiency}}$$