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Innovative Chemical Solutions

The Nitrided Plunger

Our chemical injection pumps use a nitrided plunger – a stainless steel plunger that has undergone an advanced chemical bath nitriding process that hardens the surface of the plunger and integrates itself within the material. This innovative plunger is less susceptible to damage from particles entering the system, ensuring reliable operation and optimal performance from our One N' Done packing.

Key Benefits:

- **Increased Durability:** Less susceptible to damage from system contaminants.
- **Longevity:** Significantly extends the plunger's lifespan.
- **Optimizes One N' Done Performance:** The hardened surface is crucial for optimal functioning with our One N' Done Packing performance.

The Ultra-Efficient Motor

Safety is paramount, and our explosion-proof motor is rated for Class 1 Division 1 environments, capable of operating in hazardous conditions without risk of explosion. A zero maintenance design that is brushless and sensor less, our motor eliminates maintenance concerns and reduces the risk of sparking hazards. The geometry of the top works exploits the efficiency of our drive system by mounting the motor vertically and running a variable speed manner with an exotic wave form.

Key Benefits:

- **Soft Start Technology:** Gradually increases speed (7 seconds from stop) to eliminate inrush current, prolonging battery life and extending autonomy.
- **Vertical Motor Design:** Maximize efficiency by utilizing 360 degrees of travel.
- **Proportional Control:** True proportional delivery relative to chemical delivery rates for optimal performance.
- **Unmatched Output:** So far, our efficiency is unmatched in the market. If you require 5 gallons per day at 3200 PSI, our pump can deliver these results with only an 8-watt power draw.

The Chemical Pump Calculator

To enhance user experience, we provide user-friendly chemical pump calculator that simplifies the setup process. Operators receive clear instructions on configuring the pump based on their specific chemical requirements.

Key Benefits:

- **Energy Efficiency:** Calculates the most effective options to achieve desired output with minimal battery use and the smallest solar array.
- **Versatile Options:** Presents multiple pathways to achieve objectives, ranking them by energy consumption for optimized efficiency.