



Our Mag-Drive Pump systems offers ultimate security for critical applications.

Pump Assembly

Reducing the Burden of Ownership

Features

- Offers a variety of pump assemblies designed to meet your requirements
- Single or Dual configurations
- Appropriate piping, motor controller, and conduit
- Assembly only requires field piping & power to the stater
- Dual pump assemblies offers two sequential controllers: PS-1 & PS-2

Operation

Normal - Field wiring should be provided to activate the pump control when any additive permissive in on.

Dual Pump operation with PS-2 Controller - When the pump control activated, the PS-2 controller starts pump A, and the next time pump B. If continues to alternate pumps, as long as both pumps are operable. Manual selection of either pump can be made at any time.

Dual Pump operation with PS-1 Controller - Normal operation is the same as the PS-2 Controller. The PS-1 provides a field adjustable time delay for shutdown of the individual pump, and lights indicating proper operation or failure mode. An alarm output terminal is activated on any failure situation in both models.

Style

- Positive displacement pumps are recommended for additive injection applications to provide sufficient pressure under varying hydraulic conditions. Magnetic drive pump assemblies with no dynamic seals are strongly recommended.

Manufacturers

- Roper, Viking, and Tuthill in certain models and sizes are available from Lubrizol Performance Systems inventory; other models and sizes available.

Motors

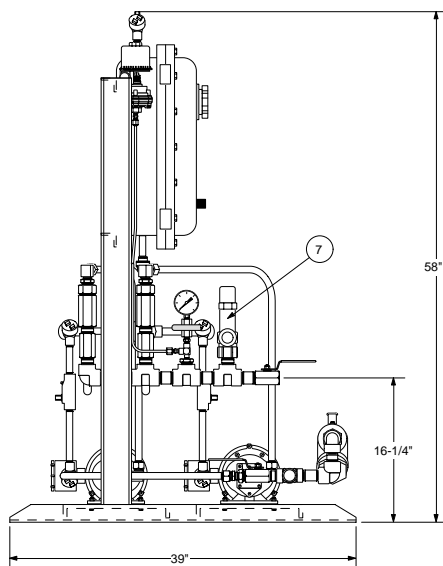
- Explosion proof for Class 1, Division 1, Group D locations; other ratings are available. Single phase to 1 HP and three phase 1/2 HP and larger, dual voltage, 50 or 60 Hz.

Tubing and Piping

- Stainless steel tubing and carbon steel tube fittings, or carbon steel pipe, with carbon steel threaded fittings. Schedule 80 steel piping. Optional socket welded systems are available.

Valves

- Carbon steel plated ball valves. Consult factory for other materials. Valves are configured to isolate pump.



Strainer

- Y-pattern ductile iron with a 20 mesh stainless steel basket, installed in inlet piping.

Pressure Gauge

- Liquid filled 0 - 300 psi range stainless steel basket, installed in inlet piping.

Relief Valve

- External hydraulic system design, factory set to begin opening at 115 psi, and fully open at 125 psi. Pressure setting is field adjustable. Carbon steel body with stainless steel piston with cross slot, and metal to metal seat.

Mounting

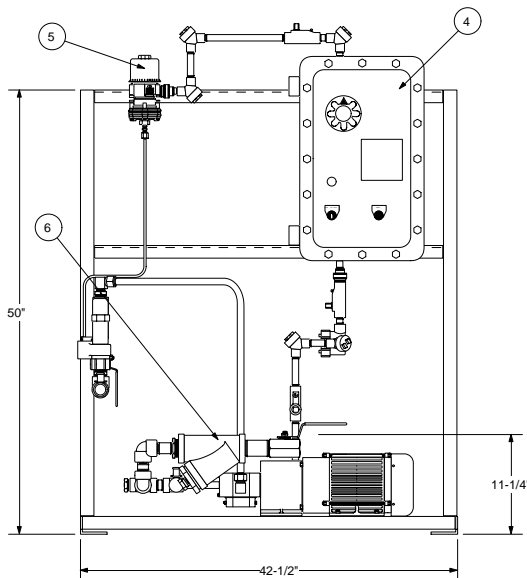
- Steel channel base, sand blasted and painted with epoxy primer and finish.

Optional Rack

- Fabricated steel, sand blasted and painted with epoxy primer and finish. Pump assembly is mounted on the rack base, and the rack has space for the motor controller and a limited number of injectors.

Motor Controller

- Magnetic with adjustable circuit protection so the same device can be used with the motors as large as 7.5 HP. Housed in an explosion proof enclosure. Controllers for larger motors are available.



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