

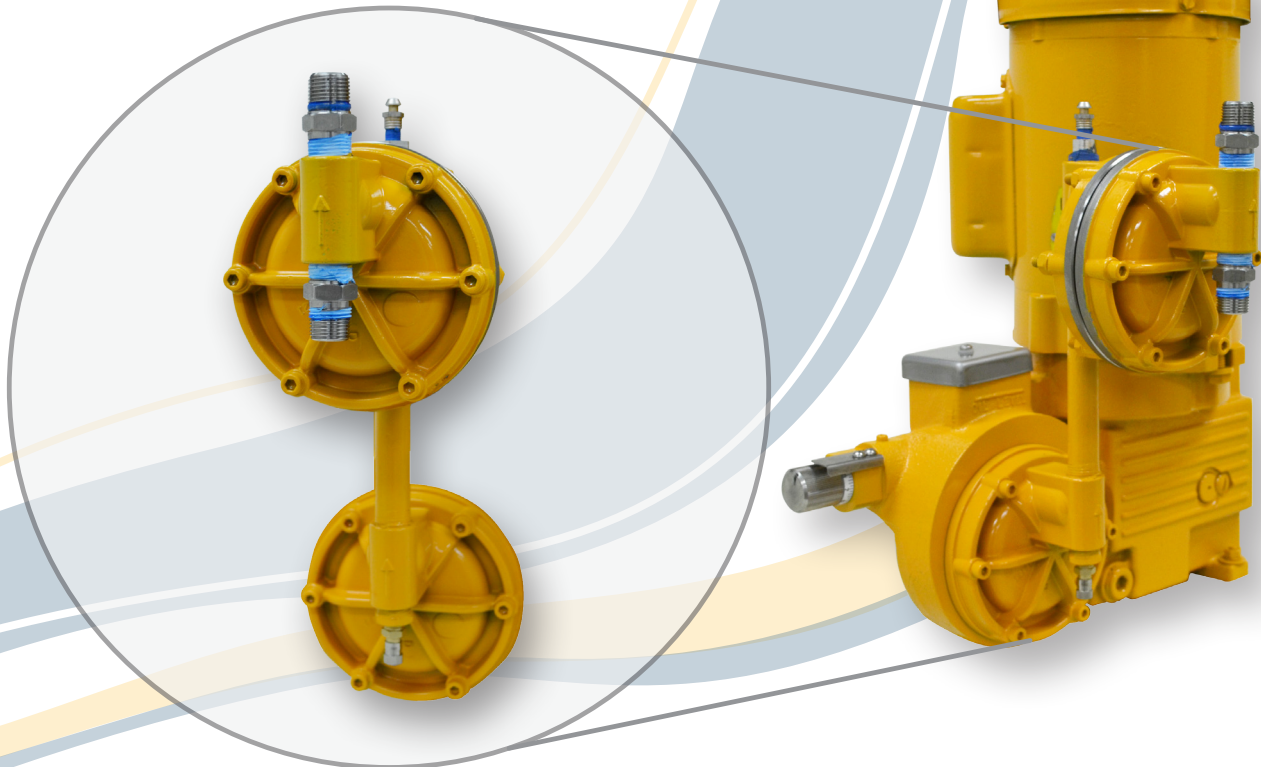


Remote Pump Head

Occasionally we have to pump some liquids with extreme temperatures that are either too hot or too cold. In either case, these temperatures could potentially cause long-term wear and possible damage to the internals of the gear housing and the hydraulic oil it contains. AquFlow's Remote Pump Head is designed to keep that temperature related effect away from the rest of the pump components by separating the liquid pump chamber. We use the appropriate intermediate oil to better handle the temperature and help dissipate the temperature difference.

Work Principle

Essentially, this pump is similar to any other AquFlow hydraulic diaphragm metering pump. The only difference is that there is an intermediate hydraulic oil that transfers the pressure to a pump head that is some distance away from the rest of the pump. These pumps are highly engineered pumps and they need to be customized to each application specifically. Hence, we would need to know all details of the application such as exact process liquid, temperature of the liquid, viscosity and specific gravity of the liquid, ambient temperature, duty cycle (length of time pump is running before it's off), suction and discharge conditions, etc. before we can determine the exact configuration most suited to the application.



Features

- Flow Capacity up to 480 GPH
- Pressure up to 400 PSI
- Liquid Temperature Range -50° to 500° F (-45° to 242° C)
- Metering Accuracy $\pm 1\%$
- Built-in Safety – Internal Relief Valve
- Ability to handle difficult liquids including slurries and high viscosities

Specifications

- Flow Capacity Adjustment – 0-100% While the pump is running or stopped
- Stroke Length Turndown Ratio – 10:1
- Stroke Frequency Turndown Ratio – 10:1

Liquid End Material Options:

316 SS, Alloy 20, Hastelloy C