

Tri-Phase™ System



In the oil industry, multiphase pumping refers to the transfer of fluid containing any combination of gas, liquid and solids from the wellsite or satellite to a central processing facility.

Because of the prohibitive capital and lifecycle costs associated with traditional pump technology and separation equipment at each wellsite, the oil and gas industry alternatively utilizes our innovative, patented, engineered multiphase transfer solution. Our Tri-Phase System is based on our field-proven progressing cavity pump. Incorporating advanced technology, superior design and proprietary manufacturing processes, the Tri-Phase System offer the best value, and the most effective pumping solution for the difficult and fluctuating conditions often encountered in multiphase fluid flow. The package is complete with pump protection for maximum performance and long life.

Production Benefits

- Increase well production rate by reducing bore hole pressure
- Extends life cycle of your artificial lift equipment
- Extended productive life of marginal fields

Environmental Benefits

- Eliminate need to flare gas at well site
- Eliminate local water storage, disposal
- Exhibits small environmental impact
- Smaller footprint, lower noise emissions, higher efficiencies

Capital Benefits

- Eliminates or minimizes the number of satellite separation facilities / batteries needed
- As new wells are drilled further and further away from existing separation facilities, a Tri-Phase systems can be used to transfer the multiphase fluids to and exiting facility several miles away.

Features

- Supplied as a complete system
- Inlet pressures from 5 to 1000 psig
- Differential pressures up to 750 psig
- Flow rate up to 63,000 BPDe
- Complete monitoring and control
- System small enough to be moved from well to well
- Provide lower maintenance costs as compared to alternate technologies
- Materials of Construction:
 - Stainless steel
 - Hastelloy
 - Other materials by request
- Moves abrasive fluids allowing sand particles to roll along the surface and not scrape and abrade
- Easier and faster separation
- Will not vapor lock
- Handles broad range of fluids and variations in GVF, GOR, Oil API/viscosity, and solids content
- Lower Total Cost of Operation / Ownership