

Transfer pump

Transfer Pumps are used to transfer fluids from the test tanks to a pipeline or storage tank, or to supply oil to a crude oil burner for disposal.

Electric drivers are preferred on offshore locations with ample power. Diesel drivers are normally used on land locations where electrical power may not be available.

The pumps are usually horizontal, end-suction centrifugal pumps, or progressive cavity pumps with mechanical seals. They supply oil to the burner when there is not enough pressure for the well effluent to atomise and burn cleanly through the burner. They may also be used to re-inject the effluent into a flow line after flowing through the production test units.

Transfer pumps are ideal for transferring oil or water on location. They are designed for corrosive service.

Transfer pumps deliver a constant pressure without the pulsations that occur with piston type pumps. Centrifugal pumps do not overpressure if a downstream valve is accidentally closed due to their design. Progressive cavity pumps are protected from over pressure by Pressure Safety Valve (API 676).



Features and benefits

Electrically driven transfer, 3-phase motor; the explosion proof control box contains a soft start system

Skid mounted

High performance centrifugal units deliver a constant pressure without the pulsing that occurs with piston type pumps

Single, twin or triple diaphragm pumps have a small footprint and offer flexibility within the well test areas

Triple air pumps offer flexibility during fluid transfer from multiple storage tanks

Applications

Onshore and offshore

Well testing and clean-up operations

Fluid transfer from within well test system, pressurised tanks or atmospheric storage tanks

Technical specifications

Drive	Air driven	Electrically driven	Diesel driven
Performance	1,000 to 3,000 bbls/day @ 150psi to 250psi (@ 10bar to 17bar)	5,000 to 10,000 bbls/day @ 150psi to 280psi (@ 10bar to 19bar)	5,000 bbls/day @ 1500psi (@ 100bar)
Working temp.	-20°F to 212°F (-29°C to 100°C)	20°F to 250°F (-29°C to 121°C)	20°F to 240°F (-29°C to 115°C)
Weight	75kg to 1,200kg (165lb to 2645lb)	4,900kg (10800lb)	5000kg (11023lb)
Dimensions	1m x 1m x 1m to 2m x 1.5m x 1.2m (3.2ft x 3.2ft x 3.2ft to 6.5ft x 5ft x 4ft)	2.66m x 1.44m x 1.8m (8.7ft x 4.7ft x 5.9ft)	3m x 2.1m x 2.2m (10ft x 7ft x 7.3ft)
Process connections	Inlet: 2" or 3" Fig. 602F Outlet: 2" or 3" Fig. 602M	Inlet: 3" or 4" Fig. 602F Outlet: 3" or 4" Fig. 602M	Inlet: 4" Fig. 602F Outlet: 3" Fig. 602M
Applied codes	ASME B31.3, NACE MR0175, DNV 2.7-1, PED 97/23/EC, ATEX 94/9/EC,		

Note: Other sizes, configurations and pressure ratings are available to meet most applications. For more information contact your local Expro representative or email welltesting@exprogroup.com