

Well Flow Management

Well Testing | Disposal

Transfer Pump

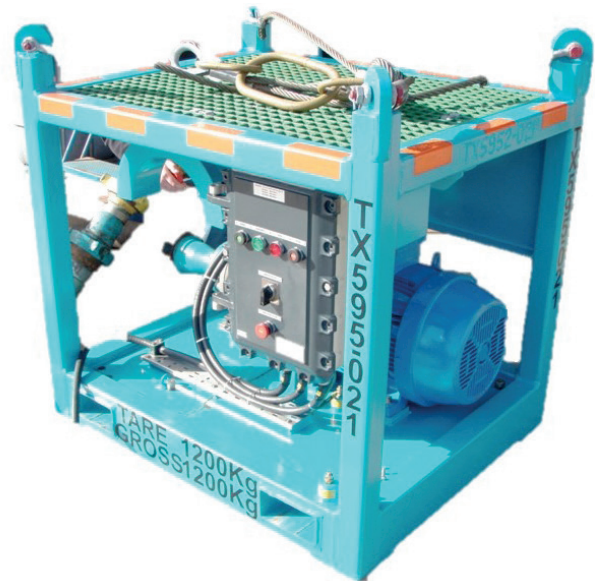
A transfer pump is used to transfer liquid from the test tanks to a pipeline or storage tank, or to supply oil to a crude oil burner for disposal.

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

The pumps are usually horizontal, end-suction centrifugal pumps, or progressive cavity pumps with mechanical seals and can supply oil to the burner when there is not enough pressure for the well effluent to atomize 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 and 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 a Pressure Safety Valve (API 676).



Applications

- Onshore and offshore
- Well testing and clean-up operations
- Fluid transfer from within well test system, pressurized tanks or atmospheric storage tanks

Features and benefits

- Electrically driven transfer, 3-phase motor. The explosion proof control box contains a soft start system
- Skid mounted
- The 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



Well Flow Management

Well Testing | Disposal

Transfer Pump

Technical specifications			
Drive	Air driven	Electrically driven	Diesel driven
Capacity bpd (m3/d)	1,000 to 3,000 (159 to 477)	5,000 to 10,000 (795 to 1,590)	5,000 (795)
Operating pressure @ psi (bar)	150 to 250 (10 to 17)	150 to 280 (10 to 19)	1,500 (100)
Working temperature °F (°C)	-20 to 212 (-29 to 100)	-20 to 250 (-29 to 121)	-20 to 240 (-29 to 115)
Weight (dry) lbs (kgs)	165 to 2,645 (75 to 1,200)	10,800 (4,900)	11,023 (5,000)
Dimensions (L x W x H) ft. (m)	3.2 x 3.2 x 3.2 to 6.5 x 5.0 x 4.0 (1.0 x 1.0 x 1.0) to (2.0 x 1.5 x 1.2)	8.7 x 4.7 x 5.9 (2.66 x 1.44 x 1.8)	10.0 x 7.0 x 7.3 (3 x 2.1 x 2.2)
Process connections;			
Inlet	2" or 3" fig. 602 f.	3" or 4" fig. 602 f.	4" fig. 602 f.
Outlet	2" or 3" fig. 602 m.	3" or 4" fig. 602 m.	3" fig. 602 m.

Note: Designed and manufactured to ASME B31.3, NACE MR0175 (H2S), DNV 2.7-1, PED 97/23/EC, ATEX 94/9/EC

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