

Oil Transfer Pump

Oil Transfer Pumps are designed to pump oil from a tank to a burner or to send oil from a tank to a pipeline, another tank or a tanker. Oil Transfer pump can be broadly classified as screw pump and centrifugal pump which are used commonly.

SCREW PUMP

Screw pump is well adapted to handling viscous fluids. The single-screw pump mainly consists of a stator with dual spiral chambers and a rotor engaged with the stator in the shaft sleeve. When the rotor turns in the stator chamber, the sealed chamber formed between the rotor and stator will make axial movement along the spiral line of the rotor, oil will be conveyed evenly, continuously, and constantly from the suction side to the discharge side.

FEATURES

- ▶ Even, continuous, steady flow
- ▶ Constant flow rate
- ▶ Low fluid speed at inlet pipe and pump inlet
- ▶ High efficiency



CENTRIFUGAL PUMP

Centrifugal pump is suitable for high speed fluid, mainly composed by impeller which produces liquid velocity and volute which forces the liquid to discharge from the pump. Centrifugal pump operates at relatively high rotation speeds (e.g. 3,000 rpm), it uses centrifugal force to impart high velocity to the liquid, and then converts most of this velocity to pressure.

FEATURES

- ▶ Simple construction and quiet operation
- ▶ Small space requirements relative to flow rate capacity
- ▶ Fluids containing small, solid particles can be handled
- ▶ Low maintenance requirements

PARAMETERS

	Single Screw Pump	Centrifugal Pump
Flow	0.2~130m ³ /h	100~1500 m ³ /h
Operation Pressure	<=1.2MPa	2.5~13.5MPa
Viscosity	50~1500cp	<750cp

