

Transfer Pump

Transfer oil from tank to burner or existing flowline

APPLICATIONS

- Well testing surge tanks or gauge tank transfer
- Reinjection of separator oil into an existing flowline
- Pump liquids to a tanker

ADVANTAGES

- Can be used to empty one tank compartment while filling another
- Able to increase pressure for burner operation
- Can be used in remote locations when fitted with a diesel engine, or in Zone 2 regions when fitted with an electrical motor
- Protected against overpressure by a relief bypass (except centrifugal designs, which are self protected)
- Explosion-proof electrical motors
- Shock-protected by a frame
- Compliant with ASME[†] B31.3; electrical motor compliant with EExd[‡] IIB T4

The transfer pump (PMP) is designed to pump oil from a tank to a burner or from a tank into an existing flowline. Normally fitted with an explosion-proof electrical motor for operations in Zone 2 regions, the PMP can also be fitted with a diesel engine for remote location operations.

Gear, screw, and centrifugal pump designs are available. The characteristics of the fluid being pumped and the specific application for the pump determine which pump technology is most suitable.

To prevent overpressure conditions, noncentrifugal PMP models are fitted with a pressure relief bypass valve. The centrifugal models are self protected. PMPs are shock-protected by a frame, and some are rated to Det Norske Veritas (DNV) 2.7-1 standard.

All PMPs are manufactured under Type Approval or Design Verification Review and are provided with a Certificate of Conformity and a full quality file.



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Specifications

Model	Motor Type	Pump Type	Pumping Application	Service	Pump Capacity, bbl/d [m3/d] at Pressure, psi [kPa]	Maximum Working Pressure, psi [kPa]	Working Temperature, degF [degC]	CE [†] Marking	Part Number
PMP-EA	Electrical	Screw	Tank transfer	Standard	4,000 [636] at 300 [2,069]	300 [2,069]	-4 to 212 [-20 to 100]	Yes	100079604
PMP-ECB	Electrical	Gear	Tank transfer	Standard	2,000 [317] at 200 [1,379]	200 [1,379]	32 to 212 [0 to 100]	No	M816551
PMP-EDB	Electrical	Centrifugal	Diesel for mud burner	Standard	1,600 [254] at 550 [3,793]	550 [3,793]	-4 to 212 [-20 to 100]	No	M809932
PMP-EDC	Electrical	Screw	Tank transfer	Standard	4,000 [636] at 300 [2,069]	300 [2,069]	32 to 212 [0 to 100]	No	M835701
PMP-EFE	Electrical	Centrifugal	Tank transfer	H ₂ S	10,000 [1,590] at 380 [2,620]	720 [4,965]	-20 to 212 [-29 to 100]	No	M816514
PMP-GE	Electrical	Centrifugal	Tank transfer	H ₂ S	5,000 [795] at 200 [1,379]	720 [4,965]	-4 to 212 [-20 to 100]	No	P485910
PMP-HA	Electrical	Gear	Tank transfer	Standard	6,800 [1,081] at 250 [1,724]	250 [1,724]	32 to 212 [0 to 100]	Yes	100157683
PMP-TCB	Diesel	Gear	Tank transfer	Standard	2,000 [317] at 200 [1,379]	200 [1,379]	32 to 212 [0 to 100]	No	M837654
PMP-TDC	Diesel	Screw	Tank transfer	Standard	4,000 [636] at 300 [2,068]	300 [2,069]	32 to 212 [0 to 100]	No	M837657
PMP-TDW	Diesel	Screw	Tank transfer	Standard	4,000 [636] at 300 [2,069]	300 [2,069]	32 to 212 [0 to 100]	No	100097403

[†] Conformité Européenne

Specifications and Codes

Model	Connections		Fluid Pumped	Supply Voltage, V	Supply Power, kW	Dimensions, (L x h x H), ft [m]	Weight, lbm [kg]	Applied Codes
	Inlet	Outlet						
PMP-EA	3-in Fig 602 Female	3-in Fig 602 Male	Oil	460, 60 Hz 400, 50 Hz	33	11.16 × 2.79 × 4.66 [3.40 × 0.85 × 1.42]	3,307 [1,500]	PED [†] 97/23/EC, ASME B31.3, ATEX [‡] 94/9/EC, CE Marked
PMP-ECB	3-in Fig 602 Female	3-in Fig 602 Male	Oil	440, 60 Hz 380, 50 Hz	11	4.27 × 2.23 × 2.82 [1.30 × 0.68 × 0.86]	950 [430]	Explosion-proof EExd IIB T4, IP55-7
PMP-EDB	3-in Fig 602 Female	3-in Fig 602 Male	Diesel oil	460, 60 Hz 400, 50 Hz	33	7.22 × 3.61 × 4.82 [2.20 × 1.10 × 1.47]	2,200 [1,000]	Explosion-proof EExd IIB T4, IP55-7
PMP-EDC	3-in Fig 602 Female	3-in Fig 602 Male	Oil	440, 60 Hz 380, 50 Hz	35	11 × 2.79 × 4.66 [3.35 × 0.85 × 1.42]	3,307 [1,500]	Explosion-proof EExd IIB T4, IP55-7
PMP-EFE	3-in Fig 602 Female	3-in Fig 602 Male	Oil	440, 60 Hz 380, 50 Hz	130	6.73 × 4.83 × 7.68 [2.05 × 1.47 × 2.34]	6,512 [2,954]	Explosion-proof EExd IIB T4, H ₂ S (NACE MR0175)
PMP-GE	4-in Fig 602 Female	3-in Fig 602 Male	Oil	440, 60 Hz 380, 50 Hz	75	8.86 × 4.23 × 9.19 [2.70 × 1.29 × 2.80]	7,716 [3,500]	Explosion-proof EExd IIB T4, IP55-7, H ₂ S (NACE [§] MR0175), DNV 2.7-1
PMP-HA	4-in Fig 602 Female	3-in Fig 602 Male	Oil and water	460, 60 Hz 400, 50 Hz	55	8.70 × 4.93 × 9.19 [2.65 × 1.50 × 1.50]	5,953 [2,700]	Explosion-proof EExd IIB T4, IP55-7 DNV 2.7-1
PMP-TCB	3-in Fig 602 Female	3-in Fig 602 Male	Oil	Diesel engine	11	4.92 × 3.05 × 2.36 [1.50 × 0.93 × 0.72]	937 [425]	None
PMP-TDC	3-in Fig 602 Female	3-in Fig 602 Male	Oil	Diesel engine	39	12.14 × 2.79 × 5.02 [3.70 × 0.85 × 1.53]	4,410 [2,000]	None
PMP-TDW	3-in Fig 602 Female	3-in Fig 602 Male	Oil	Diesel engine	39	12.14 × 2.79 × 5.02 [3.70 × 0.85 × 1.53]	5,070 [2,300]	None

[†] Complies with European Pressure Equipment Directive 97/23

[‡] Complies with ATmospheres EXplosives directive

[§] National Association of Corrosion Engineers International

www.slb.com/BeCertain

[†] American Society of Mechanical Engineers

[‡] Induction motors certified for explosive areas

[§] Mark of Schlumberger

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