

# FXE (FY-FXE) Duplex Power Pump – Two-Piece Fluid End



## Specifications

<b>Maximum BHP</b>	Mud Service: 102 (76 kw)	Industrial Service: 133.4 (99.5 kw)
<b>Max. Jackshaft RPM</b>	Mud Service: 390	Industrial Service: 510
<b>No. of Pistons</b>	2	
<b>Stroke Length</b>	10" (254 mm)	
<b>Piston Rod Load</b>	13,480 lbs. (6,110 kg)	
<b>Oil Capacity</b>	14 gallons (53 liters)	
<b>Pump Weight</b>	7,090 lbs. (3,216 kg)	

## FXE (FY-FXE) Duplex Power Pump Performance Ratings

Linear Size Diameter		Normal Operation					**Maximum Recommended Operation					***Maximum Working Pressure	
		Displacement		Max Pump RPM	Jackshaft RPM	Input HP at Max. Speed	Displacement		Max Pump RPM	Jackshaft RPM	Input HP at Max. Speed		
in.	mm.	gpm	lpm				gpm	lpm				psi	kg/cm <sup>2</sup>
<b>FXE Duplex Industrial Pump for Oil Line, Mining and Industrial Service</b>													
7.5	191	427	1616	57	342	89.4	637	2411	85	510	133.4	305	21
7.25	184	398	1506	57	342	89.4	594	2248	85	510	133.4	326	23
7	178	371	1404	57	342	89.4	553	2093	85	510	133.4	350	25
6.5	165	319	1207	57	342	89.4	474	1798	85	510	133.4	406	29
6	152	270	1022	57	342	89.4	403	1525	85	510	133.4	477	34
5.5	140	226	855	57	342	89.4	337	1276	85	510	133.4	567	40
5	127	185	700	57	342	89.4	276	1045	85	510	133.4	686	48
<b>Normal/Maximum Recommended Operation</b>													
Linear Size Diameter		Displacement		Max Pump RPM	Jackshaft RPM	Input HP at Max. Speed	***Maximum Working Pressure						
in.	mm.	gpm	lpm				psi	kg/cm <sup>2</sup>					
<b>FXE Duplex Mud Pump for Mud, Grout and Cement Service</b>													
7.5	191	487	1843	65	390	102	305	21					
7.25	184	454	1718	65	390	102	326	23					
7	178	423	1601	65	390	102	350	25					
6.5	165	364	1378	65	390	102	406	29					
6	152	308	1166	65	390	102	477	34					
5.5	140	257	973	65	390	102	567	40					
5	127	211	799	65	390	102	686	48					

\*\* These speeds are recommended for favorable suction conditions and consideration must be given to viscosity and character of fluids.

\*\*\* Maximum working pressure shown applied to the fluid ends. Power ends are designed for certain maximum piston rod loads, and in service the power end determines the maximum pressure on a given size piston. Tabulated maximum pressure for any given size piston for maximum piston rod load must not be exceeded even at reduced RPM. Fluid cylinder liners and pistons are interchangeable in all sizes except for the FXF cylinders fitted with 4.5" parts and FXX and FXD cylinders with 5.5" parts.

# FXE (FY-FXE) Duplex Power Pump – Two-Piece Fluid End



## Standard Features

- Rods and pistons
- Liners and valves
- Double-extended jackshaft with extension for one side
- Piston rods have Gardner Denver No. 1 or API No. 1 taper (optional)
- Wood skid

**Suction Connection:** 4" NPT 250#

**Discharge Connection:** 3" NPT 600#

### Jackshaft Extension

Diameter: 3.25"

Length: 12.38"

**Keyway:** 12.38" L x 3/4" W x 3/4" H

**Dimensions:** Length 107.1", Width 59.4", Height 42.5"

**Note:** All installations must contain a pressure relief valve in the discharge line near the pump to help prevent breakage.

## Optional Equipment

- Surge chamber
- Steel skid
- Stainless steel valves
- Metal packed pistons
- Special jackshafts
- Top motor mount

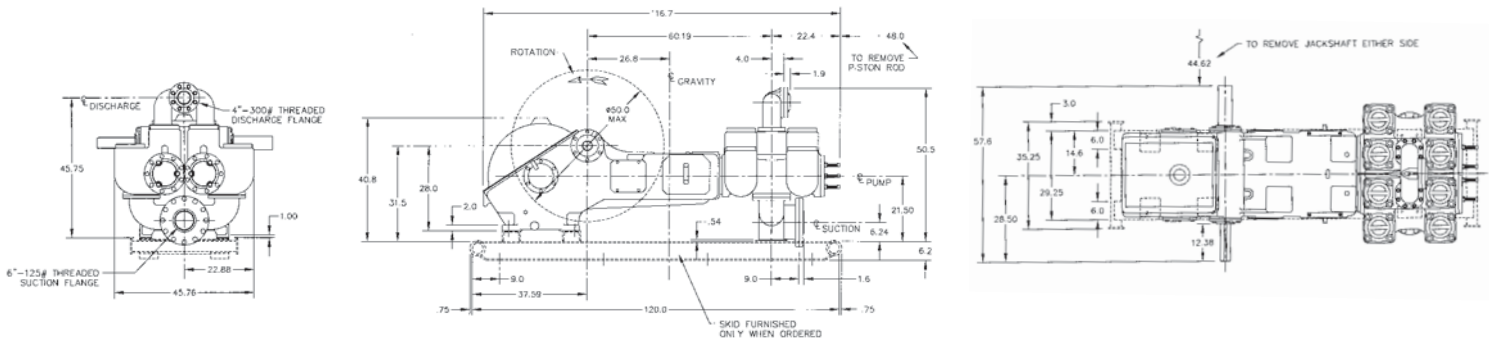
## Model Designations

Model	FD-FXE	FD-FXE
Mud Service	FXEC	FXEB
Grout/Cement Service	FXEG	FXEF
Oil Service	FXEL	FXEK
General Service	FXET	FXES
Bronze Fitted (Water Srv)	FXEP	N/A
Stroke	10"	10"
Liner Size Maximum	5"	5.5"
Liner Size Minimum	3"	3.5"
Fluid End Type	Cast Iron 1 Piece	Cast Iron 1 Piece

## Material Specifications

Component	General Service	Mud Grout and Cement	Oil Service	Water Service	Power End Component	Power End Material
Cylinder	Cast iron	Cast iron	Cast iron	Cast iron	Eccentric	Nodular iron
Liners	Hardened steel	Hardened steel	Hardened steel	Bronze	Eccentric gear	Eccentric steel
Suction manifold	Cast iron	Cast iron	Cast iron	Cast iron	Connecting rods	Hardened steel
Discharge manifold	Cast iron	Cast iron	Cast iron	Cast iron	Crossheads	Cast iron
Packing	Braided polymer	Molded convex	Braided polymer	Braided polymer	Main bearing	Tapered roller
Piston	Iron with pacing rings	Steel body with nitrile rubber	Iron with pacing rings	Bronze with pacing rings	Connecting rod bearing	Bronze
Piston rod	Hardened steel	Hardened steel	Hardened steel	Bronze	Crosshead pin bearing	Bronze
Stuffing box	Cast iron	Cast iron	Cast iron	Cast iron		
Valve	Iron wing guided	Steel wing guided	Steel wing guided	Bronze wing guided		
Valve seats	Iron	Steel	Steel	Bronze		

Materials listed are furnished as standard equipment. Alternate materials are available upon request.



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