

# FXX (FC-FXX) Duplex Power Pump – Two-Piece Fluid End



<b>Specifications</b>	
<b>Maximum BHP</b>	Mud Service: 52 (39 kw)    Industrial Service: 73 (54 kw)
<b>Max. Jackshaft RPM</b>	Mud Service: 330    Industrial Service: 471
<b>No. of Pistons</b>	2
<b>Stroke Length</b>	8" (203 mm)
<b>Piston Rod Load</b>	8,036 lbs. (3,645 kg)
<b>Oil Capacity</b>	12 gallons (46 liters)
<b>Pump Weight</b>	4,930 lbs. (2,236 kg)

## FXX (FC-FXX) Duplex Power Pump Performance Ratings

Linear Size Diameter		Normal Operation					**Maximum Recommended Operation						
		Displacement		Max Pump RPM	Jackshaft RPM	Input HP at Max. Speed	Displacement		Max Pump RPM	Jackshaft RPM	Input HP at Max. Speed	***Maximum Working Pressure	
in.	mm.	gpm	lpm				gpm	lpm				psi	kg/cm <sup>2</sup>
<b>FXX Duplex Industrial Pump for Oil Line, Mining and Industrial Service</b>													
5	127.0	164	621	63	297	46	260	984	100	471	73	409	29
4.5	114.3	131	496	63	297	46	208	787	100	471	73	505	36
4	101.6	102	386	63	297	46	162	613	100	471	73	640	45
3.5	88.9	76	288	63	297	46	121	458	100	471	73	836	59
3	76.2	54	204	63	297	46	86	324	100	471	73	1137	80
<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>FXX Duplex Mud Pump for Mud, Grout and Cement Service</b>													
5	127.0	182	689	70						52		409	29
4.5	114.3	146	553	70						52		505	36
4	101.6	113	439	70						52		640	45
3.5	88.9	85	322	70						52		836	59
3	76.2	60	227	70						52		1137	80

\*\* 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 FXX cylinders fitted with 4.5" parts and FXX and FXD cylinders with 5.5" parts.

# FXX (FC-FXX) 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 2500#

### Jackshaft Extension

Diameter: 3"

Length: 9"

**Keyway:** 9"L x 3/4"W x 3/4"H

**Dimensions:** Length 95.4", Width 49.8", Height 31.0"

**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

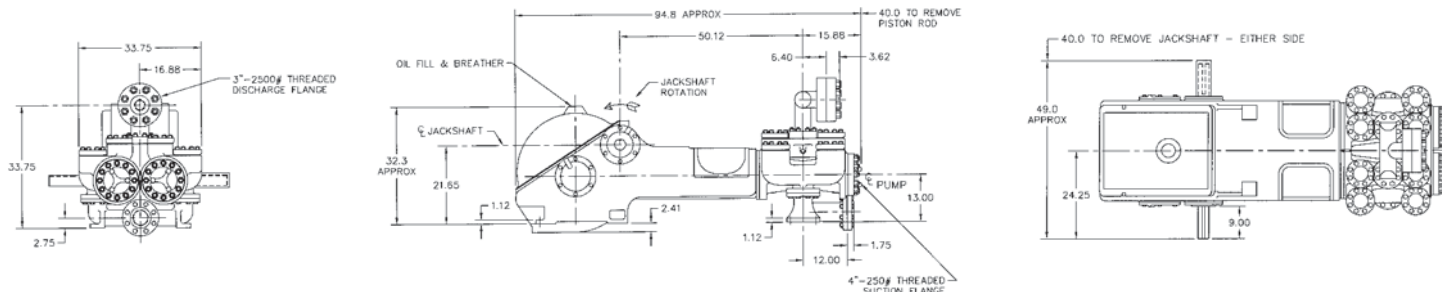
## Model Designations

Model	FC-FXX
Mud Service	FXXD
Grout/Cement Service	FXXH
Oil Service	FXXM
General Service	FXXU
Bronze Fitted (Water Srv)	FXXQ
Stroke	6"
Liner Size Maximum	5"
Liner Size Minimum	2.5"
Fluid End Type	Cast Iron 2 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	Cast iron
Liners	Hardened steel	Hardened steel	Hardened steel	Bronze	Connecting rods	Nodular iron
Suction manifold	Cast iron	Cast iron	Cast iron	Cast iron	Crossheads	Cast iron
Discharge manifold	Nodular iron	Nodular iron	Nodular iron	Nodular iron	Main bearing	Tapered roller
Packing	Braided polymer	Molded convex	Braided polymer	Braided polymer	Connecting rod bearing	Bronze
Piston	Iron with pacing rings	Steel body with nitrile rubber	Iron with pacing rings	Bronze with pacing rings	Crosshead pin bearing	Bronze
Piston rod	Hardened steel	Hardened steel	Hardened steel	Bronze		
Stuffing box	Nodular iron	Cast iron	Nodular iron	Nodular iron		
Valve	Steel 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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