

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



<b>Specifications</b>	
<b>Maximum BHP</b>	Mud Service: 52 (39 kw)    Industrial Service: 75 (56 kw)
<b>Max. Jackshaft RPM</b>	Mud Service: 390                    Industrial Service: 510
<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>	5,800 lbs. (2,631 kg)

## FXX (FY-FXX) 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>FXX Duplex Industrial Pump for Oil Line, Mining and Industrial Service</b>													
7.5	191	378	1590	63	297	47.2	600	2271	100	471	75	182	13
7.25	184	352	1480	63	297	47.2	559	2116	100	471	75	195	14
7	178	328	1382	63	297	47.2	521	1972	100	471	75	209	15
6.5	165	282	1219	63	297	47.2	447	1692	100	471	75	242	17
6	152	239	1185	63	297	47.2	379	1435	100	471	75	284	20
5.5	140	200	1007	63	297	47.2	317	1200	100	471	75	338	24
5	127	164	840	63	297	47.2	260	984	100	471	75	409	29
<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>													
7.5	191	420	1590	70	330	52	182	13					
7.25	184	391	1480	70	330	52	195	14					
7	178	365	1382	70	330	52	209	15					
6.75	172	322	1219	70	330	52	217	15					
6.5	165	313	1185	70	330	52	242	17					
6	152	266	1007	70	330	52	284	20					
5.5	140	222	840	70	330	52	338	24					
5	127	182	689	70	330	52	409	29					

\*\* 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 (FY-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:** 10" NPT 150#

**Discharge Connection:** 4" NPT 300#

### Jackshaft Extension

Diameter: 3"

Length: 9"

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

**Dimensions:** Length 104.1", Width 49.8", Height 36.0"

**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

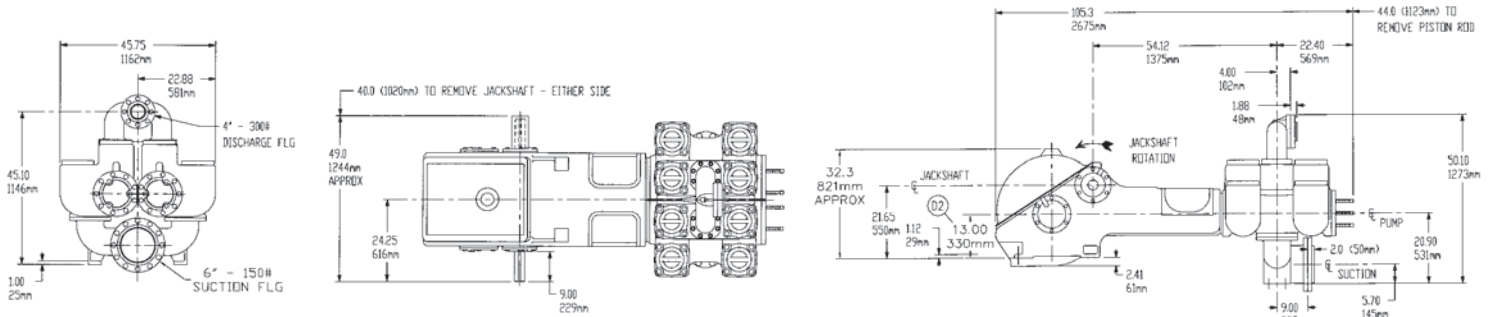
## Model Designations

Model	FY-FXX
Mud Service	FXXA
Grout/Cement Service	FXXE
Oil Service	FXXJ
General Service	FXXR
Bronze Fitted (Water Srv)	FXXN
Stroke	8"
Liner Size Maximum	7.5"
Liner Size Minimum	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	Cast iron	Cast iron	Cast iron	Cast 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	Cast iron	Cast iron	Cast iron	Cast iron		
Valve	Steel centered guided	Steel wing guided	Steel centered guided	Bronze wing guided		
Valve seats	Iron	Steel	Steel	Bronze		

Materials listed are furnished as standard equipment. Alternate materials are available up/on request.



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