



## FXX (FD-FXX) DUPLEX POWER PUMP

### SPECIFICATIONS:

#### Maximum BHP

Mud Service: 52 (39 kw)

Ind'l. Service: 73 (54 kw)

#### Maximum Jackshaft RPM

Mud Service: 330

Ind'l. Service: 471

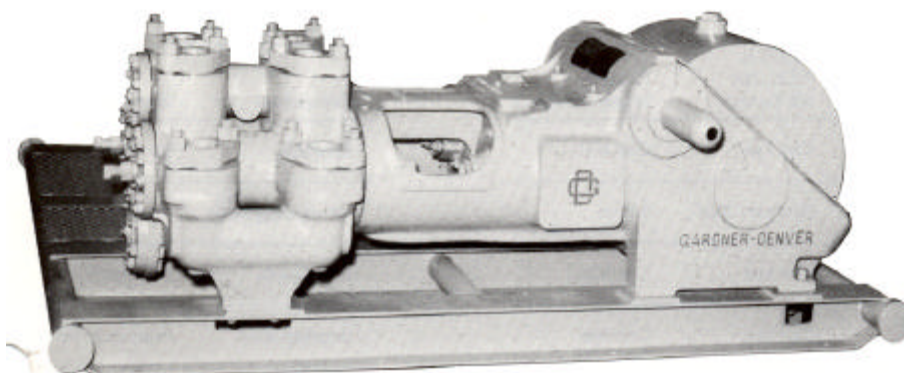
#### No. of Pistons: 2

Stroke Length: 8 in. (203 mm)

Piston Rod Load: 8,036 lbs. (3,645 kg)

Oil Capacity: 12 gal. (46 liters)

Pump Weight: 4,760 lbs. (2,159 kg)



### PERFORMANCE RATINGS

FXX DUPLEX INDUSTRIAL PUMP for Oil Line, Mining and Industrial Service																
Model	Stroke	Liner Size Diameter		Normal Operation					** Maximum Recommended Operation				*** Maximum Working Pressure		Maximum Piston Load	
				Displacement		Max Pump RPM	Jack-shaft RPM	Input HP at Max. Speed	Displacement		Max Pump RPM	Jack-shaft RPM				Input HP at Max. Speed
		in.	mm	gpm	lpm				gpm	lpm				psi		kg/cm <sup>2</sup>
FXX(*)		5 1/2	139.7	200	757				317	1200				338	24	8,036 lbs. (3645 kg)
FXX(*)	8" (203 mm)	5	127.0	164	621	63	297	46	260	984	100	471	73	409	29	
		4 1/2	114.3	131	496				208	787				505	36	
		4	101.6	102	386				162	613				640	45	
		3 1/2	88.9	76	288				121	458				836	59	
		3	76.2	54	204				86	326					1136	80

FXX DUPLEX MUD PUMP for Mud, Grout and Cement Service															
Model	Stroke	Liner Size Diameter		Normal / Maximum Recommended Operation					*** Maximum Working Pressure		Maximum Piston Load				
				Displacement		Max Pump RPM	Jack-shaft RPM	Input HP at Max. Speed							
		in.	mm	gpm	lpm				psi	kg/cm <sup>2</sup>					
FXX(*)		5 1/2	139.7	222	840								338	24	8,036 lbs. (3645 kg)
FXX(*)	8" (203 mm)	5	127.0	182	689	70	330	52	409	29					
		4 1/2	114.3	146	553				505	36					
		4	101.6	113	439				640	45					
		3 1/2	88.9	85	322				836	59					
		3	76.2	60	227							1136	80		

Based on 90% mechanical efficiency and 100% volumetric efficiency.

Specifications subject to change without notice.

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

\*\*\* Maximum working pressure shown applies 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 1/2" parts and FXX and FXD cylinders with 5 1/2" parts.



## FXX (FD-FXX) DUPLEX POWER PUMP

### STANDARD EQUIPMENT

- 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.
- Non-adjustable packing standard. Kevlar or double stack packing optional.

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

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

#### Jackshaft Extension

Diameter: 3"

Length: 9"

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

**Dimensions:** Length 96.9", 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	FD-FXX	FD-FXX
Mud Service	FXXC	FXXB
Grout & Cement Service	FXXG	FXXF
Oil Service	FXXL	FXXK
General Service	FXXT	FXXS
Bronze Fitted (Water Svc)	FXXP	N/A
Stroke	8"	8"
Liner Size		
Maximum	5"	5.5"
Minimum	3"	3.5"
Fluid End Type	Cast Iron One Piece	Cast Iron One Piece

### MATERIAL SPECIFICATIONS

COMPONENT	GENERAL SERVICE	MUD, GROUT and CEMENT	OIL SERVICE	WATER SERVICE	POWER END:	
					COMPONENT	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	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 available upon request.