



FXF (FF-FXF) DUPLEX POWER PUMP

SPECIFICATIONS:

Maximum BHP

Mud Service: 16.2 (12 kw)

Ind'l. Service: 19.7 (15 kw)

Maximum Jackshaft RPM

Mud Service: 439

Ind'l. Service: 537

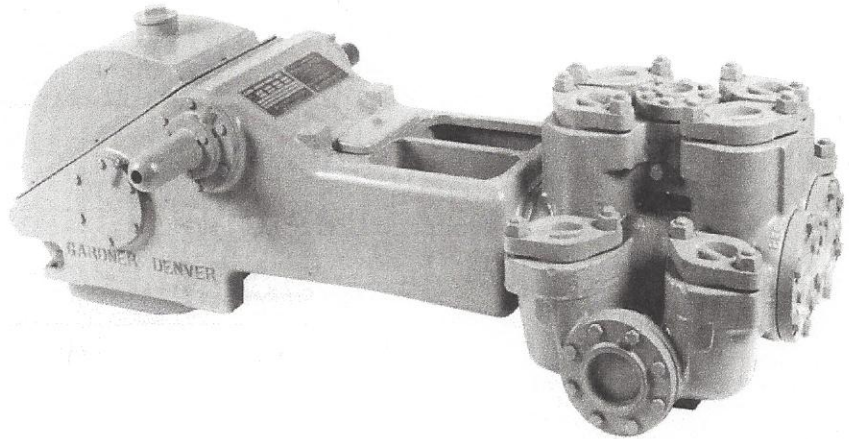
No. of Pistons: 2

Stroke Length: 5 in. (127 mm)

Piston Rod Load: 3,140 lbs. (1,424 kg)

Oil Capacity: 3 gal. (11.5 liters)

Pump Weight: 1,495 lbs. (678 kg)



PERFORMANCE RATINGS

FXF 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					
FXF(*)	5" (127 mm)	4 1/2	114.3	121	458	90	439	16.2	149	562	110	537	19.7	197	13	3,140 lbs. (1424 kg)
FXF(*)		4	101.6	94	357				115	435				250	17	
		3 1/2	88.9	72	274				88	334				326	22	
		3	76.2	52	197				64	242				444	30	
		2 1/2	63.5	35	135				43	164				639	44	

FXF 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				
FXF(*)	5" (127 mm)	4 1/2	114.3	121	458	90	439	16.2	197	13	3,140 lbs. (1424 kg)
FXF(*)		4	101.6	94	357				250	17	
		3 1/2	88.9	72	274				326	22	
		3	76.2	52	198				444	30	
		2 1/2	63.5	35	135				639	44	

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.

Distributor Contact
NDS Drilling Supply, Inc.
26041 Newton Circle
Elko New Market, MN 55020
1-800-637-1940 952-461-3400

Distributor Contact
NDS Drilling Supply, Inc.
26041 Newton Circle
Elko New Market, MN 55020
1-800-637-1940 952-461-3400



**FXF (FF-FXF)
 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.

OPTIONAL EQUIPMENT

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

Suction Connection: 2 1/2" NPT 125#

Discharge Connection: 2" NPT 300#

Jackshaft Extension

Diameter: 1.94"

Length: 5.0"

Keyway: 4 7/8" L x 1/2" W x 1/2" H

Dimensions: Length 67.4", Width 30.1", Height 13.5"

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

***MODEL DESIGNATIONS**

MODEL	FF-FXF	FF-FXF
Mud Service	FXFB	FXFA
Grout & Cement Service	FXFD	FXFC
Oil Service	FXFE	FXFJ
General Service	FXFG	FXFH
Bronze Fitted (Water Svc)	FXFF	N/A
Stroke	5"	5"
Liner Size		
Maximum	4"	4.5"
Minimum	2.5"	4"
Fluid End Type	Cast Iron One Piece	Cast Iron One Piece

MATERIAL SPECIFICATIONS

COMPONENT	GENERAL SERVICE	MUD, GROUT & CEMENT	OIL SERVICE	WATER SERVICE
Cylinder	Cast Iron	Cast Iron	Cast Iron	Cast Iron
Liners	Hardened Steel	Hardened Steel	Hardened Steel	Bronze
Suction Manifold	Cast Iron	Cast Iron	Cast Iron	Cast Iron
Discharge Manifold	Integral with Cylinder	Integral with Cylinder	Integral with Cylinder	Integral with Cylinder
Packing	Braided Polymer	Molded Convex	Braided Polymer	Braided Polymer
Piston	Iron with Pacing Rings	Steel Body with Nitrile Rubber	Iron with Pacing Rings	Bronze with Pacing Rings
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

POWER END:	
COMPONENT	MATERIAL
Eccentric	Cast Iron
Connecting Rods	Cast Iron
Crossheads	Cast Iron
Main Bearing	Tapered Roller
Connecting Rod Bearing	Bronze
Crosshead Pin Bearing	Bronze

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



For additional information contact your local representative or
 Gardner Denver Compressor and Pump Division,
 1800 Gardner Expressway, Quincy, Illinois 62301
 Customer Service Department
 Telephone: (800) 682-9868 FAX: (217) 224-7814
 Sales and Service in all major cities.