



FXD (FC-FXD) Two-Piece Fluid End DUPLEX POWER PUMP

SPECIFICATIONS:

Maximum BHP

Mud Service: 83 (62 kw)
Ind'l. Service: 109 (81 kw)

Maximum Jackshaft RPM

Mud Service: 390
Ind'l. Service: 510

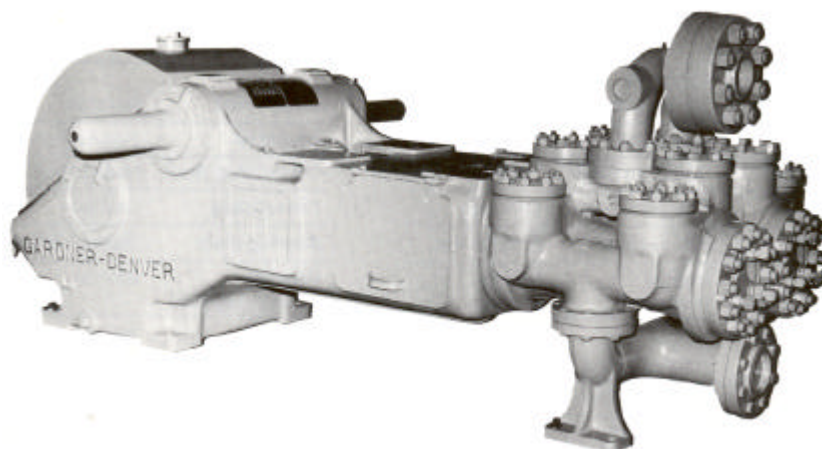
No. of Pistons: 2

Stroke Length: 10 in. (203 mm)

Piston Rod Load: 11270 lbs. (5,112 kg)

Oil Capacity: 14 gal. (53 liters)

Pump Weight: 6,235 lbs. (2,828 kg)



PERFORMANCE RATINGS

FXD DUPLEX INDUSTRIAL PUMP for Oil Line, Mining and Industrial Service																
		Normal Operation							** Maximum Recommended Operation							
Model	Stroke	Liner Size Diameter		Displacement		Max Pump RPM	Jack-shaft RPM	Input HP at Max. Speed	Displacement		Max Pump RPM	Jack-shaft RPM	Input HP at Max. Speed	*** Maximum Working Pressure	Maximum Piston Load	
		in.	mm	gpm	lpm				gpm	lpm				psi	kg/cm ²	
FXD(*)	10" (254 mm)	5	127.0	185	700	57	342	72.8	276	1045	85	510	109	574	40	11270 lbs. (5112 kg)
		4 1/2	114.3	148	560				221	836				709	49	
		4	101.6	115	435				172	651				897	62	
		3 1/2	88.9	86	326				129	488				1171	81	
		3	76.2	61	231				91	344				1500	103	
FXD DUPLEX MUD PUMP for Mud, Grout and Cement Service																
		Normal / Maximum Recommended Operation														
Model	Stroke	Liner Size Diameter		Displacement		Max Pump RPM	Jack-shaft RPM	Input HP at Max. Speed	Displacement		Max Pump RPM	Jack-shaft RPM	Input HP at Max. Speed	*** Maximum Working Pressure	Maximum Piston Load	
		in.	mm	gpm	lpm				gpm	lpm				psi	kg/cm ²	
FXD(*)	10" (254 mm)	5	127.0	211	799	65	390	83	276	1045	85	510	109	574	40	11270 lbs. (5112 kg)
		4 1/2	114.3	169	640				221	836				709	49	
		4	101.6	131	496				172	651				897	62	
		3 1/2	88.9	98	371				129	488				1171	81	
		3	76.2	70	265				91	344				1500	103	

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.



FXD (FC-FXD) 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 2500#

Jackshaft Extension

Diameter: 3.25"

Length: 12.38"

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

Dimensions: Length 106", 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	FC-FXD
Mud Service	FXDD
Grout & Cement Service	FXDH
Oil Service	FXDM
General Service	FXDU
Bronze Fitted (Water Service)	FXDQ
Stroke	6"
Liner Size	
Maximum	5"
Minimum	2.5"
Fluid End Type	Cast Iron Two Piece

MATERIAL SPECIFICATIONS

COMPONENT	GENERAL SERVICE	MUD, GROUT and CEMENT	OIL SERVICE	WATER SERVICE	POWER END:	
					COMPONENT	MATERIAL
Cylinder	Cast Steel	Cast Steel	Cast Steel	Cast Steel	Eccentric	Nodular 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	Nodular Iron	Nodular Iron	Nodular Iron		
Valve	Iron Wing Guided	Steel Wing Guided	Steel Wing Guided	Bronze Wing Guided		
Valve Seats	Steel	Steel	Steel	Bronze		

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

**Gardner
Denver**



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.

9/01

www.motralec.com
service-commercial@motralec.com