



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

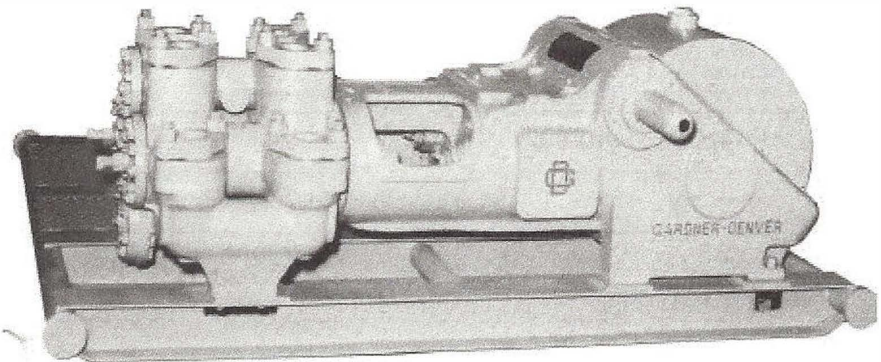
No. of Pistons: 2

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																
				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/cm2	
FXX(*)	8" (203 mm)	5 1/2	139.7	200	757	63	297	46	317	1200	100	471	73	338	24	8,036 lbs. (3645 kg)
FXX(*)		5	127.0	164	621				260	984				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															
				Normal / Maximum Recommended Operation											
Model	Stroke	Liner Size Diameter		Displacement		Max Pump RPM	Jack-shaft RPM	Input HP at Max. Speed	*** Maximum Working Pressure	Maximum Piston Load					
		in.	mm	gpm	lpm				psi	kg/cm2					
FXX(*)	8" (203 mm)	5 1/2	139.7	222	840	70	330	52	338	24	8,036 lbs. (3645 kg)				
FXX(*)		5	127.0	182	689				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.

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



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
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	Cast Iron	Cast Iron	Cast Iron	Cast Iron
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	Nodular 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.

**Gardner
 Denver**



For additional information contact your local representative or

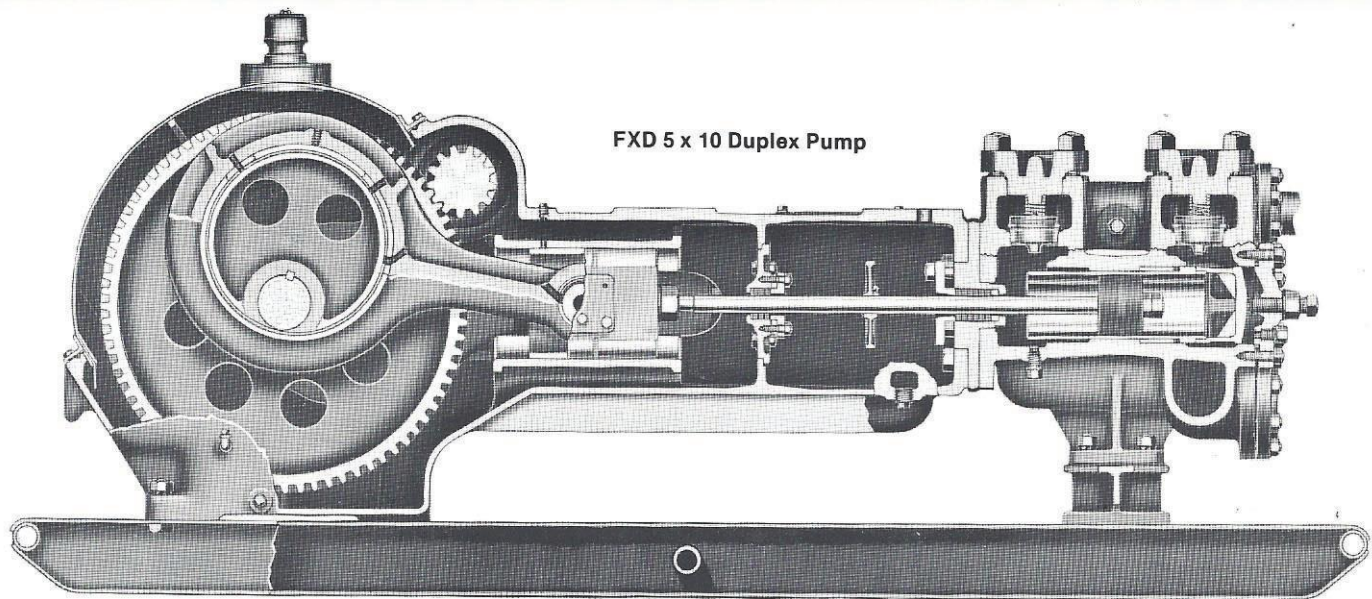
Gardner Denver Compressor and Pump Division,
 1800 Gardner Expressway, Quincy, Illinois 62301
 Customer Service Department
 Telephone: (800) 682-9868 FAX: (217) 224-7814

Sales and Service in all major cities.

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GARDNER-DENVER FX DUPLEX PUMPS

52 to 487 Gallons Per Minute Displacement



SIZES AND RATINGS - FX DUPLEX PUMPS FOR MUD AND CEMENT SERVICE

Size Number and Stroke	† Liner Size Diameter		Displacement		Maximum Pressure		Maximum Piston Load		Max Pump RPM	Jack-shaft RPM	Input HP at Maximum Speed	Pipe Sizes				Approximate Weight Without Skid	
	In	mm	GPM	BPH	PSI	Kg/cm 2	Lb	Kg				Suction		Discharge		Lb	Kg
												In	mm	In	mm		
FF-FXF 5" (127 mm)	4½	114.3	121	173	197	13.85					16.2						
	4	101.6	94.4	135	250	17.58					16.2						
	3½	88.9	72.3	103	326	22.92	3140	1424	90	439	16.2	2½	64	2	51	1475	669
	3	76.2	52.4	75	444	31.22					15.9						
	2½	63.5	35.6	50.9	639	44.93					15.6						
FG-FXG 6" (152mm)	5	127.0	150	214	310	21.80					32						
	4½	114.3	121	173	385	27.07					32						
	4	101.6	94.9	136	492	34.59	6122	2777	75	354	32	4	102	2	51	2330	1057
	3½	88.9	71.9	103	646	45.42					32						
	3	76.2	52.0	74.3	895	62.93					32						
FD-FXX 8" (203mm)	5½	139.7	222	317	338	23.76					51.5						
	5	127.0	182	260	409	28.76					51.1						
	4½	114.3	146	209	505	35.51	8036	3645	70	330	50.6	4	102	3	76	4775	2166
	4	101.6	113	161	640	45.00					49.6						
	3½	88.9	84.7	121	836	58.78					48.6						
	3	76.2	59.9	85.6	1136	79.87					46.7						
*FC-FXX 8" (203mm) Divided Fluid End	5	127.0	182	260	409	28.76					51.1						
	4½	114.3	146	209	505	35.50	8036	3645	70	330	50.6	4	102	3	76	5065	2297
	4	101.6	113	161	640	45.00					49.6						
	3½	88.9	84.7	121	836	58.78					48.6						
	3	76.2	59.9	85.6	1136	79.87					46.7						
FY-FXX 8" (203mm) Divided Fluid End	7½	190.5	420	600	182	12.80					52.4						
	7¼	184.2	391	559	195	13.71					52.3						
	7	177.8	365	521	209	14.69					52.3						
	6¾	171.5	322	460	217	15.26	8036	3645	70	330	52.2	6	152	4	102	5925	2688
	6½	165.1	313	447	242	17.02					52.0						
	6	152.4	266	380	284	19.97					51.8						
	5½	139.7	222	317	338	23.76					51.5						
	5	127.0	182	260	409	28.76					51.1						
FD-FXD 10" (254mm)	5½	139.7	257	367	475	33.40					83.8						
	5	127.0	211	301	574	40.36					83.1						
	4½	114.3	169	241	709	49.85	11,270	5112	65	390	82.2	4	102	3	76	6065	2751
	4	101.6	131	187	897	63.07					80.6						
	3½	88.9	98.3	140	1171	82.33					79.0						
	3	76.2	69.6	99.4	1500	105.47					71.6						
*FC-FXD 10" (254mm) Divided Fluid End	5	127.0	211	301	574	40.36					83.1						
	4½	114.3	169	241	709	49.85	11,270	5112	65	390	82.2	4	102	3	76	6235	2828
	4	101.6	131	187	897	63.07					80.6						
	3½	88.9	98.3	140	1171	82.32					79.0						
	3	76.2	69.6	99.4	1594	112.07					76.1						
FY-FXD 10" (254 mm) Divided Fluid End	7½	190.5	487	696	255	17.93					85.2						
	7¼	184.2	454	649	273	19.19					85.0						
	7	177.8	423	604	292	20.53					84.8						
	6¾	171.5	392	560	315	22.15	11,270	5112	65	390	84.7	6	152	4	102	7075	3209
	6½	165.1	364	520	339	23.84					84.7						
	6	152.4	308	440	398	27.98					84.1						
	5½	139.7	257	367	475	33.40					83.8						
	5	127.0	211	301	574	40.36					83.1						
FXO-FXO 10" (254mm) Divided Fluid End	5	127.0	223	319	772	54.28					118.2						
	4½	114.3	179	256	951	66.86	15,150	6872	70	329	116.8	4	102	3	76	8300	3765
	4	101.6	138	197	1206	84.79					114.2						
	3½	88.9	102	146	1500	105.47					105.0						
FO-FXO 10" (254mm) Divided Fluid End	7½	184.2	486	694	367	25.80					122.4						
	7¼	177.8	452	646	393	27.63					121.9						
	7	171.5	419	599	423	29.74	15,150	6872	70	329	121.6	6	152	3	76	10500	4763
	6¾	165.1	388	554	457	32.13					121.7						
	6½	152.4	328	469	536	37.69					120.7						
	5½	139.7	273	390	638	44.86					119.5						
	5	127.0	223	319	772	54.28					118.2						

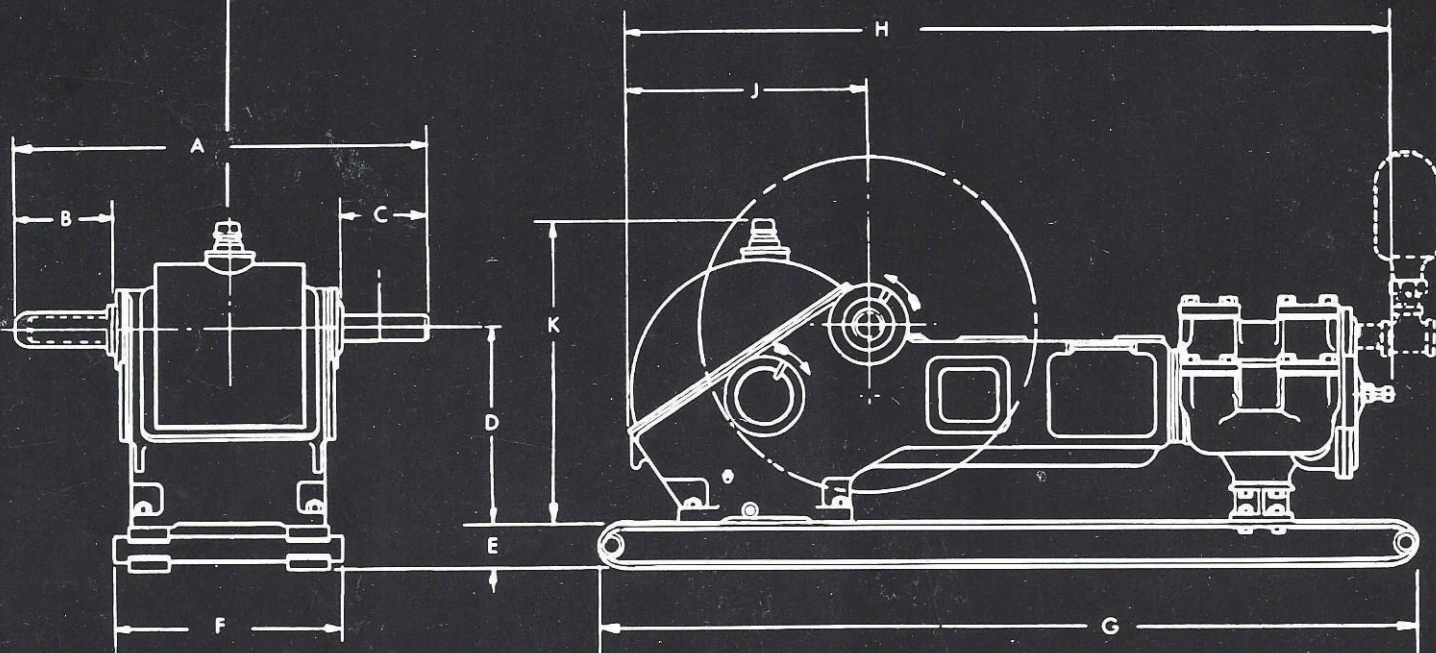
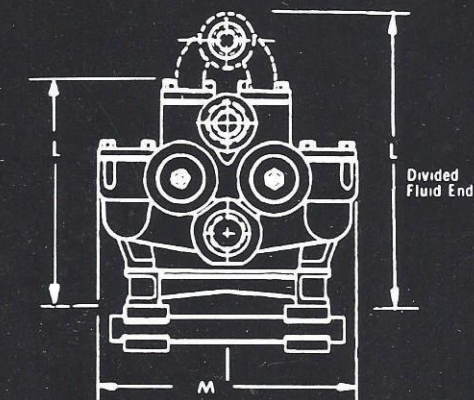
*Cast steel fluid cylinders tested to 7000 pounds available as extra equipment.

†Fluid cylinder liners and pistons are interchangeable in all sizes in the tables except for FF cylinders fitted with 4½" parts and FD cylinders fitted with 5½" parts.

GARDNER-DENVER

FX PUMP DIMENSIONAL DATA

Pump Model		A	B	C	D	E	F	G	H	J	K	L	M
FF-FXF	In.	30.1	6.3	5.0	13.5	4.0	24.5	70.0	67.4	22.7	13.5	18.7	25.0
	mm	765	160	127	343	102	622	1778	1712	577	343	475	635
FG-FXG	In.	35.4	7.4	6.1	15.5	6.3	24.0	87.5	79.3	24.6	23.3	21.0	29.6
	mm	899	188	155	394	160	610	2223	2014	625	592	533	752
FD-FXX	In.	49.8	10.3	9.0	21.7	4.0	32.0	108.0	96.9	28.5	31.0	27.0	36.3
	mm	1265	262	229	551	102	813	2743	2461	724	787	686	922
*FC-FXX	In.	49.8	10.3	9.0	21.7	4.0	36.0	108.0	95.4	28.5	31.0	*36.0	33.8
	mm	1265	262	229	551	102	914	2743	2423	724	787	914	859
FY-FXX	In.	49.8	10.3	9.0	26.7	6.0	36.0	112.0	104.1	28.5	36.0	36.3	42.0
	mm	1265	262	229	678	152	914	2845	2644	724	914	922	1067
FD-FXD	In.	59.4	14.6	12.4	28.0	6.0	34.5	116.0	107.1	34.0	42.5	32.0	36.3
	mm	1509	371	315	711	152	876	2946	2720	864	1080	813	922
*FC-FXD	In.	59.4	14.6	12.4	28.0	6.0	33.5	113.1	106.0	34.0	42.5	*43.0	33.8
	mm	1509	371	315	711	152	851	2873	2692	864	1080	1092	859
FY-FXD	In.	59.4	14.6	12.4	28.0	6.0	32.8	122.0	115.6	34.0	42.5	36.3	42.0
	mm	1509	371	315	711	152	833	3099	2936	864	1080	922	1067
FXO-FXO	In.	63.8	16.8	13.0	27.9	8.1	35.0	132.0	116.8	36.5	51.5	43.3	41.0
	mm	1621	427	330	709	206	889	3353	2967	927	1308	1100	1041
FO-FXO	In.	63.8	16.8	13.0	27.9	8.1	35.0	139.0	122.3	36.5	51.5	47.1	49.0
	mm	1621	427	330	709	206	889	3531	3106	927	1308	1196	1245



Specifications subject to change without notice.
Sales and Service Offices in all principal cities.

For additional information, contact your local representative or Cooper Petroleum Equipment Div./Gardner-Denver, 1800 Gardner Expressway, Quincy, Illinois 62301. (217) 222-5400, Telex 40-4332



**GARDNER-DENVER
PETROLEUM EQUIPMENT**