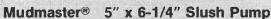
### NDS Home Page

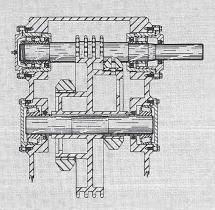


### GEORGE E. FAILING CO.

#### **MODEL FM-45**







The **Failing** Model FM-45 is a duplex reciprocating type power slush pump designed for maximum volume without sacrifice of working pressure and compactness.

Its power end is a rugged, one-piece unit with integral supports for jackshaft and eccentric shaft bearings. The cover is removable for easy access to the power end mechanism. Main sprocket and eccentrics are cast in one piece and keyed to a straight alloy steel shaft. These shafts are roller bearing mounted and power is transmitted by a high speed quadruple roller chain.

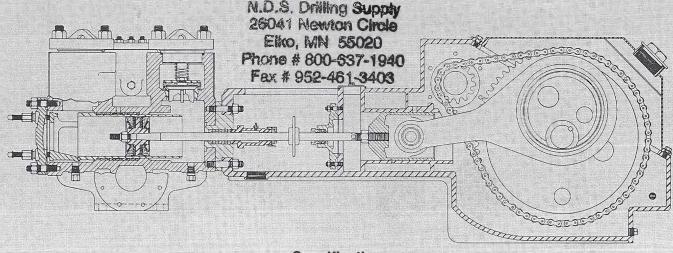
Connecting rods are one-piece steel with renewable eccentric bushings and bronze crosshead bushings. The one-piece skirt type cast alloy crosshead is reinforced at all

load areas.

Fluid end of the FM-45 is a one-piece casting with conventional pot type valves. Steel studs secure valve covers, flanges and plates to the fluid end, and fluid end to power end.

All bearings are sealed in individual pressure gun lubricated housings. Eccentrics, chain, crossheads and pins are lubricated from the power end reservoir through normal movement of parts.

Failing lubricator type packing glands provide positive lubrication to piston rods. This pump is equipped with Failing Mudmaster® pistons, hardened liners, rods and valves.



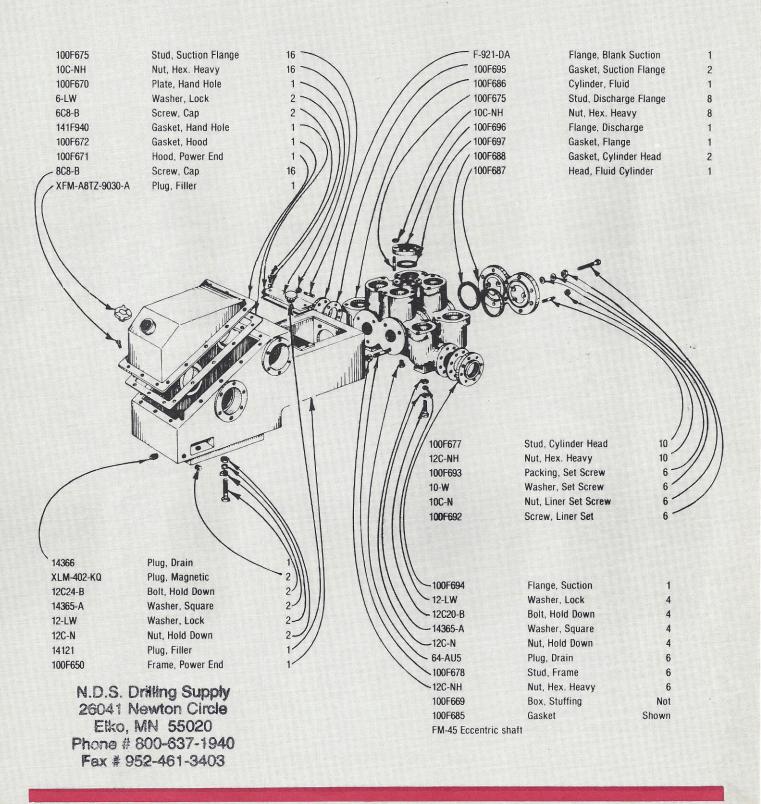
#### **Specifications**

Size, Ins.			Displacement			R.P.M.			Pipe Size			Approx. O.A. Dim. Ins.		
Dia. of Fluid Cylinder	Length of Stroke	Max. Pressure (Lbs. Per Sq. In.)	Dis placement U.S. Gals. per Min. (Rods Deducted)	Approx. Barrels Per Hr. (42 U.S. Gal.)	Brake H.P. at Max. Pressure	Crank- shaft	Jack- shaft	Max. Plunger Load (Lbs.)	Suc- tion	Dis- chg.	Approx. Wt. of Pump (Lbs.)	Height	Width of Mud End	Length
			Model FM-4	5 — 900 Po	unds Wor	king Pre	ssure -	– 1800 P	ound	ds T	est Pressu	re		4
5	WAY SE	310	104-208	149-297	23-46									
41/2		385	84-168	120-240	23-46									
4	61/4	492	66-132	94-188	23-46	50 -100	236-473	6320	4	2	2630	26-9/16	321/4	80-13/16
31/2		646	50-100	71-143	23-46									
3	U. Driver	895	36-72	52-103	22.5-45									

## Slush Pump Parts

#### **MODEL FM-45 PARTS DRAWINGS**

Frame

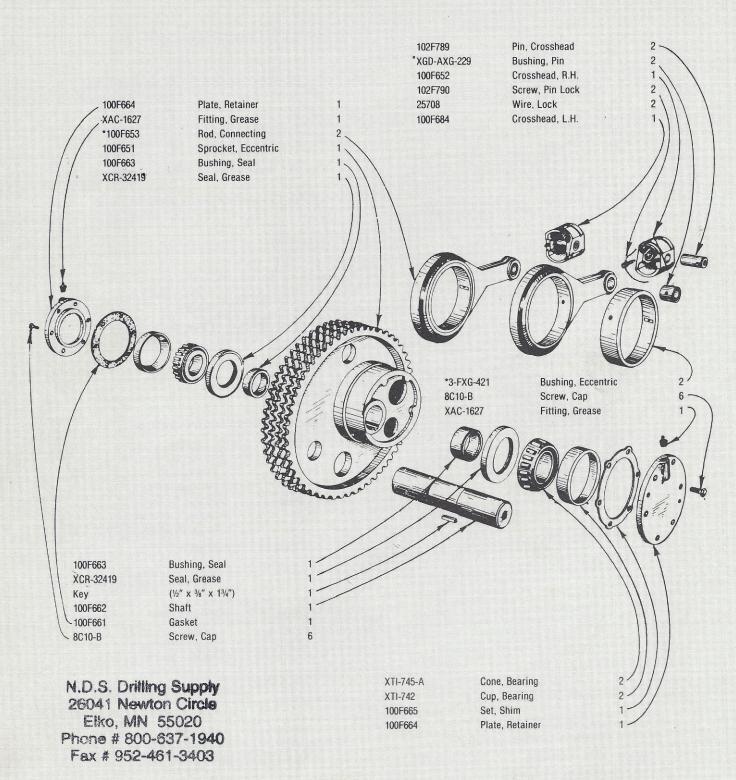




# GEORGE E. FAILING CO.

#### **MODEL FM-45 PARTS DRAWINGS**

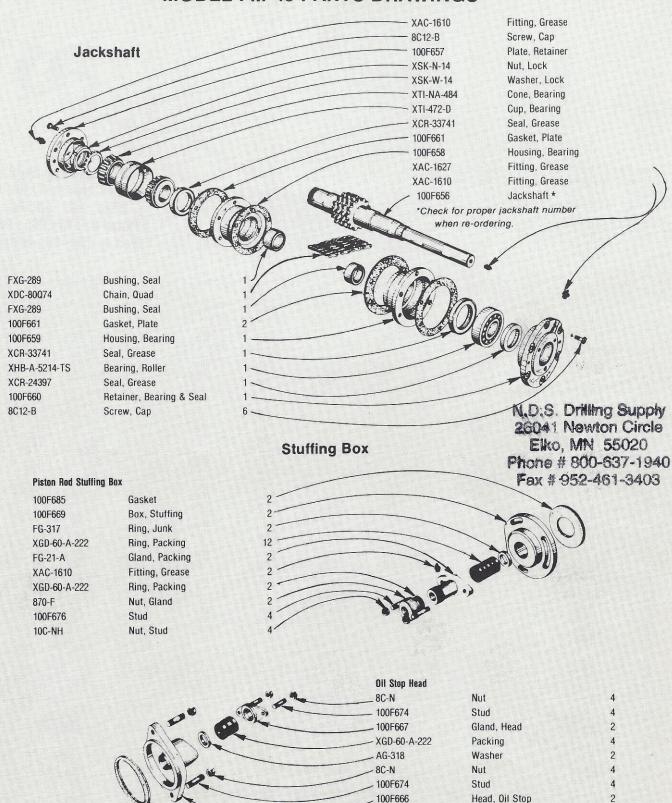
#### **Eccentric Shaft**



\*Part of 146F830 Connecting Rod Assembly

### Slush Pump Parts

#### **MODEL FM-45 PARTS DRAWINGS**



100F668

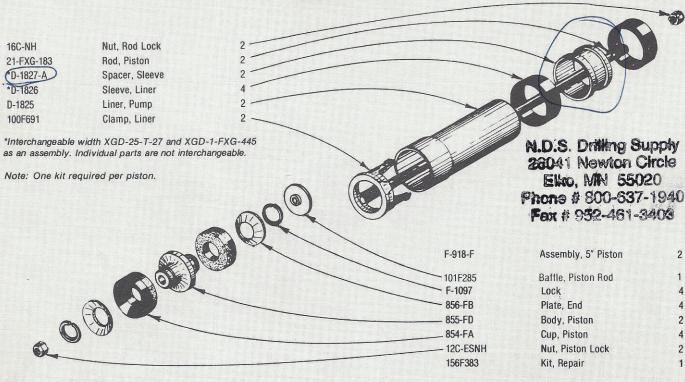
Gasket

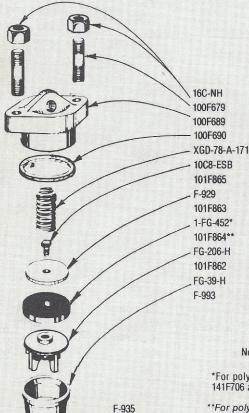


# GEORGE E. FAILING CO.

#### **MODEL FM-45 PARTS DRAWINGS**







Assembly, Mud Valve

#### **Valve Assemblies**

Nut, Stud Stud, Cover Plate, Cover Gasket Spring, Valve Bolt Bolt Washer, Valve Washer, Valve Insert, Valve Valve Valve Valve Seat, Valve Seat, Valve

Note: 8 Valves Req'd. Per Pump

\*For polyurethane inserts, order 140F838 insert or 141F706 assembly.

\*\*For polyurethane inserts, order 140F839 insert or 141F743 assembly.

