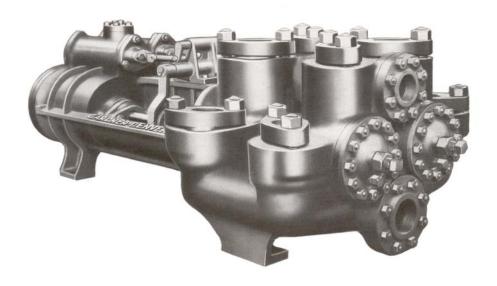


# DFS (FD-FS) HIGH PRESSURE **DUPLEX STEAM PUMP** Air • Steam • Gas Driven



### **SPECIFICATIONS:**

No. of Pistons: 2 Stroke Length: 10"

Pump Weight: 2,650 lbs.

(1,202 kg)

Fluid Cylinder **Connections** Suction: 4"

Discharge: 3"

#### **VALVE POT TYPE DUPLEX STEAM PUMPS**

With Piston Type Steam Valves - One-Piece Alloy Cast Iron Fluid End

DFS (FD-FS) SIZES AND RATINGS																			
*SIZE				Steam		Max Steam				Max Fluid		*DISPLACEMENT							
Diameter		Diameter		Longth		End		Pressure		Fluid End Suitable for		Pressure			Liters	30 RPM		60 RPM	
		Diameter of Fluid Cylinders		of		Suitable for Max Pressure		Fluid		Maxim	Maximum Pressure		with Max Steam Pressure			Gal.	Liters	Gal.	Liters
						lbs/	kg/	lbs/	kg/	lbs/	kg/	lbs/	kg/	per	per	per	per	per	per
in	mm	in	mm	in	mm	in2	cm2	in2	cm2	in2	cm2	in2	cm2	Rev.	Rev.	Min.	Min.	Min.	Min.
		5	127					400	28.1			1120	78.7	3.247	12.29	97.4	369	195	738
		4.5	114					400	28.1	Test		1380	97.0	2.601	9.84	78.0	295	156	591
10	254	4	102	10	254	400	28.1	345	24.3	Pressure	211.0	1500	105.5	2.023	7.66	60.7	230	121	458
		3.5	89					265	18.6	3000 psi		1500	105.5	1.513	5.73	45.4	172	90.8	344
		3	76					195	13.7			1500	105.5	1.071	4.05	32.1	122	64.3	243
		2.5**	64					134	9.4			1500	105.5	.697	2.64	20.9	79	41.8	158

Cylinder liners and pistons interchangeable in sizes listed in each group.

Specifications subject to change without notice.

<sup>\*</sup> Theoretical displacement with rods deducted (no slippage considered).

Stalling pressures are approximately 50% in excess of maximum fluid pressures.

\*\* Available for standard fitted, oil fitted, or brass fitted only (not mud, slush or grout fitted).



## DFS (FD-FS) High Pressure Duplex Steam Pump Air • Steam • Gas Driven

#### STANDARD EQUIPMENT

- Rods and pistons.
- Liners and valves.
- · Wood skids.
- All necessary drain cocks and plugs.

#### **OPTIONAL EQUIPMENT**

- Lubricator
- Fluid liner pullers
- · Valve seat pullers
- Surge chamber
- Steel skid
- Stainless steel valves

MODEL DESIGNATIONS					
MODEL	FD-FS				
Mud Service Fitted *	DFSB				
Grout & Cement Service *	DFSE				
Oil Service	DFSH				
General Service	DFSS				
Bronze Fitted (Water Svc)	DFSL				
Stroke	10"				
Liner Size					
Maximum	5"				
Minimum	2.5"				
Fluid End Type	Cast Iron One Piece				
*Minimum liner size 3"					

#### **MATERIAL SPECIFICATIONS**

COMPONENT	STANDARD FITTED	MUD, GROUT & CEMENT FITTED	OIL SERVICE FITTED	BOILER FEED or WATER SERVICE		
Cylinder	Cast Iron	Cast Iron	Cast Iron	Cast Iron		
Liners	Hardened Steel	Hardened Steel	Hardened Steel	Bronze		
Suction Manifold	Integral with Cylinder	Integral with Cylinder	Integral with Cylinder	Integral with Cylinder		
Discharge Integral with Manifold Cylinder		Integral with Cylinder	Integral with Cylinder	Integral with Cylinder		
Packing	Braided Polymer	Molded Convex	Braided Polymer	Braided Polymer		
Piston	Iron Follower Type	Steel Insert Type	Iron Solid Type	Bronze Follower Type		
Piston Rod	Hardened Steel	Hardened Steel	Hardened Steel	Bronze		
Stuffing Box	Cast Iron	Cast Iron	Cast Iron	Cast Iron		
Valve Steel Wing Guided		Steel (Gravel) Wing Guided	Steel Wing Guided	Bronze Wing Guided		
Valve Seats	Iron	Steel	Steel	Bronze		

	_					
STEAM END						
COMPONENT	MATERIAL					
Cylinder	Cast Iron					
Piston	Cast Iron					
	Braided					
Packing	Polymer					
r acking	Folylliel					
CONNECTIONS						
Inlet	2"					
Exhaust	2 ½"					

<sup>\*</sup>Materials listed are furnished as standard equipment. Alternate materials available upon request.



