

Freedom LFF6

Progressive Cavity Pump

Features

- * Handles majority of sanitary applications
- * Interchangeable parts with other manufacturers
- * Various sizes to fit the best for your application
- * Designed to handle viscous materials
- * Self-priming capabilities
- * Can provide continuous flow for metered applications

Pump Description

The Liberty Process Equipment Freedom Series Stainless Steel Food Grade Progressive Cavity Pumps are your best choice for sanitary Progressive Cavity Pump applications. Designed for food-grade installation, this pump allows the ease of the Liberty Series with sanitary parts. These pumps have been sized to handle fluids as thin as alcohol, spirits and soups to viscous icings, yeast and ice cream. The LFF6 series is an ideal solution for cookie dough transfer pumping in the baking industry and comes with a 2-1/2" Triclamp connection standard.

Pumps can handle applications in the Pork, Poultry & Beef markets with the option of a Hopper feed system. Many of the Freedom Series pumps have handled products such as milk, ice cream, pastry dough and more. Other industries of preference include the Cosmetics, Slurry and Specialty Waste.

Freedom Series pumps are made with Stainless Steel wetted parts. Elastomers are offered in Sanitary Buna, EPDM and Fluoroelastomer. Stock pumps are carried with Packing Seal type, but can be retrofitted with a Mechanical Seal (Single or Double). Liberty Process Equipment carries these pumps in a one stage and two stage models. Pumps are equipped with Tri-Clamp Connections and a Clean-In-Place connection can be added.

Hopper Feed System is also available for viscous material handling. Parts for these pumps are normally kept in stock or have short lead times. Please contact Liberty Process Equipment for current availability.

All pumps also have the option of being assembled as a complete Package. The Liberty Process Equipment Engineering Department will not only size a pump to meet your sanitary application, but size and provide the best Motor, equipped with Base, Coupling & Guard. Options include Speed Control, Vertical Mount/V-Belt, Valve attachment and additional engineered requirements. Package units will be mounted and assembled for complete system delivery.

Contact a Liberty Process representative today for more information about the Freedom Series. Liberty Freedom Series Progressive Cavity Sanitary Parts also work as an aftermarket solution with the Moyno™ FF6 and the Tarby™ TFF6 Series.

Materials

Rotor: 316 Stainless Steel with Chrome Plate

Stator: Food Grade Buna Nitrile, Viton™, EPDM

Motor: Up to 5 hp

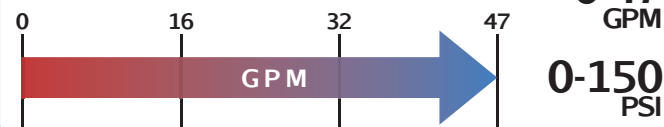
Inlet: 2-1/2" Triclamp

Outlet: 2-1/2" Triclamp

Bases: Steel and Plastic



Freedom LFF6



Curves



Single Stage



Double Stage

Please Click the Icon

Drawings



Single Stage



Double Stage

Please Click the Icon

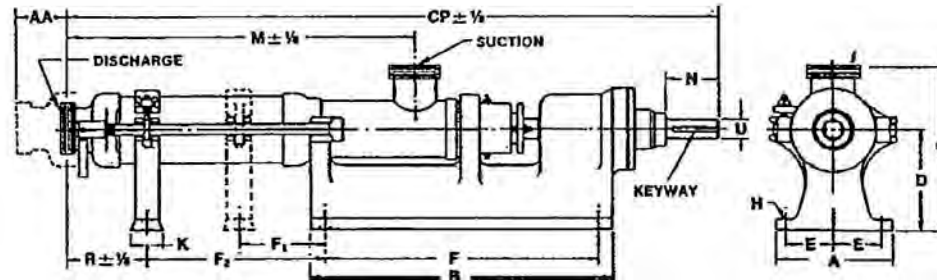
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Type FF & FG

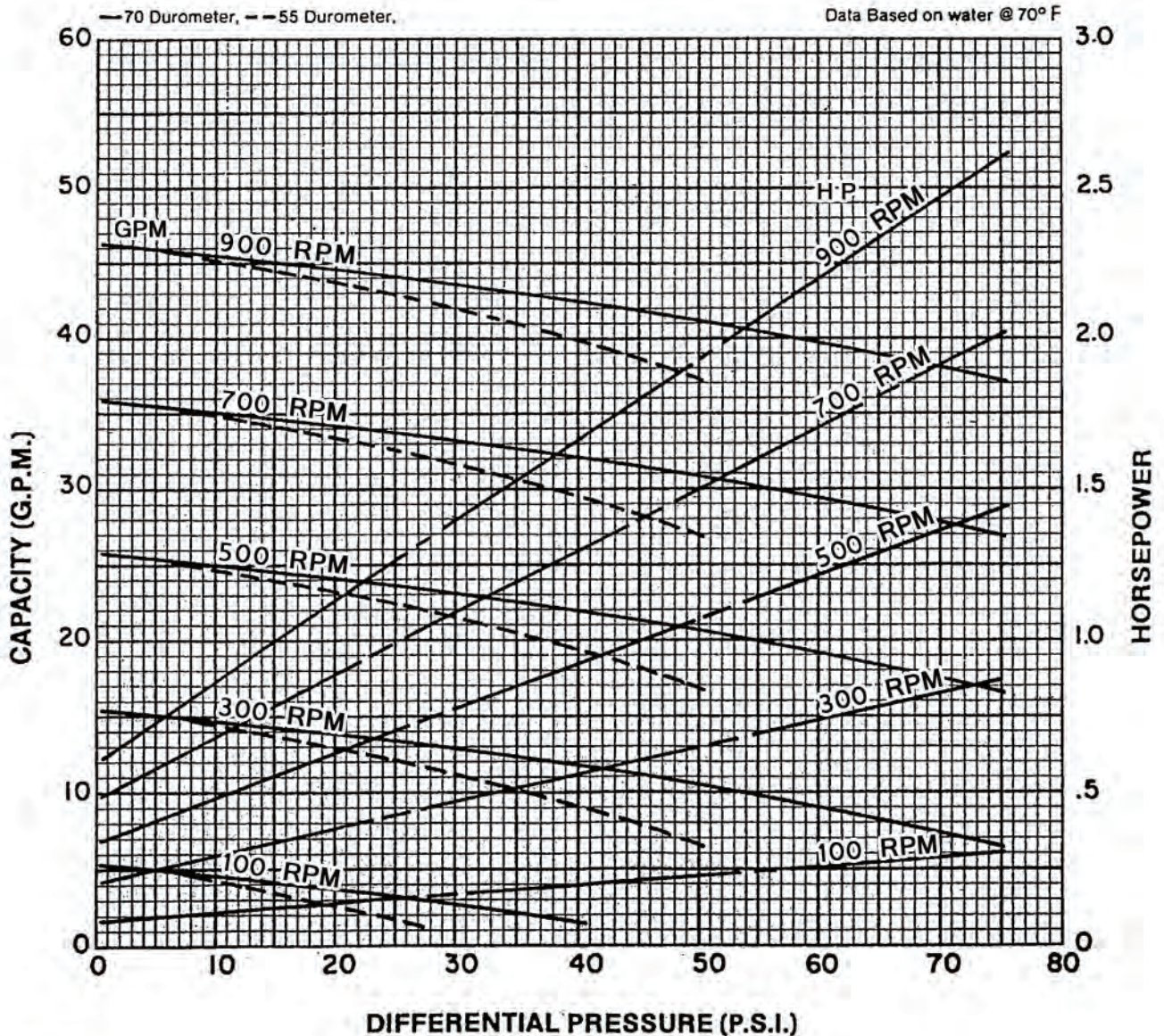
Suction and discharge connections are bevel seat with standard Acme sanitary threads.



Pump	AA	A	B	CP	D	E	F	F2	G	H	K	M	N	O	P	Q	R	S	T	U	V	W	Z	Key	Disc	LBS.
1FF4	4 7/8	6 1/4	15 1/2	32 9/16	4 7/8	14	14	5	1/2	7/16	2	18	3	7 7/8	-	-	7 1/16	-	-	15/16	-	-	-	1/4 11/8	2	52
1FF6	6 5/8	8 1/2	19	41	6 1/4	3 1/2	17	7	5/8	11/16	2 1/2	21 7/8	4 3/8	10 3/4	-	-	8	-	-	1 1/8	-	-	-	1/4 1/8	2 1/2	117
1FF8	8 5/8	11	26 1/2	54 3/8	8	4 1/2	24	11	3/4	13/16	3	27 1/2	4 1/2	14	-	-	8 1/2	-	-	1 3/8	-	-	-	3/8 3/16	4	273
1FF10	10 1/4	11	29 1/4	60 5/16	9 3/4	4 1/2	26 1/4	12	1 1/8	13/16	3	31 3/8	5	15 3/4	-	-	10 9/16	-	-	1 7/8	-	-	-	1/2 1/4	4	535
1FF10H	10 1/4	11	29 1/4	60 9/16	9 3/4	4 1/2	26 1/4	12	1 1/8	13/14	3	31 5/8	5	15 3/4	-	-	10 13/16	-	-	1 7/8	-	-	-	1/2 1/4	4	535

Freedom 1LFF6

RPM	100	300	500	700	900		
NPSH REQ'D	.6	1.7	2.9	4.1	6.9		
MIN. HP	1/3	3/4	1	1 1/2	2		



Freedom 2LFF6

RPM	100	300	500	700	900		
NPSH REQ'D	.6	1.7	2.9	4.1	6.9		
MIN. HP	1/2	1 1/2	2	3	3		

