

# Freedom LFF10H 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 is your best choice for Stainless Steel Sanitary Progressive Cavity Pump applications. Designed for food-grade installation, these pumps have been designed to handle fluids as thin as alcohol, spirits and soups to viscous icings, yeast and ice cream. The LFF10H series is an ideal solution for the juice concentrate industry and with tanker loading and unloading of juices as well as coming with a 4" Triclamp connection standard.

The Liberty Freedom Series of Sanitary progressive Cavity Pumps offer several important advantages over other types of positive displacement sanitary food grade pumps like Rotary lobe Pumps. Liberty PC Pumps have only one (1) shaft seal to maintain and do not have complicated timing gears. Liberty Freedom Series Pumps are designed for quick disassembly for cleaning and sterilizing by hand. No additional tools for cleaning are required.

Freedom Series pumps are made with highly polished 316 Stainless Steel wetted parts. Elastomers are offered in Sanitary Buna, EPDM and Fluoroelastomer. Stock pumps are carried with food grade Packing Seal type, but can be retrofitted with a Mechanical Seal (Single or Double). Pumps are equipped with Tri-Clamp Connections and a Clean-In-Place connection can be added. Hopper Feed pumps are also available for viscous material handling. Liberty also can manufacture the Freedom Series pump you purchase as a complete package including base, motor and any other requirements you may have per application.

Contact a Liberty Process representative today for more information about the Freedom Series for your sanitary pump application. Liberty Freedom Series LFF10H Progressive Cavity Sanitary Parts also work as an aftermarket pump part solution with the Moyno™ FF10H and the Tarby™ TFF10H Series\*.

Contact a Liberty Process representative today for more information about the Freedom Series.

## Materials

**Rotor:** *Chrome Plated Stainless Steel*

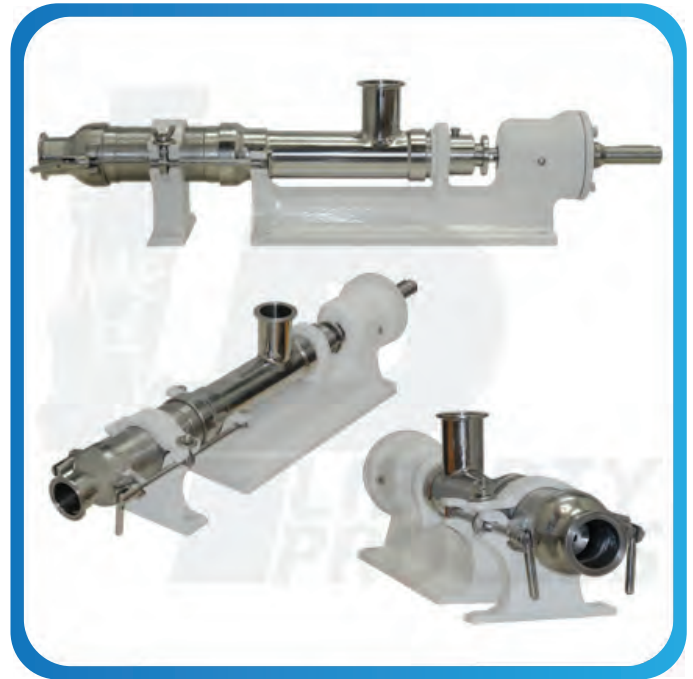
**Stator:** *Buna, Viton™, EPDM*

**Motor:** *Up to 10 hp*

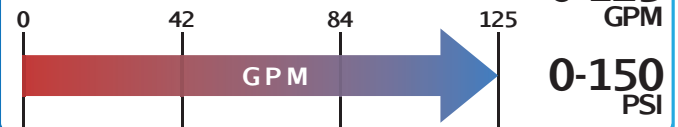
**Inlet:** *4" Triclamp*

**Outlet:** *4" Triclamp*

**Bases:** *Steel and Plastic*



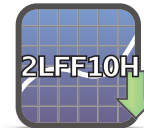
Freedom LFF10H



## Curves



Single Stage



Double Stage

Please Click the Icon

## Drawings



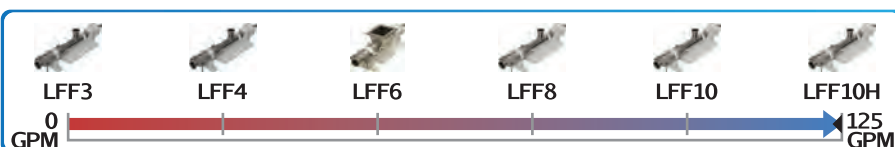
Single Stage



Double Stage

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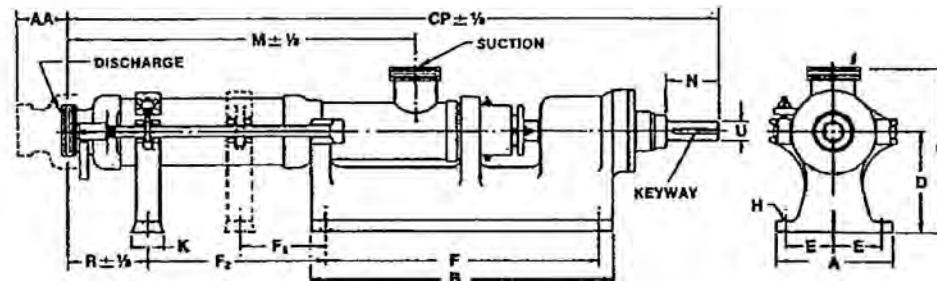
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## Type FF & FG

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

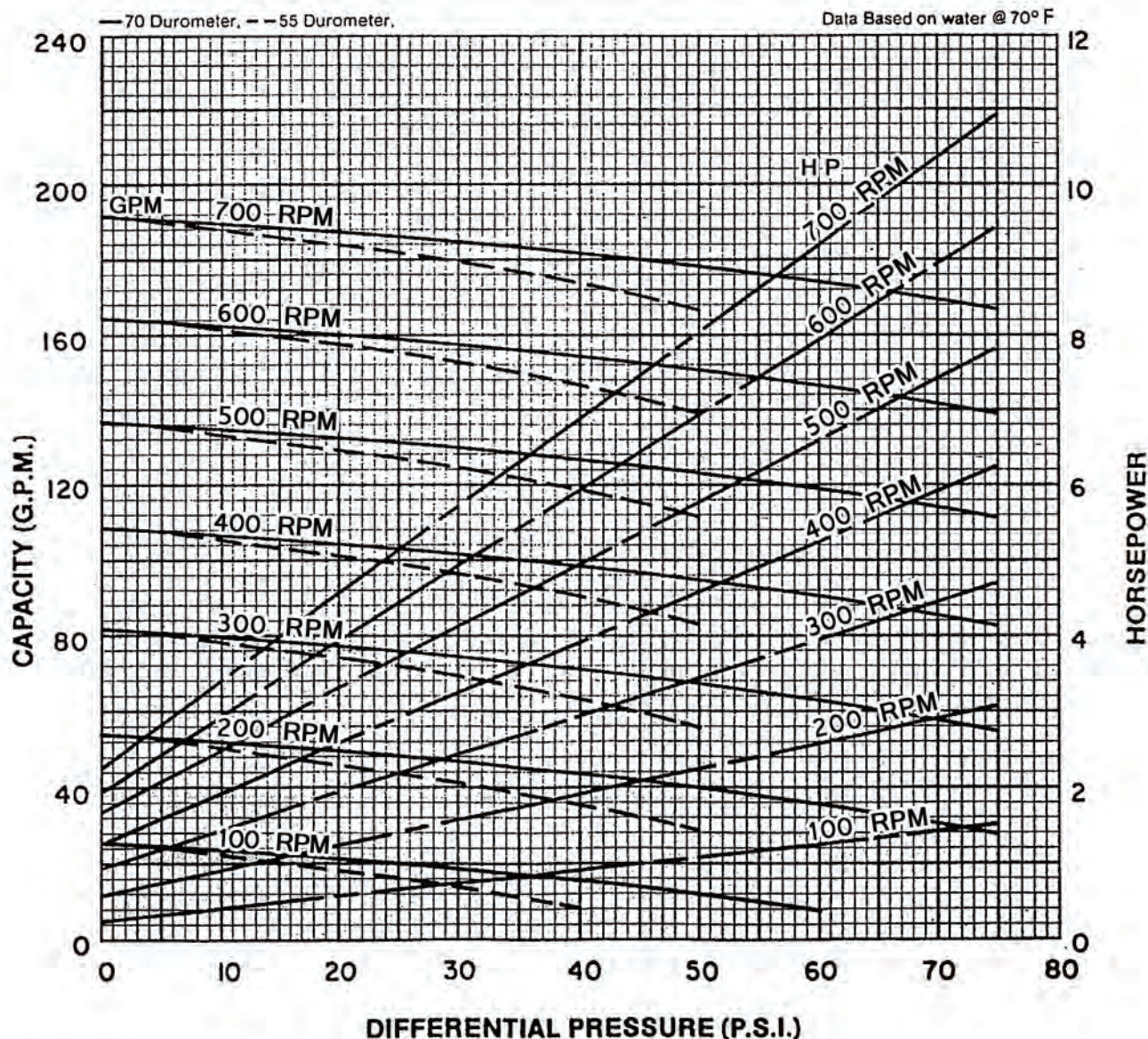


Pump	AA	A	B	CP	D	E	F	F2	G	H	K	M	N	O	P	Q	R	S	T	U	V	W	Z	Key	Disc	LBS.
1FF4	4 7/8	6 1/4	15 1/2	32 9/16	4 7/8	14	14	5	1/2	7/16	2	18	3	7 7/8	-	-	7 1/16	-	-	15/16	-	-	-	1/4 11/8	2	52
1FF6	6 5/8	8 1/2	19	41	6 1/4	3 1/2	17	7	5/8	11/16	2 1/2	21 7/8	4 3/8	10 3/4	-	-	8	-	-	1 1/8	-	-	-	1/4 1/8	2 1/2	117
1FF8	8 5/8	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 1LFF10H

RPM	100	200	300	400	500	600	700
NPSH REQ'D	1.1	2.1	3.2	4.7	7.4	9.9	12.6
MIN. HP	1	2	3	5	5	7 1/2	7 1/2





# Freedom 2LFF10H

RPM	100	200	300	400	500	600	700
NPSH REQ'D	1.1	2.1	3.2	4.7	7.4	9.9	12.6
MIN. HP	2	5	5	7½	10	10	15

