

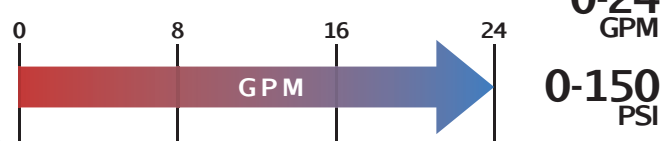


# FREEDOM SERIES - LFF4

Progressive Cavity Pump



Freedom LFF4



## 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

## Materials

**Rotor:** 316 Chrome-Plated Stainless Steel

**Stator:** Food Grade Buna Nitrile, Viton™, EPDM

**Motor:** Up to 5 hp

**Inlet:** 2" Triclamp

**Outlet:** 2" Triclamp

**Bases:** Steel and Stainless Steel

## Pump Description

The Liberty Process Equipment Freedom Series Stainless Steel Sanitary Food Grade Progressive Cavity Pump is your best choice for 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 LFF4 series is an ideal solution for jelly and jam injection in the baking industry and comes with a 2" 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 LFF4 Freedom Series Progressive Cavity Sanitary Parts also work as an aftermarket pump part solution with the Moyno™ FF4 and the Tarby™ TFF4 Series.

## Curves

[Click Links Below](#)

1-Stage  
**1LFF4**

2-Stage  
**2LFF4**

## Drawings

[Click Links Below](#)

1-Stage  
**1LFF4**



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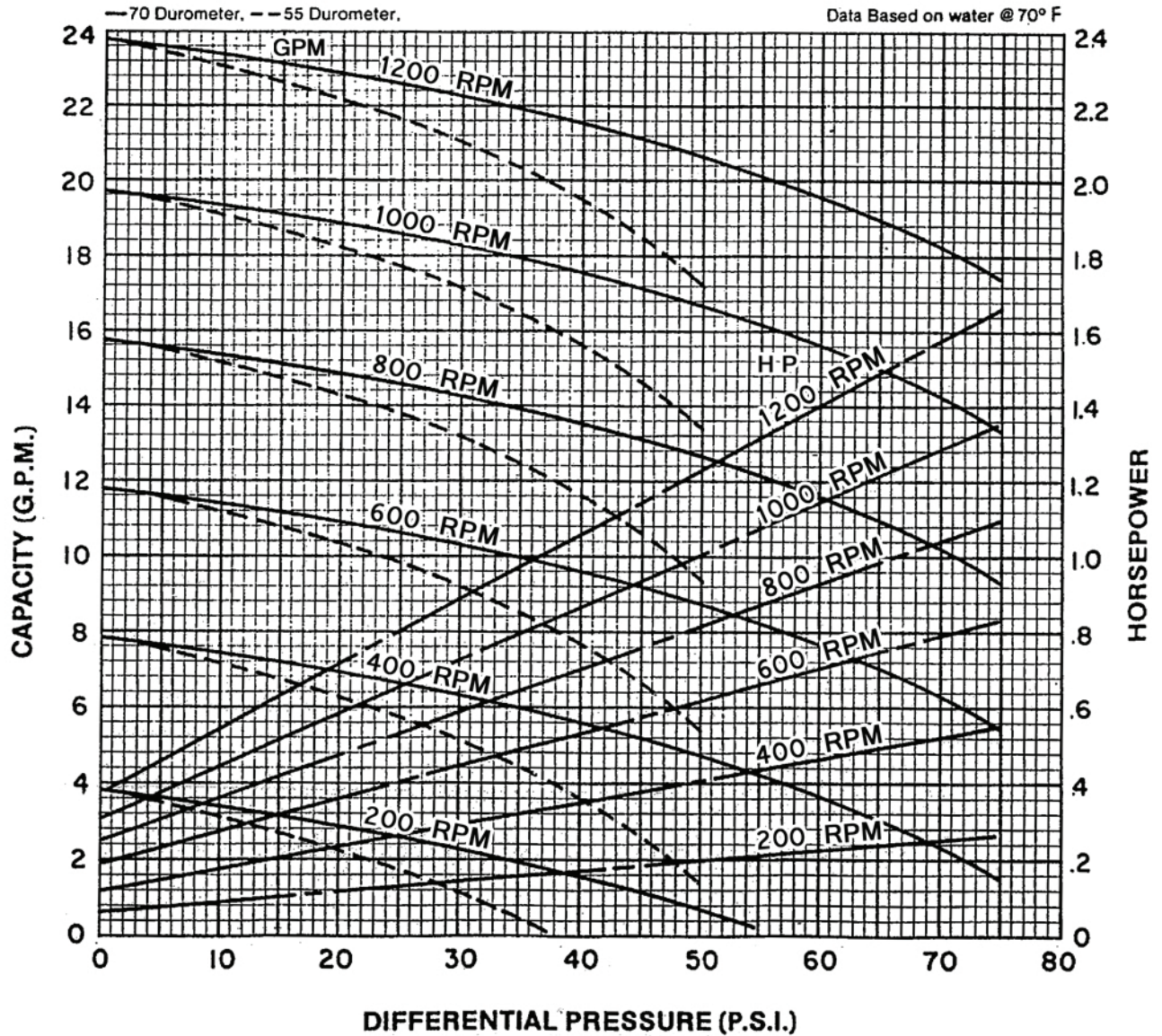


# FREEDOM SERIES - 1LFF4

Progressive Cavity Pump

Performance Curves

RPM	200	400	600	800	1000	1200	
NPSH REQ'D	.9	1.7	2.6	3.4	4.8	6.7	
MIN. HP	1/3	1/2	1/2	3/4	1	1	





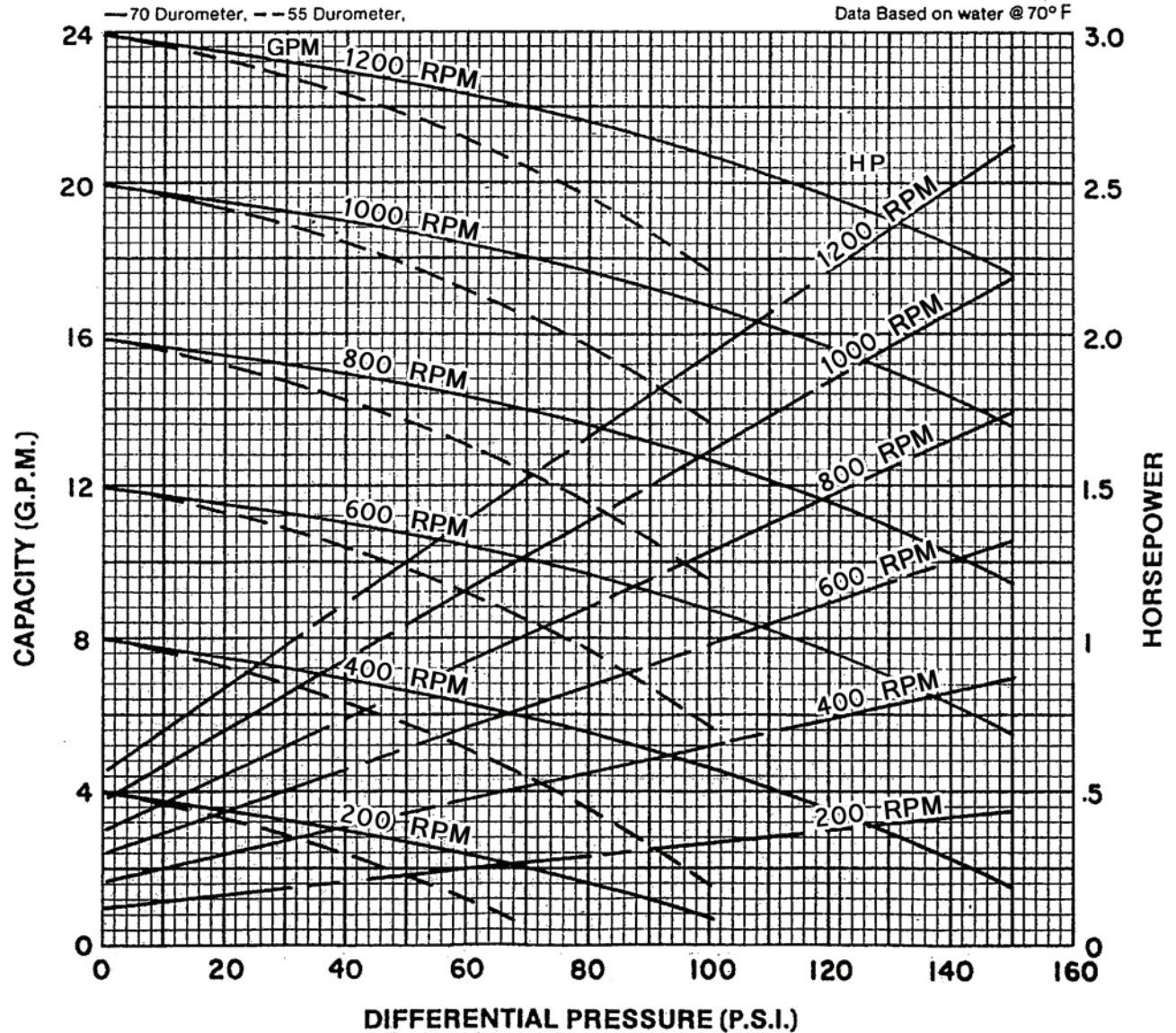


# FREEDOM SERIES - 2LFF4

Progressive Cavity Pump

Performance Curves

RPM	200	400	600	800	1000	1200	
NPSH REQ'D	.9	1.7	2.6	3.4	4.8	6.7	
MIN. HP	1/3	1/2	3/4	1	1 1/2	1 1/2	





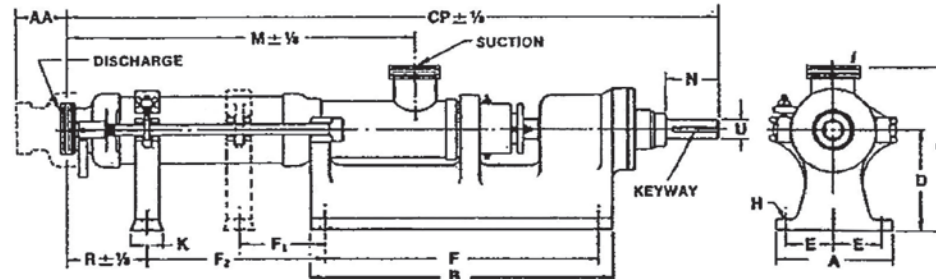
# FREEDOM SERIES - 1LFF4

Progressive Cavity Pump

Dimensional Drawings

## 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	2	52

BACK TO TOP

**1 Stage Pump**

Net weight

≈ lbs.

52

ALL DIMN: Inches

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