

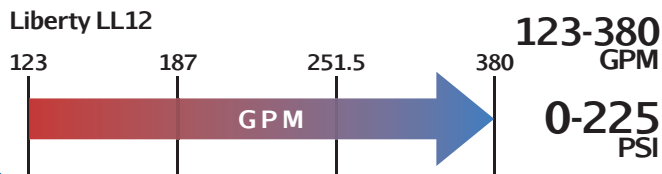


# LIBERTY SERIES - LL12

## Progressive Cavity Pump



### Liberty LL12



## Features

- Modular Design
- Maintenance Free
- Easy Assembly/Disassembly
- Simple Pin Joint Design
- Non-Pulsating Low Shear
- NPT Discharge Connection

## Materials

**Rotor:** Tool Steel & Stainless Steel, Chrome-Plated

**Stator:** Buna, Rubber, Viton™, EPDM

**Motor:** 3, 5, 7.5, 10, 15, 20, and 25 hp

**Inlet:** 8"

**Outlet:** 6"

**Bases:** Carbon Steel and Stainless Steel

## Pump Description

The Liberty LL12 Progressive Cavity Pump is an ideal industrial-sized heavy-duty pumping unit for abrasive pumping applications like thickened grease, scum and slurries. The Liberty LL12 Series PC Pump is a standard flanged pump manufactured with cast iron or 316 stainless steel casings and designed in 1, 2, and 3 stages for 75, 150 and 225 psi discharge pressures.

The pump unit is a modular design with simple hardened pinned joint drive assembly. Rotors are typically hardened tool steel or 316 stainless steel with a hard chrome plating for long life in abrasive and erosive applications. All other wetted parts are either carbon steel or 316 stainless steel for added durability.

Stators are available in many elastomer materials such as buna, natural rubber, epdm and viton. The standard seal design is a set of gland packing with Lantern Ring and Flush Connections. Mechanical seal options are readily available. The Liberty unit is a low-cost, maintenance free, dependable drop-in replacement pump which will give you the service you need at a price you can afford.

The Liberty LL12 Progressive Cavity Pump parts are direct aftermarket replacements that work with the Moyno™ L12 Series, Tarby™ TL12 Series and Continental™ CL12 Series.\*

Contact a Liberty Process representative today for more information about the LL12 Series.

## Curves

Click Links Below

1-Stage  
**1LL12**

2-Stage  
**2LL12**

3-Stage  
**3LL12**

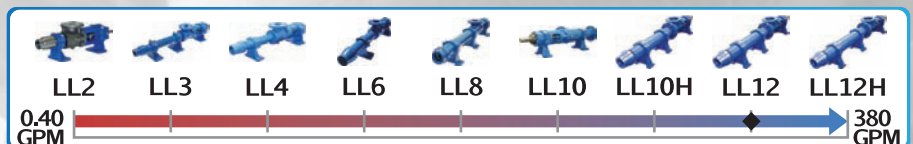
## Drawings

Click Links Below

1-Stage  
**1LL12**

2-Stage  
**2LL12**

3-Stage  
**3LL12**



P: 847.640.7867 F: 847.640.7855  
2525 Clearbrook Drive Arlington Heights, IL 60005

[www.libertyprocess.com](http://www.libertyprocess.com)

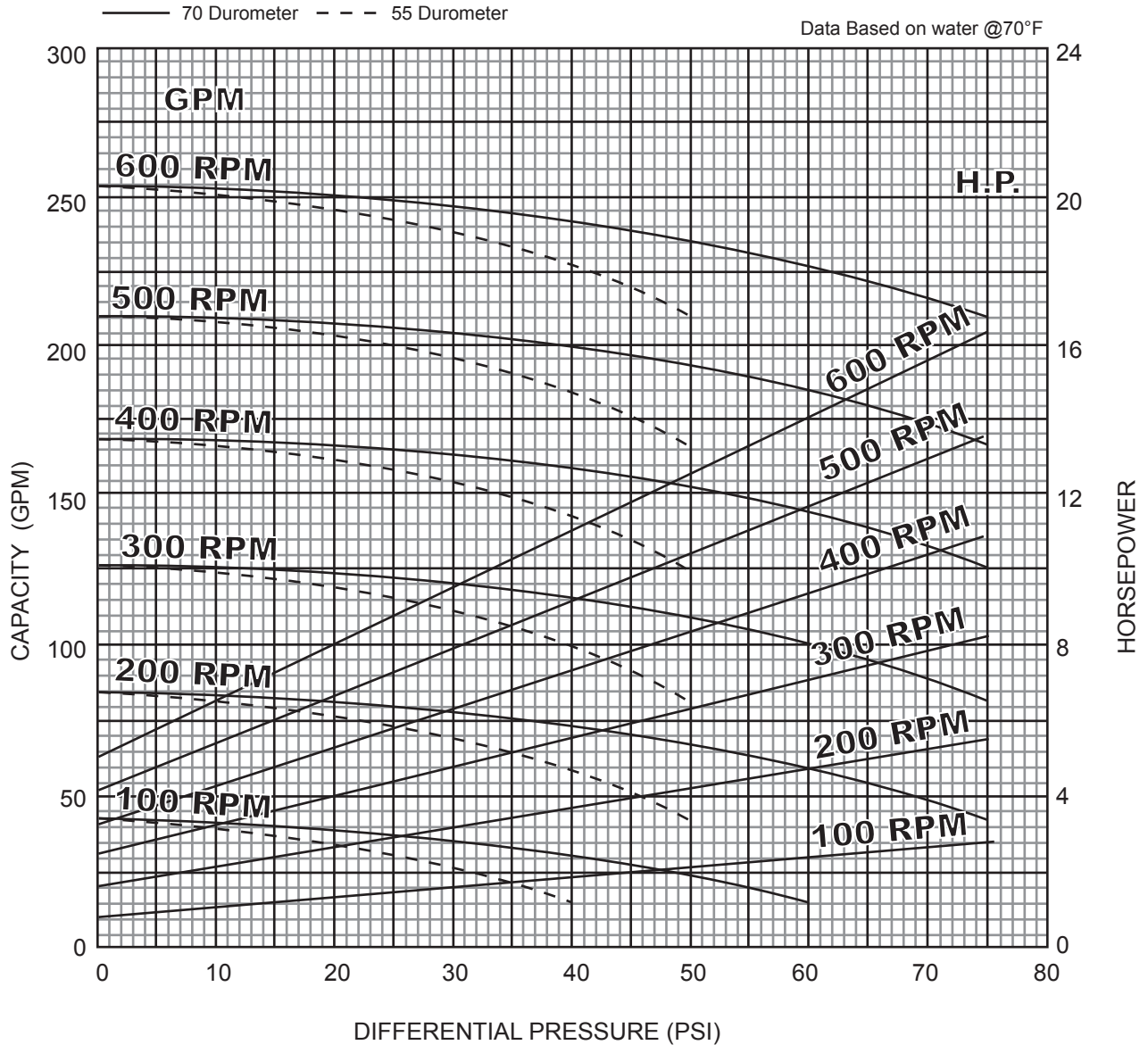


# LIBERTY SERIES - 1LL12

Progressive Cavity Pump

Performance Curves

RPM	100	200	300	400	500	600
NPSH REQ'D	1.2	2.3	3.4	5.6	8.4	11.2
MIN. HP	3	5	5	7-1/2	10	10



**1 Stage Pump**

[BACK TO TOP](#)

P: 847.640.7867 F: 847.640.7855  
2525 Clearbrook Drive Arlington Heights, IL 60005

[www.libertyprocess.com](http://www.libertyprocess.com)

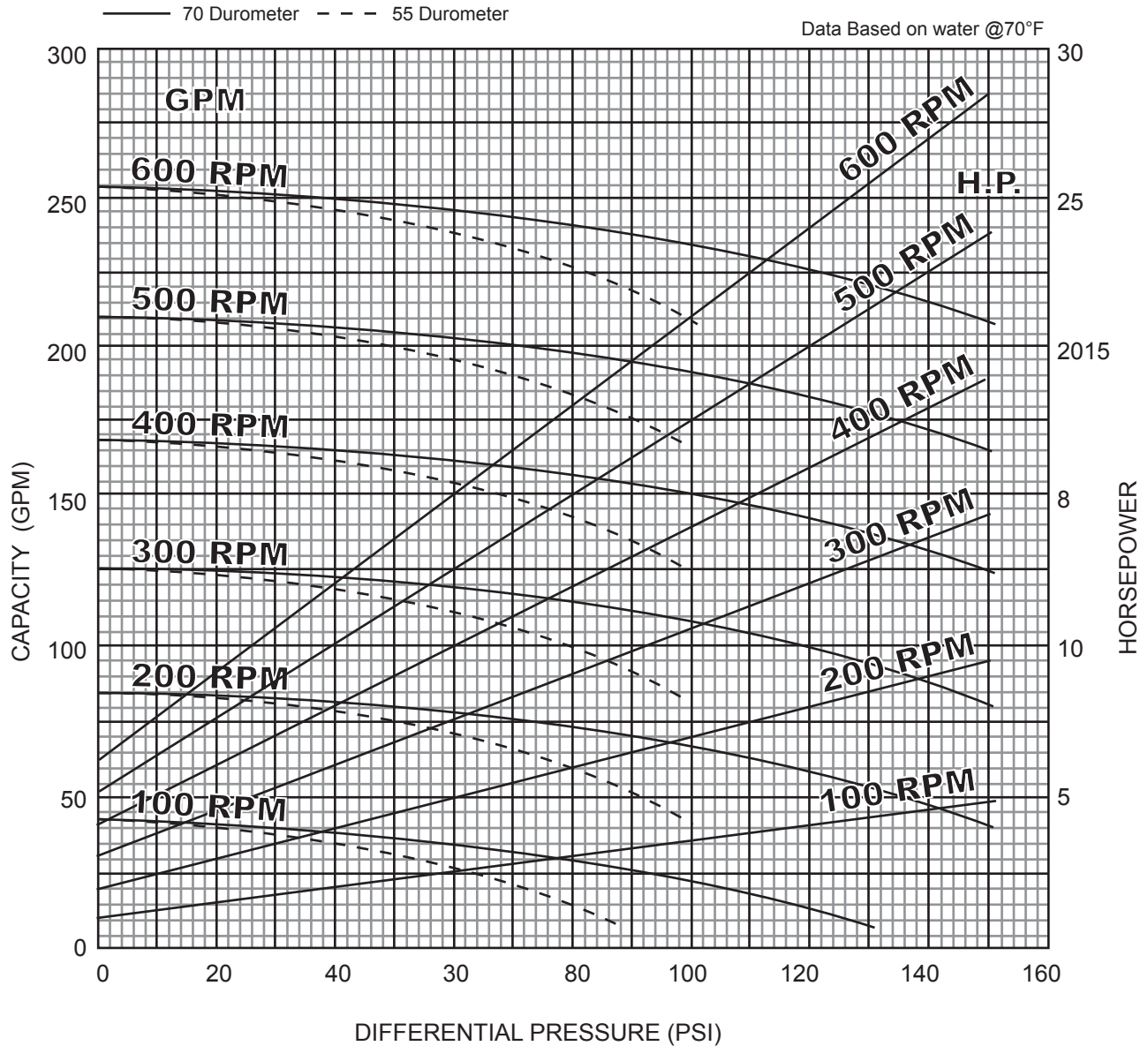


# LIBERTY SERIES - 2LL12

Progressive Cavity Pump

Performance Curves

RPM	100	200	300	400	500	600
NPSH REQ'D	1.2	2.3	3.4	5.6	8.4	11.2
MIN. HP	5	7-1/2	10	15	15	20



**2 Stage Pump**

[BACK TO TOP](#)

P: 847.640.7867 F: 847.640.7855  
2525 Clearbrook Drive Arlington Heights, IL 60005

[www.libertyprocess.com](http://www.libertyprocess.com)

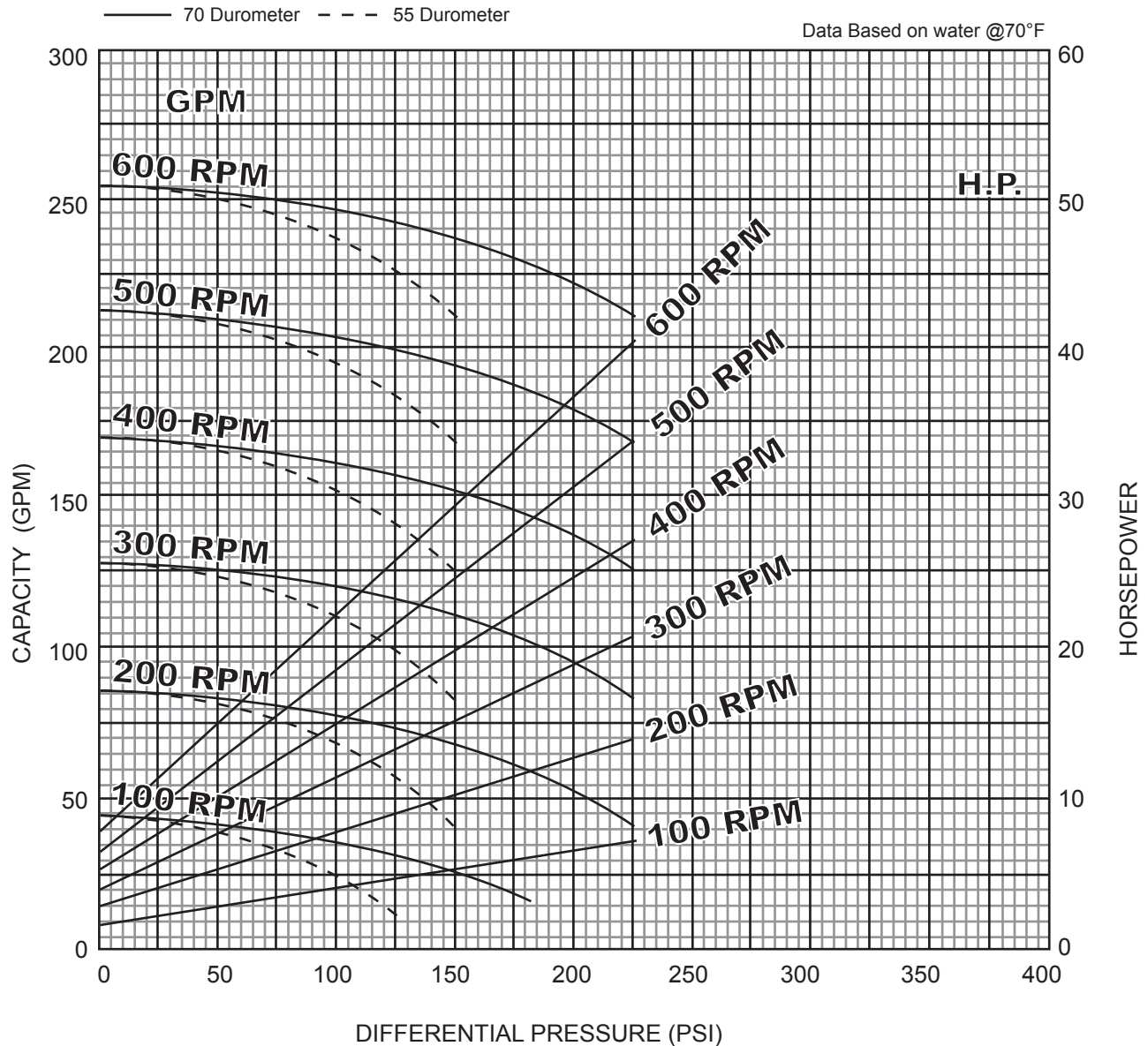


# LIBERTY SERIES - 3LL12

Progressive Cavity Pump

Performance Curves

RPM	100	200	300	400	500	600
NPSH REQ'D	1.2	2.3	3.4	5.6	8.4	11.2
MIN. HP	5	10	15	15	20	25



**3 Stage Pump**

[BACK TO TOP](#)

P: 847.640.7867 F: 847.640.7855  
2525 Clearbrook Drive Arlington Heights, IL 60005

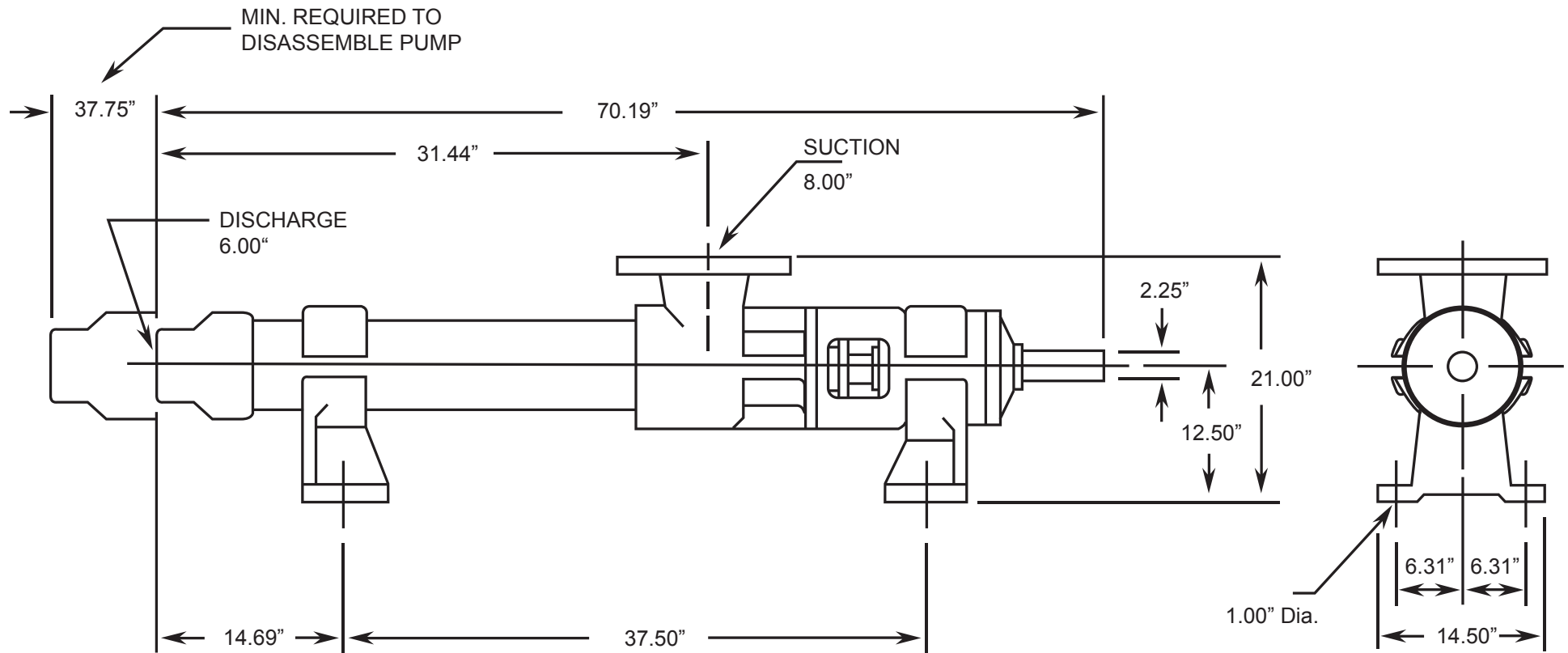
[www.libertyprocess.com](http://www.libertyprocess.com)



# LIBERTY SERIES - 1LL12

Progressive Cavity Pump

Dimensional Drawings



BACK TO TOP

**1 Stage Pump**

Net weight

≈ lbs.

**880**

ALL DIMN: Inches

P: 847.640.7867 F: 847.640.7855  
2525 Clearbrook Drive Arlington Heights, IL 60005

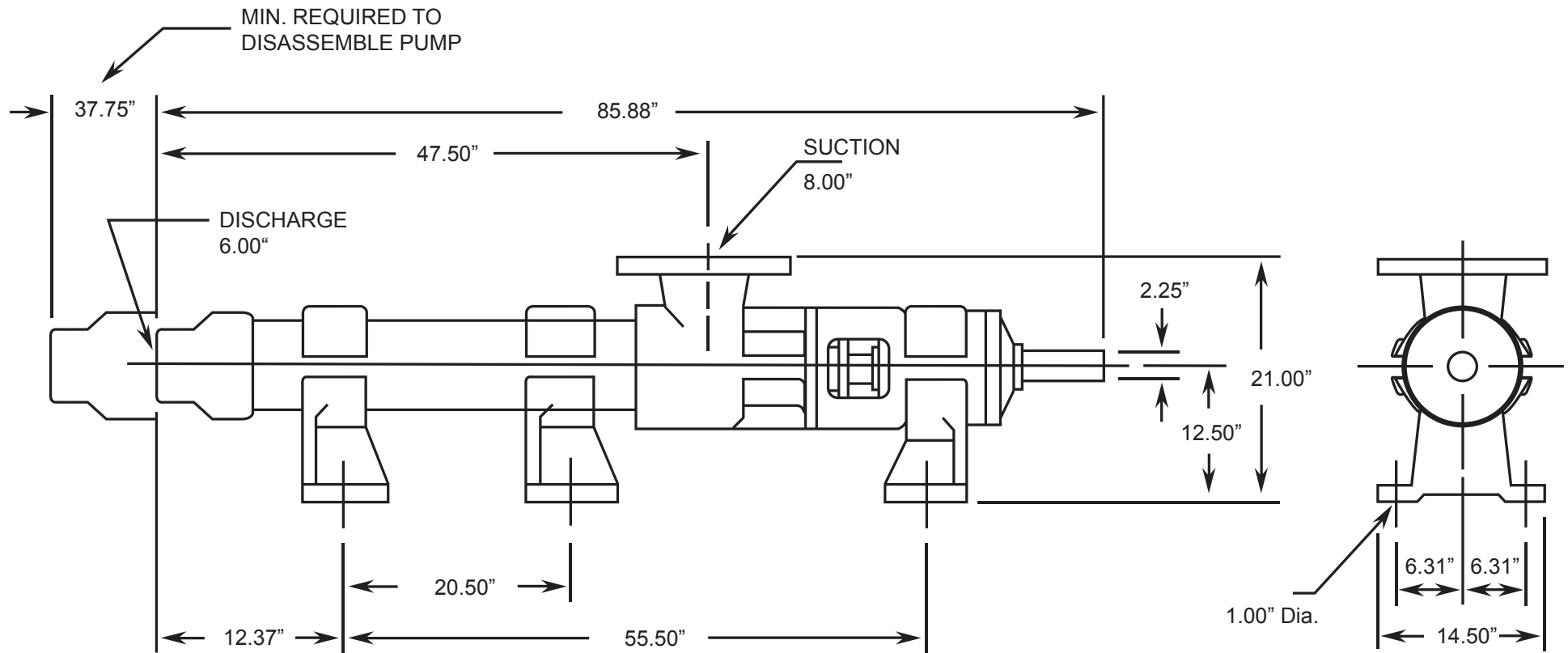
[www.libertyprocess.com](http://www.libertyprocess.com)



# LIBERTY SERIES - 2LL12

Progressive Cavity Pump

Dimensional Drawings



[BACK TO TOP](#)

Net weight

≈ lbs.

**1075**

ALL DIMN: Inches

**2 Stage Pump**

P: 847.640.7867 F: 847.640.7855  
2525 Clearbrook Drive Arlington Heights, IL 60005

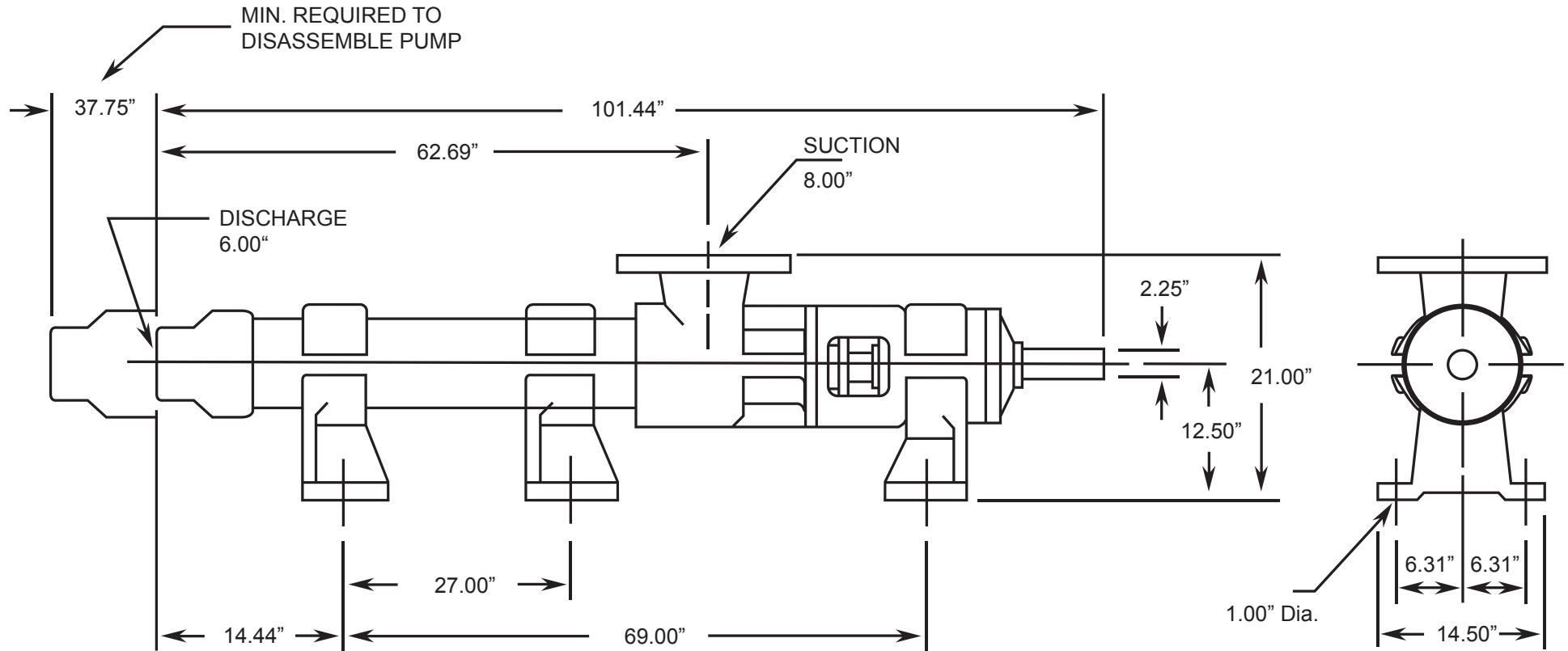
[www.libertyprocess.com](http://www.libertyprocess.com)



# LIBERTY SERIES - 3LL12

Progressive Cavity Pump

Dimensional Drawings



BACK TO TOP

**3 Stage Pump**

Net weight

≈ lbs.

**1200**

ALL DIMN: Inches

P: 847.640.7867 F: 847.640.7855  
2525 Clearbrook Drive Arlington Heights, IL 60005

[www.libertyprocess.com](http://www.libertyprocess.com)