

Justice LJ3

Progressive Cavity Pump

Features

- * Large Hopper
- * Welded Auger
- * Hardened Joints
- * Packing or Mechanical Seal
- * 3-Stage Options
- * Steel or Stainless Steel

Pump Description

The Liberty Justice Series Open Hopper Progressive Cavity Pump represents an ideal low-flow pumping solution for viscous solutions with high solids contents such as sludges and slurries, wine must, pulp and paper and adhesives and other low-flowable pumping mediums. Flow rates of .86 GPM per 100 Revolutions (0 GPM to 4 GPM) at up to 225 PSI are standard through the range of the series. The Justice Series offers a design of a heavy-duty auger mated to a rotor and stator for the most difficult pumping applications.

The large rectangular feed hopper design easily accommodates your pumping medium while the non-pulsating design of the product produces a low-shear flow that conveys your medium along effortlessly. Solids in suspension of up to 50% are accommodated by the Auger design.

The modular design of the Justice LJ3 Series Open Hopper Progressive Cavity pump is a hardened pinned-joint drive assembly with a body available in steel or 316 stainless steel and internal wetted components in either stainless steel or hardened tool steel with hard chrome plating for long-life and durability in abrasive pumping applications.

Rotors and Stators for the Justice LJ3 Series are available in 1, 2, and 3 stages for applications with 75, 150, and 225 PSI discharge pressures with stators available in Buna Nitrile, Viton, EPDM and Natural Rubber. The standard seal design is a set of packing with a lantern ring and flush connections. Mechanical Seal options are readily available.

The Liberty LJ3 Progressive Cavity Pump parts are direct aftermarket replacements that dimensionally interchange with the Moyno™ J3 Series, and the Tarby™ TJ3 Series.*

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

Materials

Rotor: Tool or Stainless Steel - Chrome-Plated

Stator: Buna, Rubber, Viton™, EPDM

Motor: 1/2, 1, 1.5, and 2 hp

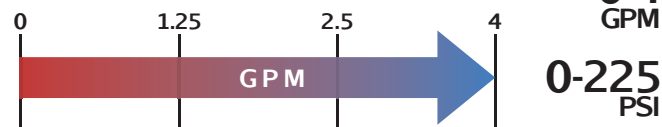
Inlet: 10" x 5"

Outlet: 1-1/4"

Bases: Steel and Stainless Steel



Justice LJ3



Curves



Single Stage



Double Stage



Triple Stage

Please Click the Icon

Drawings



Single Stage



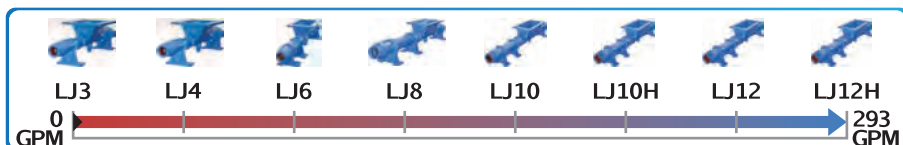
Double Stage



Triple Stage

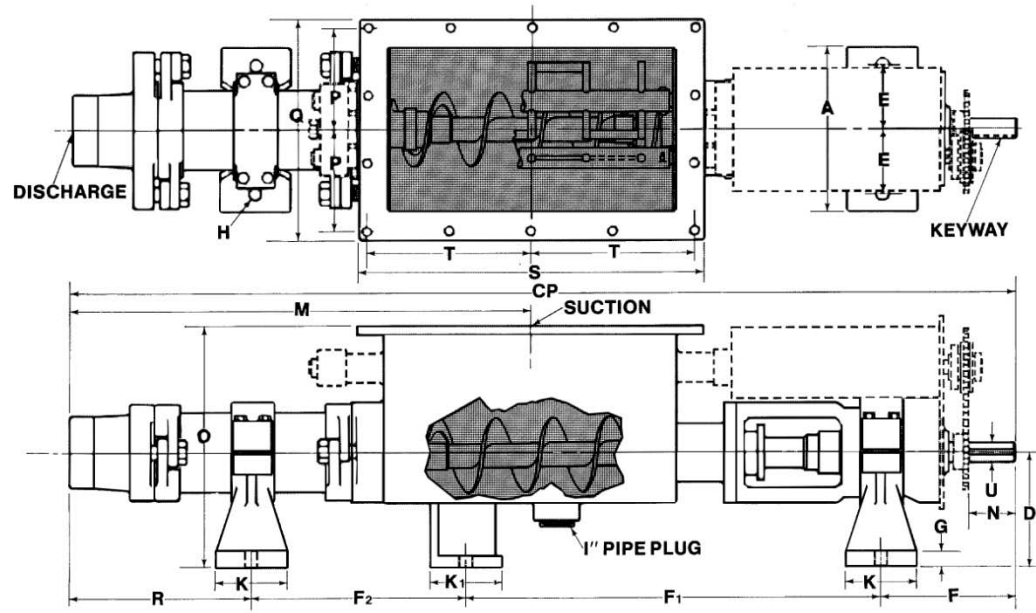
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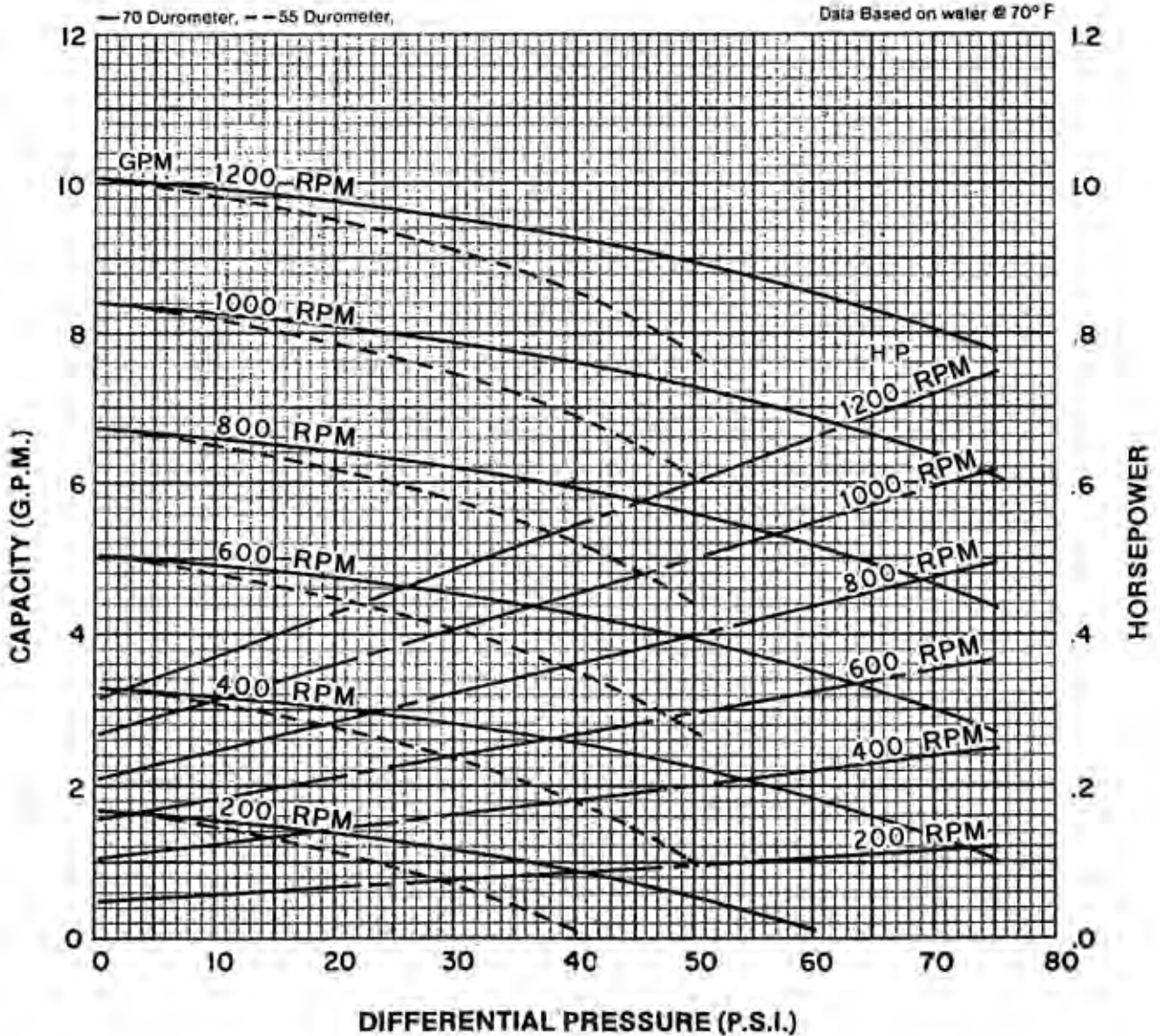
Justice Series Drawings



Pump	CP	A	D	E	F	F1	F2	G	H	H1	I	K	K1	M	N	O	P	Q	R	S	T	U	V	W	Key	Disc	Lbs.
2LJ3	35-3/8	5-3/8	4-1/8	2-1/8	5-11/16	14-1/4	7-1/2	1/2	7/16	9/16	1	3	1-3/8	18-5/16	2-1/8	8-1/4	3-7/8	9	7-15/16	13-3/4	6-1/4	3/4	9-3/4	5	3/16x3/32	1-1/4	87.5
2LJ4	45-1/4	7	5-1/2	2-3/4	7	18-5/16	10	5/8	9/16	3/4	1-1/4	3-1/2	2	23-1/2	3-1/8	11	5	11-1/2	9-15/16	16-1/4	7-3/8	15/16	11-3/4	7	1/4x1/8	2	157.5
2LJ6	61-1/4	8-5/8	6-1/4	3-1/2	8-9/16	25	14-1/2	11/16	11/16	3/4	2	4	4	33-7/8	4-3/8	12-1/2	5-1/2	12-1/2	13-3/16	19	8-3/4	1-1/8	14-1/2	8	1/4x1/8	2-1/2	258
2LJ8	74-7/8	11-1/2	8	4-1/2	9-1/4	28-5/16	20-1/2	1-7/8	7/8	3/4	2	5	5	41-1/16	4-5/8	16	6-1/2	14-1/2	16-3/16	24-1/2	11-1/2	1-3/8	20	10-1/2	3/8x3/16	4	478

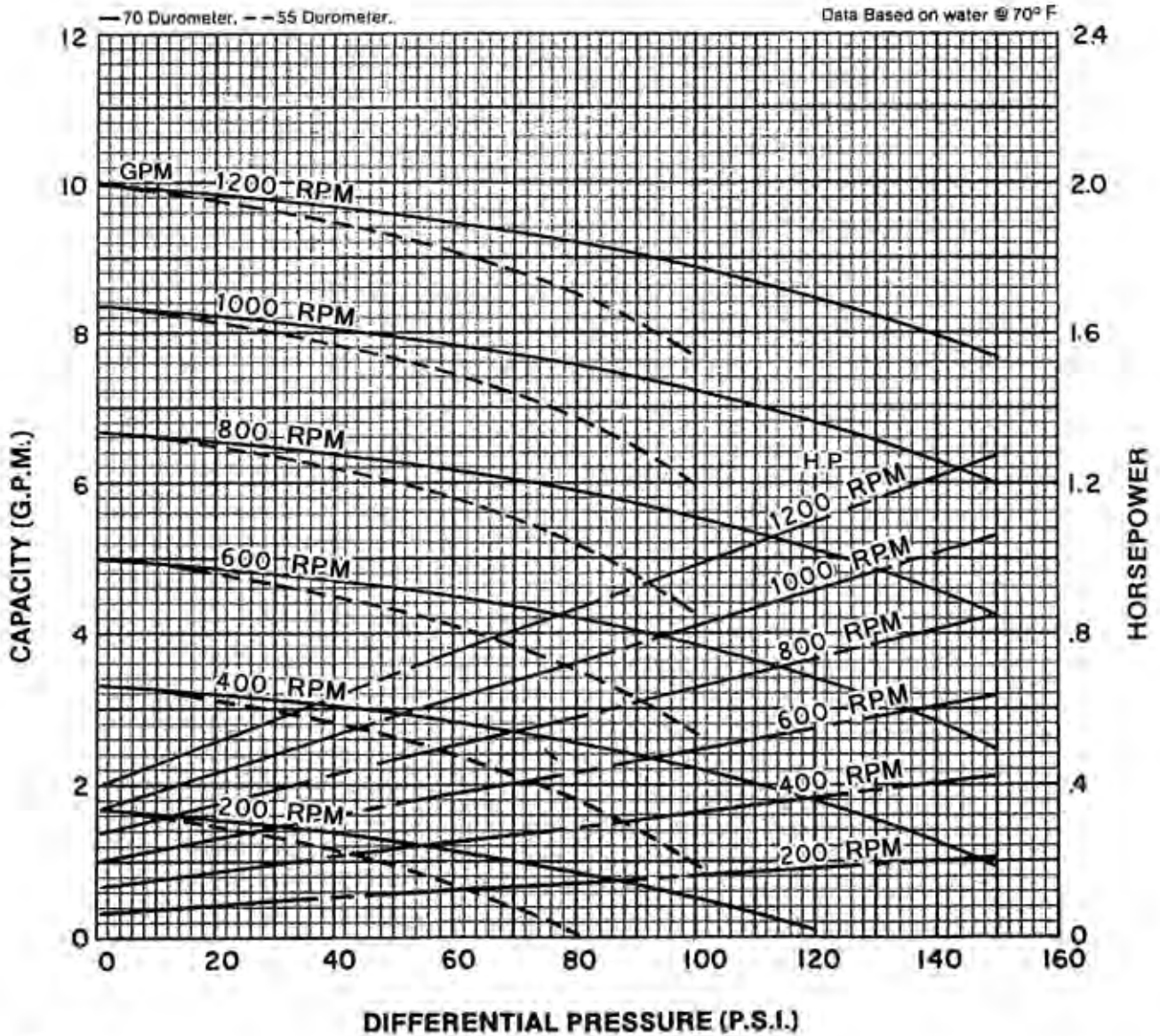
Justice 1LJ3

RPM	200	400	600	800	1000	1200	
NPSH REQ'D	.6	1.3	2	2.6	3.2	3.9	
MIN. HP	1/4	1/3	1/3	1/2	3/4	3/4	



Justice 2LJ3

RPM	200	400	600	800	1000	1200	
NPSH REQ'D	.6	1.3	2	2.6	3.2	3.9	
MIN. HP	1/4	1/3	1/2	3/4	1	1	



Justice 3LJ3

RPM	200	400	600	800	1000	1200	
NPSH REQ'D	.6	1.3	2	2.6	3.2	3.9	
MIN. HP	1/3	1/2	3/4	3/4	1	1	

