Liberty Pumps®

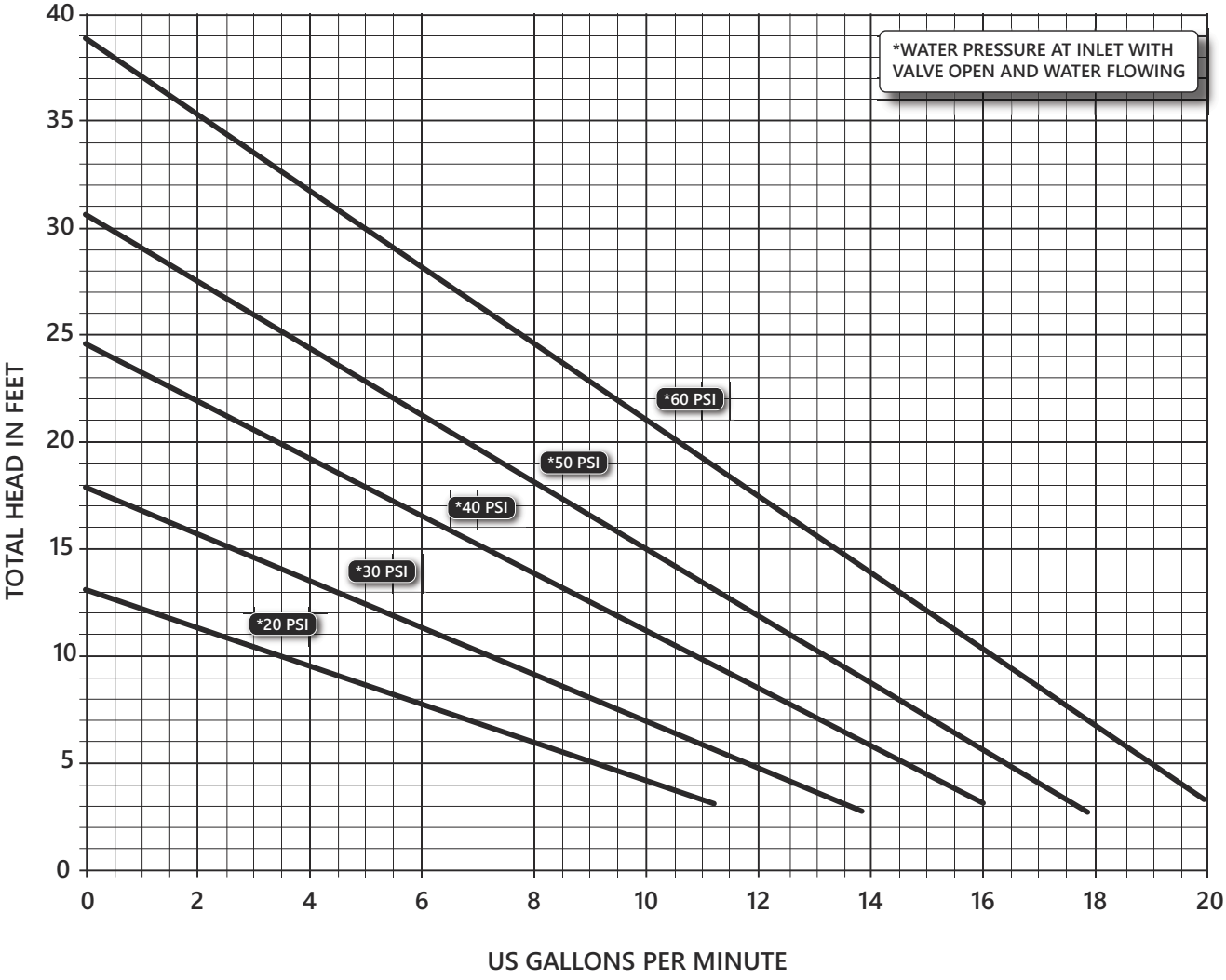
A Family and Employee Owned Company

Pump **Specifications**

SumpJet®

SJ10-Series Water-Powered Back-Up Pumps

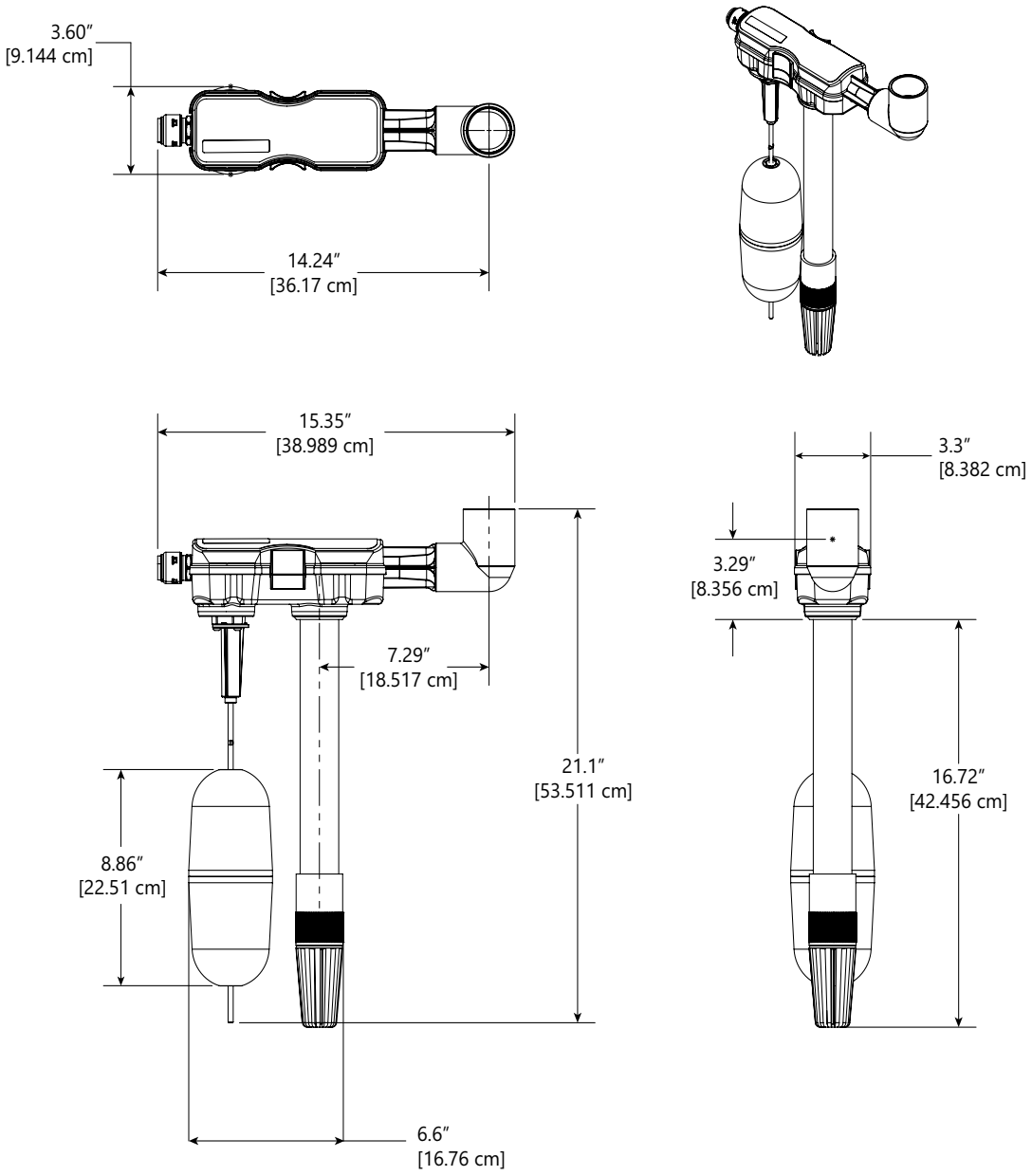




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7000 Apple Tree Avenue Bergen NY 14416 ■ ***Phone*** *1-800-543-2550* ■ ***Fax*** *1-585-494-1839* ■ ***Email*** *Liberty@LibertyPumps.com* ■ ***Web*** *www.LibertyPumps.com*

SJ10-Series Dimensional Data



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SJ10-Series Operating Data

WATER PRESSURE AT INLET WITH VALVE OPEN AND WATER FLOWING		SUMP WATER REMOVAL AT VARIOUS HEADS (STATIC HEAD IN 1-1/2" PIPE OR LARGER)											
LIFT		4 FT		1.21 M	8 FT		2.4 M	12 FT		3.6 M	15 FT		4.5 M
PSI	KPA	GPM	GPH	$M^3/_{HR}$	GPM	GPH	$M^3/_{HR}$	GPM	GPH	$M^3/_{HR}$	GPM	GPH	$M^3/_{HR}$
20	138	11.0	660	2.5	5.8	348	1.3	–	–	–	–	–	–
30	207	12.8	765	2.9	9	540	2.0	5.5	330	1.2	–	–	–
40	276	15.4	924	3.5	12.5	750	2.8	9.3	558	2.1	7.2	432	1.6
50	345	17.2	1032	3.9	14.5	870	3.3	12	720	2.7	10	600	2.3
60	414	19.8	1185	4.5	17	1020	3.9	15.2	912	3.5	13.5	810	3.1

SJ10-Series Pump Data

MODEL	INLET	INLET CONNECTOR	DISCHARGE	AUTOMATIC	ALARM
SJ10	3/4" NPT	3/4" SharkBite Max™ FITTING	1-1/2"	YES	NO
SJ10A	3/4" NPT	3/4" SharkBite Max™ FITTING	1-1/2"	YES	YES
SJ10A-EYE	3/4" NPT	3/4" SharkBite Max™ FITTING	1-1/2"	YES	YES, WIRELESS ENABLED NightEye®

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SJ10-Series Technical Data

COVER	ABS PLASTIC
PIPE	UPC SCHEDULE 40 PVC
DIAPHRAGM SWITCH	NORYL BODY, STAINLESS STEEL PLUNGER 100 PSI MAX OPERATING
BACK FLOW CHECK VALVE	NEOPERL / ACETAL BODY, LISTED ASME A112.18.3 AND ASME A112.18.1
NOZZLE / VENTURI	PVC PLASTIC
FOOT VALVE	PVC BODY STAINLESS STEEL SPRING-LOADED POPPET
FLOAT	ABS PLASTIC
FLOAT ROD	STAINLESS STEEL
FLOAT ROD GUIDE	ACETAL PLASTIC
FASTENERS	STAINLESS STEEL
MAX LIQUID TEMP	54°C / 130°F
ALARM MODEL SJ10A	AUDIBLE AND VISUAL ALARM WITH AUXILIARY CONTACTS, 9V BATTERY BACK-UP
ALARM MODEL SJ10A-EYE	REMOTE NOTIFICATION OPTION
WEIGHT	2.7 KG / 6 LBS

SJ10-Series Specifications

1.01 GENERAL

The contractor shall provide labor, material, equipment, and incidentals required to provide _____ (QTY) water powered back-up pumps as specified herein. The pump models covered in this specification are the SJ10, SJ10A, and SJ10A-EYE-Series.

2.01 OPERATING CONDITIONS

Each water-powered back-up pump shall produce _____ GPM at _____ feet of total dynamic head.

The water-powered back-up pump shall be capable of handling clear sump water. The water-powered back-up pump shall flow a minimum of 9 GPM @ 8 feet of head with an operating pressure of 30 PSI. The water-powered back-up pump shall be supplied with a 3/4" municipal water line. Per UPC, an approved RPZ backflow prevention device is required to prevent backflow into the municipal water system.

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3.01 CONSTRUCTION

Each water-powered back-up pump shall be equal to the  IAPMO approved SJ10-Series water-powered back-up pumps manufactured by Liberty Pumps in Bergen, NY. All components are made of tough non-corrosive engineered polymers, stainless steel, or brass. This construction meets IAPMO standard PS 119 requirements for pressure, strength, performance, and safety.

4.01 SWITCH / VALVE ASSEMBLY

The body of the switch shall be of nylon construction. The diaphragm shall be constructed of fiber reinforced nitrile. All metal components are stainless steel. The switch/valve shall be opened and closed by a float operated neodymium magnet.

5.01 BUILT-IN BACK WATER PREVENTION DEVICE

The water-powered back-up pump shall provide an internally installed backflow prevention device equal to Neoperl OV20 check valve for the inlet water supply. The OV20 is a UPC-approved device, IAMPO file 4374, and in compliance with ASME A112.18.3 and ASME A112.18.1/CSA B125.1. The device shall be provided with a foot valve to provide further protection in the event of a valve failure.

6.01 SUPPORT

The water-powered back-up pump shall have a means of support that enables it to be easily installed by clamping to an existing pipe or fastening to a board.

7.01 SERVICEABILITY

Components required for the repair of the pump shall be shipped within a period of 24 hours.

8.01 TESTING

The pump shall have an air test performed to ensure that the diaphragm switch/float assembly operates, the foot valve is functional, and the nozzle/venturi arrangement is working.

9.01 QUALITY CONTROL

The pump shall be manufactured in an ISO® 9001 certified facility.

10.01 WARRANTY

Standard limited warranty shall be 3 years.

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