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REQUEST FOR INFORMATION DATE: March 06, 2017 NO.: RFI-472

To: Cannon Design

Attn: Kelvin Patel

From: Paric Corporation

Requested By: Joe Voypick

Project Name: 15051-Webster University Interdisciplinary Science Building Project No.: 15051

Subject: HWP-1 Return pump clarifications

Response Required By: March 13, 2017

Drawing / Spec Reference:

Information Requested:

The attached HWP-1 was approved in 221119-003 and specified on P0601, however the plumbing contractor how believes this is the incorrect pump required for the domestic return. The pump has 3" pipe size flanges to connect to and the piping into and out of the pump is only 1" copper.

Please advise if this pump is correct as the plumbing contractor feels it is oversized for the application.

Response:

Please see ASI-058 issued April 7, 2017.

ARCHITECT'S RESPONSE:

This information is provided as an interpretation of the Contract Documents for implementation. It is not an authorization for change to the Contract Sum or Contract Time. If this information results in a claim for a change to the Contract, the Contractor shall notify the [Construction Manager][Architect] of a change through the change process.

Answered By: Patrick Garner, WTA

Date: 4/7/17

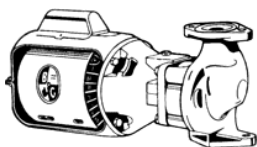


B105139LF

B&G

HWP-1 HOT WATER CIRCULATING PUMP
LF 1.5HP PDB40T CIRC PUMP 230/460V

JOB: UNIT TAG: ENGINEER: CONTRACTOR:	REPRESENTATIVE: ORDER NO. SUBMITTED BY: APPROVED BY:	DATE: DATE: DATE:
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Iron & Lead-Free[†] Bronze^{*} Booster Pump

^{*}Where potable water is supplied, use a lead-free[†] bronze pump.

DESCRIPTION

Bell & Gossett in-line three-piece booster pumps are designed for hydronic systems. Series 100 and HV are Listed with Underwriter's Laboratories.

CONSTRUCTION

Body: Cast Iron or Lead-Free[†] Bronze

Seal: Mechanical, Carbon on Ceramic

Shaft: Carbon Steel, Heat Treated

Pump and Motor Bearings:

- All except PD-38 and PD-40: Bronze Sleeve, Oil Lubricated
- PD-38 and PD-40: Ball Bearing, Permanently Lubricated

Coupler:

- All except PD38 and PD40: Flexible, Spring type
- PD38 and PD40: Flexible, sleeve type.

Motor: Bell & Gossett 1/12 hp thru 1-1/2 hp standard single and three phase drip-proof motors are Recognized under the Component Program of Underwriter's Laboratories, Inc. Bell & Gossett boosters with their respective Bell & Gossett manufactured standard 60 hertz single and three phase motors are Certified by CSA.

OPERATIONAL DATA

Maximum Working Pressure: 125 PSI (682 kPa)

Maximum Operating Temperature:

- Standard Seal: 225°F (107°C) continuous
- Special Seals: 250°F (121°C) continuous (consult local B&G Representative)

Maximum Motor RPM: 1750

IMPELLER:

PUMP MODEL NO.

Series 100® Pump

Series HV & 2

PR, 2-1/2, LD3

HD3, PD35, PD37

PD38 & PD40

IRON BODY

Polypropylene* or Lead-Free[†] Brass

Phenolic* or Lead-Free[†] Brass

Steel, Zinc Plated or Lead-Free[†] Brass

Steel, Zinc Plated or Lead-Free[†] Brass

Cast Iron or Lead-Free[†] Brass

BRONZE BODY

Polypropylene* or Lead-Free[†] Brass
Phenolic* or Lead-Free[†] Brass

Lead-Free[†] Brass

Lead-Free[†] Brass

Lead-Free[†] Brass

^{*} System temperatures above 225 °F (107 °C) require a brass impeller.

[†] Contains less than 0.25% Lead content by weight on wetted surfaces.



SCHEDULE

MODEL NO.	FLANGE SIZE NPT INCHES	**STANDARD 60 CYCLE CHARACTERISTICS					TAGGING INFORMATION	QUANTITY			
		HP	PH	VOLTAGE [*]	F.L. AMPS	RPM		Iron Body		Bronze Body	
								STD	BI	BI	NFI
Series 100	3/4, 1, 1-1/4 & 1-1/2	1/12	1	115	1.75	1725					
Series PR	3/4, 1, 1-1/4 & 1-1/2	1/6	1	115	1.9	1725				-	
Series HV	1, 1-1/4 & 1-1/2	1/6	1	115	1.9	1725					
2	2	1/6	1	115	1.9	1725					
2-1/2	2-1/2	1/4	1	115	3.0	1725				-	
LD3	3	1/4	1	115	3.0	1725				-	
HD3	3	1/3	1	115/230	4.2/2.1	1725				-	
PD-35S	3	1/2	1	115/230	5.2/2.6	1725				-	
PD-35T	3	1/2	3	208-230/460	1.8-1.7/1.85	1750				-	
PD-37S	3	3/4	1	115/230	7.0/3.5	1725				-	
PD-37T	3	3/4	3	208-230/460	2.45-2.4/1.2	1750				-	
PD-38S	3	1	1	115/230	9.8/4.5	1725				-	
PD-38T	3	1	3	208-230/460	3.4-3.4/1.7	1725				-	
PD-40S	3	1-1/2	1	115/230	18.0/9.0	1725				-	
PD-40T	3	1-1/2	3	208-230/460	4.8-4.8/2.4	1725				-	

^{**}Motors with special electrical characteristics are available on request at additional cost.

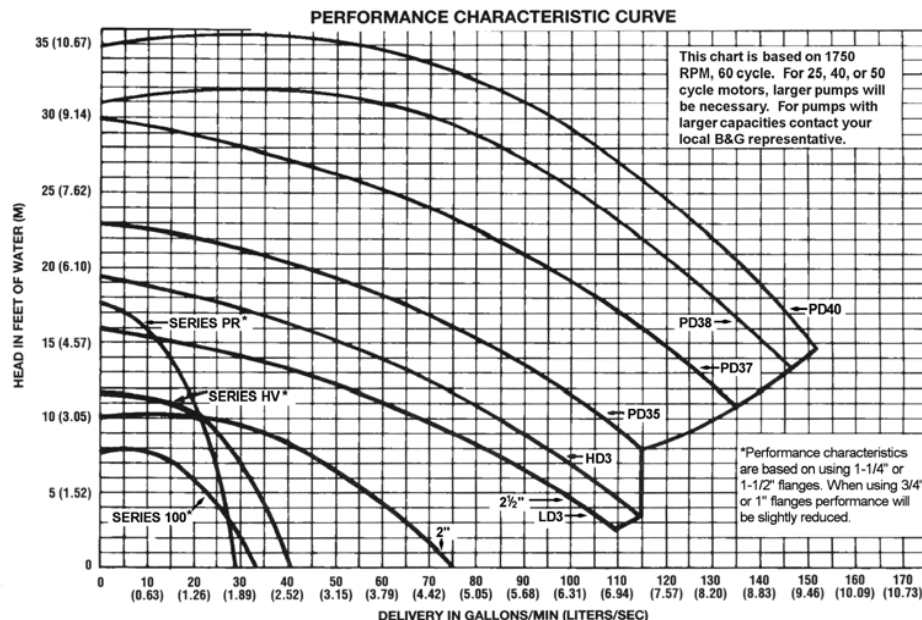
^{*}1 PH Motors: Built-in overload protection

3 PH Motors: Overload protection must be provided

Bell & Gossett Booster Pumps equipped with a drip-proof motor are recommended for indoor use only.

Iron & Bronze Booster Pump Submittal

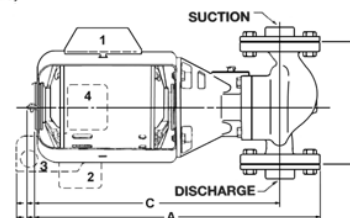
A-120H



MODEL NO.	FLANGE SIZE NPT INCHES	DIMENSIONS IN INCHES (MM)			APPROX. SHPG. WT. LBS. (Kg)	
		A	B	C	IRON BODY	BRONZE BODY
Series 100	3/4, 1, 1-1/4 & 1-1/2	14-7/8 (378)	6-3/8 (162)	12-3/4 (324)	20 (9)	21 (10)
Series PR	3/4, 1, 1-1/4 & 1-1/2	15-1/4 (387)	8-1/2 (216)	12-3/4 (324)	30 (14)	32 (15)
Series HV	1, 1-1/4 & 1-1/2	15-3/8 (391)	8-1/2 (216)	13 (330)	28 (13)	30 (14)
2	2	16-5/8 (422)	8-1/2 (216)	14 (356)	36 (16)	39 (18)
2-1/2	2-1/2	17-1/4 (438)	10 (254)	14 (356)	54 (24)	58 (26)
LD3	3	17-1/4 (438)	10 (254)	14 (356)	53 (24)	57 (26)
HD3	3	17-1/2 (444)	10 (254)	14-1/4 (362)	55 (25)	59 (27)
PD-35S	3	20-1/4 (514)	12 (305)	16-7/8 (429)	75 (34)	80 (36)
PD-35T	3	20-1/4 (514)	12 (305)	16-7/8 (429)	75 (34)	80 (36)
PD-37S	3	20-1/4 (514)	12 (305)	16-7/8 (429)	75 (34)	80 (36)
PD-37T	3	20-1/4 (514)	12 (305)	16-7/8 (429)	75 (34)	80 (36)
PD-38S	3	22-11/16 (576)	14-1/2 (368)	18-15/16 (481)	128 (58)	138 (63)
PD-38T	3	23-15/16 (608)	14-1/2 (368)	20-3/16 (513)	125 (57)	135 (61)
PD-40S	3	24-3/4 (629)	14-1/2 (368)	21 (533)	130 (59)	140 (64)
PD-40T	3	21-7/8 (556)	14-1/2 (368)	18-1/8 (460)	127 (58)	137 (62)

Dimensions are subject to change.

Not to be used for construction purposes unless certified.



Electrical Box Arrangement for pumps with B&G Manufactured Motors

MODEL NO.	#1	#2	#3	#4
Series 100	115 & 230Volt 60Hz 1PH 110 & 220Volt 50Hz 1PH	-	-	-
Series HV, PR & 2	115 & 230Volt 60Hz 1PH 110 & 220Volt 50Hz 1PH	-	3PH	-
2-1/2", LD3 & HD3	-	1PH	-	-
PD35 & PD37	-	-	ALL	-
PD38 & PD40	-	-	-	ALL

TYPICAL SPECIFICATIONS

The Contractor shall furnish and install In-The-Line pumps as illustrated on the plans and in accordance with the following specifications:

1. The pumps shall be of the horizontal, oil-lubricated type. (Except PD-38, PD-40 are permanently lubricated) Specifically designed and guaranteed for quiet operation. Suitable for 125# (862 kPa) working pressure.

2. The pumps shall have a ground and polished steel shaft with a hardened integral thrust collar. The shaft shall be supported by two horizontal sleeve bearings designed to circulate oil. (Except PD-38, PD-40 are grease lubricated ball bearing design) The pumps are to be equipped with a mechanical seal with carbon seal face rotating against a ceramic seat. The motor shall be non-overloading at any point on pump curve.

3. The motor shall be of the drip-proof, sleeve-bearing, (Except PD-38, PD-40 are ball bearing) quiet operating, rubber-mounted construction. Motors shall have built-in thermal overload protectors. (Exception - PD models with 3-phase motors, see paragraph 4.)

4. For PD models with 3-phase motors, add the following: The Contractor shall furnish and install a magnetic starter for each booster pump with at least two thermal overload protectors. The starter shall be equipped with manual reset buttons.

All Units must be ITT Bell & Gossett Model No. _____, or approved equal with capacity of _____ GPM at _____ ft. head when directly driven through a self aligning flexible coupling by an oil lubricated motor, _____ volts _____ cycle _____ phase.

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