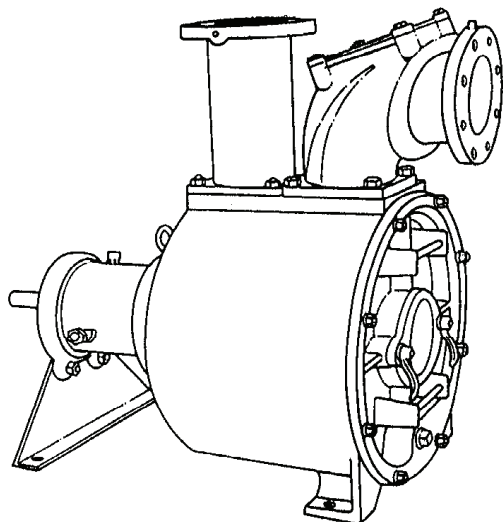


# Model: PO6LB

3" Spherical Solids Handling  
Universal Drive



## Self-Priming, Solids Handling Pumps



### Specifications:

<b>SUCTION/DISCHARGE</b>	.....6" (152mm) x 6" (152mm) 125 lb. Flange
<b>LIQUID TEMPERATURE</b>	.....160°F (71°C) Continuous
<b>VOLUTE/WEARPLATE</b>	.....Cast Iron ASTM A-48, Class 30 Replaceable External Clearance Adjustment
<b>CASE</b>	.....Cast Iron ASTM A-48, Class 30
<b>END COVER</b>	.....Cast Iron ASTM A-48, Class 30 Full Diameter, Removable
<b>SEAL PLATE</b>	.....Alloy Steel, Replaceable
<b>PEDESTAL</b>	.....Cast Iron ASTM A-48, Class 30
<b>IMPELLER: Design</b>	.....Two Vane, Open. Dynamically Balanced, ISO G6.3
<b>Material</b>	.....Ductile Iron ASTM A-395
<b>SHAFT</b>	.....High Carbon Steel
<b>SHAFT SLEEVE</b>	.....316 Stainless Steel
<b>SQUARE RINGS</b>	.....Buna-N
<b>HARDWARE</b>	.....Corrosion Resistant Steel
<b>PAINT</b>	.....Air Dry Enamel.
<b>SEAL:</b>	
<b>Design</b>	.....Single Mechanical
<b>Lubrication</b>	.....Grease, with Self-Feeding Lubricator
<b>Material</b>	.....Rotating Faces - Carbon Stationary Faces - Ceramic Elastomer - Buna-N Hardware -300 Series Stainless
<b>BEARING - PUMP END:</b>	
<b>Design</b>	.....Single Row, Ball, Oil Lubricated
<b>Load</b>	.....Radial & Thrust
<b>BEARING - DRIVE END:</b>	
<b>Design</b>	.....Single Row, Ball, Oil Lubricated
<b>Load</b>	.....Radial & Thrust
<b>CHECK VALVE:</b>	
<b>Material</b>	.....Elbow - Cast Iron ASTM A-48, Class 30 Valve Flap - Neoprene Weight - Cast Iron ASTM A-48, Class 30

**OPTIONAL EQUIPMENT**.....Seal Materials, Case Heater, Stainless Hardware; Double Mechanical Seal, Oil Lubricated w/Pressure Compensating Lubricator; High Temperature Control; Flex Coupled Assy. with Base & OSHA Guard; Right Hand V-Belt Drive Assy. and Left Hand V-Belt Drive Assy., In-Line Vertical V-Belt Drive Assy., with Unit Base, Motor Adjusting Base & OSHA Guard

**Model: PO6LB-12F**  
**PO6LB-11J**  
**PO6LB-10N**

Sample Specifications: Section 4 Page 7-8.

### DESCRIPTION:

SELF-PRIMING CENTRIFUGAL SOLIDS HANDLING PUMPS DESIGNED FOR MUNICIPAL AND INDUSTRIAL APPLICATIONS.



**WARNING:**  
CANCER AND REPRODUCTIVE HARM -  
WWW.P65WARNINGS.CA.GOV

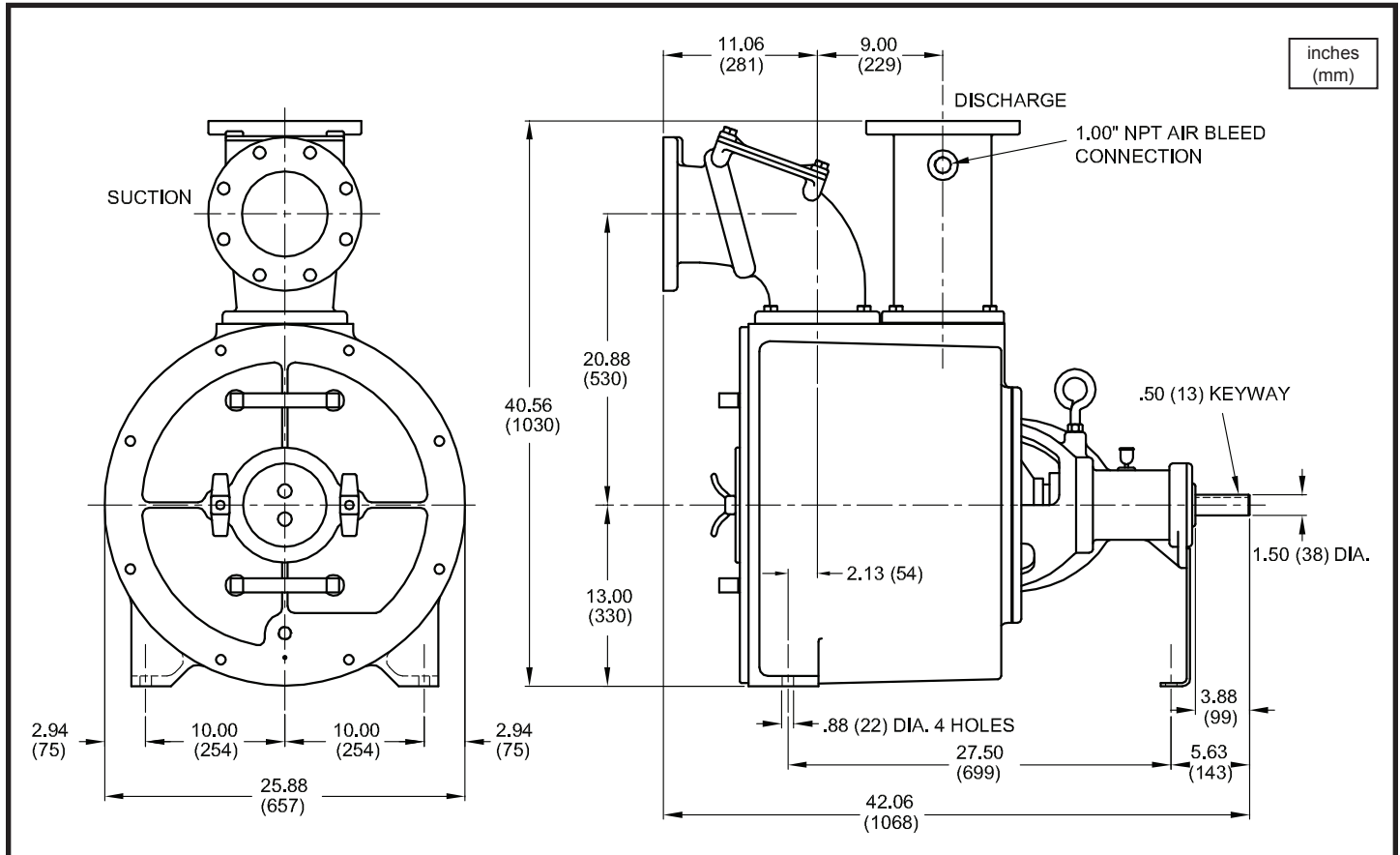
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**CRANE**  
A Crane Co. Company

**PUMPS & SYSTEMS**

USA: (937) 778-8947 • Canada: (905) 457-6223 • International: (937) 615-3598

**Self-Priming, Solids Handling Pumps**



MODEL NO	PART NO	WEIGHT LBS. (kg)	
PO6LB-12F	6C05D-0012F-031	925 (420)	
PO6LB-11J	6C05D-0011J-031	925 (420)	
PO6LB-10N	6C05D-0010N-031	925 (420)	

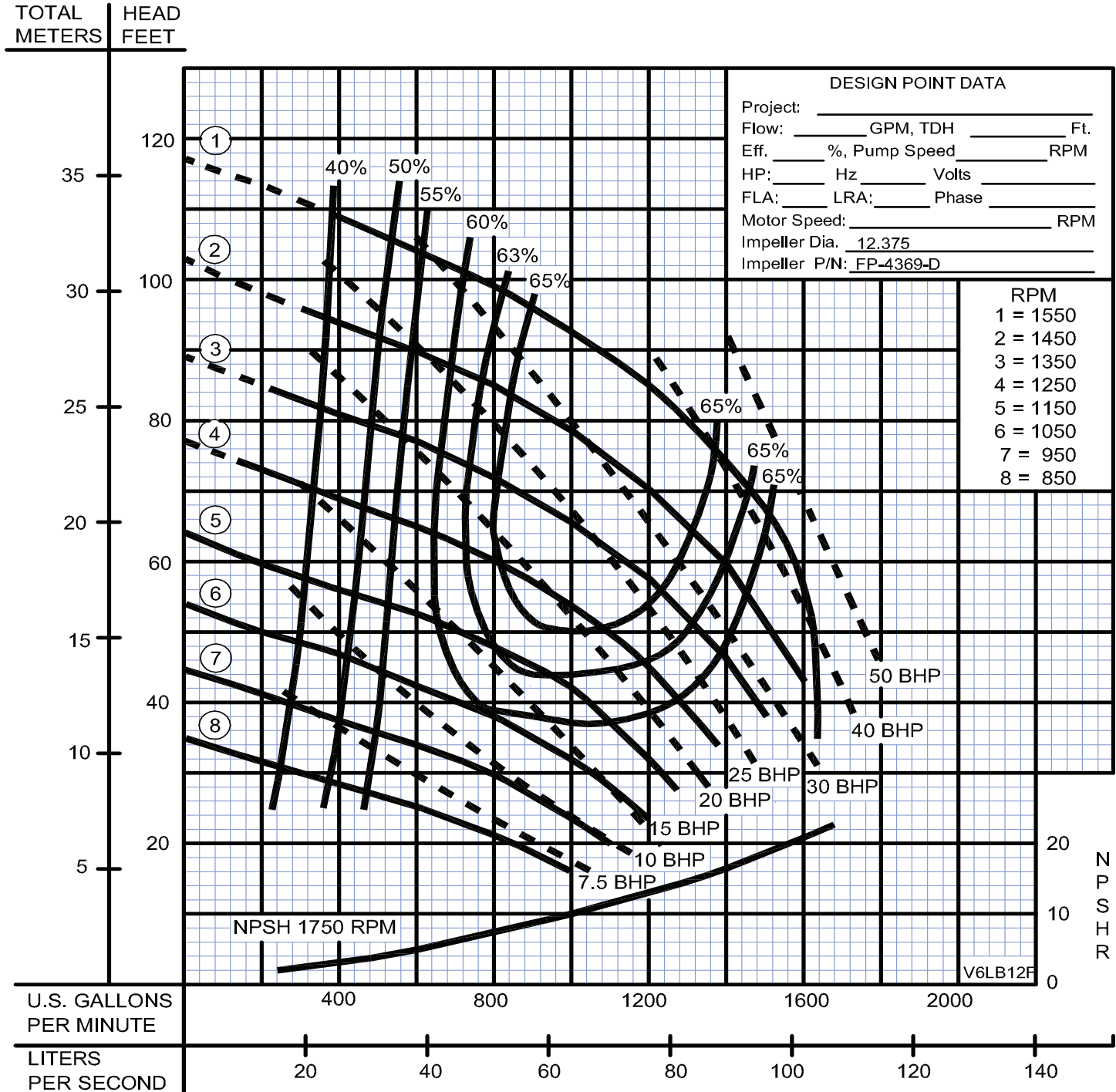
**IMPORTANT !**  
 1.) DO NOT USE FOR PUMPING FLUIDS WITH A FLASH POINT OF LESS THAN 100°F.  
 2.) MAKE CERTAIN THAT PUMP AND/OR MOTOR ASSEMBLY AND CONTROLS HAVE THE APPROPRIATE RATINGS FOR THE GIVEN APPLICATION AREA CLASSIFICATION. (ie DIVISION I, AGENCY LISTING ETC.)

# Model: PO6LB-12F

Performance Curve  
Various RPM



## Self-Priming Solids Handling Pumps



MAXIMUM DRY PRIMING LIFT					
PUMP SPEED	2 Min	4 Min	6 Min	8 Min	10 Min
850 RPM	2 Ft.	5 Ft.	8 Ft.	10 Ft.	14 Ft.
1150 RPM	4 Ft.	11 Ft.	16 Ft.	19 Ft.	20 Ft.
1450 RPM	12 Ft.	22 Ft.	25 Ft.	25 Ft.	25 Ft.
1550 RPM	15 Ft.	25 Ft.	25 Ft.	25 Ft.	25 Ft.

When pump is operating, the **SUCTION LIFT** is limited by the available **NPSH** which is the corrected atmospheric pressure minus the dynamic suction lift, vapor pressure loss and 2 foot safety factor. This **net available NPSH** must exceed the **required NPSH** of the pump or a reduction of capacity, loss of efficiency, noise, vibration and cavitation will result. Calculate the dynamic suction lift from the **low** liquid level to the centerline of the impeller. When pump is priming, it is limited by the dry **PRIMING LIFT** which is the vertical distance from the **high** liquid level to the centerline of the impeller.

DO NOT Operate in "DASHED" Area of HQ Curve. Testing is performed with water, specific gravity 1.0 @ 68° F @ (20°C), other fluids may vary performance

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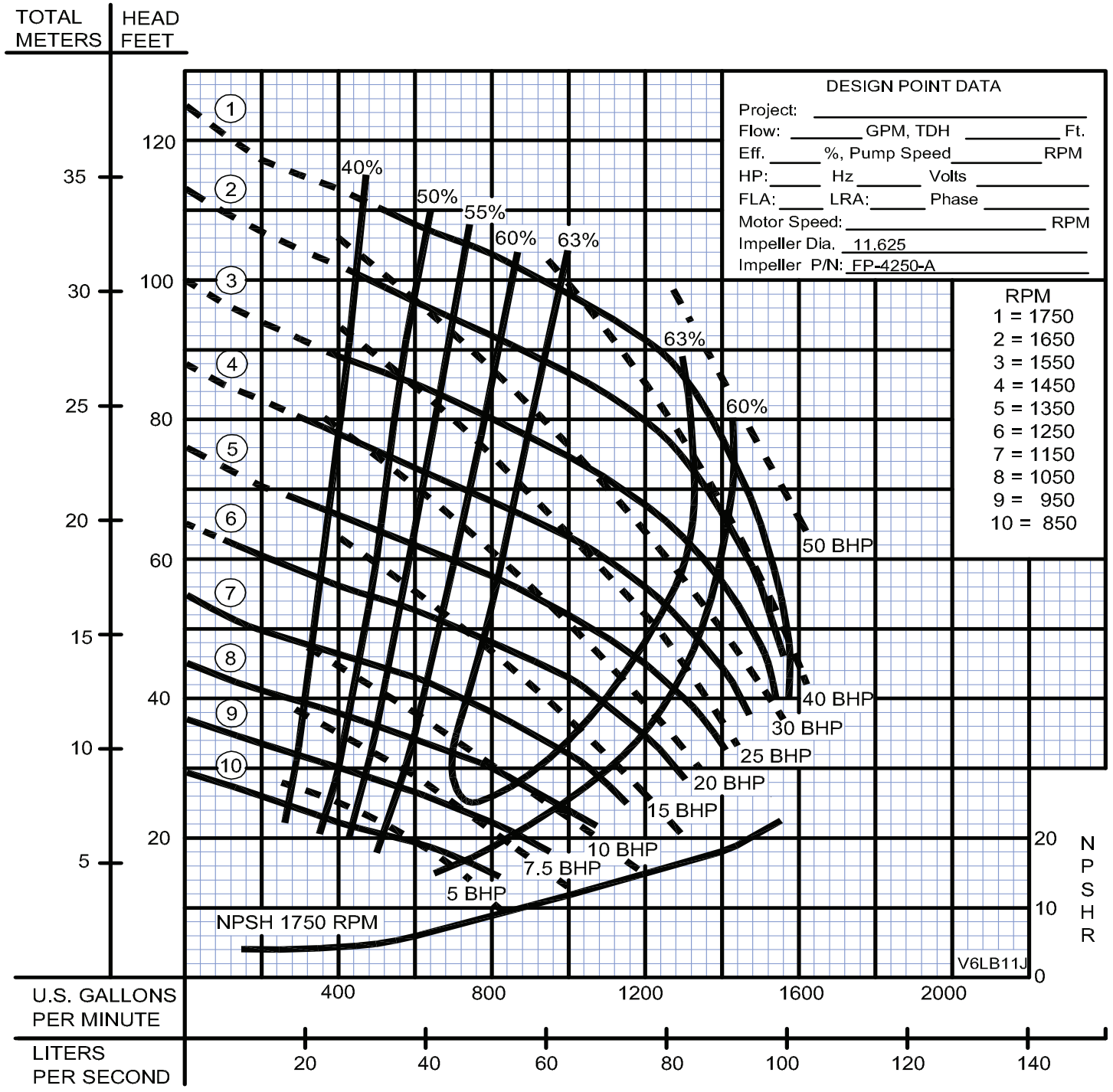


### PUMPS & SYSTEMS

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## Self-Priming Solids Handling Pumps



MAXIMUM DRY PRIMING LIFT					
PUMP SPEED	2 Min	4 Min	6 Min	8 Min	10 Min
850 RPM	2 Ft.	5 Ft.	9 Ft.	12 Ft.	16 Ft.
1150 RPM	4 Ft.	11 Ft.	16 Ft.	19 Ft.	21 Ft.
1450 RPM	11 Ft.	21 Ft.	24 Ft.	25 Ft.	25 Ft.
1750 RPM	25 Ft.	25 Ft.	25 Ft.	25 Ft.	25 Ft.

When pump is operating, the **SUCTION LIFT** is limited by the available **NPSH** which is the corrected atmospheric pressure minus the dynamic suction lift, vapor pressure loss and 2 foot safety factor. This **net available NPSH** must exceed the **required NPSH** of the pump or a reduction of capacity, loss of efficiency, noise, vibration and cavitation will result. Calculate the dynamic suction lift from the **low** liquid level to the centerline of the impeller. When pump is priming, it is limited by the dry **PRIMING LIFT** which is the vertical distance from the **high** liquid level to the centerline of the impeller.

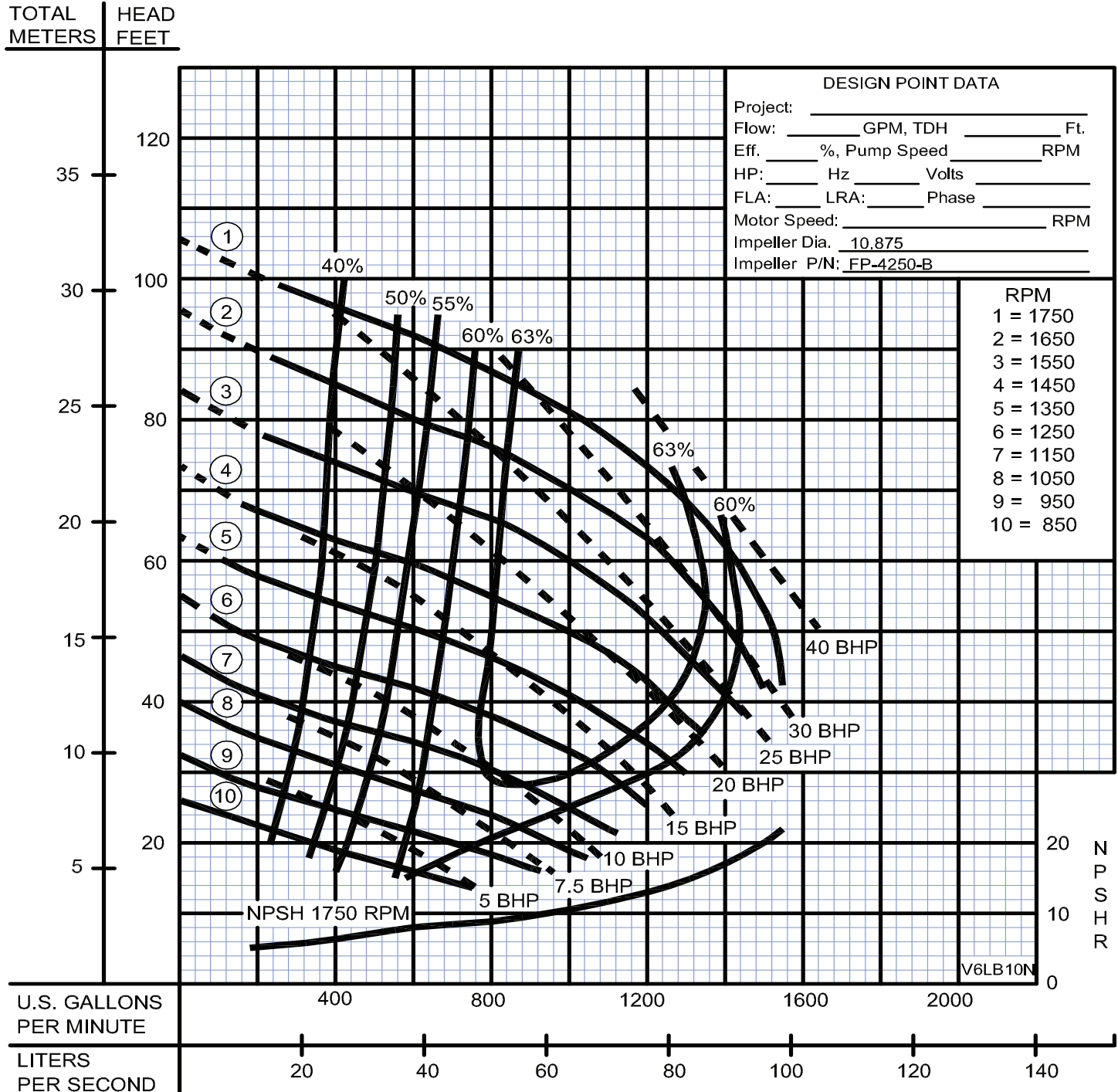
DO NOT Operate in "DASHED" Area of HQ Curve. Testing is performed with water, specific gravity 1.0 @ 68° F @ (20°C), other fluids may vary performance

# Model: PO6LB-10N

Performance Curve  
Various RPM



## Self-Priming Solids Handling Pumps



MAXIMUM DRY PRIMING LIFT					
PUMP SPEED	2 Min	4 Min	6 Min	8 Min	10 Min
850 RPM	2 Ft.	5 Ft.	8 Ft.	11 Ft.	14 Ft.
1150 RPM	5 Ft.	12 Ft.	17 Ft.	20 Ft.	22 Ft.
1450 RPM	10 Ft.	18 Ft.	22 Ft.	24 Ft.	25 Ft.
1750 RPM	19 Ft.	25 Ft.	25 Ft.	25 Ft.	25 Ft.

When pump is operating, the **SUCTION LIFT** is limited by the available **NPSH** which is the corrected atmospheric pressure minus the dynamic suction lift, vapor pressure loss and 2 foot safety factor. This **net available NPSH** must exceed the **required NPSH** of the pump or a reduction of capacity, loss of efficiency, noise, vibration and cavitation will result. Calculate the dynamic suction lift from the **low** liquid level to the centerline of the impeller. When pump is priming, it is limited by the dry **PRIMING LIFT** which is the vertical distance from the **high** liquid level to the centerline of the impeller.

DO NOT Operate in "DASHED" Area of HQ Curve. Testing is performed with water, specific gravity 1.0 @ 68° F @ (20°C), other fluids may vary performance

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## PUMPS & SYSTEMS

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# Model: P06LB

Horizontal V-Belt Base, Motor Speed: 1750 RPM  
V-Belt Drive, Sheaves & Bushings, Pump Shaft: 1.50 Dia.

## Self-Priming Solids Handling Pumps

Driven Speed	Speed Ratio	Motor HP	Frame Size	Center Distance	Drive P/N		Driven Speed	Speed Ratio	Motor HP	Frame Size	Center Distance	Drive P/N
1750	1.00	40	324T	25.9	091043		1200	1.46	20	256T	24.3	091085
1750	1.00	30	286T	25.9	091044		1200	1.46	15	254T	24.3	091086
1750	1.00	25	284T	25.9	091045		1200	1.46	10	215T	24.3	091087
							1200	1.46	7.5	213-215T	24.3	091088
1700	1.03	40	324T	25.7	091046							
1700	1.03	30	286T	25.7	091047		1150	1.52	20	256T	25.0	091089
1700	1.03	25	284T	25.7	091047		1150	1.52	15	254T	25.0	091090
							1150	1.52	10	215T	25.0	091091
							1150	1.52	7.5	213-215T	25.0	091092
1650	1.06	40	324T	25.9	091048							
1650	1.06	30	286T	25.0	091049							
1650	1.06	25	284T	25.0	091050		1100	1.59	15	254T	25.3	091093
1650	1.06	20	256T	25.0	091051		1100	1.59	10	215T	25.3	091094
							1100	1.59	7.5	213-215T	25.3	091095
1600	1.09	40	324T	26.1	091052							
1600	1.09	30	286T	26.1	091053		1050	1.66	15	254T	24.0	091096
1600	1.09	25	284T	25.7	091054		1050	1.66	10	215T	24.0	091097
1600	1.09	20	256T	25.7	091055		1050	1.66	7.5	213-215T	25.9	091098
							1050	1.66	5	213T	25.9	091099
							1050	1.66	5	184T	25.9	091100
1550	1.13	40	324T	25.6	091056							
1550	1.13	30	286T	25.6	091057							
1550	1.13	25	284T	25.6	091058		1000	1.75	10	215T	24.4	091101
1550	1.13	20	256T	24.6	091059		1000	1.75	7.5	213-215T	24.4	091101
							1000	1.75	5	213T	24.4	091102
							1000	1.75	5	184T	24.4	091103
1500	1.16	40	324T	24.0	091060							
1500	1.16	30	286T	24.0	091061							
1500	1.16	25	284T	25.8	091062		950	1.84	10	215T	25.2	091104
1500	1.16	20	256T	25.8	091063		950	1.84	7.5	213-215T	25.2	091105
1500	1.16	15	254T	25.8	091064		950	1.84	5	213T	25.2	091106
							950	1.84	5	184T	25.2	091107
1450	1.20	40	324T	25.2	091065							
1450	1.20	30	286T	25.2	091066		900	1.94	7.5	213-215T	25.9	091108
1450	1.20	25	284T	25.2	091067		900	1.94	5	213T	25.9	091109
1450	1.20	20	256T	24.9	091068		900	1.94	5	184T	25.9	091110
1450	1.20	15	254T	24.9	091069		900	1.94	3	182-184T	25.9	091111
1400	1.25	30	286T	24.3	091070		850	2.06	7.5	213-215T	24.4	091112
1400	1.25	25	284T	24.3	091070		850	2.06	5	213T	24.4	091113
1400	1.25	20	256T	24.1	091071		850	2.06	5	184T	24.4	091114
1400	1.25	15	245T	24.1	091072		850	2.06	3	182-184T	24.4	091115
1350	1.30	30	286T	25.6	091073							
1350	1.30	25	284T	25.6	091074							
1350	1.30	20	256T	25.9	091075							
1350	1.30	15	254T	25.9	091076							
1300	1.35	25	284T	24.5	091077							
1300	1.35	20	256T	24.5	091078							
1300	1.35	15	254T	24.5	091079							
1300	1.35	10	215T	24.5	091080							
1250	1.40	25	284T	24.2	091081							
1250	1.40	20	256T	24.1	091082							
1250	1.40	15	254T	24.1	091083							
1250	1.40	10	215T	24.1	091084							



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