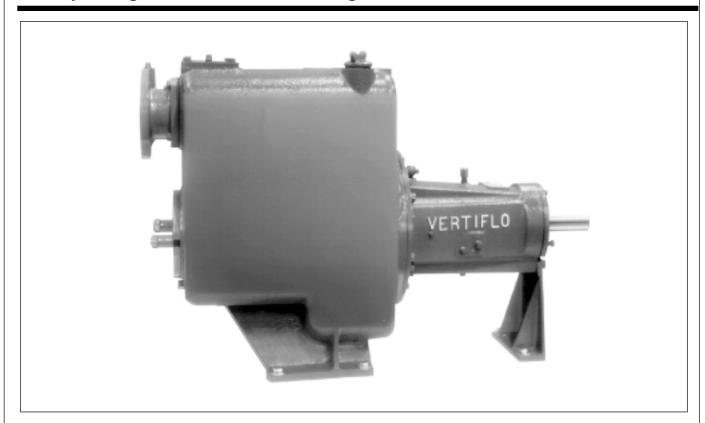
VESULFU Series 2100

Quality Design Features Assure Long, Trouble-Free Service



WIDE RANGE OF APPLICATIONS:

- Liquids Entrained with Solids
- General Industrial, Pulp & Paper, Mining, Meat Packing
- Raw Sewage, Sludge
- Slurries
- Trash
- Wastewater

CAPABILITIES:

- Capacities to 1300 GPM
- Heads to 112 Feet TDH
- Sizes: 3", 4", and 6"
- Solids Handling: Up to 3" Diameter Sphere
- Suction Lifts to 25 Feet

CONSTRUCTION:

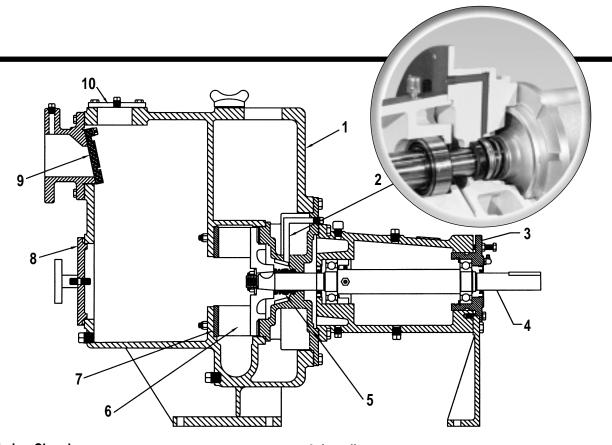
- Cast Iron
- 316 S.S. Fitted
- CD4MCu Fitted
- All 316 S.S.
- All CD4MCu

Vertiflo's Trash- and Solids-Handling Self-Primer is designed for service simplicity and quick and easy access to the impeller and case to remove debris. Its oversized, tapered bore, self-flushing seal chamber, with **an industry first** optional external flush, results in greatly extended seal life. Back pullout design with external impeller adjustment, plus a replaceable case wearplate allows for continuous high efficiency performance.

Revised 9-1-04

2100

2100's Superior Design Features



1. Priming Chamber

Heavy-duty cast construction with large capacity volute allows continual re-priming.

2. Seal Chamber

Oversized tapered bore chamber with flow bars to eject sound and abrasives otherwise trapped in the chamber. An industry first, external fresh water flush is optionally available for the most difficult pumping applications.

3. External Impeller Adjustment

Heavy-duty cast iron power frame with replaceable and adjustable thrust bearing housing utilizing jackscrews, maintains impeller adjustment.

4. Shaft

High-strength 17-4ph stainless steel with self-locking taper, along with Woodruff key and locknut assures perfect impeller attachment.

5. Mechanical Seal

Single, self-aligning solid silicon carbide vs silicon carbide faced seal for abrasive industrial wastewater service.

6. Impeller

Semi-open, solid-handling design with rear wiping vanes and balancing hub that reduce seal chamber pressure and axial loading.

7. Wear Plate

Replaceable heavy-duty wear plate protects priming chamber from wear of erosion.

8. Inspection-Cleanout Cover

6" diameter cover weighing only 5½ lbs. provides quick, direct access into priming chamber and impeller.

9. Check Valve

Replaceable, molded in one piece with integral rupture disc valve allows re-priming and protects the priming chamber from high pressure or vaporization.

10. Check Valve Cover Plate

Check valve inspection and service is possible by removing this plate. Draining of pump or removal of piping is not necessary.

Revised 10-15-02

VERIFIED PUMP COMPANY

Materials of Construction

Parts Description	Standard Fitted	316 S. S. Fitted	CD4MCu Fitted	AII 316 S.S.	AII CD4MCu
Case	Cast Iron	Cast Iron	Cast Iron	316 S.S.	CD4MCu
Seal Cover	Cast Iron	Cast Iron	Cast Iron	316 S.S.	CD4MCu
Mechanical Seal		——— Silicon	Carbide vs Silicon	Carbide ———	
Power Frame	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron
Shaft	17-4ph	17-4ph	17-4ph	17-4ph	17-4ph
Suction Inlet	Cast Iron	Cast Iron	Cast Iron	316 S.S.	CD4MCu
Check Valve	Buna N	Buna N	Buna N	Viton	Viton
Clean Out Plate	Cast Iron	Cast Iron	Carbon Steel	316 S.S.	CD4MCu
Case Gasket		—— Synthet	ic Fiber with EPDM	1 Binder ——	
Wear Plate	Steel	316 S.S.	CD4MCu	316 S.S.	CD4MCu
Impeller	Cast Iron	316 S.S.	CD4MCu	316 S.S.	CD4MCu
Bearing Cartridge	Cast Iron	Cast Iron	Cast Iron	Cast Iron	Cast Iron
Impeller Trim	Carbon Steel/ 316SS	316 S.S.	316S.S. / CD4MCu	316 S.S.	CD4MCu / Alloy 20

OPTIONAL:

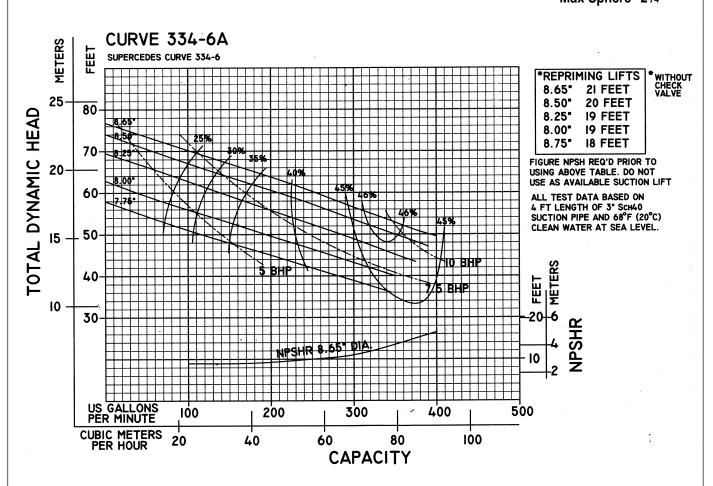
316 stainless steel fitted and CD4MCu fitted pumps are available with optional 316 stainless steel or CD4MCu seal cover in lieu of cast iron.

Construction Details

		3x3	4x4	6x6
Priming Chamber	Suction/Discharge Flange	3"/125 lb.	4"/125 lb.	6"/125 lb.
	Maximum Pressure	85 PSIG	85 PSIG	85 PSIG
	Minimum Thickness	0.44	0.44	0.44
	Capacity of Chamber	19 gal.	24 gal.	32 gal.
	Rotation from Driver End	CW	CW	CW
Shaft	Diameter at Impeller	1.38"	1.75"	1.75"
	Diameter through Seal Cover	1.38"	1.75"	1.75"
	Diameter Between Bearings	2.0"	2.25"	3.0"
	Diameter at Coupling End	1.38"	1.63"	2.0"
Bearings	Bearing Span Centers	9.66"	9.75"	10.94"
_	Average L'10 Bearing Life	Exc	ess of 100,000 H	ours ———
Maximum Solids		2.75"	3.0"	3.0"

VECUTEU PUMP COMPANY Performance Curves

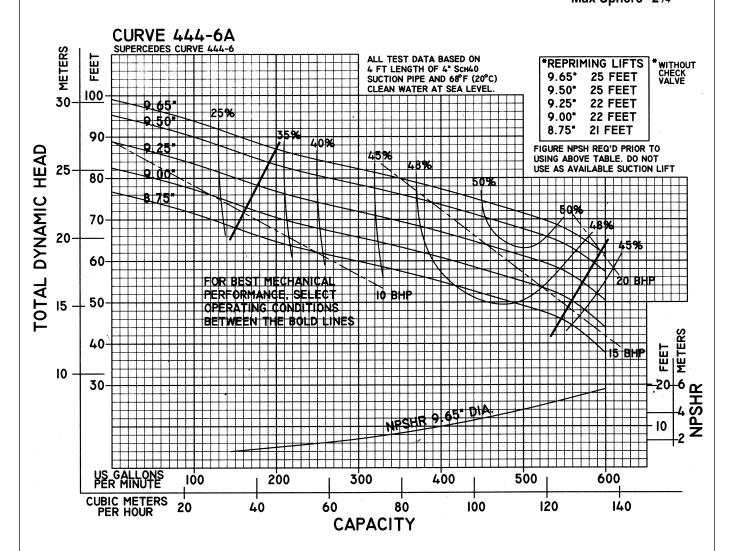
Model 2122-3x3 Size 3x3 RPM 1780 Max Sphere 2³/₄"



Performance at Casing D	Discharge Flange					
Curves Show Performan	ce with Liquid Havi	ng Specific Gravity 1.0	Viscosity • 30 SSU	, Ambient Temperature		
CUSTOMER				CU	STOMER NO	
PROJECT						
ENGINEER						
CONTRACTOR						
CONDITIONS:	GPM	TDH	HP	EFF%	IMP. DIA	

VECUTEU PUMP COMPANY Performance Curves

Model 2128-4x4
Size 4x4
RPM 1780
Max Sphere 2³/₄"



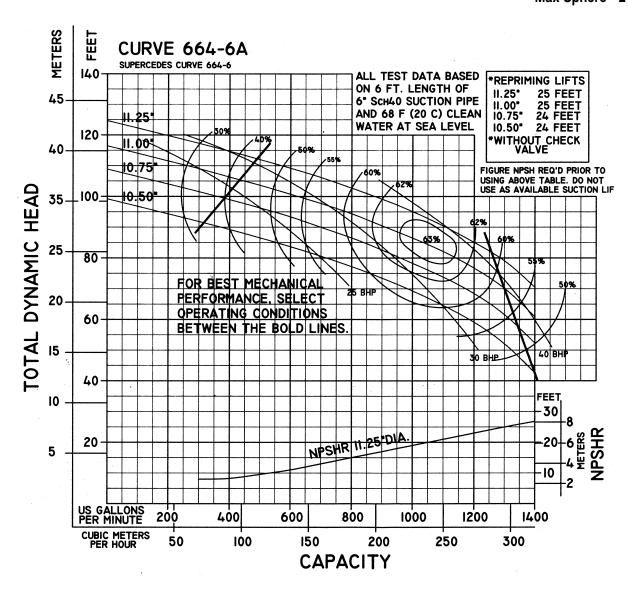
Performance at Casing Discharge Flange

Curves Show Performance with Liquid Having Specific Gravity 1.0 Viscosity ullet 30 SSU, Ambient Temperature

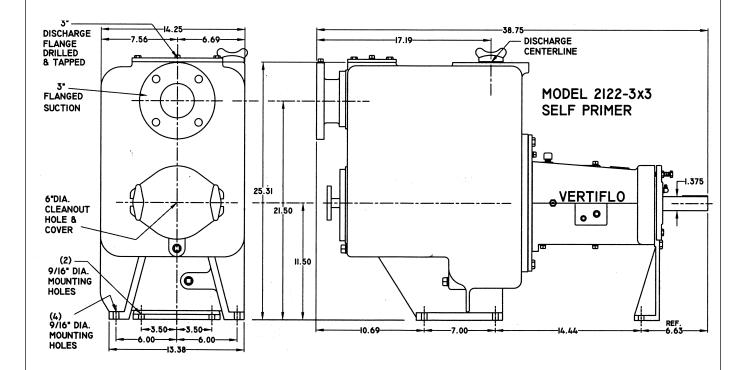
CUSTOMER _____ CUSTOMER NO. _____
PROJECT ____
ENGINEER ____
CONTRACTOR ____
CONDITIONS: __GPM __TDH __HP __EFF% __IMP. DIA _____

VECULEU PUMP COMPANY Performance Curves

Model 2128L-6x6 Size 6x6 RPM 1780 Max Sphere 2¾"

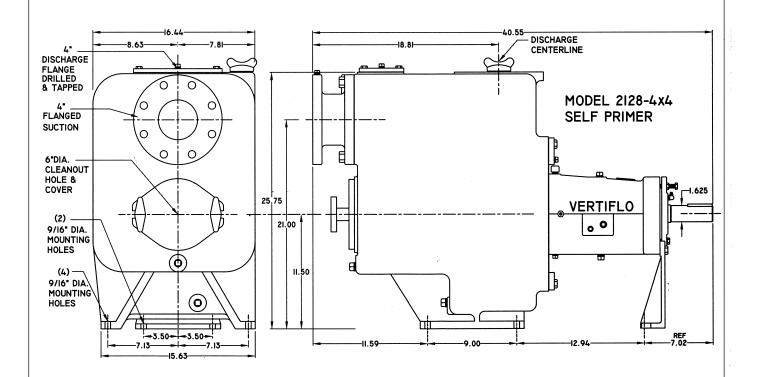


Performance at Casing [Discharge Flange				
Curves Show Performan		ng Specific Gravity 1.0	0 Viscosity • 30 SSU	, Ambient Temperature	
CLICTOMED	•	,	•	CII	STOMER NO
PROJECT					
ENGINEER					
CONTRACTOR_				·	
CONDITIONS:	GPM	TDH	HP	EFF%	IMP. DIA

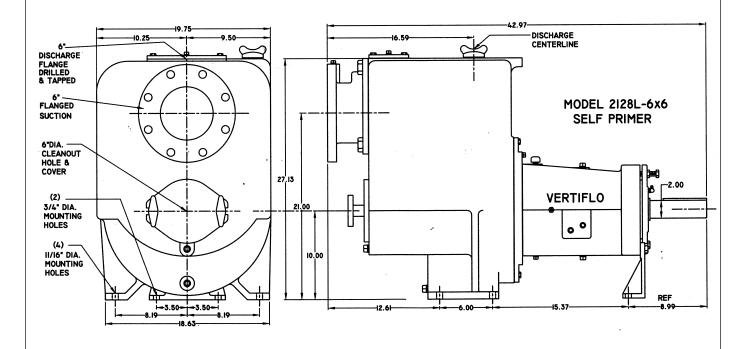


CUSTOMER PROJECT ENGINEER CONTRACTOR_	CUSTOMER NO SERIAL NO _LOCATION		
PUMP Model Size DATA	RPM Volt-Phase-Cycle	SP. GR.@Temp. Frame ENC. Furnished by	Mounted by
Shop OrderRevised 10-15-02		Date	

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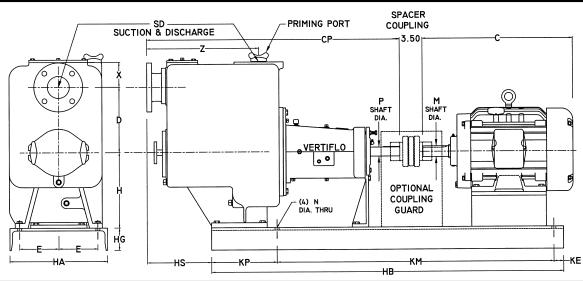
CUSTOMERPROJECTENGINEER		CUSTOMER NO _SERIAL NO _LOCATION	
CONTRACTOR PUMP Model Size	Curve No. GPM Head	SP. GR.@Temp.	
DATA HP		<u> </u>	ounted by
DATA Shop Order	·		
Revised 10-15-02	ocranou by	Date	



CUSTOMERPROJECTENGINEERCONTRACTOR	CUSTOMER NOSERIAL NO LOCATION
PUMP Model Size DATA MOTOR Mfgr. HP	Curve No. GPM Head SP. GR.@Temp. RPM Volt-Phase-Cycle Frame ENC. Furnished by Mounted by
DATA	

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VESUISUO PUMP COMPANY



Model	Motor Frame	M	С	СР	D	Е	Н	НА	НВ	HG	HS	KE	KM	KP	N	Р	SD	Х	Z
2122-3X3	182-84T	1.125	14.3						48				36.5						
	213-15T	1.375	17.9	38.75	10	6	11.5	15	5.4	3.4	9.88	1.5	42.5	10	.63	1.375	3	3.81	17.19
	254-56T	1.625	21.1						54				42.3						
2128-4X4	182-84T	1.125	14.3						48				35						
	213-15T	1.375	17.9	40 FF	0.5	7.5	11.5	18	54	4	10.84	1.0	41	12	.63	1.625	4	4.75	18.81
	254-56T	1.625	21.1	40.55	9.5	7.5	11.5	10	34	7	10.04	1.0	41	12	.03	1.023	4	4.73	10.01
	284-86T	1.875	27.8					•	60				46.5						
2128L-6X6	254-56T	1.625	21.1																
	284-86T	1.875	27.8	42.97	11	9	10	22	60	3.5	11.28	1.5	46.5	12	.75	2	6	6.13	16.59
	324-26T	2.125	30.3																

Motor dimensions are based on the larger of the paired frame sizes since most motor manufacturers provide dual drilling for mounting of either frame size. Motor dimensions are for Baldor TEFC motors at 1750RPM. Motor overall length, (C), will vary based upon specific motor type, enclosure, and manufacturer. Dimension between shafts will vary with coupling type.

CUSTOMERPROJECTENGINEER	SERIAL NO								
CONTRACTOR									
PUMP Model Size DATA	Curve No. GPM Head	SP. GR.@Temp.							
MOTOR Mfgr. HP	RPM Volt-Phase-Cycle	Frame ENC. Furnished by	Mounted by						
Shop Order	Certified by	Date							
Revised 7-15-04									