### **Vortex End Suction**

# **VERUFIO** SERIES 1600

## **Quality Design Features Assure Long, Trouble-Free Service**



## **WIDE RANGE OF APPLICATIONS:**

- Food Processing Solids
- Waste Water Treatment
- Pollution Control
- Slurries
- Industrial Process
- Solids

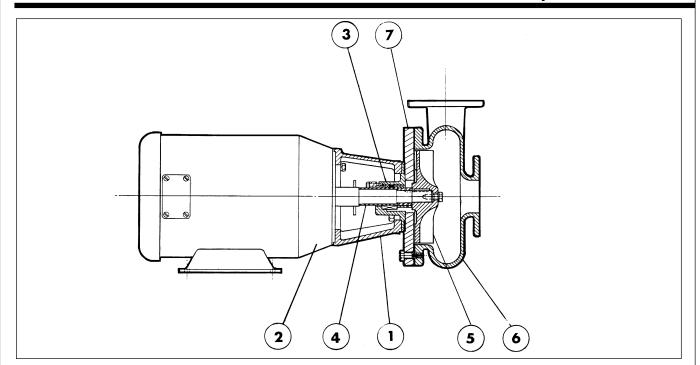
### **CAPABILITIES:**

- Capacities to 1600 GPM
- Heads To 170 Feet TDH
- Temperature to 250°F
- Back Pull-Out Construction
- Fully Recessed Vortex Impeller
- Packing or Mechanical Seal

### **CONSTRUCTION:**

- Cast Iron
- 316 Stainless Steel Fitted
- All 316 Stainless Steel
- Alloy 20
- CD4MC...

Series 1600 horizontal close-coupled end suction pumps are designed for use with any NEMA Standard JP Shaft Motor. VERTIFLO's close-coupled pumps are designed with back pull-out feature. This important feature allows for easy inspection or service/ maintenance (if ever needed) without disturbing the piping to the pump: An important cost saving feature. Packing or various mechanical seal arrangements are available as standard options of this rugged, dependable product.



#### 1. Mounting Bracket

Rugged cast iron design which assures a solid, dependable pump installation and operation. Three brackets fit all pump sizes.

#### 2. Motor

NEMA standard JP shaft extension allows for easy interchangability to packing, standard mechanical seal or optional single or double mechanical seals of various designs and materials of construction.

#### 3. Shaft Sealing

Packed arrangement utilizes a 2-piece split gland, slinger, Teflon® split lantern ring and 5-ring packing set. Grease lubrication is standard with product or water flush available. Wide choice of John Crane and Durametallic mechanical seals of various configurations and materials are optional.

#### 4. Shaft Sleeve

316 stainless steel is standard. Positively driven and gasketed, protecting motor shaft from liquid being pumped.

E.I DuPont registered®

### 5. Impeller

Fully recessed design which accommodates passage of solids. All impellers have wiping vanes which reduce axial loading and prevent dirt from entering the sealing area. Impeller is keyed to shaft, and an impeller locking screw assures positive attachment.

#### 6. Casing

Vortex-type concentric design. Extra heavy wall thickness for corrosion allowance. All suction and discharge openings are flanged for installation ease and integrity.

#### 7. Back Pull-Out

All pumps are designed with back pull-out feature which allows for removal of all pump rotating components without disturbing the piping connections.

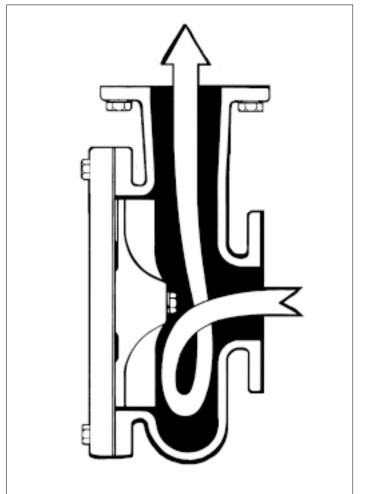
# VEFULFU PUMP COMPANY

#### **Standard**

- All iron construction
- 316 stainless steel shaft sleeve
- Fully recessed impeller
- Back pull-out design
- Packed stuffing box or mechanical seal
- Flanged suction and discharge on all pump sizes
- NEMA standard JP shaft motor

### **Options**

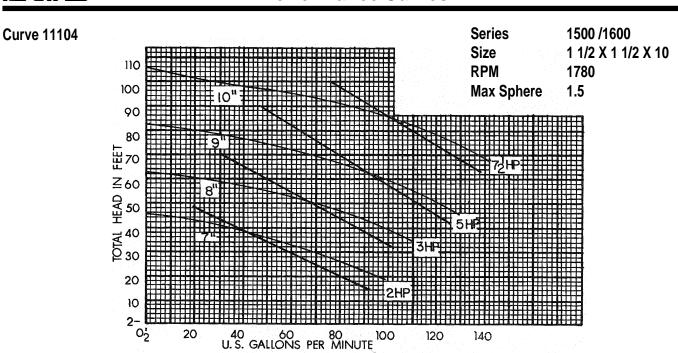
- 316 stainless steel impeller
- All 316 stainless steel or Alloy 20 construction
- Single or double mechanical seal (various materials)
- Product or fresh water flush to packing or mechanical seal
- Teflon® packing (standard in s.s. and alloy units)
- ODP, TEFC

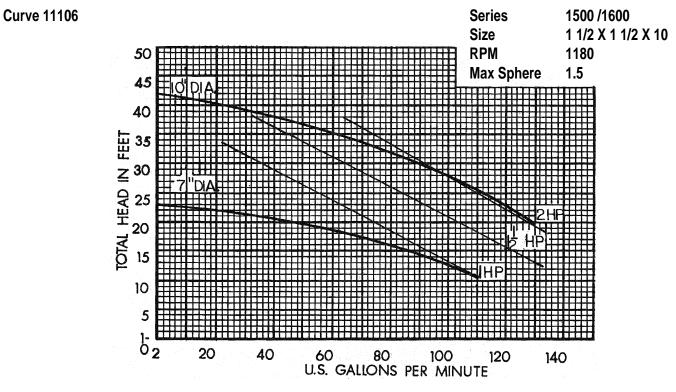


Vortex Design provides an unrestricted flow since the impeller is not normally in contact with the solids being pumped.

Design Details	Model 1620	Model 1626
Rotation from driver end	CW	CW
Outside diameter of shaft sleeve	1.250	1.625
Shaft diameter at impeller	0.875	1.250

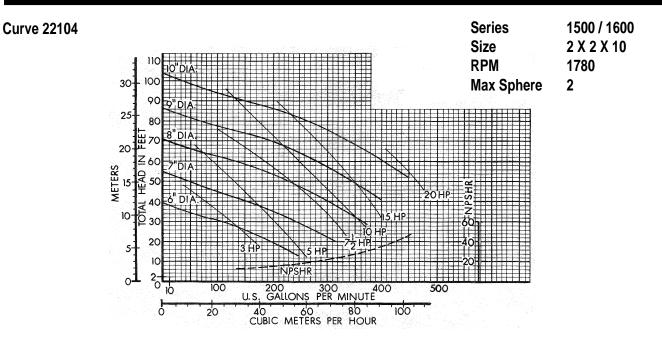
# VERIFIED PUMP COMPANY Performance Curves

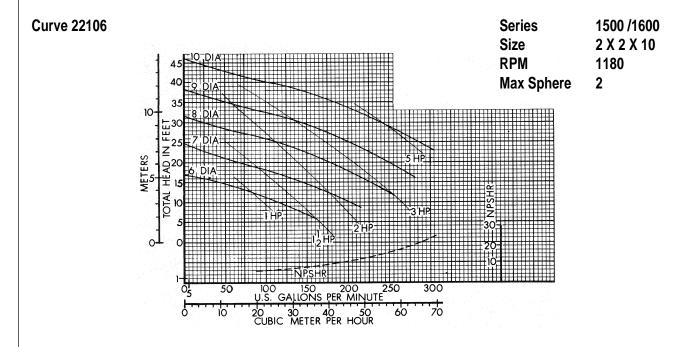




Performance at Casing I	Discharge Flange				
Curves Show Performan	ce with Liquid Havir	ng Specific Gravity 1.0	O Viscosity • 30 SSU		
CUSTOMER				CU	STOMER NO
PROJECT					
ENGINEER					
CONTRACTOR					
CONDITIONS:	GPM	TDH	HP	EFF%	IMP. DIA

# VERUIFU PUMP COMPANY Performance Curves



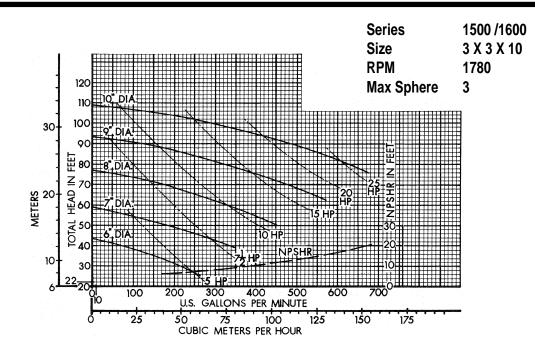


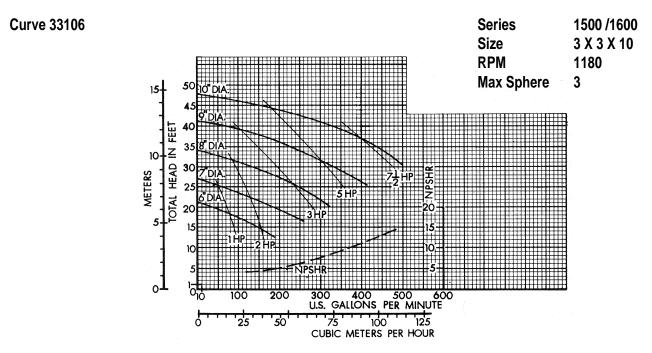
Performance at Casing Discharge Flange

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

# VECULEU PUMP COMPANY Performance Curves

**Curve 33104** 

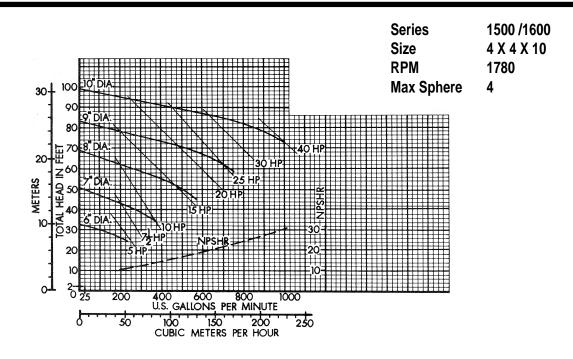


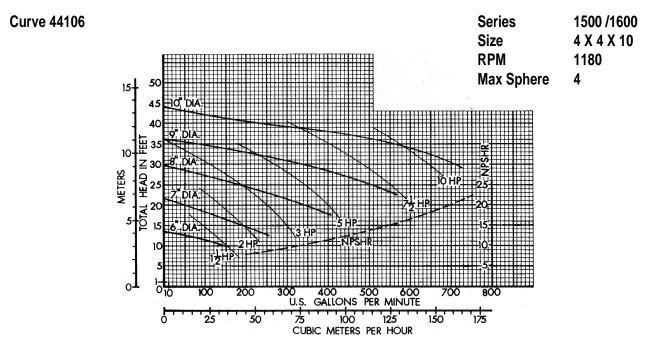


Performance at Casing D	Discharge Flange				
Curves Show Performan	ce with Liquid Havi	ng Specific Gravity 1.	0 Viscosity • 30 SSU		
CUSTOMER				CU	JSTOMER NO
PROJECT					
ENGINEER					
CONTRACTOR_					
CONDITIONS:	GPM	TDH	HP	EFF%_	IMP. DIA

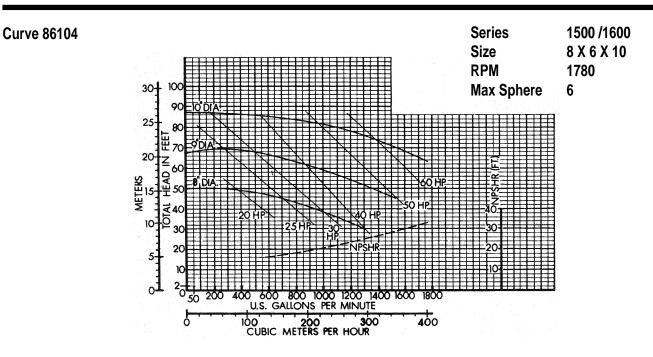
## VEGUITUO PUMP COMPANY Performance Curves

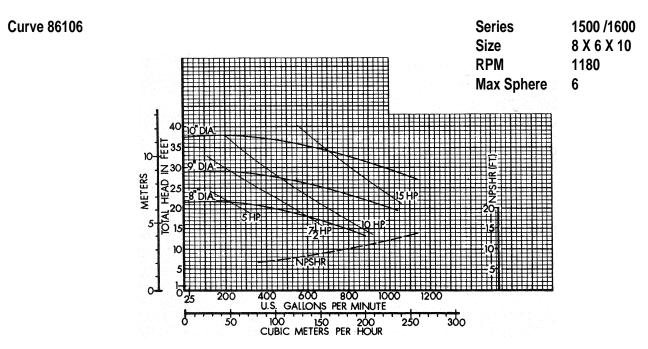
**Curve 44104** 





# VERIFIED PUMP COMPANY Performance Curves



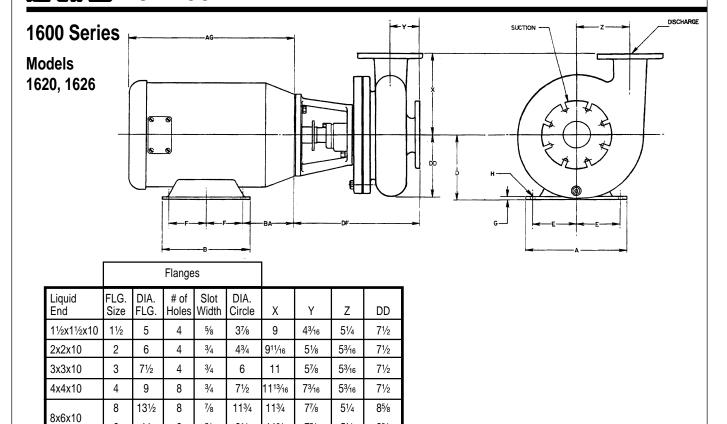


Performance at Casing D	ischarge Flange				
Curves Show Performan	ce with Liquid Havi	ng Specific Gravity 1.0	Viscosity • 30 SSU		
CUSTOMER				Cl	JSTOMER NO
PROJECT					
ENGINEER					
CONTRACTOR					
CONDITIONS:	GPM	TDH	HP	EFF%	IMP. DIA

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# VERIFIED PUMP COMPANY Dimensions

Date: November 1, 1989



Motor **Details** 

	A	В	D	Е	F	G	Н	AG	ВА
143JP	6½	6	3½	23/4	2	1/8	11/32	97/16	41/2
145JP	6½	6	3½	23/4	2½	1/8	11/32	97/16	41/2
182JP	8%	63/8	41/2	3¾	21/4	3/8	13/32	13½	51/8
184JP	8%	6%	41/2	3¾	23/4	3/8	13/32	13½	51/8
213JP	91/2	73/8	51/4	41/4	23/4	5/8	13/32	15½	67/8
215JP	91/2	87/8	51/4	41/4	3½	5/8	13/32	17	67/8
254JP	11%	1011/16	61/4	5	41//8	11/16	17/32	201/8	7%
256JP	11%	127/16	61/4	5	5	11/16	17/32	21%	7%
284JP	127/8	121/4	7	5½	43/4	3/4	17/32	22%	7%

91/2

11

11¾

77/8

51/4

85/8

	DF				
Pump Size	56-184 JP	213-326 JP			
1½x1½x10	12%	131/8			
2x2x10	14	14½			
3x3x10	15%	161//8			
4x4x10	18	18½			
8x6x10	22½	23			

Not for construction unless certified, some dimensions may vary  $\pm$  1/2". Pump Construction:

CUSTOMERPROJECT		CUSTOMER NOSERIAL NOLOCATION					
CONTRACTOR				LOOATION_			
PUMP Model Size DATA		Curve No.	GPM Head	SP. GR.@Tem	p.		
MOTOR Mfgr.	HP	RPM Volt-Ph	nase-Cycle	Frame ENC.	Furnished by	Mounted by	
Shop Order			by	Da	te		