

# PUMPS FOR INDUSTRY

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### **VENIFIO** SERIES 1100

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



### **WIDE RANGE OF APPLICATIONS:**

- Coal Fine and Slurry
- Waste Paper Stock
- Clay and Water
- Iron Ore Slurry
- Process Water
- Black Liquor

### **CAPABILITIES:**

- Capacities to 1600 GPM
- Heads to 170 Feet
- Temperature to 400°F
- Pump Length to 6 Feet
- Shaft Diameter to 5"
- Construction: Cast Iron, 316 Stainless Steel, Alloy 20, CD4MC
- Solids up to 4" Diameter Spheres

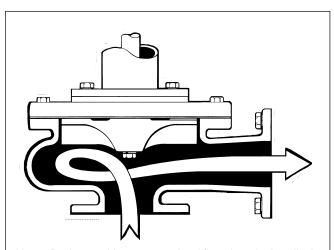
### **CONSTRUCTION:**

#### Standard

- All iron
- Fully recessed impeller
- High thrust, double row thrust bearing
- Stress-proof steel shaft
- Round, square or oval cover plates
- External impeller adjustment
- Flanged suction and discharge on all sizes

#### **Options**

- · Stainless steel fitted
- All stainless steel
- Alloy 20
- Heavy wall discharge pipe
- Special floor plate sizes and configurations
- Control panels
- Level controls
- V-Belt Drives



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

All cantilever pumps are hydraulically selected and engineered at the factory

### VESUISEO PUMP COMPANY

### **Superior Features**

### 1.Flexible Coupling

# 2. External Impeller Adjustment

High performance maintained without dismantling pump

#### 3. Bearings

All bearings are located above the floor plate. Moisture-proof enclosure with (2) grease seals, purge type grease lubrication. Extra heavy construction incorporating long bearing span for increased shaft rigidity and long pump life.

#### 4. Direct or Belt Drives

Direct drive with standard Nema "C" face motor- Belt drive with standard "T" frame motor mounting also available

#### 5.Shafting

Rugged alloy accurately machined with taper to precision tolerances

#### 6. Column

Heavy duty steel with welded flanges.

#### 7. Shaft Sleeve (optional)

Protects shaft from abrasive particles at the throttle area.

#### 8. Positive Machined Fits

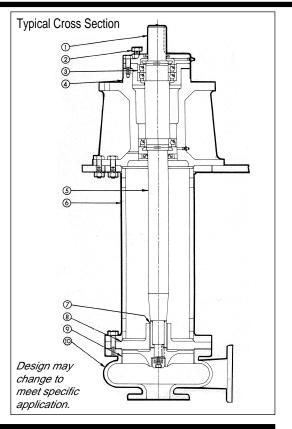
Rabbet fit to assure positive alignment throughout pump construction.

#### 9. Impeller

Fully recessed vortex design eliminates clogging when handling large or fibrous solids. Eductor vanes reduce pressure and solid particle buildup behind the impeller.

#### 10. Casing

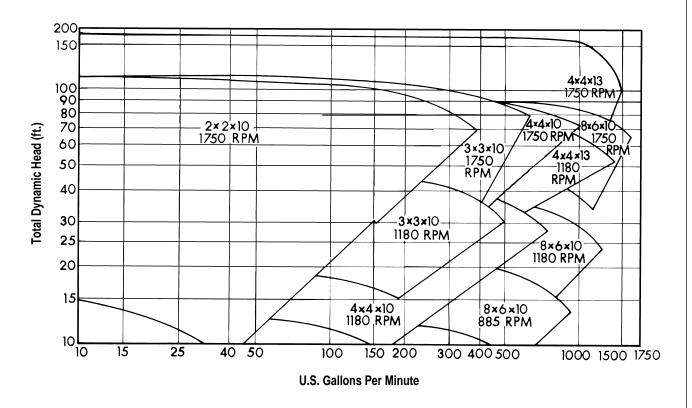
Vortex-type concentric design. Extra heavy wall thickness for corrosion allowance. Designed to allow passage of large solids.



#### **Materials of Construction** Part All Iron 316 Stainless Fitted All 316 Stainless Alloy 20 Description **Support Head** Steel or Cast iron Steel or Cast Iron Steel or Cast Iron Steel or Cast Iron **Thrust Bearing** Steel Steel Steel Steel Housing, Bearing Thrust Bearing, Steel Steel Steel Steel **Radial Bearing** Lip Seals Nitrile Nitrile **Nitrile** Nitrile Shaft Steel C1144 Stainless Steel AISI-316 Stainless Steel AISI-316 Alloy 20 Shaft Sleeve Stainless Steel Stainless Steel AISI-316 Stainless Steel AISI-316 Alloy 20 (optional) AISI-316 Impeller Nut Stainless Steel Stainless Steel AISI-316 Stainless Steel AISI-316 Alloy 20 **AISI-316** Case Adaptor Steel Steel Stainless Steel AISI-316 Alloy 20 Impeller Cast Iron Class-30 Stainless Steel AISI-316 Stainless Steel AISI-316 Alloy 20 Casing Cast Iron Class 30 Cast Iron Class 30 Stainless Steel AISI-316 Alloy 20 Steel Stainless Steel AISI-316 Steel Alloy 20 Column, Discharge Pipe, Discharge Elbow

### VEFUTEO PUMP COMPANY Performance Curves

### **Series 1100 Composite Chart**



Refer to Series 900 for Specific Vortex Performance Curves

### Performance at Casing Discharge Flange

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

CUSTOMER \_\_\_\_\_ CUSTOMER NO. \_\_\_\_\_
PROJECT \_\_\_\_\_
ENGINEER \_\_\_\_\_
CONTRACTOR \_\_\_\_
CONDITIONS: \_\_\_GPM \_\_\_\_TDH \_\_\_HP \_\_\_EFF%\_\_\_IMP. DIA \_\_\_\_\_

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### **VERUES 1200** SERIES 1200

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



### **WIDE RANGE OF APPLICATIONS:**

- Industrial Process
- Corrosive Liquids
- Paint
- Waste Water
- Chemical Slurries

### **CAPABILITIES:**

- Capacities to 3000 GPM
- Heads to 230 Feet
- Temperature to 400° F
- Pump Length to 6 Feet
- Shaft Diameter to 5"
- Construction: Cast Iron, 316 Stainless Steel, Alloy 20, CD4MC,

### **CONSTRUCTION:**

#### Standard

- All iron
- Semi-open centrifugal impeller
- High thrust, double row thrust bearing
- Stress proof steel shaft
- Round, square or oval cover plates configurations
- External impeller adjustment
- Flanged suction and discharge on all sizes
- Pump lengths up to 6 feet
- Shaft diameters to 5"

#### **Options**

- · Stainless steel fitted
- All stainless steel
- Alloy 20
- Heavy wall discharge pipe
- Special floor plate sizes and configurations
- Control panels
- Level controls

All cantilever pumps are hydraulically selected and engineered at the factory

### VESUISEO PUMP COMPANY

### **Superior Features**

### 1.Flexible Coupling

## 2. External Impeller Adjustment

High performance maintained without dismantling pump

### 3. Bearings

All bearings are located above the floor plate. Moisture-proof enclosure with (2) grease seals, purge type grease lubrication. Extra heavy construction incorporating long bearing span for increased shaft rigidity and long pump life.

#### 4. Direct or Belt Drives

Direct drive with standard Nema "C" face motor- Belt drive with standard "T" frame motor mounting also available

### 5.Shafting

Rugged alloy accurately machined with taper to precision tolerances

#### 6. Column

Heavy duty steel with welded flanges

### 7. Shaft Sleeve (optional)

Protects shaft from abrasive particles at the throttle area

#### **8 Positive Machined Fits**

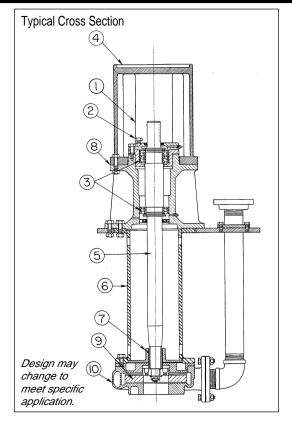
Rabbet fit to assure positive alignment throughout pump construction

#### 9. Impeller

Semi-open centrifugal design with balance ring and eductor vanes

#### 10. Casing

Sizes 4 X 3 X 10 and larger are double volute. Heavy wall thickness for corrosion allowance

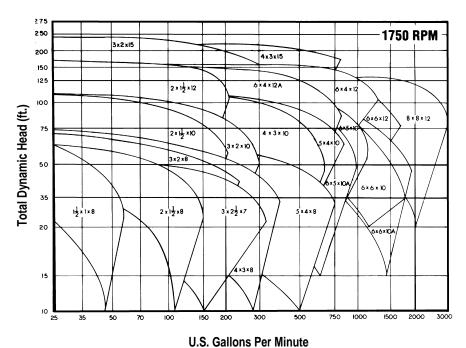


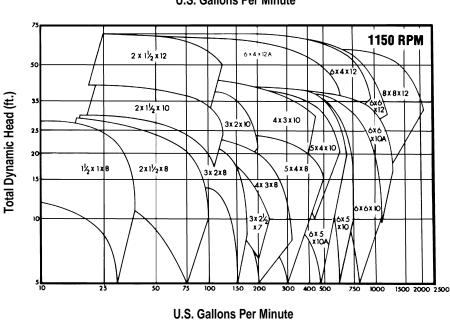
### **Materials of Construction**

Part Description	All Iron	316 Stainless Fitted	All 316 Stainless	Alloy 20
Support Head	Steel or Cast iron	Steel or Cast Iron	Steel or Cast Iron	Steel or Cast Iron
Thrust Bearing Housing, Bearing Cap	Steel	Steel	Steel	Steel
Thrust Bearing, Radial Bearing	Steel	Steel	Steel	Steel
Lip Seals	Nitrile	Nitrile	Nitrile	Nitrile
Shaft	Steel C1144	Stainless Steel AISI-316	Stainless Steel AISI-316	Alloy 20
Shaft Sleeve (optional)	Stainless Steel AISI-316	Stainless Steel AISI-316	Stainless Steel AISI-316	Alloy 20
Impeller Nut	Stainless Steel AISI-316	Stainless Steel AISI-316	Stainless Steel AISI-316	Alloy 20
Case Adaptor	Steel	Steel	Stainless Steel AISI-316	Alloy 20
Impeller	Cast Iron Class-30	Stainless Steel AISI-316	Stainless Steel AISI-316	Alloy 20
Casing	Cast Iron Class 30	Cast Iron Class 30	Stainless Steel AISI-316	Alloy 20
Column, Discharge Pipe, Discharge Elbow	Steel	Steel	Stainless Steel AISI-316	Alloy 20

### VEFUTED PUMP COMPANY Performance Curves

### **Series 1200 Composite Performance Charts**





### Refer to Series 800 for Specific Performance Curves

Performance at Casing D	ischarge Flange					
Curves Show Performance	e with Liquid Havi	ng Specific Gravity 1.0	0 Viscosity • 30 SSU			
CUSTOMER				CU	STOMER NO	
PROJECT						
ENGINEER						
CONTRACTOR_						
CONDITIONS:	GPM	TDH	HP	EFF%	IMP. DIA	

VERILLO PUMP COMPANY	
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