

# PUMPS FOR INDUSTRY

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### 1100

## **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

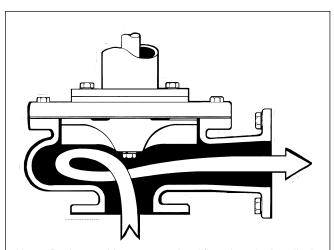
### **CONSTRUCTION:**

#### 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

Discharge Elbow

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

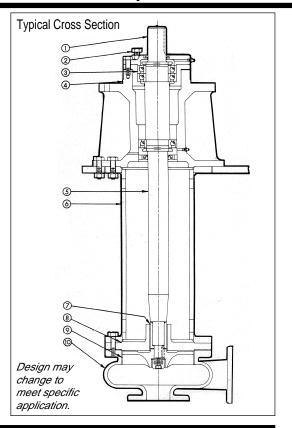
Rabbet fit to assure positive alignment throughout pump construction.

#### 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.



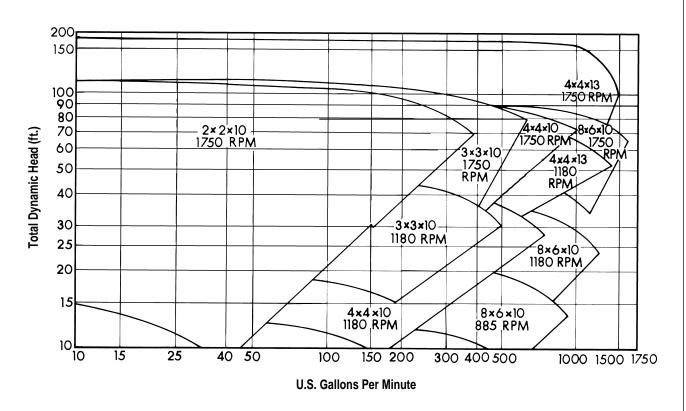
## Materials of Construction Part All Iron Description

| Part<br>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<br>Housing, Bearing<br>Cap | Steel                       | Steel                    | Steel                    | Steel              |
| Thrust Bearing,<br>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<br>(optional)                | Stainless Steel<br>AISI-316 | Stainless Steel AISI-316 | Stainless Steel AISI-316 | Alloy 20           |
| Impeller Nut                              | Stainless Steel<br>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,<br>Discharge Pipe,                | Steel                       | Steel                    | Stainless Steel AISI-316 | Alloy 20           |

## 1100

## VEFUTED 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 • 30 SSU

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

| LEGIJEO PUMP COMPANY     |  |  |  |  |  |  |
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