

Vertical Double Casing Volute Pumps

VCMD

energy API CE



Applications

- Petroleum refinery
- Petrochemical industry
- General industrial
- Industrial drainage
- Other chemical industries

Feature

- ✓ High efficiency / Heavy and sturdy construction
- ✓ Completely standardization for wide application
- ✓ Maximum parts interchangeability
- ✓ API standard 610 (API Code : VS7)

Ratings

Capacity	Up to 100m ³ /min (26,417 US GPM)
Head	Up to 500m (1,640ft)
Discharge Pressure	Up to 60 kgf/cm ² (853 PSIG)
Hydrostatic Pressure	Up to 90 kgf/cm ² (1,280 PSIG)
Max. allowable Speed	Up to 3600min ⁻¹
Temperature	~180°C (356°F)
Flanges	ANSI, other standards also available
Location	Bottom Suction : Top Discharge
Seals	Conventional Packing or Mechanical Seal
Materials	According to API 610 Material code

*API610 latest edition is available on request

VCMD Model.



• VCM



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• Suction Casing

The lower suction casing is a double casing.

CW-Hydro, Inc.

Design drawing



• Casing

-Vertically suspended, Double-Casing Diffuser type pumps. Hydraulically efficient casing design. Based on many years experience, minimizes pump friction losses.

• Impeller

-Enclosed type impeller. It is easy to replace Casing wearing and Impeller wearing.



• Bearing

-Thrust bearings are 'Spherical thrust bearings' Having ample capacity to withstand axial thrust loads. The Bearings are oil-lubricated.

• Mechanical Seal

-Cartridge type. Products of all Mechanical Seal Makers are available.



• Intermediate Bearing

-Bearing materials, composition of which is determined according to the liquid handled, is retained inside cast casings. Number of bearings is determined by critical pump speed and shaft length.

Photo Resources



-Service : CONDENSATE PUMP
-Capacity : 420 m³/min
-Head : 310m
-Power : 600KW

Condensate Pumps
for Marafiq Yanbu Hydroelectric power plant

CW-Hydro, Inc.