

**VERTICAL DOUBLE  
SUCTION VOLUTE PUMP****VDM****APPLICATIONS**

- **Water works** Water intake/water supply/booster
- **Industrial use** Water intake/water supply/booster/water circulation/drainage/sea water desalination/chemical/refinery/fire fighting
- **Irrigation** Water supply/drainage
- **Building** Water supply/drainage/air conditioning
- **Pipe line** Water & crude oil transfer/booster

**APPLICATION RANGE**

- Capacity : Approx.35 ~ 250m<sup>3</sup> / min (9200 ~ 66000 USGPM)  
 Total head : Approx.7 ~ 190m (23 ~ 620 ft)  
 Liquid : Fresh water/industries/river water/sea water/brine/paper stock/hydrocarbon etc.

**SPECIFICATIONS**

	STANDARD	OPTIONAL
Liquid temperature	Below 80°C (176°F)	81~120°C(177 ~ 248°F)
Shaft seal	Gland packing	Mech. seal
Direction of rotation	CW(viewed from driver)	CCW
Flange	JIS 10K/JIS 20K	Any standard
Suc./Disch. direction	Side-side	Other direction such as bottom suction
Drive method	Motor direct drive	Diesel engine drive, Turbine drive through gear, etc.
Accessories	Common base, foundation bolts, shaft coupling, air vent piping, self sealing water piping, drain piping	Pump base, pressure gauge, compound gauge, vacuum gauge, priming detector, solenoid valve for priming line, pressure switch, bearing thermometer, bearing dial thermometer with an alarm contact, tools, companion flange, etc.

(NOTE) Other specifications can be available, if required.

**MATERIALS (Typical material combinations)**

	Fresh water/River water/Industries	Sea water	Hydrocarbon
Casing	Cast Iron	Low Alloy Cast Iron/Ni-resist D2/316S.S.	Cast Steel
Impeller	Cast Iron/Bronze/304S.S.	316S.S.	410S.S.
Shaft	Carbon Steel/4140 Steel	316S.S.	Carbon Steel/4140 Steel
Packing sleeve	304S.S.	316S.S.	420S.S.
Casing ring	Cast Iron/Bronze/304S.S.	316S.S.	403S.S.

- (NOTE) • Other materials such as Nickel aluminium bronze, Duplex stainless steel, Monel, Alloy 20, etc. can also be applied.  
 • Selection of material requires careful study of the properties of the liquid handled and of the operating conditions, etc.  
 For specific details, please consult our factory.