

Deep Well Vertical Turbine Pump

LC-Type · GB/T 3215-2019 VS1 · Single & Multi-stage

Shanghai Mislier Pump Industry Co., Ltd.

Product Overview

The Deep Well Vertical Turbine Pump is a vertical single-stage or multi-stage suspended single-casing pump designed to GB/T 3215-2019 VS1 standard. It adopts a submerged impeller and discharges liquid through a central pipe. The design delivers compact structure, stable operation, easy maintenance, a small installation footprint, and a high degree of versatility and standardization — making it one of the most advanced and mature products in Mislier's industrial pump portfolio.

Key Highlights

Vacuum-Free Start-Up	Horizontal outlet and vertical down-facing suction eliminate the need for priming.
Compact Single-Foundation	Direct pump-to-motor coupling on a single foundation minimises floor space.
Optimised Hydraulics	Advanced hydraulic design software ensures superior performance, anti-wear impeller and guide vane geometry, and high energy efficiency.
Protected Drive Train	Multi-section intermediate shaft, delivery pipe, and protective pipe connected by threaded or sleeve couplings — submerged depth adjustable on site.
Versatile Bearing System	Guide bearings of PTFE, cyclohexane, or nitrile rubber; self-closing seal prevents sewage ingress when pump is stopped.
Single or Multi-Stage	Impeller and guide vane count is selectable to meet varying head requirements.

Applications

• Municipal Water Supply	• Industrial Water Supply & Drainage	• Irrigation & Flood Control
• Power Plants (Thermal & Nuclear)	• Steel & Cement Industries	• Refineries & Petrochemical
• Mine Seepage Water	• Seawater Intake (Offshore)	• Fire-Fighting Systems
• Condensate Extraction	• Cooling Tower Circulation	• Dry Dock Dewatering

Product Types

General Purpose	Clean water or media with similar physicochemical properties to clean water.
Low-Wear Type	Corrosive/abrasive media: Yellow River water, iron oxide scale water, ash slag water, crystallising media.
Corrosion-Resistant	Acidic, alkaline, seawater, and other corrosive media.
Pouch Type	Condensate, various oils, and other media requiring high cavitation resistance.

Main Parts Material List

Component	Clear Water	Sewage / Impurity Water	Seawater & Corrosive Media
Suction Bell Mouth	HT250	QT500-7 or ZG2Cr13, HT250Ni2Cr	ZG00Cr17Ni14Mo2 / ZG00Cr22Ni5Mo3N
Impeller	ZG230-450	ZG2Cr13 / ZG0Cr13Ni4Mo, ZG1Cr18Ni9Ti	ZCuZn16Si4 / ZG00Cr17Ni14Mo2 / ZG00Cr22Ni5Mo3N
Impeller Chamber	ZG230-450	ZG2Cr13 / ZG0Cr13Ni4Mo, ZG1Cr18Ni9Ti	ZCuZn16Si4 / ZG00Cr17Ni14Mo2 / ZG00Cr22Ni5Mo3N
Sealing Ring	HT250 / 0Cr18Ni9	ZG2Cr13 / ZG0Cr13Ni4Mo, ZCuZn16Si4	ZCuZn16Si4 / ZG00Cr17Ni14Mo2 / ZG00Cr22Ni5Mo3N
Guide Vane Body	HT250	QT500-7 / ZG2Cr13 / ZG0Cr13Ni4Mo, ZG1Cr18Ni9Ti	ZG00Cr17Ni14Mo2 / ZG00Cr22Ni5Mo3N
Shaft	45 or 2Cr13	40Cr or 2Cr13, 1Cr18Ni9Ti	00Cr22Ni5Mo3N
Shaft Sleeve	45 or 0Cr18Ni9	0Cr18Ni9 / 2Cr13, 1Cr17Ni2	00Cr17Ni14Mo2 / 00Cr22Ni5Mo3N
Guide Bearing	PTFE / Nitrile Rubber / Bronze / Theron	← Same	← Same
Intermediate Coupling	45 or 2Cr13	40Cr or 2Cr13, 1Cr17Ni2	00Cr17Ni14Mo2 / 00Cr22Ni5Mo3N
Outlet Elbow	Q235B	Q235B, 1Cr18Ni9Ti	00Cr17Ni14Mo2 / 00Cr22Ni5Mo3N
Motor Base	Q235B	Q235B	Q235B

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