

KISHOR[®]

High Technology Tailor-Made Pumps



Experience our Experience



VERSA
Process
Pumps
Series

KISHOR PUMPS Chemical Process Pumps Series (VERSA)

With four decades of experience and expertise, KISHOR PUMPS has been partnering industry majors across the world in the successful execution of projects with its leading age Chemical Process Pumping Solutions. VERSA, our innovative range of Process Pumps caters to numerous critical operations in the process industries like transfer of various kinds of acids, alkalis & solvents and handling of various corrosive liquids. Highly efficient and advanced technology, solution engineering, lifelong performance and excellent service support made us the most accomplishing system partner. Industry majors' preferred choice and India's renowned consultants' approvals stand testimony to the fact that our Chemical Process Pumps are widely accepted for quality and value for investments.

The KISHOR Advantages

- A trusted name in fluid handling for 45 years
- A company with high-tech solutions for fluid handling
- A wide range of products to serve every segment of industry
- Tailor-made pumping solutions
- Approved by all major consultants / inspection agencies
- State of the art manufacturing and testing facilities
- Wide spectrum of material to suit all liquids
- A wide spread network to reach all geographical locations



Applications

Ideal choice for aggressive process chemicals of corrosive and abrasive nature like:

- Acids • Alkalies • Solvents • Slurries • Hydrocarbons • Crystallizing Liquids • Chemical Effluents
- Hot Oils • Sea Water

User Industries

- Chemicals • Refineries • Power • Mining • Textile • Paper and Pulp • Pharmaceuticals
- Water Treatment • Petrochemicals • Fertilizers • Steel • Plastics & Rubber • Paints and Dyes
- Sugar • Automobile • Bulk Drugs



Range

Capacity	: Upto 1500 cumph
Head	: Upto 150 mlc
No. of Sizes	: 46
Installation Depth	: Upto 10 m (For Vertical Extended Shaft Execution)
Temperature	: -30°C to + 200°C
Viscosity	: Upto 20 cst
Sp. Gravity	: Upto 2
Test Pressure	: Upto 16 kg / sq.cm.

Material of Hydraulic Parts

- Cast Iron
 - Ductile Iron
 - Alloy Cast Iron
 - Stainless Steels
 - Super Alloys
 - Nickel Alloys
 - Bronzes
 - Rubberlining
- (Special materials other than above available on request.)

Horizontal Execution

Bearing Frames

Delivery Dia. mm	Nominal Impeller Diameter in mm						
	125	160	200	250	315	400	500
25	•	•	•				
32					•		
40							
50							
65							
80							
100		•					
125			•				
150			•				
200							

Bearing Frame 1 Bearing Frame 2
 Bearing Frame 3 Bearing Frame 4

• Sizes developed by KISHOR, though not covered in DIN 24256

Standard Features

- Centrifugal, Single Stage
- Back pull out design
- End Axial Suction, Top centerline delivery
- Dimensions as per DIN 24256 / ISO 2858
- Flanges as per DIN standard
- Shaft sealing by mechanical seals
- Sealed, grease lubricated, ball bearings

Optional Features

- Variety of wear rings
- Water Jacketed gland / Bearing chamber
- Shaft Sealing by gland packing or a variety of standard mechanical seals
- Oil sealing by Labyrinth seal
- Heavy duty roller / angular contact bearings
- Bearing lubrication by oil
- ANSI drilling on DIN flanges
- Pulley Belt Drive, Turbine Drive, Diesel Engine Drive
- Provision for all API Flushing Plans

Versions: Horizontal Execution

- **VERSA-HN** : Standard Version as per DIN 24256 / ISO 2858
- **VERSA-HM** : Motor Shaft Version
- **VERSA-HS** : Single Bearing Version
- **VERSA-HE** : Elegant Version
- **VERSA-HP** : Self Priming Version
- **VERSA-HH** : Hard Material Version
- **VERSA-HJ** : Jacketed Version
- **VERSA-HL** : Rubberlined Version



VERSA-HH



VERSA-HN

(Horizontal Chemical Process Pumps)

Vertical Execution

Standard Features

- Centrifugal, Single Stage
- Bottom axial suction, tangential delivery
- Glandless execution
- Grease lubricated deep groove ball bearings
- Closed impellers
- Rectangular support plate

Optional Features

- Variety of wear rings
- Semi-open impellers
- Shaft Sealing by gland packing or a variety of standard mechanical seals
- Wet bearing lubrication by pumped liquid / water / grease for higher installation depths
- Support plate of various shapes, sizes and standards
- Steam jacketing for special liquids like molten sulphur or lead
- Cantilever design for slurry applications
- Rubber lining for casing, column pipe & delivery pipe for corrosive liquids
- Sandwich design for hard materials like Ni-Hard, Hard Chrome Iron

Versions: Vertical Execution

VERSA-ES : Standard Glandless Version

VERSA-EG : Vapor Sealing (Gland Packed) Version

VERSA-EV : Vapor Sealing (Mech. Seal)Version

VERSA-EJ : Steam Jacketed Version for Crystallizing Liquids

VERSA-EC : Cantilever Version

VERSA-EL : Rubber lined Version

VERSA-ED : Dual Delivery Version

Advantages

- Priming not necessary since pump casing is submerged upto the lowest pumping level
- No cavitation since casing and impeller are submerged under liquid
- No need of suction piping
- Expert services for pump and motor shaft alignment not required since vertical flange mounted motor can be easily fitted to the concentrically machined motor stool
- Longer trouble free working cycle with liberally designed shaft, coupling and wet bearings



VERSA - ED
(Typical Dual Delivery Version)

Preferred choice for Import Substitution

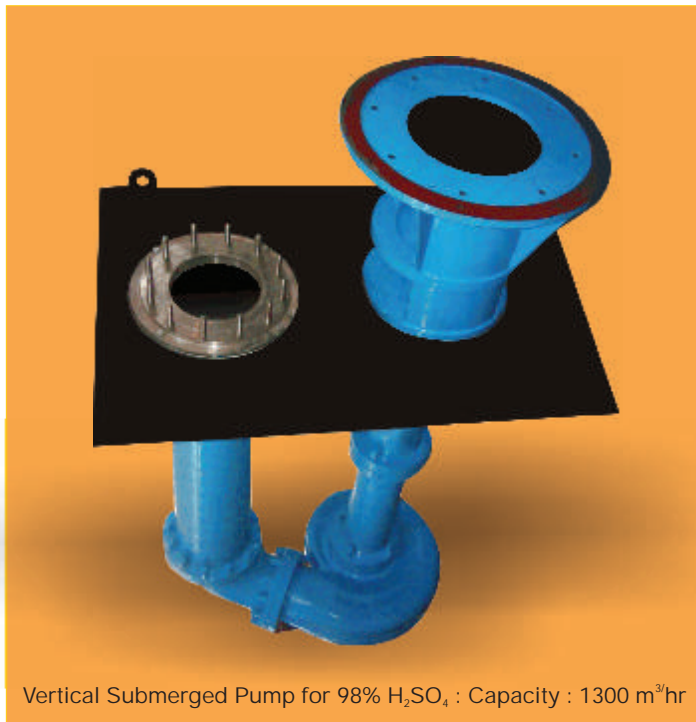
Since we have introduced the Vertical Submerged Pumps in India, KISHOR PUMPS has become a preferred choice for import substitution for critical applications. Multifaceted Research and Development activities, immensely updated and advanced technology and commitment to international standards earned us this reputation.

Interchangeability

The entire series is designed with modular units and pumps of all sizes are built by these modular units offering the best possible interchangeability.

Reliability

The pumps are hydraulically designed for maximum efficiency. Every pump passes through stringent process and quality control plans and is designed to give longer life with consistent performance and trouble free service. This makes our Process Pumps.... **Lifelong Performers!**



VERSAs - EJ

VERSAs - EL

Exporting Excellence Overseas

- Algeria
- Australia
- Bangladesh
- Belgium
- Egypt
- Malaysia
- Nepal
- Singapore
- The Netherlands
- Sri Lanka
- Saudi Arabia
- Thailand
- U.K.
- Ukraine
- France
- Germany
- Indonesia
- Japan
- Lithuania
- Congo
- Zambia
- Nigeria
- Kuwait
- Qatar
- Russia

Recognition that makes a difference

- Engineers India Ltd.
- UHDE India Ltd.
- Kvaerner Power Gas Ltd.
- TCE Consulting Engineers
- Fitchner Consulting Engineers
- M. N. Dastur & Co.
- Technip Consulting Engineers
- Jacobs H & G
- L&T Chiyoda Ltd.
- Tecnimont ICB Ltd.
- Toyo Engineering
- Lurgi India Co Pvt. Ltd.
- DESEIN
- MECON
- D. C. L., Kolkata
- SNC Lavlin Engg.

The world counts on us also for...

- Industrial Water Pumps
- Thermic Fluid Pumps
- Hygienic Liquid Pumps
- Submersible Sewage Pumps
- Submersible Wastewater Pumps
- Submersible Dewatering Pumps

- Apex Division
CMD : Corporate Management Division, Pimpri, Pune.
- Manufacturing Divisions
IPD : Industrial Pumps Division, Pimpri, Pune.
EPD : Enviro Pumps Division, Kuruli, Pune.
SPD : Standard Pumps Division, Satara.
- Trading Division
TPD : Trading Products Division, Kuruli, Pune.
- Support Divisions
CSD : Customer Support Division, Pune.
IBD : International Business Division, Pune.

-
- Sales and Service Offices in India
Mumbai, Delhi, Chennai, Kolkata, Pune,
Bangalore, Vadodara, Hyderabad, Coimbatore.
 - Service Centres in India
Pune, Chennai, Ambala, Kolkata.

Due to constant Research & Development, the above information is subject to change without prior notice. Colours do not signify materials.



KISHOR PUMPS PVT. LTD.

Customer Support Division : 22, Barve Complex, 11710/1, J. M. Road, Shivajinagar, Pune - 411 005, INDIA.
Tel: +91-20 25535449 / 459, Fax : +91-20 25535129,
E-mail : processpumps@kishorpumps.com

International Business Division : E-mail : international@kishorpumps.com

www.kishorpumps.com