

PUMPS



SHIVA ENTERPRISES



Excellent Fluid
Handling Solutions

Excellent Fluid Handling Solutions

SHIVA ENTERPRISES offers comprehensive fluid handling solutions for various processes and application in several industries. Our extensive expertise in pumps, related products and fluid handling mechanism, our in-house engineering proficiency, well equipped facilities makes us one of the most competent organization to offer excellent fluid handling solutions in pocket friendly budget.

Pumps are most vital component equipments of any application and process for every industries and we offer various types of pumps suitable to the application based on our precise engineering and analysis.

Major Industries We Serve



Pharma and Biotech



Dairy/Food/Beverages



Sugar and Refineries



Automobile/Autocomps



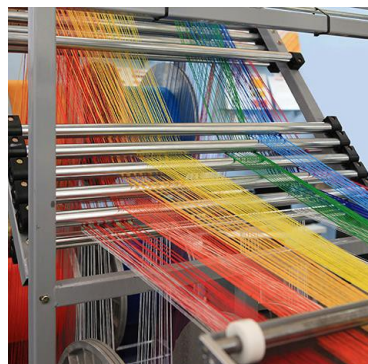
Pulp & Paper



Chemicals



Paints/ Inks/ Adhesives



Textile/Rubber/Plastics



Energy & Heavy Ind.

Centrifugal End-Suction Pumps for Process Fluids

Versatile, reliable, flexible metallic centrifugal type back-pull-out pumps to suit variety of applications.

Features

Standard and modular design with high efficiency impeller providing outstanding hydraulic performance.

Optimized volute design, high efficiency, minimal internal losses.

Available in variety of material options like cast iron, stainless steel, duplex etc. to suit wide range of applications. Drive options with flameproof enclosure is available for hazardous zone applications,

The pumps are more rigid, generate only minimal axial thrust and offer exemplary hydraulic characteristics. Low NPSH ensures that the pumps run quietly and smoothly for long durations.

Maximum operating reliability, optimum energy efficiency

Back-pull-out designed end suction pumps. So reduced downtime, quick and easy assembly, maintenance cost.

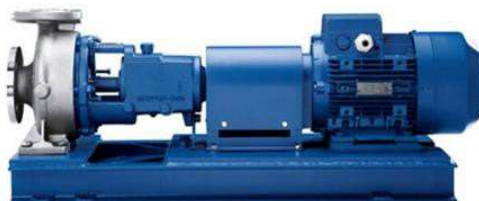
Gland packing, single or double mechanical sealing system of high quality to suit individual applications.

Ready on offer is complete pump set with bare pump, drive, mechanical seal, base frame, coupling and coupling guard etc.



Applications

Process engineering
Chemical industries
Evaporators
Sugar and refineries, sugar waste
MEE and ATFD plants
Biodiesel, bioethanol
Condensate
Hot water
Heat transfer media,
Cleaning agents
Thermic fluid
Steel industries
Brine
Petrochemical industries
Reverse osmosis
Pulp and paper
Slightly contaminated process fluid
Power material slurries
Sludge and sewage
Hot oil, edible oils
Textile slurries
Scrubber



Centrifugal Pumps for Water Applications

Centrifugal type pumps for clear water applications, versatile in nature, energy efficient.

Features

Standard and modular design with high efficiency impeller providing outstanding hydraulic performance.

Monobloc or back-pull-out design to suit wide range of applications.

Gland packed or with appropriate mechanical seals.

Available in variety of material options like cast iron, stainless steel, bronze or stainless steel impeller. to suit wide range of applications.

Dynamically balanced rotating parts ensure minimum vibration during running

Trimmed impeller diameter is offered to optimum standard operating point according to the requirement.



Applications

Cooling towers
Clear water handling
Firefighting water
Drinking water applications
Hot water transfer
Heating / cooling industrial circuits
Service water
Irrigation
Brackish water
Condensate
Effluent water etc.
Food and beverages industries
Domestic water supply
Water treatment
Pharma and biotech industries
Manufacturing process
Sealing water applications
Air conditioning
Utility water
Booster service
Storm water

Multi-Stage Centrifugal Pumps

Non-self-priming, high-efficiency multistage high-pressure centrifugal pump in *vertical* or *horizontal* design option of with in-line connections to suit the application perfectly.

Features

Reliable and service-friendly, space-saving, suitable for slightly aggressive liquids and are energy efficient.

Compact structure renders small size of pump; axial inlet and radial outlet.

Corrosion-resistant impellers, guide vanes and stage housings.

Flow and NPSH-optimized pump housing and corrosion-resistant impellers, guide vanes and stage housings

Pumps with various material of construction like stainless steel, with inlet/outlet cast iron, cast steel and various options of mechanical seals are available.

Applications

Water supply and pressure boosting
 Industrial circulation systems
 High pressure boiler feed
 Process water
 Fire extinguishing systems
 High Pressure Water Transfer
 Demineralization or DM plant
 Beverages, mineral water
 Cooling and air conditioning / HVAC
 CIP and SIP
 Water treatment and purification
 Plastic and rubber industries
 Chemical transfer applications
 Windmill cooling
 Manufacturing process
 Industrial cleaning
 High pressure domestic booster
 Raw water transfer in RO systems
 Heat exchangers, chillers
 Jockey high pressure fire fighting



Features

Quick automatic self-priming action

Dynamically balanced rotating parts ensure minimum vibration.

Automatic air release during priming.

Ability to handle liquids containing air or gas.

Non-clogging impeller to handle suspended solids.

No need of foot valve or a vacuum pump or separate priming chamber.

Easy repair and maintenance. Long life with performance.

Various options of material of constructions available.

Applications

Chemicals, petrochemicals
 Effluents, sewage, ash water
 Sewage pumping, civil constructions
 Water extraction, dewatering
 Irrigation and watering, etc.
 Cooling water
 Ship building and marine applications
 General industry, pharmaceuticals



Self-Priming Pumps

As the name suggests, the pumps do not need to be primed and are having negative suction used in several applications.

Submersible Pumps

Light weighted, compact design versatile, reliable, flexible submersible pumps are made to address specific needs of customers.

Features

High efficiency and energy saving design.

Wet type submersible motor

Water-cooled and water lubricated

Designed for underwater applications – No need of priming and foot valve

Replaceable wearing parts and hence longer life, easy maintenance.

Applications

Agriculture
 Irrigation
 Water supply
 Effluents and waste water
 Raw sewage
 Storm water
 Contaminated effluent
 Saline water
 Drain water
 Industrial waste
 Sprinkler irrigation
 Domestic water supply to high rise-establishments
 Clean water handling in industries
 Well, fountains, sumps, water tanks
 Borewell submersible pumps



Hygienic Stainless Steel Centrifugal Monobloc Pumps

Sanitary designed stainless steel single stage monobloc pumps are extensively used in dairies, beverages, food processing, pharmaceutical industries and all sanitary applications to transfer the process fluid.

Features

Entire product contact parts made of stainless steel and sanitary design create 100% hygienic pumping solutions.

Can work effortlessly with low NPSHA

High efficiency, avoid less circulation, low energy consumption and minimum operating / maintenance cost.

Dynamically balanced open impellers ideal for hygienic application

Option Stainless steel grades of 304, 304L, 316, 316L as material of construction, connection of Union/TC/Flange, single or double mechanical sealed pump with seal cooling arrangement, drive with flameproof enclosure for hazardous area.



Applications

Milk pump – milk transfer pump
 Process fluids
 Evaporation / MEE plants
 Hot water, process water transfer
 Juices, fruit based drinks
 Beverages,
 Breweries, wineries
 Sugar syrup, sugared water
 Curd milk, paneer milk, hot/chilled milk
 Wort, whey, mash transfer
 Oil, food processing,
 Chemicals, specialty liquids
 Pharmaceuticals, biotechnology
 Water treatment, packaged water
 Bulk Milk Cooler, tanker unloading
 All sanitary applications



Shear Pumps

Pump for mixing application is having rotor stator design with shear teeth arranged to rotate a very less clearance creating high turbulence and superlative mixing effect.



Features

Improves product texture and reduces process time.

With integrated impeller along with rotor stator teeth, product transfer with mixing.

Low operation and maintenance cost.

High quality mechanical seal design

Sturdy construction

Applications

Powder mixing system
 Curd churner, buttermilk
 Homogenous mixing application
 Ice cream mix preparation
 Replaces homogenizer
 Tomato ketchup

Liquid-Ring Pumps

Liquid ring pumps are stainless steel hygienic self-priming pumps which work on side channel principle.



Applications

Powder mixing system
 CIP Return
 Liquid with air and gas
 Milk and milk products
 Beverages
 Sugar syrup, sugar mixing
 Complete evacuation of tanks

Features

Self-priming, so negative suction.

Stable impeller and narrow sealing gaps ensure outstanding suction capacity.

Optimizes the draining of residue in cleaning processes.



Optimum performance with high quality mechanical seal design

Sturdy construction

Stainless Steel Rotary Lobe Pumps

Sophisticated positive displacement pumps with stainless steel twin or tri rotary lobes for gentle transfer of viscous fluids in various applications

Features

The new design permits economic pumping of high and gentle handling of the products.

The non-contacting contra-rotating twin / Tri lobes is a unique design. High precision and close tolerances lead to narrow packed sealing gaps which permit minimum back flow with high level of efficiency.

Low maintenance, durable, economical.

Applications

Dairies
 Fruit pulps
 Mayonnaise
 Tomato / Shezwan sauce
 Confectionaries,
 Food processing
 Ayurveda preparation
 Yogurt, culture mixed product
 High fat content products



Progressive Cavity Screw Pumps

The positive displacement progressive cavity pumps are compact, rugged, powerful applied in various industries.



Features

Positive displacement, smooth fluid discharge, accurate and repeatable continuous flow.

Compression fit between rotor and stator for high volumetric and mechanical efficiency

Works perfectly with low NPSHA, wide variation of NPSHA and temperature, high suction lift, also is self priming.

Low shear and high suction lift.

Non clogging, no retaining packets.

Various material of construction options available including cast iron, cast steel, stainless steel grades 304 and 316 for pumps, rotors and stators of EPDM, nitrile, fluoroelastomer, natural rubber etc. to suit the application appropriately.

Heavy duty transmission train.

Low maintenance casing & bearing housing assembly

Gland packing or mechanical sealing

Non - pulsating metered flow for accurate process control.

Long life even handling abrasive fluids

Vibration free quiet operation.

Ready on offer is complete pump set with bare pump, drive, mechanical seal, base frame, coupling and coupling guard etc.



Applications

Waste water treatment

Pulp and paper

Sugar and refineries

Chemical

Food processing

Petroleum

Building materials

Coal industry

Pharmaceuticals

Cosmetics

Fruit pulp and canning industry

Ceramic industry

Fertilizer

Marine feed

Dye stuff

Cattle feed

Mining feed

Edible oil

Paint, ink and varnish

Sewage and effluent treatment

Textile processing plants

Pharmaceutical

Breweries

Gelatin and starch

Gear Pumps

Sturdy built positive displacement pumps primarily used for thick and highly viscous product transfer, also used to transfer thin less viscous fluids.

Features

High volumetric efficiency with optimized rotor / gear shape and small and axial clearances, persisted performance

A combination of strong design with small or large clearances, unique gear tooth profile for low or highly viscous fluid transfer.

Can work with low NPSHR, enhanced priming.

Minimum maintenance, maximized life span, less downtime and long service life

Large vertical ports reduces risk of cavitation.

Prolonged seal and other components life.



Applications

Paint

Ink

Resins and adhesives

Pulp and paper

Acid, soap

Sludge,

Lime, latex

Sugar

Chocolates and cocoa butter

Molasses, vegetable fats and oils

Animal feeds

Chemicals like sodium silicate

Mixed chemicals

Plastics

Petrochemicals

Pure or filled bitumen

Diesel, crude oil, lube oil etc.



Premium Process Pumps

One of the finest design and superlative quality the premium process pumps from the house of ITT Gould comes with long durability and life

Features

Utilizing a modular design, the pump offers broad hydraulic coverage.

Minimized the number of components for reduced maintenance and inventory.

Long term reliability and performance for lower life cycle cost, so low total cost of ownership.

Heavy duty bearing frame, cyclone seal chamber, increased radial clearance maximizes seal life.

Back pull out design, precision-cast enclosed impeller provides maximum efficiency and optimum NPSH performance.

Available in wide range of materials like stainless steel, duplex stainless steel, alloy 20, carbon steel, Hastelloy etc.

Applications

Chemical process application
Industrial process fluids
Pharmaceuticals
Petrochemicals
Food industries
Pulp preparation
Metal processing
General industrial applications
Nuclear power plants
Waste disposal
Recycling industries
Water treatment plants



Heavy duty models for high pressure and temperature available.

Q upto 450 m³/hr, H upto 150 M,
Pressure upto 25 bar, Temperature range from -40 °C to 280 °C.

Special Application Pumps

We offer variety of pumps for special applications wide range of industries.

Water Ring Vacuum Pumps.



Plunger Type Dosing Metering Pump.



Oil Pumps



Piston Pumps



Lube and Hydraulic Pumps



Hand/Motor Operated Barrel Pumps



World-Class Non-Metallic PP/PVDF/PFA Centrifugal Pumps

Our extremely well-built world class non-metallic pumps comes with various material of constructions like PP, PVDF, PFA etc. for handling corrosive and aggressive chemicals.

Tools like Siemens CAD and CAM softwares are used to develop all components. Superior manufacturing process and SCADA based testing in automated state-of-the-art pump test bench create the ultra efficient magnificent non-metallic pumps



NK/NK-C Series Flagship Non-Metallic Chemical Pumps

These series pumps are compact, high efficiency, for demanding budgets. They are best suited for circulation of chemical in metal finishing industries.



Standard PP Series

This series is excellently suited to pumping tasks in the chemical industry, electroplating plants, metallurgical industries, steel and stainless steel pickling lines, evaporation and regeneration units, wet flue gas cleaning systems downstream of waste incinerators as well as in exhaust air scrubbing and industrial waste water treatment.



PVDF/PFA Horizontal Pumps Standard Series

The armoured pumps of the Standard PVDF series are designed to meet chemical process industry standards and are ideally suited to pumping chemicals and solvents posing an environmental or health hazard such as acids, alkalis, solvents or high value fluids with or without solids



AODD – Air Operated Double Diaphragm Pumps

The armoured pumps of the Standard PVDF series are d

Features

Simplified structure – the main valve and air motor are in the modular structure.

Easy to disassemble and maintain.

Enhanced abrasion resistance , not affected by temperature variation.

The dual reversing system can assure working stability while maximizing efficiency.

Maintenance free due to the installation of high strength engineered plastic components

Variety of material of construction options like stainless steel, PP, aluminium alloy, santoprene, viton, NBR, PTFE for sheet, ball and diaphragm material available for various applications.

Applications

Chemical production
Cleaning agent
Paint / dye
Adhesives
Printing ink
Shear sensitive material
Water supply
Effluents and waste water
Sewage / cycle / recovery
Mixing and slush in coal mines
Pharmaceuticals
The food and drug material
Supply and delivery of medicines
Saline water
Automobile industries
Sealant, binder, solvent and paint
Electroplating solutions
Electronics wastewater
Strong acid and alkali of electronics
Fluid filtration /waste water treatment
System flushing



Repair, Servicing and Overhauling of Pumps

With industry veterans having several years of expertise at our helm, we take up jobs of

Repair of pumps, pump parts, machining work for pumps parts
Servicing of pumps at site or our workshop
Overhauling of functional or defunct pumps to working condition

Advantages

Post repair support, troubleshooting over phone or person.
Saving cost of new pump replacement by repair, overhauling old pump, replacement of necessary spares and machining.



Pump Spare Parts

Spare parts are very crucial for any maintenance department, and we make their life simple.

We keep stock of all general spares of all pumps
Shortest possible delivery of critical spares
Spare parts with pocket friendly price points

Almost all spare like casing, cover, impeller, shaft, bearings, gaskets, couplings, rotor, stator, sleeve, nuts, bolts, base frames, motors, oil cups, lobes or any and all spares.



Mechanical Seals

We offer high quality Mechanical Seals for all pump types. Our seals are specially engineered, precisely manufactured with high end tools and machinery for long durability, sturdy nature and high performance



Single Coil Mechanical Seals

Multi Spring Mechanical Seals

Metal Bellow Seals

Cartridge Seals

Reverse Balanced Seals

Conical Spring Seals

Teflon Bellow Seals

Rubber Bellow Seals

AMC – Annual Maintenance Contract for Pumps

We undertake AMC – annual maintenance contracts for large and mid-scale set of pumps.

Periodic deployment of pump expert for pump checking
Overtime pump spare parts change
Maintenance of critical spares

Replace, installation, assembly, disassembly now trouble-free.

Instant support through phone, video and by person.

Advantages

Reduced cost on pumps
Tension free servicing and maintenance
One Point solution for all pumps issues
Cost effective
Service on board all the time
Experts on pumps
Repairable parts serviced
In-house machining
Continuous observation
Low downtime, high productivity

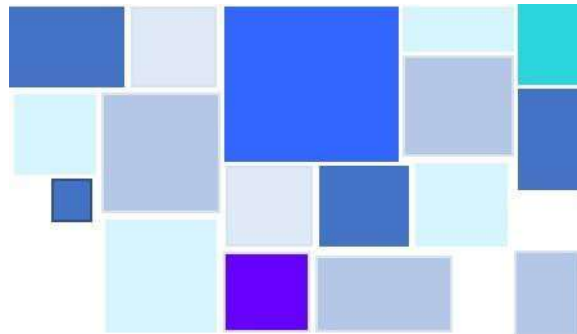


SHIVA ENTERPRISES

At SHIVA ENTERPRISES, we live true to our motto, “We Help You Do Better”.

SHIVA ENTERPRISES Corporation is one of the fastest growing organizations which offers various holistic solutions to several industries across the globe.

Our excellent, meticulous and pocket-friendly solutions help organizations to do better and increase their productivity. We are unequivocally committed to help our esteemed customers in accomplishing their growth, achievement, success and sustainability.



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