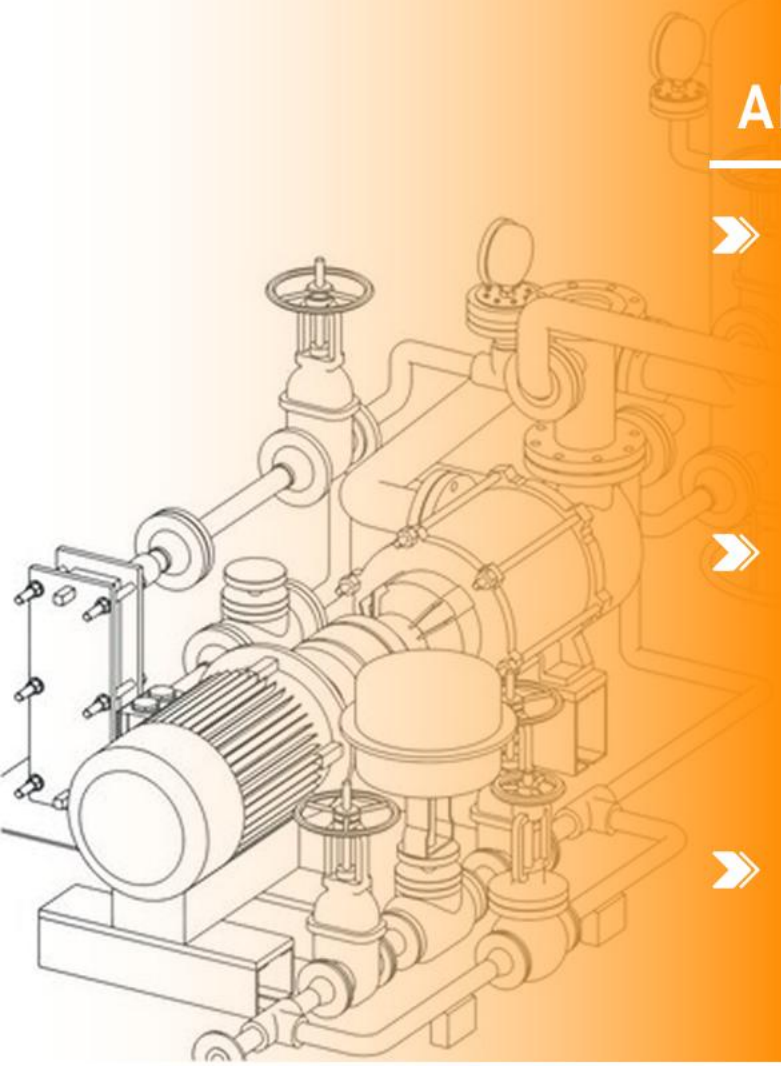
PRO -Velocity™

YOUR PUMPING SOLUTION

velocityflowtechsystems.com

CERTIFIED ISO 9001:2015 COMPANY



ABOUT US

- **Pro-Velocity** is a trusted name in industrial fluid handling, specializing in premium pumps, valves, and SS corrugated hoses. Focused on quality, innovation, and customer satisfaction.
- We offer cost-effective, reliable solutions for chemical, pharmaceutical, oil & gas, and water treatment industries. Choose Pro-Velocity – Your Partner in Pumping Solutions.
- We serve domestic and international markets with timely delivery and exceptional support.

WHY CHOOSE US?

Expertise You Can Trust

We deliver smart, reliable pumps tailored to your process needs.

Commitment to Quality

High-performance products made with strict, durable quality tests.

One-Stop Pumping Solution

Pumps, valves, hoses, spares & repairs - all your needs under one roof.

Strong After-Sales Support

Our team provides responsive technical support throughout the lifecycle.

Tailored Solutions for All

Custom solutions, OEM support & flexible orders with design adaptability.

Trusted by Reputed Clients

Proud partners of top companies who trust our quality, service, ethics.

OUR MISSION

- To deliver innovative, reliable, and cost-effective pumping and fluid handling solutions that empower industries to operate efficiently and sustainably.

OUR VISION

- To be a globally trusted brand in industrial pumping systems by setting benchmarks in quality, service, and customer satisfaction.

OUR VALUES

- Integrity, Innovation, Quality, Customer-Centricity, and Continuous Improvement in everything we do.

KRI

CLICK HERE FOR THIS PRODUCT'S DETAILED TECHNICAL

Series Name: "KRI" represents Coupled-Type Pumps, while "KRI-M" stands for Monoblock-Type Pumps.

TECHNICAL DATA

- **Flow Rate:** Up to 250 m³/h.
- **Head:** Up to 120 meters.
- **Capacity:** Ranges from 1 HP to 100 HP.
- **Discharge Size:** 1" to 10" (varies based on model).
- **Speed:** 960 RPM, 1450 RPM to 2900 RPM (depending on application).
- **Max. Operating Pressure:** 16 Bar.
- **Temperature Range:** -10°C to + 250°C (depending on material construction).

INSTALLATIONS AND USE

- **Installation:** Horizontal or Vertical (customizable based on space and installation needs).
- **Applications:** Used for clear water, wastewater, chemicals, oils, slurries, and other industrial liquids.
- **Industries:** Chemical, Pharmaceutical, Oil & Gas, Water Treatment, Food Processing, and more.
- **Maintenance:** Simple and easy to maintain, with replaceable wear parts like seals and impellers.

MATERIALS OF CONSTRUCTION

- **Casing:** Cast Iron / CF8 / CF8M, Other Alloys (depending on application).
- **Impeller:** Cast Iron / CF8 / CF8M / Bronze.
- **Shaft:** EN-8 / SS-410 / SS-304 / SS-316.
- **Shaft Sealing:**
  - **Gland:** Graphite, PTFE, Asbestos, Carbon Fiber.
  - **Mechanical Seal:** Carbon / Ceramic / SIC (Depending on Application).
- **Bearings:** High-grade, heavy-duty ball bearings.

KEY FEATURES

- **High Efficiency:** Designed to offer optimal performance with low energy consumption.
- **Durability:** Robust design with corrosion-resistant materials ensuring long-lasting operation.
- **Versatility:** Suitable for a wide range of liquids including clean water, chemicals, and slurries.
- **Customization:** Flexible design options to meet specific operational requirements.
- **Ease of Maintenance:** Quick and easy servicing with accessible components for minimal downtime.

MUK

CLICK HERE FOR THIS PRODUCT'S DETAILED TECHNICAL

Series Name: "MUK" represents Coupled-Type Pumps, while "MUK-M" stands for Monoblock-Type Pumps.

TECHNICAL DATA

- **Pump Type:** Self-Priming Mud/Sewage Pump.
- **Capacity Range:** Up to 250 m³/hr.
- **Head Range:** Up to 34 meters.
- **Speed:** 1440 RPM / 2900 RPM.
- **Temperature:** Upto 80°C.
- **Seal Type:** Gland Packing.
- **Suction Lift:** 5 Mtr.
- **Soft Solid Handling Size:** 40 mm.
- **Delivery Size Upto:** 150 mm.
- **Equivalent Design:** Kirloskar Type Design.

INSTALLATIONS AND USE

- Ideal for pumping mud, effluent, sewage, slurry, and dirty water with soft solids.
- Widely used in **Chemical, Pharma, Wastewater, Mining, Construction, and General Industries**.
- Suitable for underground sump, tank, or open pit installations.
- Designed to work under heavy-duty continuous operations.

MATERIALS OF CONSTRUCTION

- **Casing:** Cast Iron / CF8 / CF8M / Bronze.
- **Impeller:** Cast Iron / Bronze / CF8M.
- **Shaft:** EN-8 / SS-410 / SS-304 / SS-316.
- **Bearing Housing:** Cast Iron.
- **Gland Packing:** Graphite Asbestos.

KEY FEATURES

- Time-tested gland packing system for rugged performance.
- Interchangeable spares with Kirloskar-type pumps.
- Heavy-duty bearing bracket for better shaft alignment and durability.
- Dynamically balanced impeller for vibration-free operation.
- Easy maintenance with accessible parts and back-pull-out design.
- Optional baseplate, coupling & motor as a complete set.

MUK - S

CLICK HERE FOR THIS PRODUCT'S DETAILED TECHNICAL

Series Name: "MUK-S" represents Coupled-Type Pumps, while "MUK-S-M" stands for Monoblock-Type Pumps.

TECHNICAL DATA

- **Pump Type:** Self-Priming Mud/Sewage Pump.
- **Capacity Range:** Up to 75 m³/hr.
- **Head Range:** Up to 32 meters.
- **Speed:** 2900 RPM.
- **Temperature:** Upto 80°C.
- **Seal Type:** Mechanical Seal (SIC-SIC/Viton).
- **Suction Lift:** 6.5 Mtr.
- **Soft Solid Handling Size:** 25 mm.
- **Delivery Size Upto:** 65 mm.
- **Equivalent Design:** SPX Flow – Johnson Equivalent.

INSTALLATIONS AND USE

- Ideal for pumping mud, effluent, sewage, slurry, and dirty water with soft solids.
- Widely used in **Chemical, Pharma, Wastewater, Mining, Construction, and General Industries**.
- Suitable for underground sump, tank, or open pit installations.
- Designed to work under heavy-duty continuous operations.

MATERIALS OF CONSTRUCTION

- **Casing:** Cast Iron / CF8 / CF8M / Bronze.
- **Impeller:** Cast Iron / Bronze / CF8M.
- **Shaft:** EN-8 / SS-410 / SS-304 / SS-316.
- **Bearing Housing:** Cast Iron.
- **Mechanical Seal:** SIC-SIC/Viton.

KEY FEATURES

- Leak-free operation with high-quality mechanical seal.
- Equivalent to Johnson-SPX type design with improved seal life.
- Heavy-duty bearing bracket for better shaft alignment and durability.
- Dynamically balanced impeller for vibration-free operation.
- Easy maintenance with accessible parts and back-pull-out design.
- Optional baseplate, coupling & motor as a complete set.

KRI - S

CLICK HERE

FOR THIS PRODUCT'S DETAILED TECHNICAL

TECHNICAL DATA

- **Capacity Range:** Up to 100 m³/hr.
- **Head Range:** Up to 85 meters.
- **Discharge Size:** 40 mm to 100 mm.
- **Temperature Handling:** Up to 80°C.
- **Motor Rating:** 1 HP to 40 HP.
- **Speed:** 1450 RPM / 2900 RPM.

INSTALLATIONS AND USE

- **Designed for continuous duty in:**
  - Filter Press Feeding.
  - Effluent Treatment Plants (ETP).
  - Sewage Treatment Plants (STP).
  - Slurry and Solid-Laden Liquids.
  - Industrial Wastewater Transfer.

MATERIALS OF CONSTRUCTION

- **Casing:** Cast Iron / CF8 / CF8M, Other Alloys (depending on application).
- **Impeller:** Cast Iron / CF8 / CF8M / Bronze.
- **Shaft:** EN-8 / SS-410 / SS-304 / SS-316.
- **Mechanical Seal:** Carbon vs Ceramic / Sic vs Sic / Teflon Bellow.
- **Bearing Housing:** Cast Iron.
- **Gland Packing (optional):** PTFE / Graphite.

KEY FEATURES

- **Side Suction Design:** Ideal for minimum NPSH & better priming.
- **Robust Build Quality:** Long service life with low maintenance.
- **High Efficiency Impeller:** Ensures better performance and energy saving.
- **Easy Maintenance:** Back pull-out design enables quick part replacement.
- **Leakproof Operation:** Optional Mechanical Seal or Gland Packing options.

PRT

CLICK HERE

FOR THIS PRODUCT'S DETAILED TECHNICAL

Series Name: "PRT" represents Coupled-Type Pumps, while "PRT-M" stands for Monoblock-Type Pumps.

TECHNICAL DATA

- **Capacity:** Up to 50 m³/hr.
- **Head:** Up to 45 meters.
- **Temperature Range:** Up to 120°C (depending on MOC).
- **Speed:** 2900 RPM / 1440 RPM.
- **Seal Type:** Mechanical Seal.

INSTALLATIONS AND USE

- Ideal for **handling corrosive and hazardous liquids**.
- Suitable for **pharmaceuticals, chemicals, effluent treatment, plating, textile, and acidic wastewater**.
- Can be installed **horizontally** on a solid base foundation.
- Requires minimal maintenance with **easy seal replacement**.

MATERIALS OF CONSTRUCTION

- **Pump Casing:**
  - **Polypropylene (PP):** For general chemical applications.
  - **Polyvinylidene Fluoride (PVDF):** For high-temperature and aggressive media.
  - **Ultra High Molecular Weight Polyethylene (UHMWPE):** For abrasion resistance.
- **Impeller:** PP / PVDF / UHMWPE.
- **Shaft Sleeve:** Ceramic / Hastelloy / PTFE Coated.
- **Seal Faces:** GFT vs Ceramic / Carbon vs Ceramic / SIC vs SIC.
- **O-Ring/Gasket:** EPDM / Viton / FEP Encapsulated.

KEY FEATURES

- Non-Metallic construction resists corrosion and erosion.
- Compact **Monoblock design** available up to 3HP.
- Designed for **safe and leak-free operation**.
- High efficiency and low power consumption.
- Available in a **variety of seal options** to suit critical applications.
- Light-weight and easy to install.

KRI - T

CLICK HERE FOR THIS PRODUCT'S DETAILED TECHNICAL

TECHNICAL DATA

- **Capacity:** Up to 200 m³/hr.
- **Head:** Up to 90 meters.
- **Temperature Range:** Up to 350°C.
- **Speed:** 2900 RPM.
- **Discharge Size:** 25 mm to 100 mm.
- **Working Pressure:** Up to 16 Bar.
- **Power Rating:** 1 HP to 40 HP.

INSTALLATIONS AND USE

- Specifically designed for **thermic fluid circulation systems.**
- Suitable for **chemical, pharmaceutical, textile, oil & gas** industries.
- Installed on **horizontal base frame**, ideal for high-temperature, continuous-duty operations.
- Ensure proper insulation and foundation for maximum efficiency and safety.

MATERIALS OF CONSTRUCTION

- **Casing:** Cast Steel / WCB.
- **Impeller:** C.I / SS 304 / SS 316.
- **Shaft :** EN 8 / SS 410 / SS 304.
- **Mechanical Seal:** Graphite vs Carbon / SIC-SIC (Eagleburgmann Make).
- **Bearing Housing:** Cast Iron.

KEY FEATURES

- High-temperature handling up to 350°C without external cooling.
- Heavy-duty construction for long service life.
- Back pull-out design for easy maintenance.
- Dynamically balanced impeller for vibration-free operation.
- Available in customized MOC as per media compatibility.
- Leak-proof mechanical sealing system.

SND

CLICK HERE FOR THIS PRODUCT'S DETAILED TECHNICAL

TECHNICAL DATA

- **Flow Range:** Up to 250 m³/hr.
- **Head:** Up to 50 meters.
- **Power Rating:** Up to 40 HP.
- **Speed Options:** Available in 2900 RPM and 1440 RPM.
- **Type:** Grinder Cutter Pump also available for solid-handling applications.

INSTALLATIONS AND USE

- Suitable for wet pit and dry pit installation.
- Designed for fully submerged operation.
- Ideal for handling raw sewage, effluent, industrial waste, and stormwater.
- Widely used in municipal, residential, commercial, and industrial sectors.
- Can be installed with auto-coupling system for easy removal and maintenance.

MATERIALS OF CONSTRUCTION

- **Casing:** Cast Iron / CF8 & CF8M (Optional).
- **Impeller:** Cast Iron / SS / Bronze.
- **Shaft:** SS 410 / SS 304.
- **Mechanical Seal:** Silicon / Carbide vs. Carbon / Ceramic (Double Mechanical Seal).
- **Motor Housing:** Cast Iron / SS (As per application).

KEY FEATURES

- High-efficiency motor with overload protection.
- Non-clog impeller design for handling solids and fibrous materials.
- Grinder and cutter mechanism available for tough sewage handling.
- Compact, lightweight, and easy to install.
- Corrosion-resistant construction ensures long service life.
- Low maintenance with sealed-for-life bearings and double mechanical seal.
- Energy-efficient design for reduced power consumption.

KRI - D

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FOR THIS PRODUCT'S DETAILED TECHNICAL

TECHNICAL DATA

- **Flow Range:** 0.5 to 50 m³/hr.
- **Head Range:** Up to 50 meters.
- **Speed:** 2900 RPM.
- **Discharge Size:** 1" to 2.5" (custom options available).
- **Operating Temperature:** Up to 120°C.
- **Motor Rating:** 0.5 HP to 10 HP.
- **Sealing:** Mechanical Seal – Single or Double (optional CIP/SIP compatible).

MATERIALS OF CONSTRUCTION

- **Pump Casing & Impeller:** SS 316.
- **Seal Faces:** Carbon vs Sic / Sic vs Sic (FDA Grade).
- **Gaskets/O-Rings:** EPDM / PTFE / Viton (Food Grade).
- **Base Frame:** Mild Steel (M.S) / SS 304 (Hygienic Design) – On Request.
- **Finish:** Mirror Finish / Electro-polished for Hygienic Applications (On Request).

INSTALLATIONS AND USE

- Specifically designed for **CIP/SIP systems in Dairy, Pharma, Beverage, and Cosmetic** industries.
- Ideal for handling **milk, whey, cream, purified water, syrup, solution, and other sterile or viscous liquids**.
- Compatible with **Skid Units, Processing Plants, and Inline Transfer Systems**.

KEY FEATURES

- **Easy Maintenance:** Back pull-out design for quick servicing.
- **High Efficiency:** Optimized hydraulic design for smooth and energy-efficient operation.
- **Seal Protection:** Optional flushed seal chamber for critical process media.
- **Versatile Mounting:** Available in trolley-mount, base-mount, or inline options.

BOILER FEED HORIZONTAL MULTISTAGE PUMP

VR

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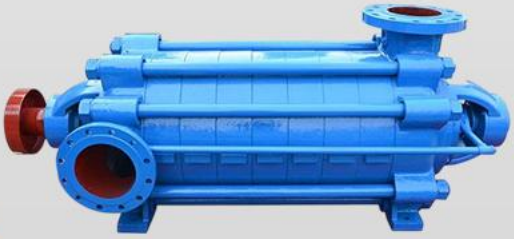
FOR THIS PRODUCT'S DETAILED TECHNICAL



TECHNICAL DATA

- **Capacity:** Up to 50 m³/hr.
- **Head:** Up to 350 meters.
- **Discharge Size:** 25 mm to 80 mm.
- **Speed:** 2900 RPM / 1440 RPM.
- **Temperature Range:** -10°C to 140°C.
- **Working Pressure:** Up to 35 Bar.
- **Drive:** Coupled with TEFC Motor (Foot Mounted).
- **Direction of Rotation:** Clockwise (from coupling end).

MATERIALS OF CONSTRUCTION

- **Casing / Stage Casing:** Cast Iron / CF8 / CF8M.
- **Impeller:** CF8 / CF8M / Bronze.
- **Shaft:** SS 410 / SS 304 / SS 316.
- **Shaft Sleeve:** SS 410 Hardened / SS 304 / SS 316.
- **Mechanical Seal:** Carbon vs. Ceramic / Sic vs. Sic.
- **Bearing Housing:** Cast Iron / Steel.
- **Gasket/O-Ring:** Nitrile / EPDM / Viton.

INSTALLATIONS AND USE

- Suitable for **boiler feed, high-pressure washing, reverse osmosis systems, cooling towers, and industrial process water**.
- Designed for **continuous duty** with clean liquids, free from solids or abrasive particles.
- Can be installed horizontally with base-mounted motors for easy maintenance and long-term performance.

KEY FEATURES

- **High Efficiency:** Energy-saving design with dynamically balanced impellers.
- **Rugged Construction:** Designed for heavy-duty operations with superior-grade materials.
- **Low Vibration & Noise:** Precision manufacturing ensures smoother operation.
- **Easy Maintenance:** Modular design enables quick access to internals.
- **Leak-proof Sealing:** Fitted with high-grade mechanical seals for leak-free performance.
- **Wide Application Range:** Ideal for diverse industrial sectors like pharma, textile, chemical, and food processing.

GOV

CLICK HERE

FOR THIS PRODUCT'S DETAILED TECHNICAL

Series Name: "GOV" indicates Cast Iron (C.I) Pump, "GOV-S" denotes SS 316 Pump, "GOV-F" represents Cast Iron Flange Type, and "GOV-SF" stands for SS 316 Flange Type.

TECHNICAL DATA

- **Capacity Range:** 10 LPM to 500 LPM.
- **Discharge Pressure:** Up to 10 Bar.
- **Viscosity Range:** 10 to 5000 cSt.
- **Temperature Range:** Up to 120°C.
- **Pump Type:** Positive Displacement, External Gear Type.
- **Type Of Connection:** Thread Type and Flange Type.
- **Rotation:** Clockwise (standard) / Anti-clockwise (on request).

INSTALLATIONS AND USE

- Ideal for Oil Transfer, Lubrication Systems, Hydraulic Power Packs, and Circulation Loops.
- Ensure suction line is air-tight and filled with oil before initial operation.
- Suitable for industries: Petrochemical, Power Plants, Cement, Paper, and Steel.

MATERIALS OF CONSTRUCTION

- **Pump Casing:** Cast Iron / SS 316.
- **Gears:** EN8 / Alloy Steel / SS 316.
- **Shaft:** EN-8 / SS 304 / SS 316.
- **Bearings:** Anti-friction / Bush Bearings.
- **Sealing:** Gland Packing / Mechanical Seal.

KEY FEATURES

- Compact and Robust Design.
- High Volumetric Efficiency.
- Smooth, Pulsation-Free Flow.
- Self-Priming up to 1 Meter.
- Low Maintenance and Long Service Life.
- Suitable for Continuous Duty Operation.
- Customization Available as per Application.

ABH

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FOR THIS PRODUCT'S DETAILED TECHNICAL

TECHNICAL DATA

- **Max Flow Rate:** Up to 900 LPM (varies with model size & material).
- **Max Discharge Pressure:** Up to 8 Bar (116 PSI).
- **Suction Lift (Dry):** Up to 5 meters.
- **Suction Lift (Wet):** Up to 8 meters.
- **Max Solid Size Handling:** Up to 9.4 mm.
- **Air Inlet Pressure Range:** 1.4 to 7 Bar.
- **Operating Temperature:** -10°C to 120°C (Depending on MOC).

INSTALLATIONS AND USE

- Designed for **transfer and dosing of corrosive or viscous liquids,** including **chemicals, acids, solvents, slurries, paints, oils, food-grade liquids,** and **flammable substances**.
- Suitable for use in **Chemical Plants, Pharmaceutical Industries, Food & Beverage, Oil & Gas, Paints & Coatings, and Effluent Treatment Plants**.
- Easy to install – **portable, self-priming**, and operates without electricity, making it ideal for **hazardous zones**.

MATERIALS OF CONSTRUCTION

- **Pump Body:** PP, PVDF, SS 316, Aluminium.
- **Diaphragm:** PTFE, Santoprene, EPDM, Buna-N.
- **Valve Ball:** PTFE, Santoprene, SS 316, NBR.
- **Valve Seat:** PP, PVDF, SS 316, Aluminium.
- **O-rings / Gaskets:** Viton, EPDM, NBR, PTFE.

KEY FEATURES

- **Self-Priming** up to 5 meters without foot valve.
- **Dry Run Capable** without pump damage.
- **Flameproof – No Electricity Required.**
- **Compact Design & Easy Maintenance**
- **Wide Chemical Compatibility** with different MOC options.
- **Leak-Free Operation** with reliable diaphragms.
- **Explosion-proof suitable** for ATEX Zone (on request).
- **Low Air Consumption** for energy efficiency.

KRI - V

CLICK HERE

FOR THIS PRODUCT'S DETAILED TECHNICAL

TECHNICAL DATA

- **Capacity:** Up to 250 m³/hr.
- **Head:** Up to 100 meters.
- **Temperature Range:** -10°C to 120°C.
- **Discharge Size:** 25 mm to 250 mm.
- **Pump Length:** Up to 3.0 meters (customized on request).
- **Motor Type:** Foot/Flange Mounted (Standard TEFC, Flameproof Optional).
- **Speed:** 1450 RPM / 2900 RPM.

INSTALLATIONS AND USE

- Suitable for handling clean or slightly contaminated liquids, including corrosive and abrasive fluids, depending on MOC.
- Commonly used in effluent treatment plants, chemical industries, power plants, and sump applications.
- Ideal for transferring liquids from deep pits or sumps where horizontal pumps cannot be used.
- Ensure the pump is primed before starting and avoid dry running to prevent damage to the mechanical components.

MATERIALS OF CONSTRUCTION

- **Casing:** Cast Iron / CF8 / CF8M.
- **Shaft:** SS 410 / SS 304 / SS 316.
- **Impeller:** Cast Iron / SS 304 / SS 316.
- **Bearing Bush:** Teflon / Graphite / Bronze.

KEY FEATURES

- **Robust Design:** Engineered with heavy-duty metallic construction for high durability in tough applications.
- **Extended Shaft Length:** Ideal for deep sumps, ensures efficient pumping from great depths.
- **Corrosion & Wear Resistance:** Available in various metallurgies (C.I, SS, Alloy) to handle corrosive and abrasive fluids.
- **Low Maintenance:** Simple design with few moving parts below liquid cuts maintenance needs.
- **Customizable Shaft & Column Lengths:** Designed to meet specific site requirements and pit depths.
- **Non-Clog Impeller Options:** Optional open impeller designs for handling solids-laden fluids effectively.
- **Leak-Free Operation:** No mechanical seal or gland below liquid level ensures leak-proof performance.

NON-METALLIC VERTICAL SUMP PUMP (LONG SHAFT PUMP)

PRT - V

CLICK HERE

FOR THIS PRODUCT'S DETAILED TECHNICAL

TECHNICAL DATA

- **Capacity:** Up to 50 m³/hr (as per model).
- **Head:** Up to 60 meters.
- **Temperature Range:** Up to 120°C (Depending on MOC).
- **Speed:** 1450 RPM / 2900 RPM.
- **Mounting:** Vertical – Top Plate with Column Support.
- **Drive:** V-Belt / Direct Coupled.

MATERIALS OF CONSTRUCTION

- **Wetted Parts:** PP / PVDF / FRP / UHMWPE (as per application).
- **Shaft Sleeve:** Ceramic / SS316 / Hastelloy.
- **Column Pipe:** Non-metallic lined / PP-coated MS.
- **Bearings:** Teflon / Ceramic / Carbon Bushes.
- **Base Plate:** Mild Steel with Anti-Corrosive Coating / PP.

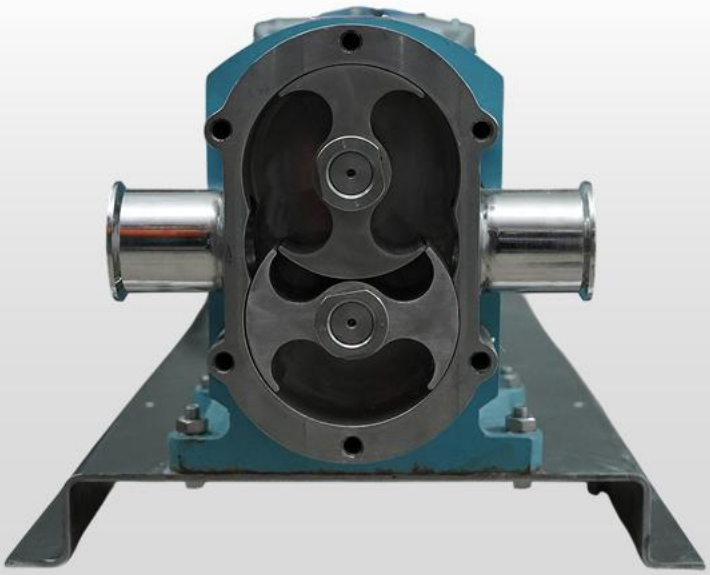
INSTALLATIONS AND USE

- Designed for vertical mounting directly above the sump/tank.
- Ideal for corrosive and aggressive chemical transfer in underground or open tanks.
- Suitable for continuous operation in ETP/STP plants, chemical process industries, effluent handling, and plating plants.
- No priming required; pump is submerged in liquid and directly lifts fluid.

KEY FEATURES

- Rugged & corrosion-resistant non-metallic construction.
- No mechanical seal in standard version – reduces maintenance.
- Long life bush bearing support system for shaft stability.
- Dry run capability for limited time (depending on model).
- Customizable immersion length as per tank depth.
- Leak-proof performance and low operating noise.
- Available in flameproof & non-flameproof motor variants.

LBH



CLICK HERE

FOR THIS PRODUCT'S DETAILED TECHNICAL

TECHNICAL DATA

- **Flow Rate:** Up to 50 m³/hr (based on model).
- **Discharge Pressure:** Up to 10 bar.
- **Viscosity Range:** Up to 1,000,000 cP.
- **Temperature Range:** -10°C to 150°C.
- **Connection Type:** SMS / DIN / Flanged / Threaded.
- **Motor Type:** AC Induction / Gearbox Mount.
- **Seal Type:** Mechanical / Gland Packing.
- **Drive Type:** Bare Shaft / Gearbox / VFD.

INSTALLATIONS AND USE

- **Pharmaceuticals, Food & Beverage, Cosmetics, Chemicals, Dairy, Pulp & Paper, and Paint.**
- **Applications:**
  - High-viscosity liquid transfer.
  - Sanitary/hygienic fluid movement.
  - Dosing, circulation & filling.
  - Sludge or slurry handling.
  - Abrasive & shear-sensitive liquids.
- **Installation Types:**
  - Skid-mounted units.
  - Vertical/horizontal orientation.
  - CIP/SIP-compatible for hygienic setups.

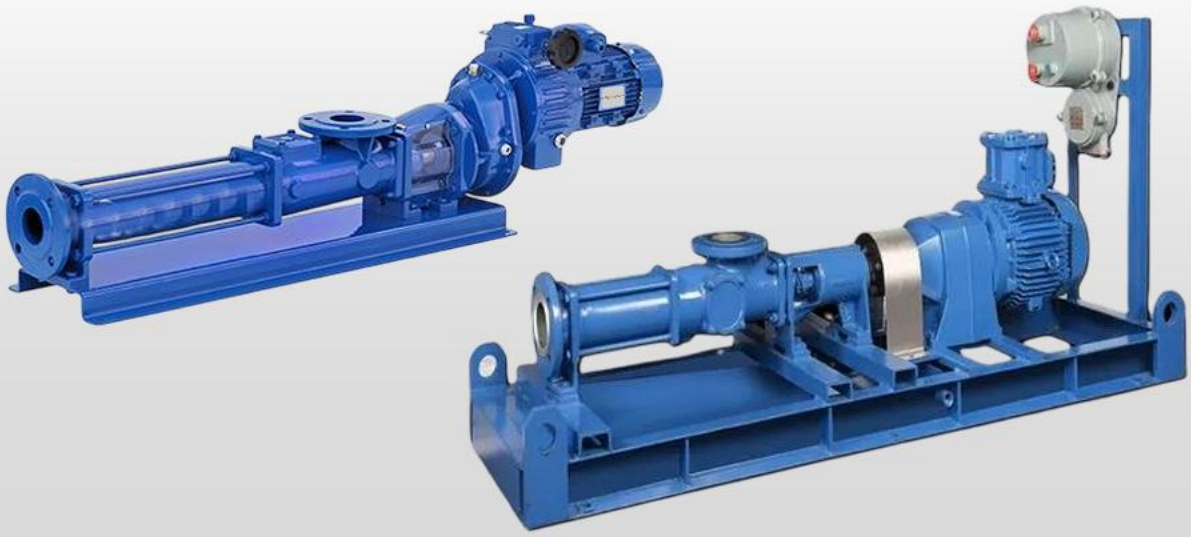
MATERIALS OF CONSTRUCTION

- **Pump Body:** SS304 / SS316 / SS316L.
- **Rotor:** SS316 / SS316L / PTFE / NBR.
- **Shaft:** SS316 Hardened.
- **Seal Faces:** Carbon vs Ceramic / SIC vs SIC.
- **Gasket / O-rings:** EPDM / NBR / Viton / PTFE.

KEY FEATURES

- Gentle, Pulsation-Free Flow.
- Reversible Flow Design.
- Low Shear & High Efficiency.
- Hygienic, Easy-to-Clean Construction.
- Dry Run Protection (Optional).
- Low Noise & Vibration.
- Interchangeable Rotors (Bi-Wing / Tri-Lobe / Single Lobe).
- Customization Available for Drive, Ports, and Sealing.

VSP



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FOR THIS PRODUCT'S DETAILED TECHNICAL

TECHNICAL DATA

- **Model Range:** VSP-10 to VSP-100.
- **Capacity:** Up to 50 m³/hr.
- **Pressure:** Up to 12 Bar.
- **Temperature Range:** -10°C to 150°C.
- **Viscosity Handling:** Up to 1,00,000 cSt.
- **Speed Range:** 200 to 1000 RPM.
- **Drive Type:** Bare Shaft / Monoblock / Geared Motor.

MATERIALS OF CONSTRUCTION

- **Pump Casing:** Cast Iron / SS 304 / SS 316 / Alloy 20 (Optional).
- **Rotor:** EN 353 Hardened / SS 304 / SS 316.
- **Stator:** Nitrile / Viton / EPDM / Silicon / Neoprene.
- **Shaft:** EN8 / SS 304 / SS 316.
- **Sealing:** Gland Packing / Mechanical Seal (Single / Double).

INSTALLATIONS AND USE

- Ideal for transfer of **viscous, abrasive, and shear-sensitive fluids**.
- Widely used in industries like:
  - Wastewater treatment.
  - Chemical and Petrochemical.
  - Food and Beverage.
  - Pharmaceuticals.
  - Paper and Pulp.
- Can handle **sludge, slurry, polymers, and resins** with solid particles.

KEY FEATURES

- Positive displacement with non-pulsating flow.
- Self-priming capability with low NPSHr.
- Handles highly viscous and abrasive fluids smoothly.
- Easy maintenance and quick rotor/ stator replacement.
- Low operational and maintenance cost.
- Custom-built solutions available on request.

TRP - V

CLICK HERE

FOR THIS PRODUCT'S DETAILED TECHNICAL

TECHNICAL DATA

- **Capacity:** Up to 90 m³/hr.
- **Head:** Up to 250 meters.
- **Temperature Range:** -10°C to +120°C.
- **Operating Pressure:** Max. 25 bar.
- **Speed:** 2900 RPM.
- **Power Range:** 0.75 HP to 40 HP.
- **Motor Type:** TEFC, 2 Pole, 50 Hz, 415 V – 3 Phase, 220V – 1 Phase (UP to 3HP).
- **Installation:** Vertical Inline Mounting.

MATERIALS OF CONSTRUCTION

- **Pump Suction X Discharge Port:** C.I / SS 304 / SS 316.
- **Impellers:** SS 304 / SS 316.
- **Diffuser:** SS 304 / SS 316.
- **Shaft:** SS 304 / SS 316.
- **Shaft Sleeve:** SS 316.
- **Mechanical Seal:** Sic vs Sic / Carbon vs Ceramic / Optional – EPDM, Viton Elastomers.
- **Motor Body:** Aluminium / Cast Iron.

INSTALLATIONS AND USE

- Ideally suited for **RO plants, booster systems, water treatment,** and **ultrafiltration systems**.
- Space-saving **vertical inline design** for easy installation in compact layouts.
- Suitable for continuous duty in clean liquid applications without solid particles.
- Can be used in both **commercial and industrial** fluid transfer systems.

KEY FEATURES

- High-efficiency multistage impeller design.
- Compact and space-saving inline configuration.
- Low noise & vibration-free operation.
- Corrosion-resistant stainless steel construction.
- Easy maintenance with replaceable cartridge seal.
- Energy-saving design, suitable for continuous duty.
- Trusted performance for RO & pressure boosting applications.

LIGHTWEIGHT HORIZONTAL MULTISTAGE PUMP (BOOSTER PUMP)

TRP - H

CLICK HERE

FOR THIS PRODUCT'S DETAILED TECHNICAL

TECHNICAL DATA

- **Capacity:** Up to 28 m³/hr.
- **Head:** Up to 65 meters.
- **Operating Pressure:** Up to 6.5 bar.
- **Temperature Range:** 0°C to 90°C.
- **Speed:** 2900 RPM.
- **Motor:** Single Phase / Three Phase – 50Hz.
- **Mounting Type:** Horizontal Base Mounted.
- **Sealing:** Mechanical Seal.

INSTALLATIONS AND USE

- Ideal for compact spaces due to its horizontal and lightweight design.
- Easily mountable on flat surfaces without using base frame.
- Suitable for continuous duty in pressure boosting applications.
- Can be integrated with VFD for variable flow control.
- Ensure priming before start-up to avoid dry run damage.

MATERIALS OF CONSTRUCTION

- **Pump Casing:** Cast Iron / SS 304.
- **Impellers:** SS 304.
- **Shaft:** SS 304.
- **Mechanical Seal:** Carbon vs Ceramic / Silicon vs Silicon.
- **O-Rings:** Nitrile / EPDM / Viton (Optional).

KEY FEATURES

- **Compact & Lightweight:** Easy to install and maintain even in confined areas.
- **Energy Efficient:** Optimized for high head applications with low power consumption.
- **Noise-Free Operation:** Designed for smooth and silent performance.
- **Versatile Applications:** Suitable for RO systems, water transfer, pressure boosting, and industrial processes.

TRP - HS

CLICK HERE

FOR THIS PRODUCT'S DETAILED TECHNICAL

TECHNICAL DATA

- **Flow Rate:** Up to 4 m^3/hr.
- **Head:** Up to 50 meters.
- **Power Range:** Up to 1.0 kW.
- **Speed:** 2900 RPM.
- **Phase:** Available in Single & Three Phase.
- **Suction Lift:** Up to 7 meters (self-priming).

INSTALLATIONS AND USE

- Ideal for compact spaces due to horizontal design.
- Easy installation – plug & play operation.
- Suitable for domestic water supply, RO plants, washing systems, and light chemical transfer.
- Can be mounted on floor-mounted.
- Ensure priming before first use for optimal performance.

MATERIALS OF CONSTRUCTION

- **Pump Casing:** Stainless Steel.
- **Impeller:** SS304 / Noryl.
- **Shaft:** Stainless Steel.
- **Mechanical Seal:** Carbon vs Ceramic.

KEY FEATURES

- Lightweight and compact design for ease of handling.
- Self-priming up to 7 meters without foot valve.
- Low maintenance and energy-efficient performance.
- Suitable for continuous duty operations.
- Designed for clean or lightly contaminated liquids.

TRP - VPBS

CLICK HERE

FOR THIS PRODUCT'S DETAILED TECHNICAL

TECHNICAL DATA

- **Motor Power:** 1.0 HP to 40.0 HP.
- **Max Flow Rate:** Up to 90 m³/hr.
- **Max Head:** Up to 125 meters.
- **Pump Type:** Vertical Multistage.
- **Control Panel:** VFD/Smart Digital Controller.
- **Note: Customization available as per user demand (flow/head/pressure).**

INSTALLATIONS AND USE

- Ideal for **Residential Buildings, Commercial Complexes, Hotels, Hospitals,** and **Industries** for consistent pressure water supply.
- Suitable for **RO Plants, Washing Stations,** and **HVAC Systems**.
- Easy plug-and-play installation with minimal maintenance requirements.
- Designed to maintain **constant water pressure** regardless of variable demand.

MATERIALS OF CONSTRUCTION

- **Pump Casing:** C.I / SS-304 / SS-316.
- **Impeller & Diffuser:** SS-304 / SS-316.
- **Shaft:** SS-304 / SS-316.
- **Mechanical Seal:** Sic-Sic / Carbon Ceramic / EPDM.
- **Pressure Vessel:** MS with Epoxy Coating / SS-304 (Optional).
- **Piping & Fittings:** MS With Epoxy Coating / SS-304 (Threaded/Welded).
- **Base Frame:** MS Powder Coated / Hot-Dip Galvanized.

KEY FEATURES

- Fully Automatic Operation with Pressure Sensor Feedback.
- VFD Controlled System for Energy Efficiency.
- Dry Run, Overload, and Phase Protection Built-in.
- Compact, Skid Mounted, and Easy to Maintain.
- Noise-free Operation with Long Service Life.
- Custom Design Available for Project-based Requirements.

KRI - FFS

CLICK HERE

FOR THIS PRODUCT'S DETAILED TECHNICAL

TECHNICAL DATA

- **Discharge Range:** 300 LPM to 2280 LPM.
- **Head Range:** 35 Mtr to 110 Mtr.
- **Motor Power:** 3.0 HP to 50 HP.
- **Speed:** 2900 RPM (50 Hz).
- **Operating Pressure:** Up to 12 bar.
- **Temperature Range:** 0°C to 60°C.
- **Drive Type:** Electric Motor / Diesel Engine / Jockey Pump Combination.

INSTALLATIONS AND USE

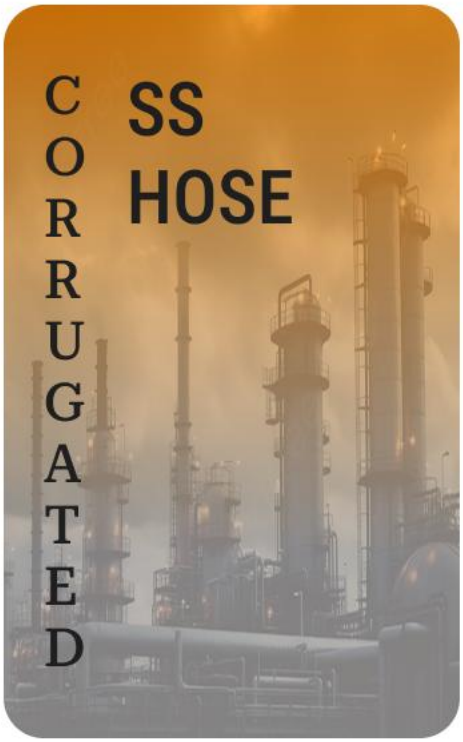
- Ideal for high-rise buildings, commercial complexes, industrial plants, and warehouses.
- Designed for **automatic fire fighting systems** including sprinklers, hydrants, and hose reel systems.
- Installed with electric/diesel/jockey pump sets with controller panel for auto operation.
- Suitable for both **indoor and outdoor** installations with weatherproof enclosures available.

MATERIALS OF CONSTRUCTION

- **Pump Casing:** Cast Iron / SS 304 / SS 316.
- **Impeller:** Bronze / SS 304 / SS 316.
- **Shaft:** SS 410 / SS 304 / SS 316.
- **Mechanical Seal:** Carbon vs Ceramic / SIC.
- **Base Frame:** MS Fabricated with Epoxy Paint.
- **Coupling Guard:** MS / SS (Optional).

KEY FEATURES

- High efficiency design ensures lower power consumption.
- Available in **customized skid-mounted assemblies**.
- Equipped with **pressure switches, NRV, control panel & sensors** for smart operation.
- Easy maintenance due to back pull-out design.
- Optional **stainless steel construction** for aggressive environments.



STAINLESS STEEL

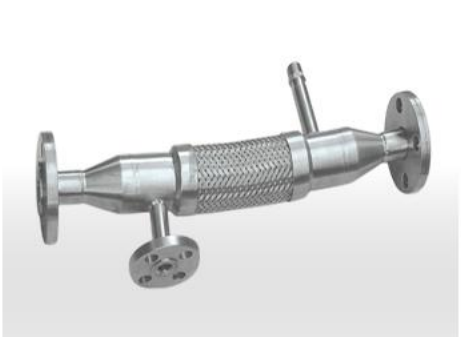
Flexible Steel Hoses In Sizes ¼"–12", Made From 321, 316, 316L, 304.

BRAID

SS Braid Controls Hose Elongation; SS304/316/321 Options.

PUMP CONNECTORS

Absorbs Vibration, Noise & Movement; Eases Pump Pipe Alignment.



JACKETED FLEXIBLE

Conveys Fluid; Heated/Cooled; Flexible SS Hose With Flanged Fittings.

WITH PTFE LINING

PTFE-Lined SS Hose For Chemical Industry; Smooth, Sealed Interior.

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ASSEMBLIES FOR GASES

316L SS Corrugated Hose DN6 400bar WP/1200bar BP; NPT & Cylinder Fits.

LANCE

SS Annular Corrugated Hose With Double Braiding For Blast Lance Use.

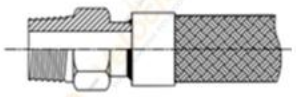
HOSE TECHNICAL DATA

Nominal Size DN		Without Braid		Single Braid		Double Braid		Minimum Bend Radius Static	Minimum Bend Radius Flexing	
		Max. Working Pressure	Test Pressure	Max. Working Pressure	Test Pressure	Max. Working Pressure	Test Pressure		Type - 1	Type - 2
Inch	mm	(Kg/cm²)	(Kg/cm²)	(Kg/cm²)	(Kg/cm²)	(Kg/cm²)	(Kg/cm²)	mm	mm	mm
1/4	6	4	6	100	150	160	240	25	110	140
5/16	8	4	6	100	150	160	240	32	130	165
3/8	10	4	6	90	135	144	216	38	150	190
1/2	12	3	4.5	80	120	128	192	45	165	210
5/8	16	3	4.5	70	105	112	168	58	195	250
3/4	20	2	3	64	96	102	153	70	225	285
1	25	2	3	50	75	80	120	85	260	325
1.1/4	32	1.5	2.3	40	60	64	96	105	300	380
1.1/2	40	1.5	2.3	30	45	48	72	130	340	430
2	50	1	1.5	28	42	44	66	160	390	490
2.1/2	65	1	1.5	24	36	38	57	200	460	580
3	80	1	1.5	18	27	28	42	240	660	800
4	100	0.8	1.2	16	24	26	39	290	750	1000
5	125	0.6	0.9	12	18	20	30	350	1000	1250
6	150	0.6	0.9	10	15	16	24	400	1250	1550
8	200	0.5	0.75	8	12	12	18	520	1600	2000
10	250	0.25	0.36	6	9	9	14	620	2000	2500
12	300	0.2	0.3	4	6	6	9	720	2400	3000

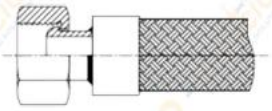
Notes:

- The above technical details are subject to change without notice.
- We can also supply the above hoses for higher pressures.
- The above values apply only to braided hoses and assemblies at ambient temperature of 20 Deg. C.
- The burst pressure is 4 times of the max. working pressure.

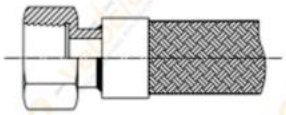
TYPES OF CONNECTIONS



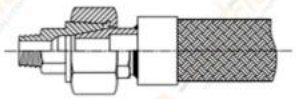
FIXED MALE (HEXAGON) HF01



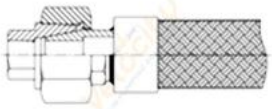
FEMALE SWIL NUT (UNION) TYPE HF02



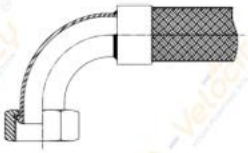
FIXED FEMALE TYPE HF03



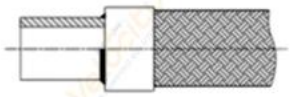
MALE UNION TYPE HF04



FEMALE UNION TYPE HF05



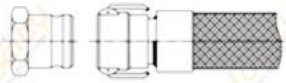
90° ELBOW FEMALE SWIVEL TYPE HF06



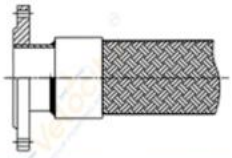
PLAIN PIPE TYPE HF07

WELDING PIPE (STUB) TYPE HF08

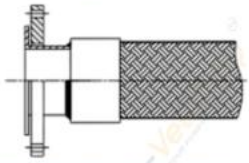
THREADED PIPE TYPE HF09



CAMLOCK COUPLING TYPE HF10



FIXED RF FLANGE TYPE HF11



SWIVEL FLANGE WITH STUB END TYPE HF12

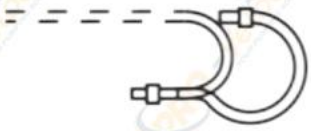
INSTALLATION INSTRUCTIONS

INCORRECT

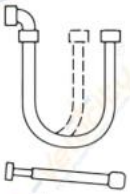
DIMENSION THE HOSE ADEQUATELY

AVOID EXCESSIVE BENDING OF THE HOSE

DO NOT ALLOW THE HOSE TO SAG



DO NOT MOVE THE HOSE OBLIQUELY TO THE INSTALLATION PLANE



AVOID TORSIONAL TWIST WHEN FITTINGS ARE NOT IN LINE

AVOID TORSION DUE TO ANGULAR MOVEMENTS

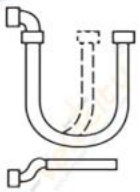
CORRECT

TAKE CARE THAT THE FLEXIBLE LENGTH IS NOT TOO SHORT

USE PIPE BENDS

USE A SUPPORT

MOVEMENT SHOULD BE ALONG



INSTALL IN ONE PLANE ONLY

ALL MOVEMENTS SHOULD BE ONLY ALONG THE AXIS OF THE HOSE

SS / METAL BELLOWS

SINGLE EXPANSION JOINTS

Single Metal Bellows Joints Handle Axial, Lateral, And Angular Moves.

INLINE PRESSURE BALANCED

In-Line Pressure Balanced Joints Absorb Axial Moves With Low Thrust.

ELBOW PRESSURE BALANCED

90° Elbow Joints Absorb Axial Compression And Lateral Offset.

EXTERNALLY PRESSURIZED

Externally Pressurized Joints Allow Large Axial Moves, With No Guides.

UNIVERSAL EXPANSION

Universal Joints Handle Large Lateral Moves, No Tie Rods Needed.

TIED UNIVERSAL EXPANSION

Tied Universal Joints Allow Lateral Moves, No Main Anchors Needed.

DUAL EXPANSION JOINTS

Dual Expansion Joints Allow More Axial Movement, Need Anchors.

PUMP CONNECTORS W/ TIE

Pump Connectors Use Multi - Ply Bellows To Resist Vibration.

VICTAULIC EXP. JOINTS

Victaulic Nipples Fit Metal Bellows; Anchoring And Guiding Are Needed.

SS / METAL BELLOWS

HINGED EXP. JOINTS

Hinged Joints Allow Angular Rotation; Use In Sets For Best Function.

GIMBAL EXP. JOINTS

Gimbal Joints Allow Angular Deflection In Any Plane, No Thrust.

METAL DUCT EXPANSION JTS

Duct Joints With Metal Bellows Handle Thermal Expansion In Ducts.

LRG LW PRS BLW FAN JTS

Rectangular Joints Allow Axial, Lateral, And Angular Pipe Movement.

RECT METAL EXPAN JOINTS

Blower Joints Absorb Thermal Growth With A Low Spring Force Reaction.

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VALVE

- **Pro-Velocity** is a leading manufacturer and supplier of a comprehensive range of industrial valves, including Floating & Trunnion Ball Valves, Gate Valves, Globe Valves, Globe Control Valves, Swing Check Valves, Butterfly Valves, and Safety Valves. We serve key industries such as Oil & Gas, Power, Petrochemicals, Water Treatment, and Pharmaceuticals. With a focus on quality, safety, and innovation, our products are designed to meet global standards and ensure reliable flow control in every application.
- We believe Pro-Velocity Valves is on the path to becoming one of the most trusted names in valve design, manufacturing, and supply. We are committed to continuous improvement by learning from our clients, partners, suppliers, employees, and the wider community. Inspired by leading valve manufacturers, we strive to enhance our capabilities and earn lasting respect for both our brand and our people.

WAFER-TYPE BUTTERFLY

Size Range: 40mm To 1000mm

LUG TYPE BUTTERFLY

Size Range: 40mm To 600mm

DOUBLE FLANGED END BFLY

Size Range: 40mm To 600mm

ALUMINIUM BUTTERFLY

Size Range: 40mm To 200mm

PLASTIC BUTTERFLY

Size Range: 50mm To 100mm

DOUBLE OFFSET HIPERF BFLY

Size Range: 50mm To 600mm

HNDL OPERTD BFV W/ LOCK

EXTENDED SHAFT BFV

HNDL OPERTD BFV W/ LMT

GEAR OPERTD BFV W/ LMT

BFV W/ CHAIN WHEEL

BFV W/ TAMPER SWITCH

INV CAST SS BFV

BFV IN EXOTIC ALLOYS

2-PIECE FLANGED END BALL

3-PIECE FLANGED END BALL

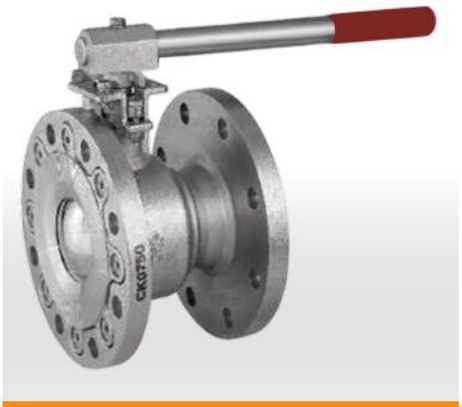
Size Range: 15mm To 100mm

1-PIECE FLANGED END BALL

Size Range: 25mm To 100mm

WAFER TYPE BALL

Size Range: 25mm To 100mm



FLUSH BOTTOM BALL

Size Range: 25mm To 150mm

1-PIECE SCREWED END BALL

Size Range: 15mm To 50mm

3-PC SCRD/SW END BALL

Size Range: 15mm To 100mm

BALL VLV W/ EXTND STEM

BALL VLV W/ EXTND WRENCH

GEAR OPERTD BALL

WCB/C.I. BALL

PNEUMATIC SINGLE ACTNG

PNEUMATIC DOUBLE ACTNG

ELEC ACTTD/MOTORIZED

LINED BUTTERFLY

LINED BALL

LINED PLUG

Size Range: 15mm To 150mm

DUAL PLATE CHECK

Size Range: 50mm To 600mm

DISC CHECK

Size Range: 15mm To 200mm

WAFER TYPE CHECK

Size Range: 40mm To 600mm

FORGED STEEL GATE

Size Range: 15mm To 50mm

FORGED STEEL GLOBE

Size Range: 15mm To 50mm

FORGED STEEL CHECK

Size Range: 15mm To 50mm

PISTON

Size Range: 15mm To 200mm

CAST STEEL GATE

Size Range: 25mm To 300mm

CAST STEEL GLOBE

Size Range: 25mm To 300mm

CAST STEEL CHECK

Size Range: 25mm To 300mm

Y TYPE STRAINER

Size Range: 25mm To 300mm

EXPLORE OUR FULL PRODUCT RANGE

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REPAIR AND MAINTENANCE

- At **PRO-Velocity,** we not only deliver high-quality pumping systems, but also specialize in comprehensive Repair, Refurbishment, and Maintenance Services for a wide range of industrial pumps and systems. Our expert team ensures your equipment operates at peak performance, reducing downtime and extending service life.

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Dosing Pumps

Diaphragm Pumps

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Screw & Progressive Cavity Pumps

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WORLDWIDE EXPORT

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Rangoli
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Lemit
Jeppy
Incredible SNACKS
Deep PHARMA
Ina India Ltd
Water when you want JOY WATER as you want
Pellucid
thermotech

CERTIFICATES

GST Certificate

ISO Certificate

MSME Certificate

Import & Export Certificate (IEC)

(Click on certificates to view)

Table No. 01
Chemical Composition of Materials

Category	Grade (ASTM)	C	Mn	Si	S	P	Cr	Ni	Mo
		max.	max.	max.	max.	max.	max.	max.	max.
Carbon Steel Casting	A216 WCB	0.30	1.00	0.60	0.035	0.035	0.50	0.50	0.20
	A216 WCC	0.25	1.20	0.60	0.035	0.035	0.50	0.50	0.20
Austenitic Steel Casting	A351 CF8	0.08	1.50	2.00	0.040	0.040	18.0-21.0	8.0-11.0	0.50
	A351 CF8M	0.08	1.50	1.50	0.040	0.040	18.0-21.0	9.0-12.0	2.0-3.0
	A351 CF3	0.03	1.50	2.00	0.040	0.040	17.0-21.0	8.0-12.0	0.50
	A351 CF3M	0.03	1.50	1.50	0.040	0.040	17.0-21.0	9.0-13.0	2.0-3.0
Round Bar	A276 410-A	0.15	1.00	1.00	0.03	0.04	11.50-13.50	-	-
	A276 420	0.15	1.00	1.00	0.03	0.04	12.00-14.00	-	-
	A276 431	0.2	1.00	1.00	0.03	0.04	15.00-17.00	1.25-2.50	-
	A276 304-A	0.08	2.00	1.00	0.030	0.045	18.0-20.0	8.0-11.0	-
	A276 304L-A	0.030	2.00	1.00	0.030	0.045	18.0-20.0	8.0-12.0	-
	A276 316-A	0.08	2.00	1.00	0.030	0.045	16.0-18.0	10.0-14.0	2.00-3.00
	A276 316L-A	0.030	2.00	1.00	0.030	0.045	16.0-18.0	10.0-14.0	2.00-3.00

Table No. 02
Mechanical Properties of Materials

Category	Grade (ASTM)	UTS (MPa)	YS (Mpa)	Elong. %	RA %
		min/Range	min.	min.	min.
Carbon Steel Casting	A216 WCB	485-655	250	22	35
	A216 WCC	485-655	275	22	35
Austenitic Steel Casting	A351 CF8	485	205	35	-
	A351 CF8M	485	205	30	-
	A351 CF3	485	205	35	-
	A351 CF3M	485	205	30	-
Round Bar	A276 410-A	485	275	20	45
	A276 420	-	-	-	-
	A276 431	-	-	-	-
	A276 304-A	515	205	30	40
	A276 304L-A	485	170	30	40
	A276 316-A	515	205	30	40
	A276 316L-A	485	170	30	40

Note: Generally ASTM A 276 420 & 431 are not available in annealed condition and so it's mechanical properties are not included.

Table No. 03
Pressure Unit Conversion

X Kg/cm² =	X x 0.980665 Bar
	X x 0.0980665 MPa
	X x 14.2233 PSI
X Bar =	X x 0.1 MPa
	X x 14.5038 PSI
	X x 1.01972 Kg/cm²
X PSI =	X x 0.070307 Kg/cm²
	X x 0.0689476 Bar
	X x 0.00689476 MPa
X MPa =	X x 145.03774 PSI
	X x 10.197162 Kg/cm²
	X x 10 Bar

Table No. 04
Length Unit Conversion

X inch =	X x 25.4 mm
X mm =	X x 0.03937 inch
X/16 inch =	X x 1.5875 mm

Table No. 05
Temperature Unit Conversion

X° C =	{(X x 1.8) + 32)} °F
X° F =	{(X - 32) x 5/9} °C

Table No. 06
Valve Testing Duration

Value Size (DN)	Body Test (seconds)	Seat Test (seconds)
Upto 50	15	15
65 - 150	60	60
200 - 300	120	120
350 & Above	300	300

Table No. 07
Flange Dimensions as per ASME B16.5 #150

Size		Flange				Bolt Drilling				Bolt Size	
Size in Inch	Size in mm	Flange OD	Flange Thick W/O RF	RF Dia.	RF Height	PCD	No. Of Bolts	Hole Size	Hole Size	Bolt Size	Bolt Size
NPS	DN	(mm)	(mm)	(mm)	(mm)	(mm)	(Nos.)	(mm)	(inch)	UNC	ISO
1/2	15	90	8	35.1	2	60.3	4	15.9	5/8	1/2	M14
3/4	20	100	8.9	42.9	2	69.9	4	15.9	5/8	1/2	M14
1	25	110	9.6	50.8	2	79.4	4	15.9	5/8	1/2	M14
11/4	32	115	11.2	63.5	2	88.9	4	15.9	5/8	1/2	M14
11/2	40	125	12.7	73.2	2	98.4	4	15.9	5/8	1/2	M14
2	50	150	14.3	91.9	2	120.7	4	19.1	3/4	5/8	M16
21/2	65	180	15.9	104.6	2	139.7	4	19.1	3/4	5/8	M16
3	80	190	17.5	127	2	152.4	4	19.1	3/4	5/8	M16
4	100	230	22.3	157.2	2	190.5	8	19.1	3/4	5/8	M16
5	125	255	22.3	185.7	2	215.9	8	22.2	7/8	3/4	M20
6	150	280	23.9	215.9	2	241.3	8	22.2	7/8	3/4	M20
8	200	345	27	269.7	2	298.5	8	22.2	7/8	3/4	M20
10	250	405	28.6	323.9	2	362	12	25.4	1	7/8	M24
12	300	485	30.2	381	2	431.8	12	25.4	1	7/8	M24
14	350	535	33.4	412.8	2	476.3	12	28.6	11/8	1	M27
16	400	595	35	469.9	2	539.8	16	28.6	11/8	1	M27
18	450	635	38.1	533.4	2	577.9	16	31.8	11/4	11/8	M30
20	500	700	41.3	584.2	2	635	20	31.8	11/4	11/8	M30
22	550	750	44.4	641.4	2	692.2	20	34.9	13/8	11/4	M33
24	600	815	46.1	692.2	2	749.3	20	34.9	13/8	11/4	M33

Note: W/O = Without | RF = Raised Face | OD = Outside Diameter.

Table No. 08
Test Pressure as per Pressure Rating

Pressure Rating	Shell Test	Seat Test
	(kg/cm²)	(kg/cm²)
PN 06	9	6.6
PN 10	15	11
PN 16	24	17.6
PN 20	30	22
PN 25	37.5	27.5
PN 40	60	44
150#	32	23
300#	79.5	58.5
600#	156.5	116.5
800#	208	153
900#	236	172.5
1500#	392	288.5
2500#	652.5	478.5

Table No. 09
Seat Temperature Range

Seat Liner	min.	max.
	(°C)	(°C)
NITRILE	-20	90
HIGH NITRILE	-20	110
EPDM	-25	120
NEOPRENE	-20	120
SILICON	-25	180
FKM(VITON)	-30	220
HYPALON	-20	120
PTFE	-20	220

CALCULATION & CONVERSION CHART

Table No. 01
Conversions
To convert to liters/sec.

IGPM	× 0.0757
m³/hr	× 0.278
m³/min	× 16.68
Metric tonnes/hr	× 0.278 ÷ S.G.
Liters/min	× 0.0167
Kilograms/hr	× 0.000278 ÷ S.G.
USGPM	× 0.063
Cubic feet/sec	× 28.3
Cubic feet/min	× 0.47
British tons/hr	× 0.282 ÷ S.G.
British barrels/hr	× 0.0455

Table No. 02
Pumping Head Conversions
To convert to Meters

Feet	× 0.305
Kg/cm²	× 10 ÷ S.G.
PSI	× 0.704 ÷ S.G.
Inches Hg	× 0.345 ÷ S.G.
cm Hg	× 0.1362 ÷ S.G.
Atmospheres	× 10.35 ÷ S.G.
kN/m² (kPa)	× 0.102 ÷ S.G.
Bar	× 10.2 ÷ S.G.

Table No. 03
To convert to m³/hr

IGPM	× 0.273
Liters/sec	× 3.60
Liters/min	× 0.06
Metric tonnes/hr	× 1 ÷ S.G.
m³/min	× 60
Kilograms/hr	× 0.001 ÷ S.G.
Kilograms/sec	× 3.6 ÷ S.G.
USGPM	× 0.227
Cubic feet/sec	× 101.94
Cubic feet/min	× 1.7
British tons/hr	× 1.015 ÷ S.G.
British barrels/hr	× 0.163

Table No. 04
Power Conversions
To convert to Kilowatts

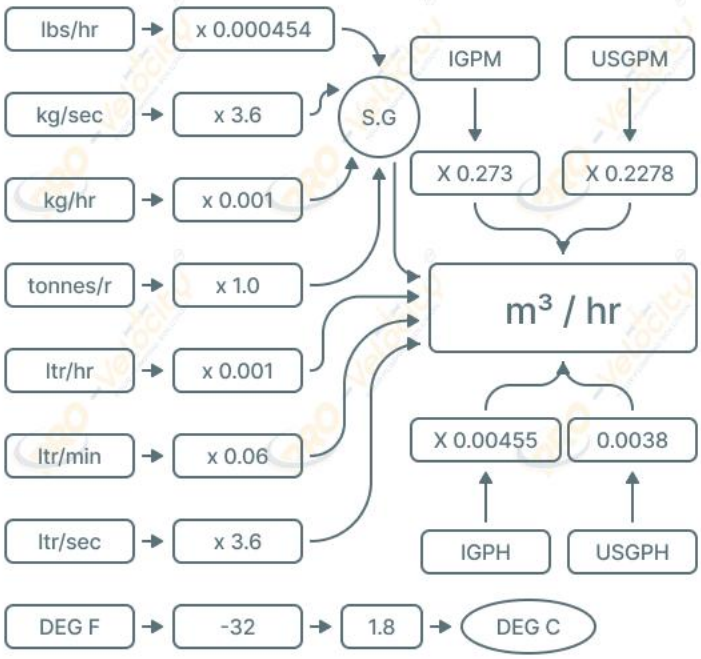
Horse Power	× 0.746

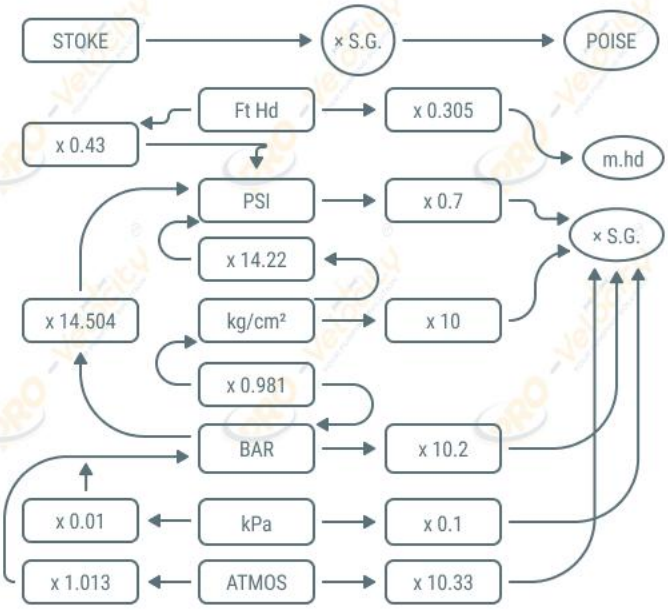
To convert to HP

Kilowatts	× 1.341

KW=

$$\frac{m^3/hr \times \text{Total Head in Mtrs} \times S.G.}{367.2 \times \text{Pump Efficiency (\%)}}$$





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