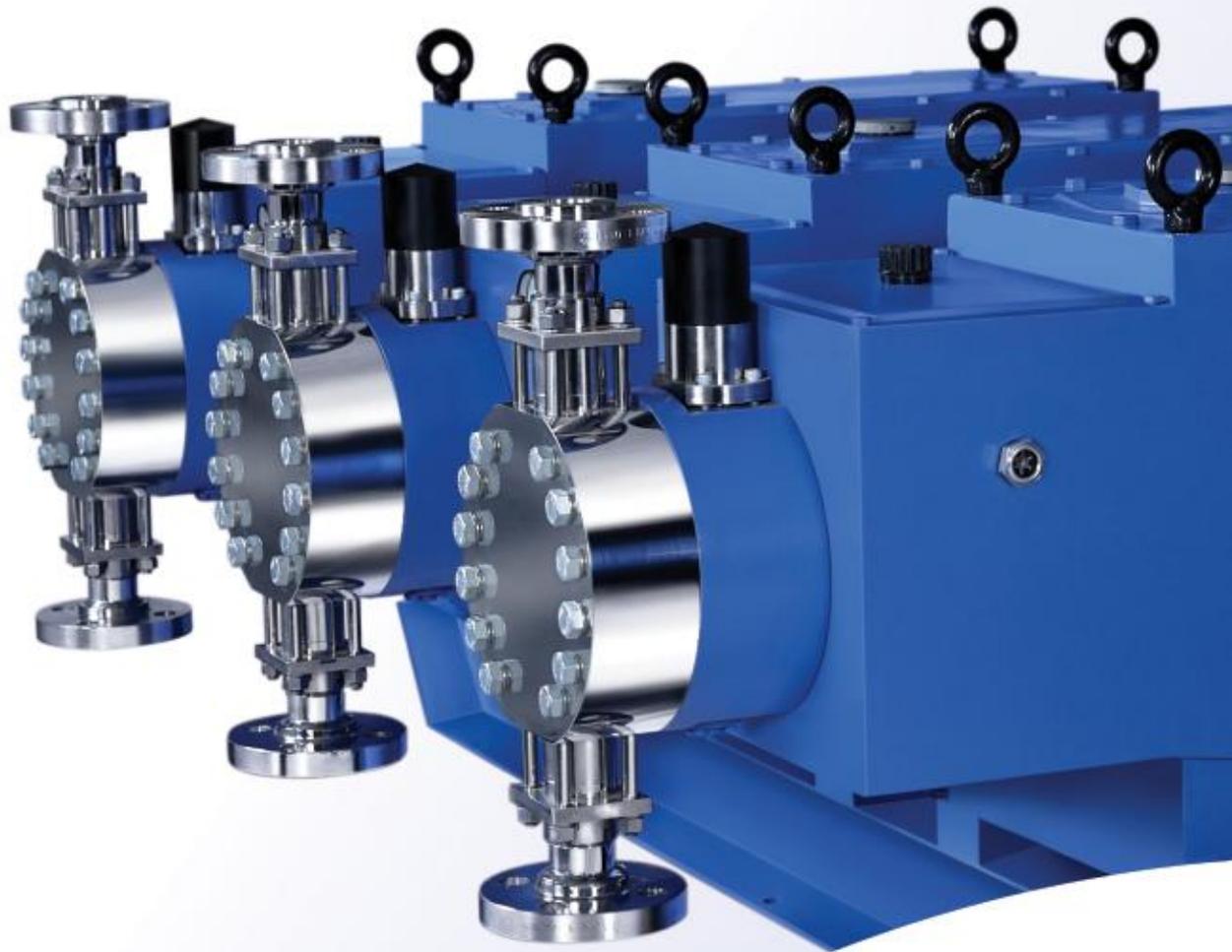


Swelore

Metering Pumps & Injection Systems

PRECISION POWER



Swelore

Engineering Pvt. Ltd.



Aiming
for higher customer
Satisfaction



Vision

To be a diversified company known for its engineering excellence and business ethics nationally as well as internationally.

Mission

To offer best in class products through technological expertise and ensure maximum customer satisfaction.



A journey through 40 years

Swelore was founded by Mr. Rasiklal Gajjar in 1967 in a small shed in the old part of Ahmedabad city. Since then the company has been focused to metering pump technology and system building.

As an endeavor towards perfection and constant growth, the company currently has 60,000 sq. ft. space with modern facilities like machine shop, assembly units, equipments testing facilities, design, projects and administrative departments.

Our products and services are far superior to others because...

We have an edge over the others

- Pioneers with 40 years of experience.
- ISO 9001:2008 (DNV) accredited company.
- Products comply with API 675, 674 & CE standards.
- Track record of having executed maximum numbers of project orders for Refinery, Petrochemical, Power, Fertilizer, etc.
- Approvals from various engineering consultants like EIL, UHDE, TOYO, PDIL, BECHTEL, etc.
- Pumps supplied before four decades are still under operation.
- All the pumps at Swelore are manufactured under strict quality control norms with traceability records.
- Excellent post sales services pan-India.





Infrastructure

Spread in a 60,000 sq. feet area with three impressive buildings in the premises. The company has in-house facilities with ultramodern infrastructure and highly advanced machineries. Manufacturing unit of the company includes fabrication facilities, inspection facilities, material testing facilities, equipment testing facilities and latest machineries & equipments. Through its excellent infrastructure and technological finesse, Swelore offers superior and error-free pumping solutions to its valued customers.





Quality Policy

We satisfy our customers by responding promptly and efficiently to cater their need and expectations.

We strive hard to continually improve our business processes and resources to accomplish our quality objectives.

Service and Support

Swelore strongly believes in establishing enduring relationships with its clients and partnering in their growth through premium products and prompt services.

The company has a dedicated team of proficient technical experts and engineers that provide efficient post sales services. Every query from clients are given due importance and resolved at the earliest. The service team ensures seamless operations through high inputs and productivity.



Aiming
for higher customer
Satisfaction



Industry Applications

The high-end products of Swelore finds applications in a range of industries like:

- Waste Water Treatment
- Speciality Chemicals
- Treatment Plants
- Offshore Platforms
- Food Processing Industry
- Pharmaceutical Industries
- Water Treatment for Boilers
- Power Plants
- Industrial Effluent
- Oil & Gas Industries
- Chemical Process Industries
- Textile Industries
- Refinery & Petrochemical Industries
- RO Plants



Superlative Products & Designs

Swelore has an unrivaled range of Metering pumps for practically all metering applications in tough chemical industries demand.

Our product range includes

- Packed Plunger
- Mechanically Flexed Diaphragm
- Hydraulically Flexed Diaphragm

This broad spectrum of pumps can be combined in many ways like

- Heating or Cooling Jackets
- Remote Head
- High Pressure Metallic Diaphragm
- Micro Metering
- High Temperature
- Plastic Liquid Ends
- High Viscosity
- Diaphragm Rupture Monitoring System
- Complete Automated System Through Actuators

Swelore having such a wide selection, you can easily find most perfect combination of pump to suit your demand.



Modular design with option of Vertical or Horizontal motor arrangement Vx-Hx Series



API 675 Compliance

Capacity Range

100 ml/hr. to 10,000 l/hr. in Simplex designs. Higher capacities can be achieved by multiplexing.

Pressure Range

0-250 kg/cm² in Standard version
up to 500 kg/cm² in Special version

Temperature Range

-30°C to 300°C

Accuracy

Steady state : ± 1%
Linearity better than : ± 3%
Repeatability better than : ± 3%

Vx-Hx Series (Vertical and Horizontal)**Type**

Hydraulically flexed diaphragm Metering pump.
Single and Double diaphragm type.

Flow Rate

0..... 6000 l/hr. in Simplex design. Higher capacity can be achieved by multiplexing.

Pressure

Up to 250 kg/cm² standard design.
Up to 350 kg/cm² special design.

Advantage and Features

- Leak free design.
- All moving parts including plunger is running in oil.
- Diaphragm rupture monitoring system.
- High metering Accuracy.
- In built relief valve in hydraulic circuit.
- Diaphragm life more than 20000 working hours.
- Automatic capacity control via. pneumatic or electric signal on demand.

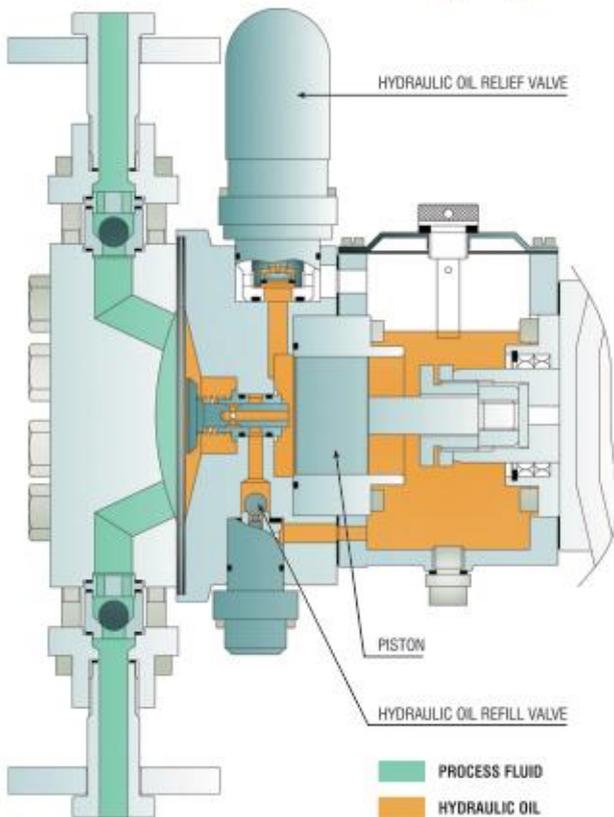
Application

Versatile and suitable for any liquid including toxic and hazardous.

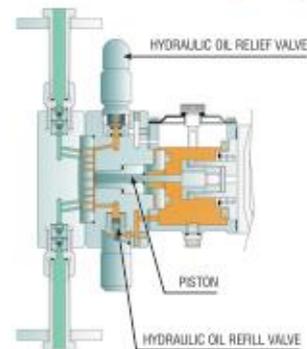


Diaphragm Heads Options and Variations

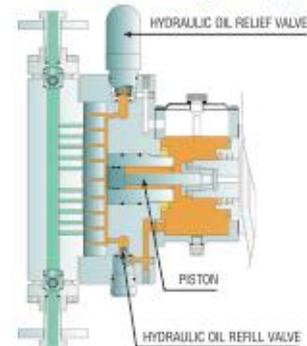
Metallic Head with PTFE Diaphragm



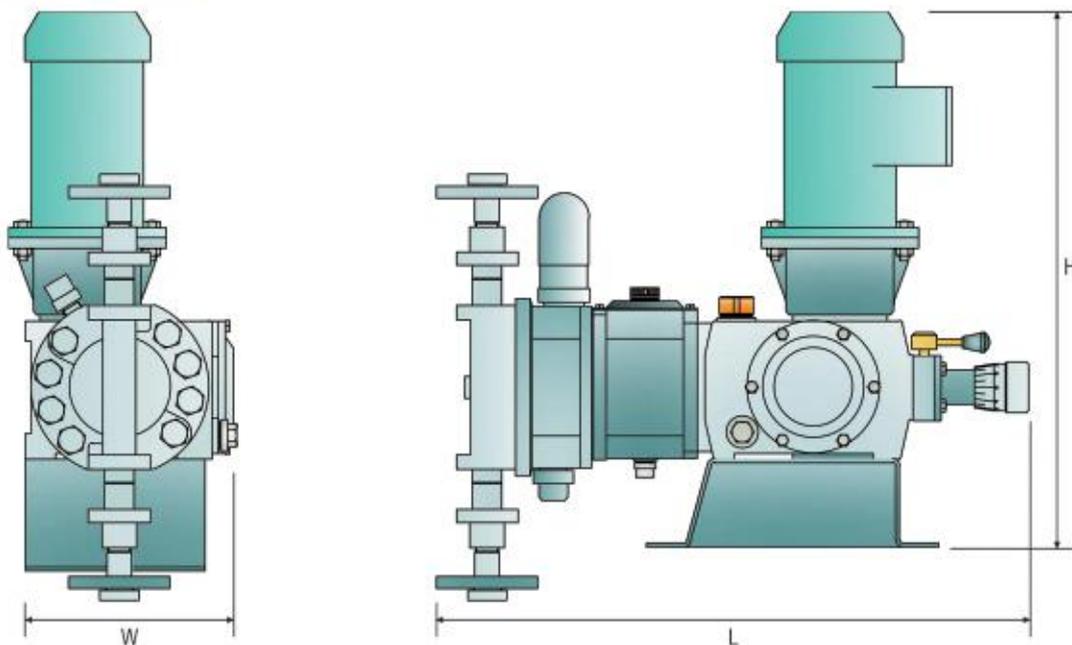
Low Flow Diaphragm Head



High Pressure Metallic Diaphragm Head



Dimensions



Options

- Heating or cooling jacket
- Remote head for handling hazardous & toxic liquids
- Special valve design for viscous, slurry & difficult liquids

| Material Code | Liquid End | Diaphragm | Valve Assembly | Plunger Seal |
|---------------|-----------------|-----------|----------------|--------------|
| M10 | SS 316/CF 8M | PTFE | SS 316 | Gland Less |
| M12 | SS 304/CF 8 | PTFE | SS 304 | Gland Less |
| M14 | Alloy-20 | PTFE | Alloy-20 | Gland Less |
| M50 | PP | PTFE | PP/PVC | Gland Less |
| M53 | PTFE/PTFE Lined | PTFE | PTFE | Gland Less |

Note: Option of other material like Hastalloy-C, Titanium, PVDF etc. are available on request.

| Model | 1125 | 1750 | 2250 | 3000 |
|-------------|------|------|------|------|
| L | 540 | 623 | 833 | 1009 |
| Diaphragm H | 500 | 650 | 817 | 898 |
| W | 185 | 221 | 280 | 345 |

Vx-Hx Series (Vertical and Horizontal)**Type**

Packed plunger Metering pump.

Flow Rate

0..... 10,000 l/hr. per head. Higher capacity can be achieved by multiplexing.

Pressure

Stainless steel head standard pressure upto 300 kg/cm²
special head upto 1000 kg/cm².

Advantage and Features

- Heavy duty construction designed for severe industrial environment.
- High volumetric efficiency.
- High metering accuracy.
- Automatic capacity control via. pneumatic or electric signal on demand.
- Low investment cost.
- Internal worm reduction gear.
- Oil bath lubrication for long life.
- Micrometric stroke adjustment while pump is running or stopped.

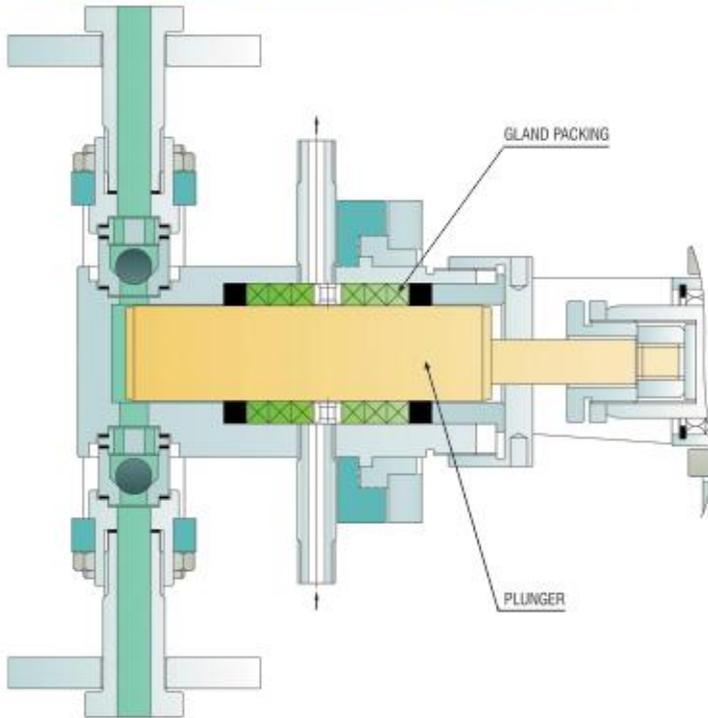
Application

For metering of non hazardous and safe liquids.

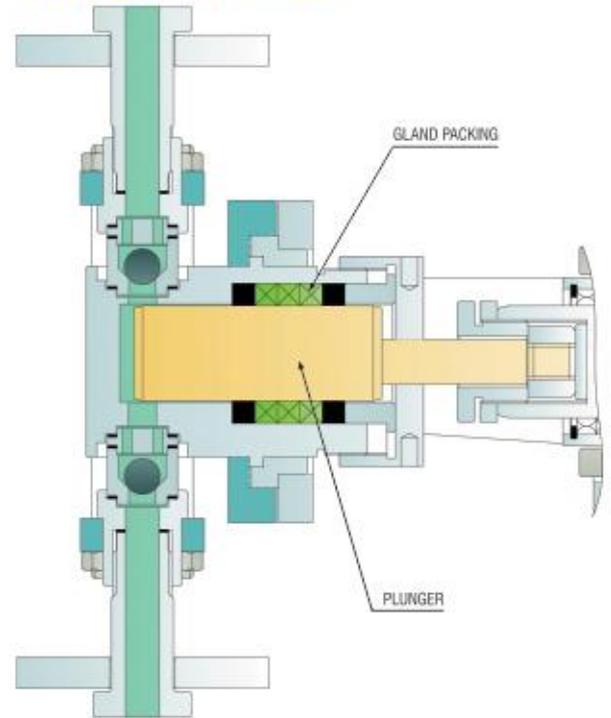


Plunger Pump Heads

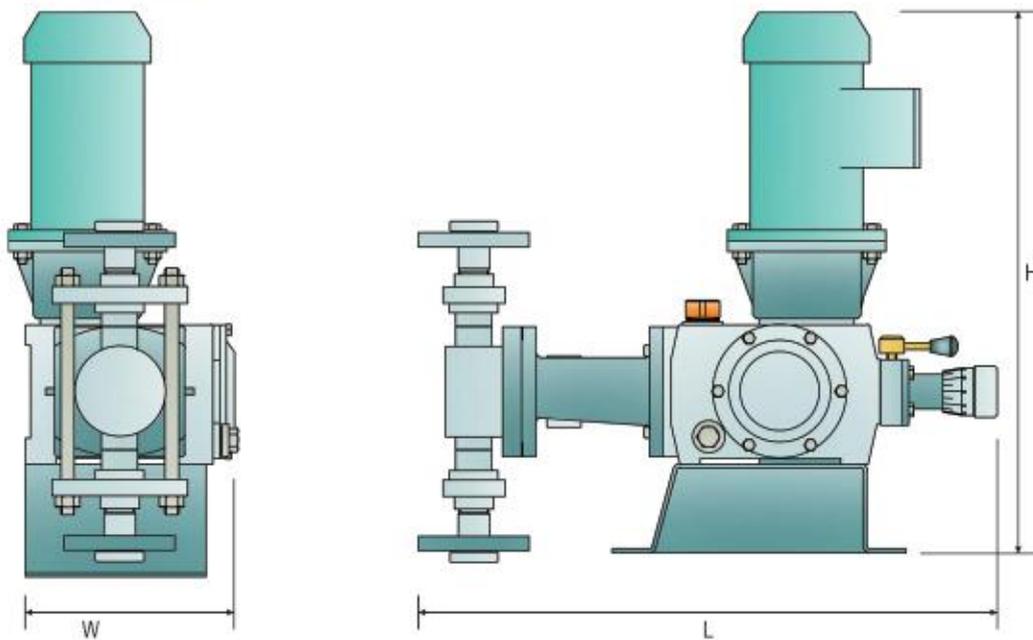
Plunger Pump Head with Gland Flushing or Cooling Arrangement



Conventional Gland Packed Plunger Pump Head



Dimensions



Options

- Heating or cooling jacket
- Special valve design for slurry & viscous liquids
- Hard surface coated plungers

| Material Code | Liquid End | Plunger | Valve Assembly | Plunger Seal |
|---------------|--------------|----------|----------------|--------------|
| M10 | SS 316/CF 8M | SS 316 | SS 316 | PTFE Braided |
| M12 | SS 304/CF 8 | SS 304 | SS 304 | PTFE Braided |
| M14 | Alloy-20 | Alloy-20 | Alloy-20 | PTFE Braided |

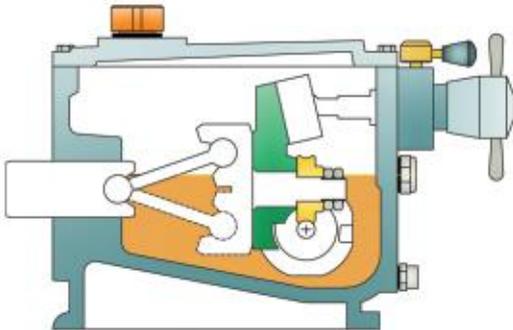
| Model | 1125 | 1750 | 2250 | 3000 |
|-----------|------|------|------|------|
| L | 511 | 585 | 773 | 923 |
| Plunger H | 500 | 650 | 817 | 898 |
| W | 185 | 221 | 280 | 345 |

Principle

The Swelore metering pump is positive returned plunger, variable stroke reciprocating pump. The metered flow can be varied over wide range with the help of welproven WELCRANK mechanism.

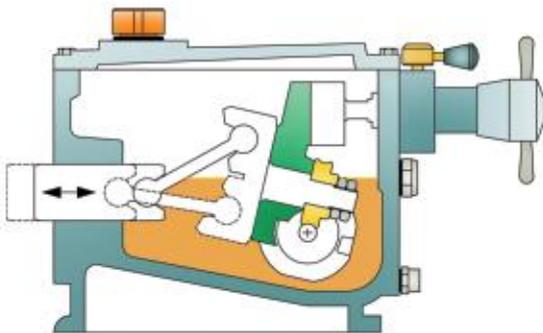
The Design

The Welore metering pump consists of worm reduction gear train, eccentric, connecting rod, cross head, plunger, cylinder & valves.



Zero Stroke

When connected with motor and stroke adjustment knob set at '0', gear assembly and eccentric revolves without producing reciprocating motion of plunger.



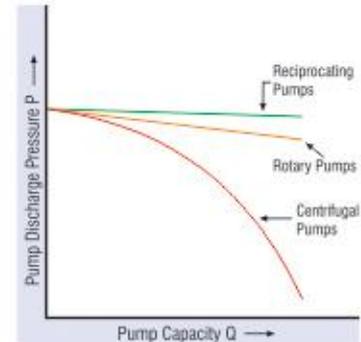
Full or Partial Stroke

When stroke adjustment knob set at full or partial stroke, gear assembly and eccentric revolves in inclined position corresponding to the stroke setting. Thus reciprocating motion is produced to desired stroke length.

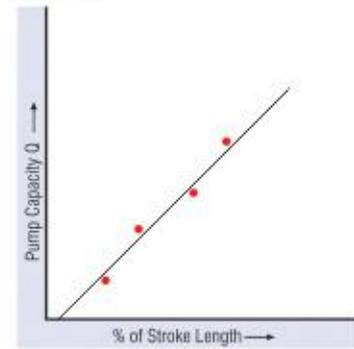
Characteristic

Metering pump characteristic has definite advantage over various design of pumps.

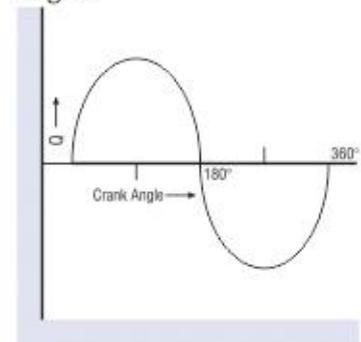
Pressure Stiff



Linear

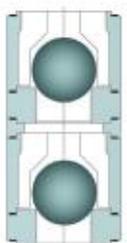


Digital

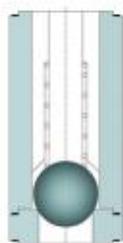


All characteristic made metering pump most favoured pumping tool for precise injection, batch metering & conveying.

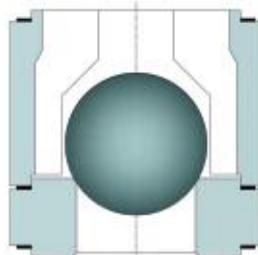
Valves



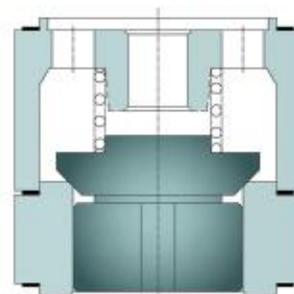
Double Ball Valve



Spring Loaded Ball Valve



Single Ball Valve



Wing Valve

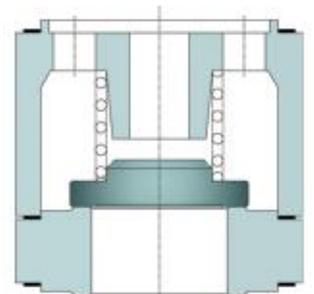


Plate Valve

Typical Performance

| Model | | 1125 | | 1750 | | 2250 | | 3000 | | 5000 | |
|---------------|-----|-----------------|--------------------------------|-----------------|--------------------------------|-----------------|--------------------------------|-----------------|--------------------------------|-----------------|--------------------------------|
| Pl. Dia. (mm) | SPM | Capacity (l/hr) | Pressure (kg/cm ²) |
| 3 | 100 | 0.8 | 400 | | | | | | | | |
| | 150 | 1 | | | | | | | | | |
| 5 | 100 | 2 | 400 | 2.6 | 350 | | | | | | |
| | 150 | 3 | | 4 | | | | | | | |
| 8 | 100 | 6 | 239 | 7 | 350 | 11 | 400 | 13 | 350 | | |
| | 150 | 8 | | 10 | | 16 | | 20 | | | |
| 10 | 100 | 8 | 153 | 10 | 290 | 17 | 400 | 21 | 350 | | |
| | 150 | 12 | | 15 | | 25 | | 31 | | | |
| 12 | 100 | 12 | 106 | 15 | 200 | 24 | 274 | 30 | 350 | | |
| | 150 | 18 | | 22 | | 36 | | 45 | | | |
| 14 | 100 | 16 | 78 | 20 | 149 | 33 | 201 | 41 | 350 | | |
| | 150 | 25 | | 29 | | 50 | | 62 | | | |
| 16 | 100 | 21 | 60 | 27 | 112 | 43 | 154 | 54 | 350 | | |
| | 150 | 32 | | 39 | | 65 | | 81 | | | |
| 20 | 100 | 34 | 38 | 42 | 71 | 67 | 99 | 84 | 235 | | |
| | 150 | 50 | | 61 | | 101 | | 127 | | | |
| 22 | 100 | 41 | 32 | 51 | 60 | 82 | 82 | 102 | 197 | | |
| | 150 | 61 | | 74 | | 123 | | 154 | | | |
| 25 | 100 | 53 | 24 | 66 | 45 | 106 | 63 | 132 | 150 | | |
| | 150 | 79 | | 95 | | 159 | | 198 | | | |
| 28 | 100 | 66 | 19 | 83 | 37 | 133 | 50 | 166 | 121 | | |
| | 150 | 100 | | 119 | | 199 | | 249 | | | |
| 30 | 100 | 76 | 17 | 95 | 32 | 152 | 44 | 190 | 106 | 305 | 233 |
| | 150 | 114 | | 137 | | 229 | | 286 | | 457 | |
| 33 | 100 | 92 | 14 | 115 | 26 | 184 | 36 | 230 | 87 | 369 | 193 |
| | 150 | 138 | | 166 | | 277 | | 346 | | 554 | |
| 36 | 100 | 110 | 12 | 137 | 22 | 219 | 30 | 274 | 73 | 439 | 162 |
| | 150 | 165 | | 197 | | 329 | | 412 | | 658 | |
| 40 | 100 | 135 | 10 | 169 | 18 | 271 | 25 | 339 | 59 | 542 | 131 |
| | 150 | 203 | | 244 | | 407 | | 508 | | 813 | |
| 44 | 100 | 164 | 6 | 205 | 15 | 328 | 20 | 410 | 49 | 656 | 108 |
| | 150 | 246 | | 295 | | 492 | | 615 | | 984 | |
| 48 | 100 | 195 | 5 | 244 | 12 | 390 | 17 | 488 | 41 | 781 | 91 |
| | 150 | 293 | | 351 | | 586 | | 732 | | 1172 | |
| 50 | 100 | 212 | 4 | 265 | 11 | - | - | - | - | - | - |
| | 150 | 318 | | 381 | | - | - | - | - | - | - |
| 52 | 100 | | | 286 | 10 | 458 | 15 | 573 | 33 | 916 | 77 |
| | 150 | | | 412 | | 687 | | 859 | | 1372 | |
| 56 | 100 | | | 332 | 9 | 531 | 13 | 664 | 30 | 1063 | 67 |
| | 150 | | | 478 | | 797 | | 997 | | 1595 | |
| 60 | 100 | | | 381 | 8 | 610 | 11 | 763 | 26 | 1220 | 58 |
| | 150 | | | 549 | | 915 | | 1144 | | 1830 | |
| 65 | 100 | | | 447 | 6 | 716 | 9 | 895 | 22 | 1432 | 49 |
| | 150 | | | 644 | | 1074 | | 1343 | | 2149 | |
| 70 | 100 | | | 519 | 5 | 830 | 8 | 1038 | 19 | 1661 | 42 |
| | 150 | | | 747 | | 1246 | | 1557 | | 2492 | |
| 76 | 100 | | | | | 979 | 7 | 1224 | 16 | 1956 | 36 |
| | 150 | | | | | 1469 | | 1836 | | 2937 | |
| 80 | 100 | | | | | 1085 | 6 | 1356 | 14 | 2170 | 32 |
| | 150 | | | | | 1627 | | 2034 | | 3255 | |
| 85 | 100 | | | | | 1225 | 5 | 1531 | 13 | 2449 | 29 |
| | 150 | | | | | 1837 | | 2297 | | 3674 | |
| 90 | 100 | | | | | | | 1716 | 11 | 2749 | 25 |
| | 150 | | | | | | | 2575 | | 4120 | |
| 95 | 100 | | | | | | | 1912 | 10 | 3060 | 23 |
| | 150 | | | | | | | 2869 | | 4590 | |
| 100 | 100 | | | | | | | 2119 | 10 | 3391 | 21 |
| | 150 | | | | | | | 3179 | | 5086 | |
| 105 | 100 | | | | | | | 2337 | 7 | - | - |
| | 150 | | | | | | | 3505 | | - | - |
| 108 | 100 | | | | | | | - | - | 3954 | 18 |
| | 150 | | | | | | | - | - | - | - |
| 110 | 100 | | | | | | | 2565 | 6 | - | - |
| | 150 | | | | | | | 3847 | | - | - |
| 120 | 100 | | | | | | | | | 4883 | 14 |
| | 150 | | | | | | | | | - | - |
| 130 | 100 | | | | | | | | | 5731 | 12 |

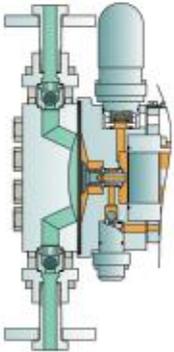
Notes:

Above performance is based on 90% volumetric efficiency when handling water.
 Discharge pressure is based on max. plunger thrust. Please consult us for final selection.

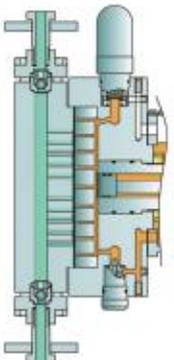
Versatile

Swelore offers wide variety of pump head and adjustment options, which makes Welore Metering pumps truly versatile.

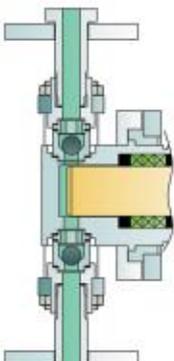
Liquid Heads



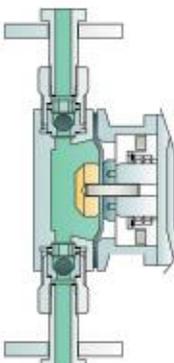
Hydraulic Diaphragm



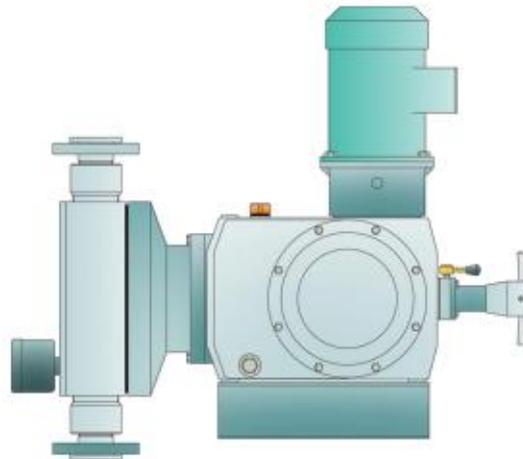
Hydraulic Metal Diaphragm



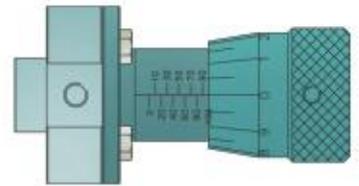
Plunger



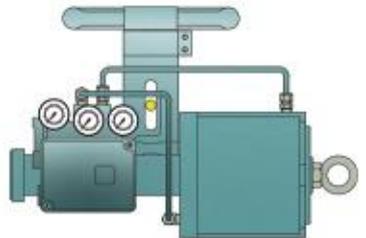
Mechanical Diaphragm



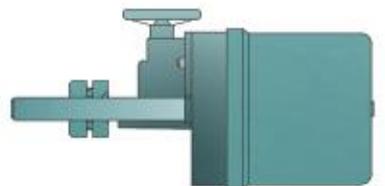
Adjustment



Manual Micrometric



Pneumatic & Electropneumatic



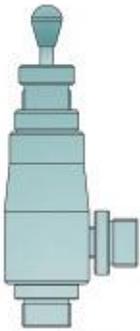
Electric Actuator for Hazardous & Non Hazardous area



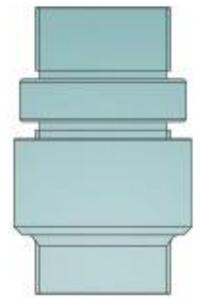
Electronic Speed Control

Accessories

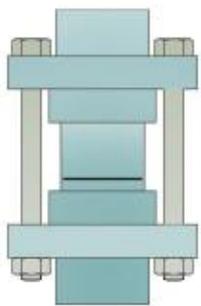
For building up your own metering system, Swelore offers variety of metering pump accessories all at one place.



Safety Valve



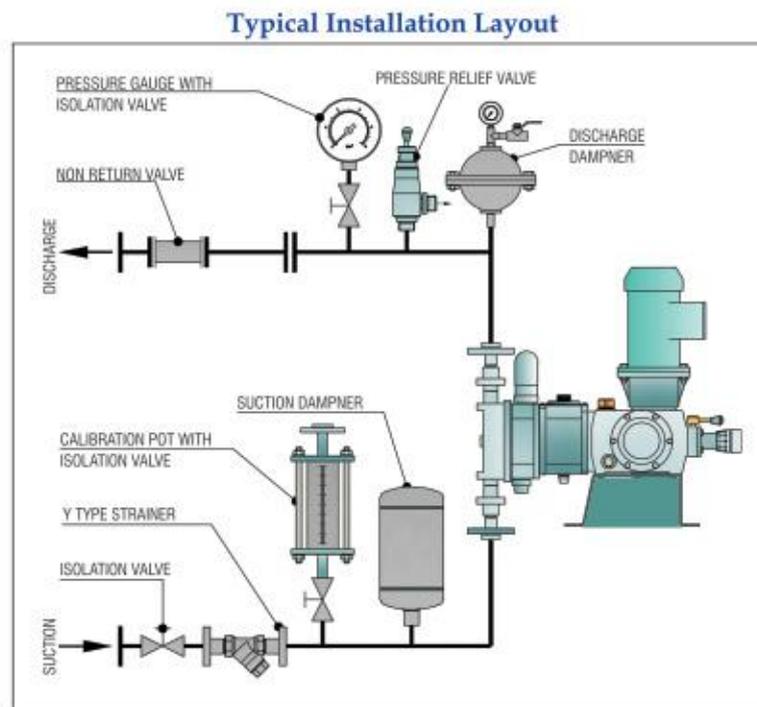
Antisiphon Valve



Antisiphon Valve



Calibration Pot



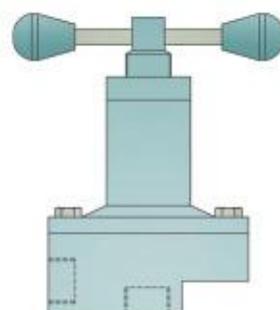
Strainer



Diaphragm Damper



Vessel Type Damper



Back Pressure Regulator



Bladder Damper

Capabilities

Triplex Diaphragm Process Pumps

Swelore triplex diaphragm process pumps are high-tech combination for applications demand high accuracy, high pressure and high

flow. It is ideal choice for handling difficult liquids, toxic & hazardous. As it is hermetically sealed diaphragm design, it is LEAK PROOF.



Horizontal Triplex Reciprocating Pump

Professional approach of meeting various chemical processes... We commit "Technology that saves you money".

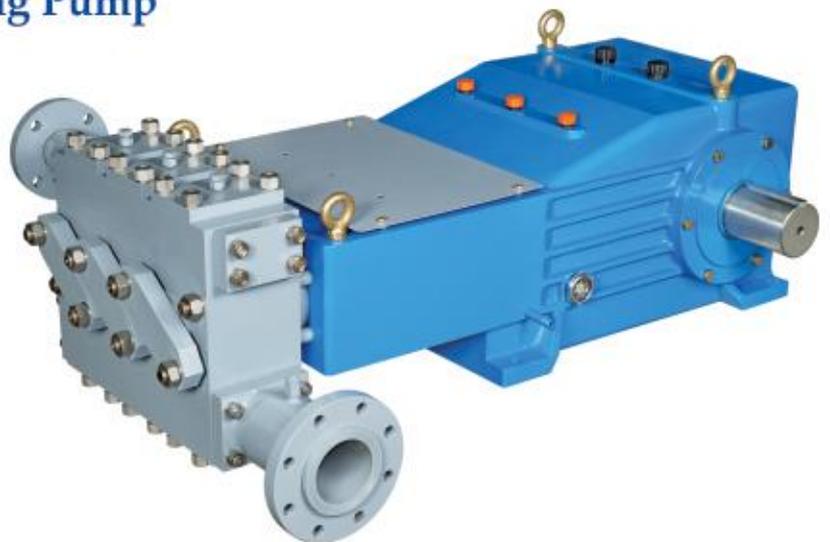
Triplex Pumps are a result of quality product & services using its full-fledged designing & modern facilities in Ahmedabad. Superior & strict quality control & testing with outstanding pump performance guarantees the products passing through severe processing applications & harshest of chemical substances.

Features

Offers a wide variety of pumping range in industries such as Process Industries for Hydro Cleaning , Hydro Testing , Reverse Osmosis Plants, Spray Dryers, Boiler Feed, Jet Cleaning, Food Processing, Drain & Sewer Cleaning, Chemical Injection & many more applications.

Capabilities

Capacity : up to 1000 L/min.
Pressure : up to 700 kg/cm²
Temperature : up to 300° C



- Extra strong, heavy duty power frames ensures long life.
- A wide variety of valves available to suit different pumping fluids & applications.
- Smooth operations with efficient performance.
- Simple to repair & nominal maintenance cost.
- Spring loaded plunger packing ensures leak free pumping.
- Three piece liquid end block designs avoids any possibility of block cracking.



Diaphragm Pump with Electric Actuator



Diaphragm Pump with Electro Pneumatic Actuator



Horizontal Diaphragm Pump with Electric Actuator



Complete Jacketed Diaphragm Pump



Jacketed Plunger Head

Tailor-made Dosing Packages

Tailor made chemical Dosing/Injection systems supplied by Swelore are self-contained, ready to operate units, which only require to be connected to your chemical supply line & injection points. Swelore chemical Dosing/Injection systems are designed to meet individual customer requirements. These systems are complete with Dosing pumps, Piping Storage vessels & all

instrumentation required for optimum and trouble free operations. These systems are supplied duly mounted on single skid with platform, ladders, etc. as per customer requirements.

Swelore Dosing systems are built conforming to applicable national & international standards.



Tailor-made Dosing Packages

Applications

- LP & HP Dosing System
- Phosphate Dosing System
- Hydrazine Dosing System
- Ammonia Dosing System
- Corrosion Inhibitor Dosing System
- Mercaptan Dosing System
- BFW Dosing System
- Sulphuric Acid Dosing System
- Additive Injection System
- DMDS & many more...



Valuable Clients (Domestic)

| | |
|---|--|
| • Aditya Birla Nuvo Ltd. | • Indian Oil Tanking Ltd. |
| • Atul Ltd. | • Indian Petrochemicals Corp. Ltd. |
| • Advent Envirocare Tech Pvt. Ltd. | • Jindal Steel & Power |
| • Arvind Limited | • Kalpataru Power Transmission |
| • Bharat Heavy Electricals Ltd. | • Larsen & Toubro Ltd. |
| • BASF - The Chemical Company | • MRF Ltd. |
| • Bharat Petroleum Co. Ltd. | • Mother Dairy |
| • Bajaj Amines Ltd. | • Nirma Limited |
| • Bharat Petroleum Co. Ltd. | • Numaligarh Refinery Ltd. |
| • BGR Energy Systems Ltd. | • Oil & Natural Gas Corp Ltd. |
| • Cairn Energy Ltd. | • Oil India Ltd. |
| • Cethar Vessels Ltd. | • Oriental Carbon & Chemicals Ltd. |
| • Century Rayon | • Pragati Power Corp Ltd. |
| • Chennai Petroleum Corporation Ltd. | • Punj Llyods Ltd. |
| • Deepak Nitrite Ltd. | • Reliance Industries Ltd. |
| • Dorf Ketal Chemicals (I) Pvt. Ltd. | • Reliance Petrochemicals Ltd. |
| • Desmet Chemfood Engineering Pvt. Ltd. | • SRF Limited |
| • Doshion Veolia Water Solutions | • Steel Authority of India |
| • Electrical & Mechanical Engg. Corp. | • Samsung Engineering |
| • Enpro Industries Ltd. | • The Fertilizers & Chemicals Travancore |
| • Engineers India Ltd. | • Torrent Pharmaceuticals Ltd. |
| • Essar Projects Ltd. | • Toyo Engineering Corp. Ltd. |
| • Finolex Industries Ltd. | • Tata Projects Ltd. |
| • Gail India Ltd. | • Technimont ICB Pvt. Ltd. |
| • Gujarat Alkalies and Chemical Ltd. | • Thermax Abcock Wilcox Ltd. |
| • Gujarat State Fertilizers & Chemicals Ltd | • Thermax Ltd. |
| • Gujarat Flouro Chemicals Ltd. | • Torrent Power Ltd. |
| • HPCL- Mittal Energy Ltd. | • Turkuaz Edible Oil Industries |
| • Hindustan Petroleum Corp. Ltd. | • United Breweries Ltd. |
| • Hindustan Zinc Ltd. | • UDHE India Ltd. |
| • Indian Oil Corporation Ltd. | • Va Tech Wabag Ltd. |
| • Indian Farmers Fertilizers Co-operative Ltd.(IFFCO) | • Voltas Ltd. |

Valuable Clients (International)

Dosing / Metering Diaphragm Pumps

| | |
|---------------------------------------|--------------|
| • Alfa Misr For Industrial Investment | Egypt |
| • ASM Chemicals Industries Ltd. | Bangladesh |
| • Burrup Fertilizers | Australia |
| • Chemanol (Methanol Company) | Saudi Arabia |
| • Crescent Light Trading Est. | Jordan |
| • EDS Europe Ltd. | England |
| • Egyptian Water Technology | Egypt |
| • Egyptian Dutch For Marine Project | Egypt |
| • ELM Trading Co. | Kuwait |
| • Expertise Co. Ltd. | Dubai |
| • Galaxy Projects FZCO | Australia |
| • Gee & Co. | England |
| • GE Power & Water | Kuwait |
| • Hypo Hygiene Products Ltd. | Nigeria |
| • Kardanane Shargh Co. | Iran |
| • Leda Egypt Co. | Egypt |
| • Ocean Way Orange LLC | Japan |
| • OGA Parvas Engineering Co. | Iran |
| • Oman India Fertilizer Co. (SAOC) | Oman |
| • P.T. Technindo Contromatra | Indonesia |
| • P.T. Indo Bharat Rayon | Indonesia |
| • Petronash FZE | Dubai |
| • Petrotech Ind. Eng. Co. | Egypt |
| • Podshipnik - Import LLC | Russia |
| • Process Group International | Abu Dhabi |
| • Spic Fertilizer | Dubai |
| • Swastik Oil Industries (P) Ltd. | Nepal |
| • Thai Organic Chemicals Co. Ltd. | Thailand |
| • Tujrkuaz Edible Oil Ind. | Kazakistan |
| • Wata Chem. Ltd. | Bangladesh |

Chemical Injection Packages

| | |
|---|-----------|
| • ARCO Qatar Inc. - Al Rayyan Oil Development Project (Parsons Technip) | Abu Dhabi |
| • Simon Carves Ltd. | Abu Dhabi |

Sales Network



Consistent performance & quality services has earned 'Swelore' a customer loyalty from its national & international patrons. The company has clients in various countries of South Africa, Australia, South-east Asia as well as the Gulf nations.



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