Welore

Dosing Pumps & Chemical Injection Packages

About Us

Swelore has over 35 years of Liquid Metering Application engineering experience and has acquired all the capabilities for designing & manufacturing of their wide range of chemical dosing / metering pumps and chemical injection dosing packages.

Swelore Metering pumps now offers complete range of models with variety of liquid end combination to cover and handle every specific metering task.

Continuous investment in the advanced modern machinery & state of art technology had made Swelore "the leader in the field of metering pumps and package systems"

Why Use **SWELORE METERING PUMPS**?

Swelore Products & services are advantageous over others because :

- A Pioneer with over 35 years of experience & service records.
- Having a vast population of more than 12000 pumps working satisfactorily with Refineries, Petrochemicals, Fertilizers, Oil & Gas, Chemical & other prominent industrial sectors in India & abroad.
- Pumps supplied before three decades are still in operation.
- Track record of having executed maximum numbers of project orders during past 30 years.
- Company & its products are approved with all engineering consultants of India & Abroad.
- Offers complete range of metering pumps & system to suite wide application areas.
- An ISO 9001 2000 accredited company.
- Excellent after sales & services through all India Network.

Quality

Each & every pump manufactured at Swelore is made under strict quality control norms & with material traceability records.

- Welore series pumps meets API 675 & Hydraulic Institute standard requirement assures guaranteed performance for design & safety.
- Each pump is individually tested before despatch.
- Inspection authorities like: EIL, LLOYDS, DNV, UHDE, PDIL, NTPC, DALAL and H&G have been inspecting welore pumps regularly.
- All projects orders are supplied with necessary contractual documents like GA & CS drawings, material test certificates manufacturing record book, O&M manual etc. In requisite copies.

FEATURES & BENEFITS

Capability

- Flow Rate as low as 100 ml / Hr.
- Flow Rate as high as 6000 Ltr / Hr. in simplex design.
- Pressure rating upto 500 Kg / Cm.2

Multiplexing

All models can be multiplexed & driven by common drive for high capacity requirement or multi point injection.

Stroke Adjustment

Micromatic stroke adjustment is supplied as a standard options of:
Pneumatic & Electro Pneumatic,
Electrical & Electronic, Speed Control units are available for automatic operation of pumps.

Accuracy

Steady state ±1% Linearity better than ±3% Repeated accuracy better than ±3%

Jacketing

Plunger & Diaphragm pumps can be supplied with heating or cooling jacket arrangement for handling difficult liquids.

Remote Heads

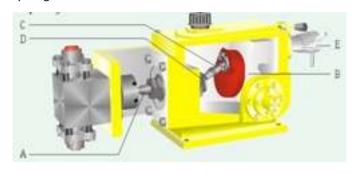
Remote head pumps can be supplied for Radio active, Toxic High temp liquids.

Long Life

As all the power end components are immersed in oil and run at low speed. Welore pumps have long service life & minimum parts replacement.

Stroke Adjustment Mechanism

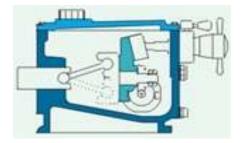
Welore metering pumps use proven welcrank mechanism which is POSITIVE RETURNED plunger mechanism



Α	Plunger
В	Worm reduction assembly
С	Connecting rod
D	Cross head
Е	Stroke adjustment knob

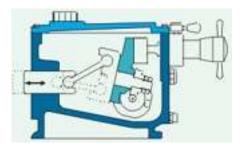
The pump assembly consists of worm reduction gear, eccenter, connecting rod, cross head, plunger, cylinder & valves.

Zero stroke



When coupled with motor & stroke adjustment knob set at "0", gear assembly & eccenter revolves without producing reciprocating motion of plunger.

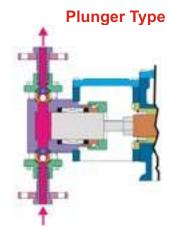
Full or Partial Stroke



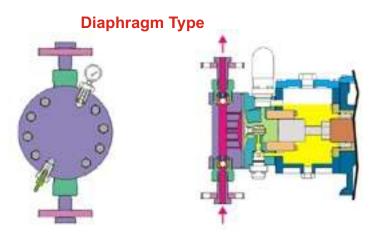
When stroke adjustment knob set at full or partial stroke setting, gear assembly & eccenter revolves in inclined position corresponding to the stroke setting. This produces reciprocating motion with respect to desired stroke length.

Liquid end designs

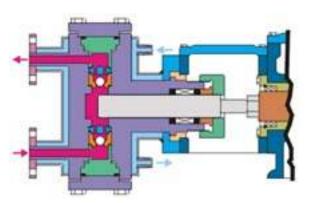
Swelore offers wide variety of liquid end designs to suit various metering applications



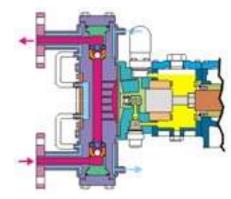
Standard plunger design with option of single or double valve & gland flushing arrangement.



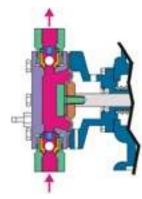
Hydraulically flexed single & double diaphragm for handling liquid without leakages. Option of diaphragm rupture indication device is available.



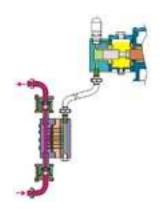
Jacketed plunger head for cooling or heating of pumping liquid.



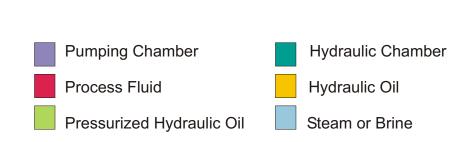
Complete jacketed single or double diaphragm for the liquids requires heating or cooling mandatorily.



Mechanical diaphragm with diaphragm rupture indication



Remote head diaphragm for handling hazardous, toxic & radio active liquids.



Standard Material of Liquid ends

Plunger

Material Code	Liquid End cylinder	Plunger	Valve Assembly	Plunger Seal
M01	SS316/CF8M	SS 316	SS 316	PTFE Braided
M05	SS304/CF8	SS 304	SS 304	PTFE Braided
M03	ALLOY-20	ALLOY-20	ALLOY-20	PTFE Braided
P01 P02				

Diaphragm

Material	Liquid	Diaphragm	Valve	Plunger
Code	End cylinder		Assembly	Seal
M01 M05 M03 P01 P02	SS316/CF8M SS304/CF8 ALLOY-20 PP PTFE/PTFE LINED	P.T.F.E. P.T.F.E. P.T.F.E. P.T.F.E. P.T.F.E.	SS 316 SS 304 ALLOY-20 PP / PVC PTFE	Glandless Glandless Glandless Glandless

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

Accessories

Safety Valve

Releases pressure & provides better safety in discharge line.

Back pressure regulator

Provides artificial pressure on pump discharge to avoid syphoning of liquid

Strainer / Filter

Filters suction liquid & Ensures foreign particle free entry to pump chamber

Calibration pot

Allows periodic verification of pump flow rate.

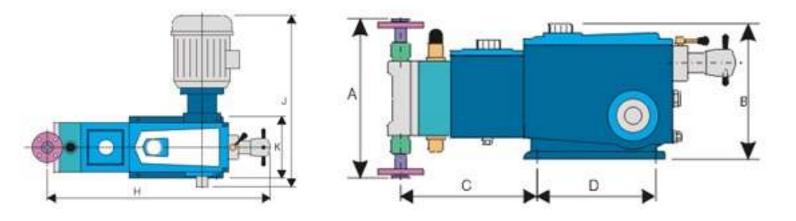
Pulsation dampeners

Minimises pressure & flow pulsations in pump discharge line. Available designs are

Vessel type
 Diaphragm type
 Bladder type

Swelore offers a widest range of all the metering pump system components for different metering applications

Overall Dimensions



Dimensions

Model		1125	1750	2250	3000	5000
	В	238	285	325	430	565
	D	195	270	350	458	610
	J	450	477	590	662	1130
	K	152	190	252	306	442
	Α	255	305	365	442	650
Plunger	С	190	212	266	286	400
	Н	516	638	792	933	1288
	Α	328	360	510	570	760
Diaphragm	С	240	278	349	366	487
	Н	566	705	875	1013	1375

Note: Due to our program of continuous product improvement, features & specifications provided in this catalogue are subject to change.

Capacity Table

Plunger Dia.	SPM	Capacity L / H	Disch. Press (Kg / Cm ²)	Connection size
Model 1125				
8	36 100	2 5	239	
	150	8		
12	100 150	10 15	106	
16	100 150	20 30	60	1/2" x 1/2" F
25	100 150	50 75	24	
36	100	100	12	
50	150 100 150	150 200 300	4	3/4" x 3/4" F
Model 1750				
16	100 150	25 40	112	1/2" x 1/2" F
25	100 150	60 95	45	,,_ ,, ,,
48	100	200	12	0/4" 0/4" 5
56	150 100	300 325	9	3/4" x 3/4" F
70	150 100	475 500	5	1" x 1" F
Model 2250	150	750		
20	100	60	99	1/2" x 1/2" F
36	150 100	100 200	30	
56	150 100	300 500	13	3/4" x 3/4" F
	150	750		1" x 1" F
70	100 150	800 1250	8	IXIF
80	100 150	1000 1600	6	1-1/2" x 1-1/2" F
85	100 150	1200 1800	5	
Model 3000			0.50	
16	100 150	50 80	350	1/2" x 1/2" F
22	100 150	100 200	197	
33	100 150	200 350	87	3/4" x 3/4" F
52	100	500	33	3/4 X 3/4 F
60	150 100	850 750	26	1" x 1" F
70	150 100	1150 1000	19	1-1/2" x 1-1/2" F
100	150 100	1500 2000	10	
110	150 100	3000 2500	6	2" x 2" F
	150	3800	9	
Model 5000 40	100	500	131	1" x 1" F
	150	800		
56	100 150	1000 1500	67	1-1/2" x1-1/2" F
80	100 150	2000 3200	32	
95	100	3000	23	2" x 2" F
108	150 100	5000 4000	18	2 X 2 F
130	150 100	 5000	12	
	150			

Note : Above performance is based on 90% volumetric efficiency when handling water.

Disch. pressure is based on max plunger thrust consult swelore for final selection.

Chemical injection packages

Tailor made chemical dosing systems supplied by Swelore are self contained, ready to operate units, which only requires to be connected to your chemical supply line & injection points. Swelore Chemical Injection Systems are designed to individual customers requirements complete with Pumps, Pipe work & storage vessel all skids mounted. The vessels are equipped with all instrumentations normally associated with such Dosing systems. Swelore Dosing Packages are built confirming to applicable National and International standards.





















Typical pumps





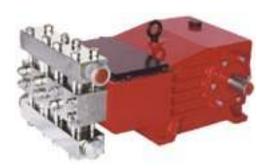


Plunger pump with pneumatic actuator



Swel series mechanical diaphragm & plunger pumps.

Triplex pumps Manufactured by associate M/s. Hiro Nisha Systems Pvt. Ltd.







Triplex pump capability

- Flow rate up tp 60 m3/hr.
- Pressure rating up to 1000 Kg / cm²
- API 674 compliance

Swelore

Pvt. Ltd.

Engineering

Agents

NEW DELHI
BARODA
CALCUTTA
ALLAHABAD
CHENNAI
HYDERABAD
VISAKHAPATNAM

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