



Progressive Cavity Pump

EH Pump



- Handling liquid contents with fiber and solid.
- Suitable for high viscosity liquid(up to 10000cst).
- Connected by gear or belt transmission.
- Mechanical seal or soft packing for shaft seal.
- Simple construction and reliable operation.
- Easy and quite maintenance.

SILI PUMP,
Your reliable one-stop supplier of marine pumps.

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●MAIN FEATURES:

Low mechanical vibration , pulsation free flow, and quiet operation.

The high suction performance .

Suitable for handling the liquids containing the fiber and solids grain , all media of aqueous or media of gas-containing to extremely viscous consistency.

PERFORMANCE RANGE:

Maximum pressure:	Single stage	0.6MPa
	Two stages	1.2MPa
	Three stages	1.8MPa
	Four stages	2.4MPa

Maximum: 300m³/h

Maximum temperature:150° C

Maximum viscosity: 2.7X10⁵cst

●APPLICATION:

For pumping neutral or corrosive liquids ,uncontaminated or abrasive liquids, liquids containing gases or which tend to froth, and liquids of high or low viscosity, including liquids containing fibrous and solid material.

Food mill: To transfer spirit or wine, waste residue and addition in brewery.

Taxi mill :To transfer synthetic foible liquid viscose liquid.

Paper-making : To transfer black pulp.

Petrol-industry: In handling various oil, grease products.

Chemical industry: To transfer suspended liquid ,emulsion liquid , aide liquid ,soda liquid and salt liquid .

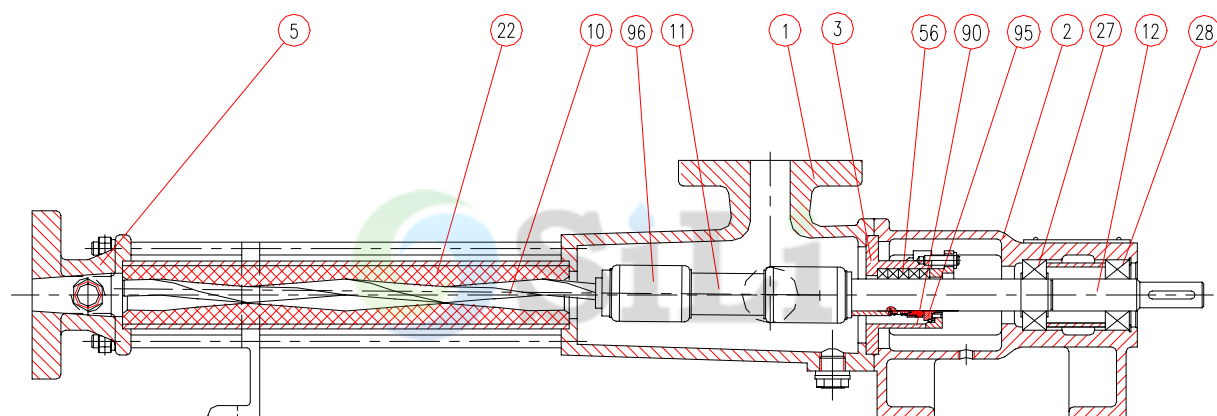
Ship building : To transfer residue oil, to be the Butterworth pump , sewage pump and sea water pump ect.

Build industry : To transfer the mort or and plaster.

Nuclear industry; To transfer the radioactive liquid.

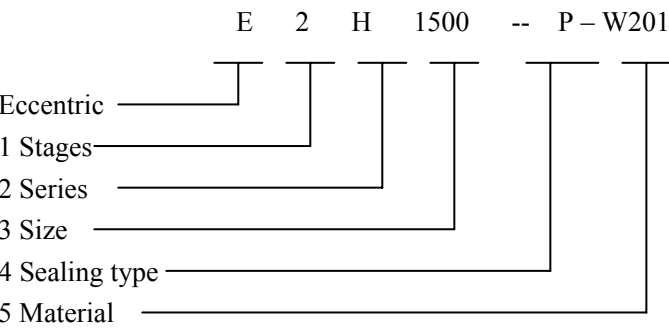
Metallurgical and mine : To transfer oxide and waste water, liquid explosive and drain off water from mine.

●CONSTRUCTION:



1.Pump casing	2.Bearing housing	3.Stuffing box housing	5.Discharge branch
10.Helical rotor	11.Joint shaft	12.Drive shaft	22.Stator
27.Radial bearing	28.Radial bearing	56.Packing ring	90.Mechanical seal housing
95.Mechanical seal	96.Cardan joint		

MODEL CODE:



1. Stages

Stages	Size	Max.pressure
1	63 ~ 6300	0.6MPa
2	63 ~ 6300	1.2MPa
3	1500.2 ~ 4500.2	1.8MPa
4	63 ~ 2650	2.4MPa

2. Series

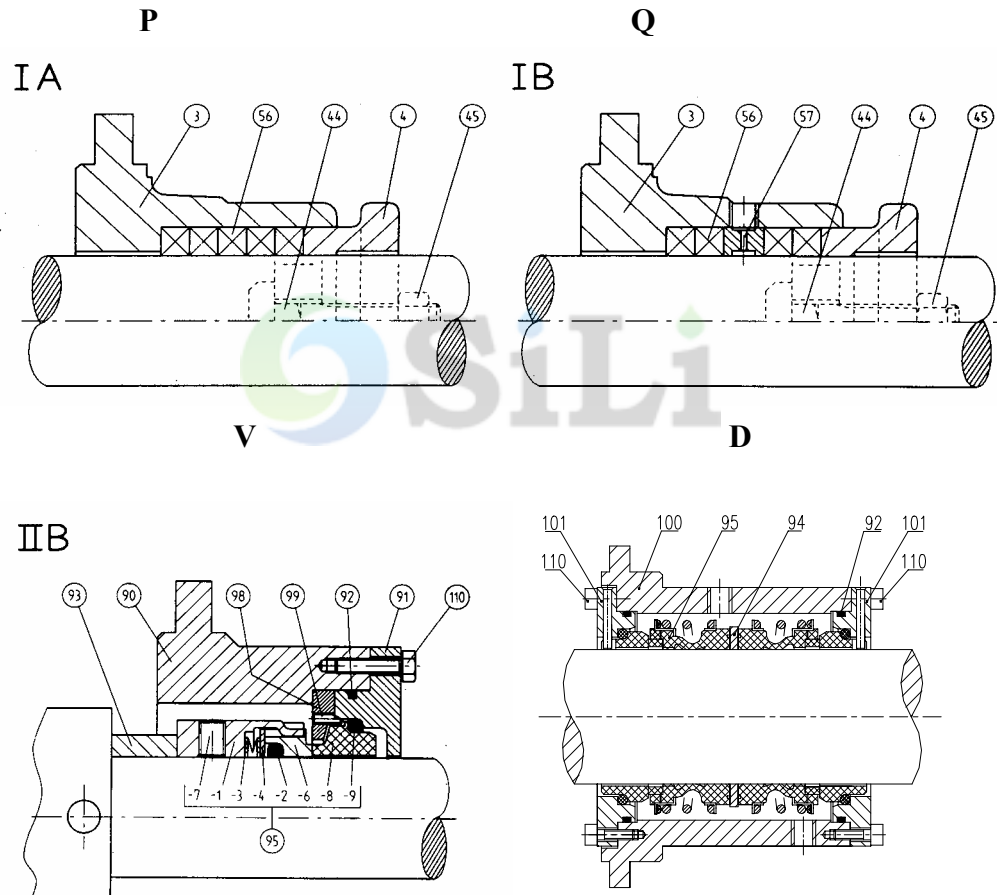
H series is ordinary series, horizontal pump.

3. Size

4. Sealing type

Code	P	Q	V
Type	Stuffing seal	Stuffing box with Flushing ring seal	Mechanical seal

THE CUTAWAY VIEW OF SEAL



5.Material

Code	Rotor	Stator	Parts contacting With the media
W201	2Cr13	NBR	2Cr12 HT200
W102	1Cr18Ni9Ti	NBR	1Cr18Ni9Ti ZG1Cr18Ni9Ti
W105	1Cr18Ni9Ti	Food-grade rubber	1Cr18Ni9Ti ZG1Cr18Ni9Ti
W208	2Cr13	EPDM	2Cr12 HT200
W109	1Cr18Ni9Ti	EPDM	1Cr18Ni9Ti ZG1Cr18Ni9Ti
W210	2Cr13	FPM	2Cr12 HT200
W111	1Cr18Ni9Ti	FPM	1Cr18Ni9Ti ZG1Cr18Ni9Ti
W112	1Cr18Ni9Ti	NBR	1Cr18Ni9Ti HT200
W115	1Cr18Ni9Ti	EPDM	1Cr18Ni9Ti HT200
W116	1Cr18Ni9Ti	FPM	1Cr18Ni9Ti HT200

●NOTES OF SELECTED PUMP:

[Selection of rotation speed based on abrasion]

The following Tab .shows the typical examples of liquids .Abrasive properties of the liquid are listed in the table .

Please note liquid characteristics may change depending on density and temperature.

Select a lower rotation speed as the type number becomes larger

Abrasiveness	Liquid name	Rotation speed
Slight	Fresh water, Coagulation agent, Oil ,Juice ,Mince meat, Varnish, Soapy water, Blood , Glycerol	400-1000 (rpm)
Moderate	Excess sludge , Scum, Factor drainage, Coating color, Pulp water, Carbonate , Calcium, Fish, Rice bran, Strained lees of rapeseed	200-400 (rpm)
High	Lime slurry, Clay, Mortar, Kaolin	50-200 (rpm)

[Rotation speed selection by viscosity]

Viscosity of liquid	1 ~ 100 (cst)	1000 ~ 10000 (cst)	10000 ~ 100000 (cst)	100000 ~ 1000000 (cst)
Rotation speed	400 ~ 1000(rpm)	200 ~ 400(rpm)	<200(rpm)	<100(rpm)

[Stage No. selection by delivery pressure]

Abrasiveness	One stage	Two stages	Tress stages	Four stages
Slight	0.6MPa	1.2MPa	1.8MPa	2.4MPa
Moderate	0.4MPa	0.8MPa	2.4MPa	1.6MPa
High	0.2MPa	0.4MPa	0.6MPa	0.8MPa

Note: The rotation speed should be selected based on experience because various factors affect the selection of the rotation speed. Use the above values as a reference and ask the company for the final selection.

[Rubber basic resistance]

Rubber resistance	Perbunan	Vitran	Ethylene-propylene rubber
Max .temperature	+100° C	+150° C	+120° C
Wear-resistance	○	○	●
Age-resistance	●	○	○
Ozone-resistance	×	○	○
Vapour-resistance	●	×	○
Fair-resistance	●	○	○

○ Excellent ● Very good △ Fair × Poor

[Rubber in common use on one-rotor screw pump stator]

Adaptability of rubber	Perbunan	Viton	Food-grade rubber	Ethylene-propylene rubber
code	NBR	FPM	W.NBR	EPDM
Liquid				
Water (Sewage)	●	●	●	●
Vegetable oil	●	●	●	△
Mineral oil	●	●	●	×
Ammonia liquid	●	×	●	△
Aromatic solvent	×	●	×	×
Concentrated soda solution	●	×	●	●
Concentrated nitric acid	×	△	×	×
Glacial acetic acid	●	●	●	×
Diluted sulphuric acid	●	●	●	●
Concentrated sulphuric acid	×	●	×	△
Diluted hydrochloric acid	●	●	×	●
Concentrated hydrochloric acid	●	●	●	●
Hot water	△	×	△	●
Gasoline	●	●	●	×
Toluene	×	×	×	×
Xylene	×	×	×	×
Alcohol	△	●	△	●

Adaptability of rubber	Perbunan	Viton	Food-grade rubber	Ethylene-propylene rubber
code	NBR	FPM	W.NBR	EPDM
Liquid				
Kerosene	●	●	●	×
Diesel oil	●	●	●	×
Chloride hydrocarbons solven	×	△	×	×
Ketone-containing mixture	×	×	×	●
Alcohol-containing mixture	●	●	●	●
Fat-containing mixture	×	×	×	●
Ether-containing mixture	×	×	×	●
Mud	●	△	●	●
Phosphoric acid	△	△	△	●
Sodium carbonate	●	×	●	●
Furfural	△	△	△	●
Benzene	×	×	×	×
Acetone	×	×	×	●
Linseed oil	●	●	●	●
Carbon disulphide	×	●	×	×

Liquid in Tab. is only a qualitative survey. For special liquid or special requirement, please consult with Research Institute.

The foodstuff rubbers produced by the factory are inspected by Tianjin Food Sanitation Control Office and up to standard.

● Very good △ Fair × Poor