

LIQUID CONTROL BY **ELEPON E.C.A.P.**

ELEPON's New Technology catches up Needs of the Age

TUBE PUMP

ETK TYPE SERIES

*Simple, valve-less construction
means it can self-prime and
transfer any kind of liquid.*

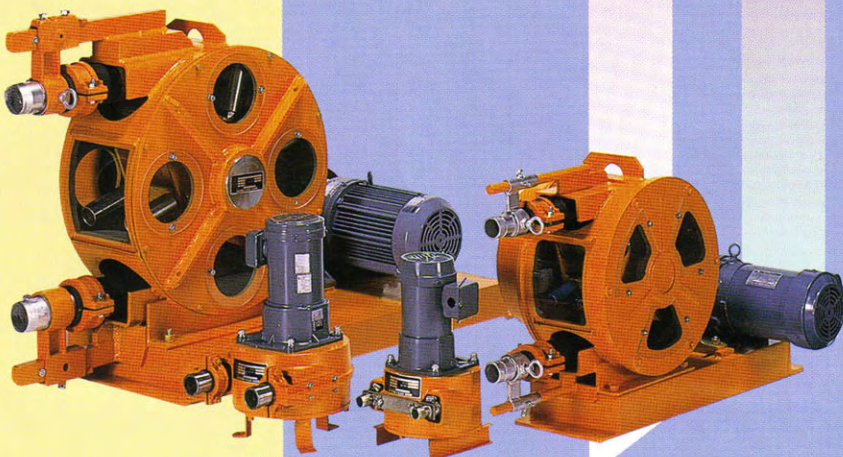
HIGH VISCOSITY LIQUIDS

SLUDGE

SLURRY

LIQUID CONTAINING SOLID MATERIALS

OTHERS



ELEPON E.C.A.P. CORPORATION

Elepon E.C.A.P. Corporation, as a specialist in manufacturing of Chemical Pumps, has been paying utmost effort to create revolutionary pumps and equipments matching every environment and condition in the top industry.

We developed widely applicable Self-Prime Tube Pumps by self-prime and press-transfer for wide range of flowage from all kind of Chemical Liquid to High Viscosity Liquids, as the result of our piled up know-how and technology.

"ELEPON" Tube Pumps are widely used and well received in the field of Chemicals, Foodstuffs, Constructions, Waste Water Treatments and others.

With just a little moisture, Elepon Tube pumps can self-prime and transfer anything.

The Tube Pump is the most fitted for the transfer of the troubled flowage:

ANTI-WEAR

- Excellent for durability compared with conventional pump.

SOLID MATERIALS

- Particles of 1/4 of tube diameter can be transferred.

SOFT ITEMS

- Peeled orange, small fish & etc. can be transferred as is without crushing easily.

FIBER

- Long fiber like thread can be transferred with no trouble.

HIGH VISCOSITY

- Viscosity of 100,000 CP can be transferred.

EASY REPAIR

- Change of tube can be done in 3 minute.

NO LEAKAGE

- Simple construction and non-seal creates non leakage.

CLEANING

- One sponge rubber piece can clean inside of tube in a minute.

TUBE PUMP

ETK-12



ETK-19



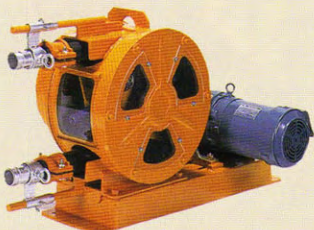
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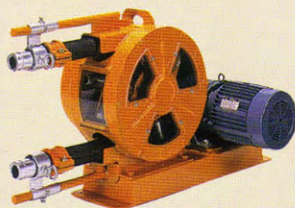
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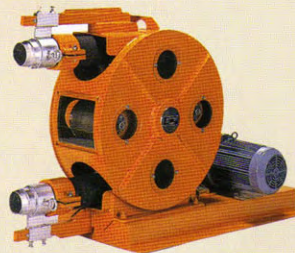
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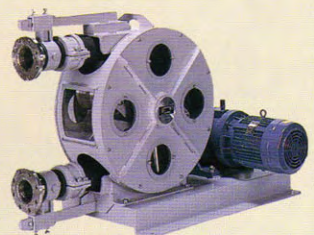
ETK-42



ETK-100



ETK-85 (Special type)



Self-priming and self-transfer is available for any kind of liquid

FEATURES

① SEAL-LESS MECHANISM AND SIMPLE STRUCTURE

Pump part is of simple structure with no valve and seal and there is no worry for leakage (Refer to structural drawing on page 3).

② SUPERIOR SELF-PRIMING

This pump has powerful suction of 760mm/Hg and total suction head 9.5m in column of water.

③ HIGH PRESS-TRANSFER

By increasing electric motor power, maximum discharge pressure is available up to 25Kg/cm².

④ WIDE RANGE OF APPLICATIONS

- HIGH VISCOSITY LIQUID
(Maximum viscosity 100,000 CP is applicable)
- SOLID AND HIGH DENSITY SLURRY & SLUDGE
(Particles of 1/4 of tube diameter can be transferred)
- LIQUID INCLUDING FIBER
(Long fiber can be transferred with no trouble)
- TRANSFER OF LIQUID INCLUDING AIR
(No problem even flowage with air was sucked. Dry running is also no trouble.)

⑤ THE PUMP CAN ROTATE BOTH IN FORWARD DIRECTION AND REVERSE DIRECTION

After transfer flowage in the normal rotating direction, the opposite rotating direction can be used to reverse the remaining liquids in the tube and pipe lines.

⑥ EASY CLEANING OF THE INSIDE OF TUBE AND PIPE

A sponge double size of the tube diameter should be sucked through together with water, and then when the sponge was exhausted with flowage, the cleaning is completed.

⑦ EASY MAINTENANCE AND MANAGEMENT

Change of tube is in 3 minutes and the pump capacity is 100% recovered.

⑧ POSSIBLE TO DETECT THE DAMAGE OR THE TUBE

Tube pump with Tube Damage Detector is also available as option.

APPLICATIONS

【 Chemicals 】

Acid, Alkali Solution, Abrasive Liquid, Latex, Soap Liquid, Adhesive, Ink, Paint, Glue, Dyes/Pigment, Paste, Alcohol, Acetic Acid, Bicarbonate, PAC, Slaked Lime, Slurry, Caustic Soda, Painting Liquid, Emulsion, etc.

【 Foodstuffs 】

Unrefined Soy, Sea Weed, Mince, Innards, Dehydrated Cakes, Chopped Vegetables, Juice with Unrefined Fruits, Sausage, Leftover, Salty Water, Cream, Sugar Liquid, Pickles, Pet Foods, Diatom Earth, etc.
(When the pump is used for the production process, consult with the Elepon Engineer)

【 Water Treatment 】

Animal waste and waste from processed sea food and other food stuffs, Active Carbon, Ion-Exchange Resin, for take out and filling up of sand and other castable materials, etc.

【 Others 】

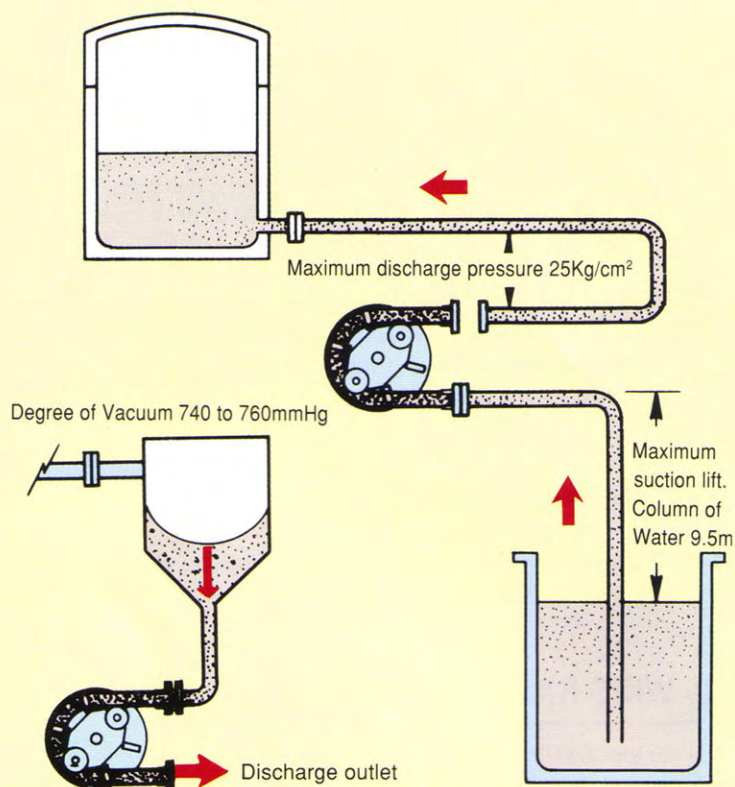
Pulp Chips, Old Paper, Paper Mill Sludge, Fiber Sludge, Metal Powder Slurry, etc.

【 Construction Materials 】

Unhardened Concreat, Mortar, Cement Milk, Clay, Bentonite, Plaster Slurry, Ore Slurry, Ceramic Slurry, Coating (of Panting) Materials. Sludge, etc.

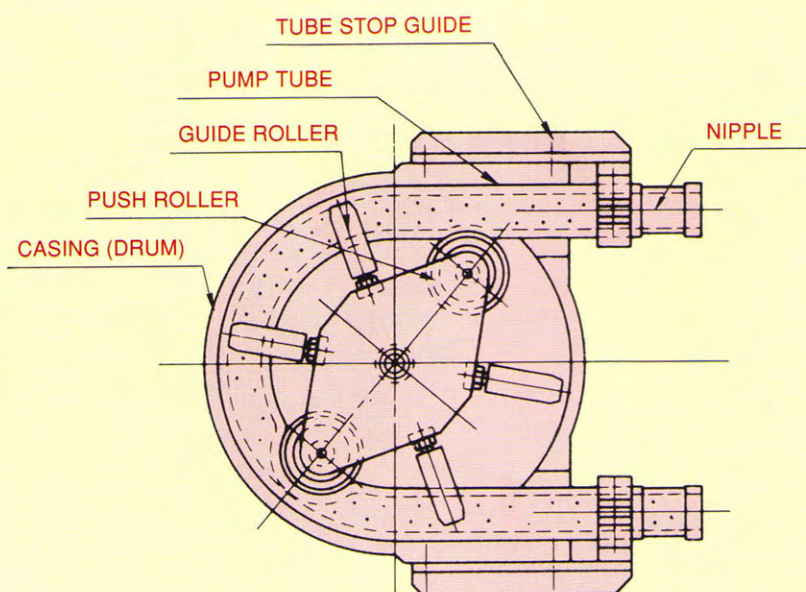
CAPABILITY

The tube pump, with its strong suction and discharging capacity and simple & valve-less construction is ideal for the handling of high-viscosity materials, sludge, slurry, chemicals and liquid containing solid materials and fiber, etc.



CONSTRUCTION

The construction of the pump is extremely simple. Two push rollers rotate along a tube made of special rubber, pushing the tube down. The forced retraction of the tube by means of its own restoring force, aided by the guide rollers located on both sides, generates a powerful vacuum to suck liquid. Which is then discharged by means of the force produced by the push rollers.



SPECIFICATIONS

Model	Standard Discharge Volume ℓ/min(at1kg/cm ²)	Standard Motor Output	Standard Discharge Pressure (max.)kg/cm ²	Maximum Suction Pressure mmHg	Inner Diameter of Tube	Size of Joint Port
ETK-12	1.82 ℓ/34r.p.m.	90W	7	740	12φ	PT1/4 MALE SCREW
ETK-19	3.94 ℓ/36r.p.m.	0.2kW	9	740	19φ	PT3/4 MALE SCREW
ETK-25-1	8.0 ℓ/36r.p.m.	0.4kW	9	750	25φ	38φ Hose
ETK-25-2	10.74 ℓ/36r.p.m.	0.4kW	6	750	25φ	38φ Hose
ETK-32	22.6 ℓ/35r.p.m.	1.5kW	10	760	32φ	38φ Hose
ETK-38	30.3 ℓ/35r.p.m.	1.5kW	10	760	38φ	38φ Hose
ETK-42	42.6 ℓ/35r.p.m.	2.2kW	10	760	42φ	50φ Hose
ETK-50	69.4 ℓ/35r.p.m.	3.7kW	10	760	50φ	50φ Hose
ETK-65	115.8 ℓ/31r.p.m.	3.7kW	7	760	65φ	65φ Hose
ETK-85	245 ℓ/30r.p.m.	5.5kW	5	760	85φ	100φ Hose
ETK-100	420.5 ℓ/30r.p.m.	7.5kW	5	760	100φ	100φ Hose

1. The standard tube materials is NR made of special rubber.
2. NBR tube or other materials should be referred to Elepon on each application.
3. Specify stepless speed changes, if any.
ETK-MH type can be applied.
4. Standard motor is 200V TOTALLY ENCLOSED FAN COOLING INDOOR TYPE ...
Specify motor for different voltage, outdoor type and special motor on each use.

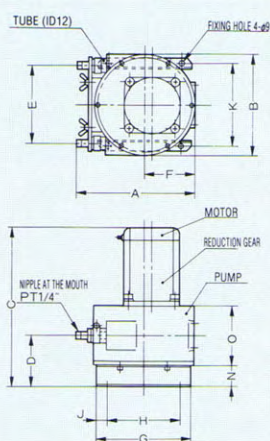
SUGGESTIONS

* Discharge volume in the above specifications is calculated by means of test with water in ambient temperature.
The discharge volume is changed depend on viscosity and density of liquid.

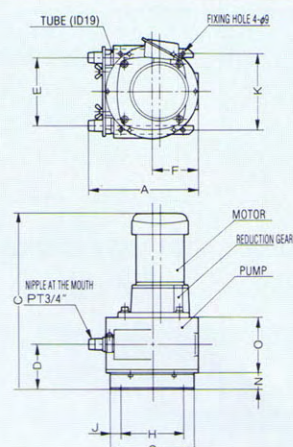
* The above mentioned Standard Discharge Pressure (Max) is caused by Standard Motor Power. In case Higher Discharge Pressure & Larger Discharge Volume is required apart from the standard figure, larger output of Motor is required. Specify separately.

TUBE PUMP

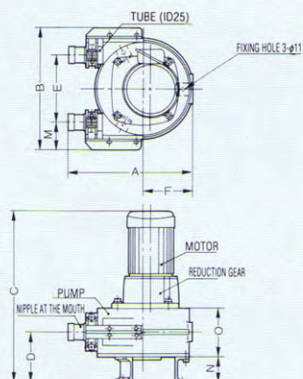
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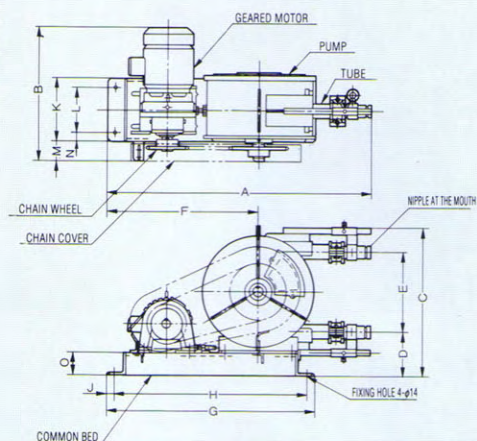
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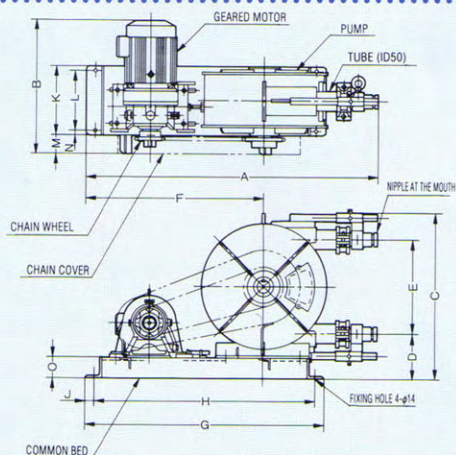
ETK-25-1
ETK-25-2



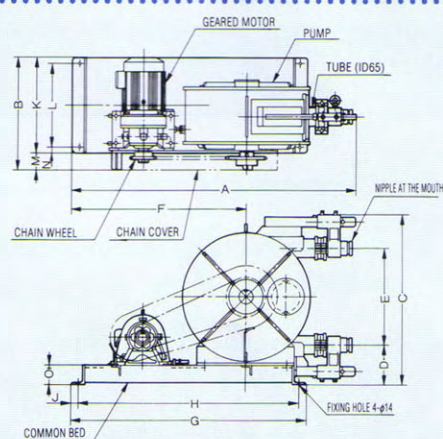
ETK-32
ETK-38
ETK-42



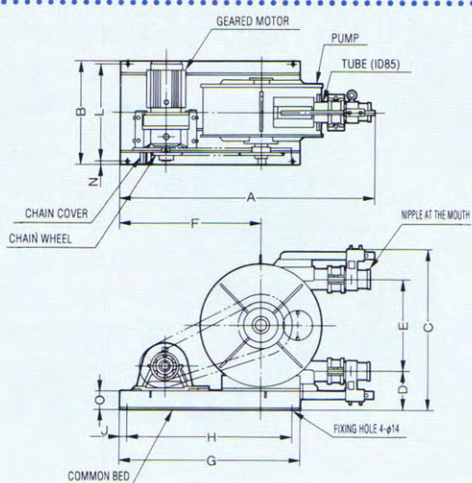
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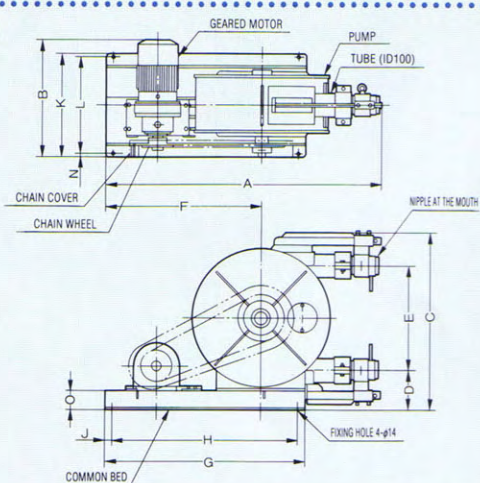
ETK-65



ETK-85



ETK-100



* Outline Drawing and Specification Drawing for the pump with Variable Speed Reducer are available on request.

DIMENSIONS (STANDARD)

Model	Innter Diameter of Tube	Size of Joint Mouth	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P.C.D.	Weight
ETK-12	12φ	PT1/4 Male Screw	226	192	301.5	96	147	96	180	140	20	156	—	—	40	111	—	14kg
ETK-19	19φ	PT3/4 Male Screw	262	—	418	108	162	110	200	150	25	182	—	—	40	132	—	22kg
ETK-25-1	25φ	38φ Hose	361.5	350	496	147	192	142.5	—	—	—	—	—	79	75	141	233	39kg
ETK-25-2	25φ	38φ Hose	467	400	498	150	242	165	—	—	—	—	—	79	75	143	283	48kg
ETK-32	32φ	38φ Hose	1055	530	591	176	318	605	830	770	30	250	180	80	35	90	—	180kg
ETK-38	38φ	38φ Hose	1055	530	591	176	318	605	830	770	30	250	180	80	35	90	—	185kg
ETK-42	42φ	50φ Hose	1165	589	642	182	346	605	830	770	30	250	180	80	35	90	—	200kg
ETK-50	50φ	50φ Hose	1281	583	715	195	406	781	1050	970	40	300	260	95	20	90	—	260kg
ETK-65	65φ	65φ Hose	1517	608	894	208	510	932	1258	1178	40	500	440	90	30	100	—	450kg
ETK-85	85φ	100φ Hose	1688	680	1070	252	602	940	1200	1100	50	—	640	—	20	125	—	730kg
ETK-100	100φ	100φ Hose	1845	739	1164	255	686	1030	1330	1230	50	680	640	—	20	125	—	950kg
All models equip with One Touch Joint and Coupling Nipple at the mouth.																		

* These specifications may be changed without prior notice for improvement.

TUBE PUMP