

KENDALL PUMPS

MEMBRANE PUMPS



EMP

"ELECTRICAL MEMBRANE PUMPS"

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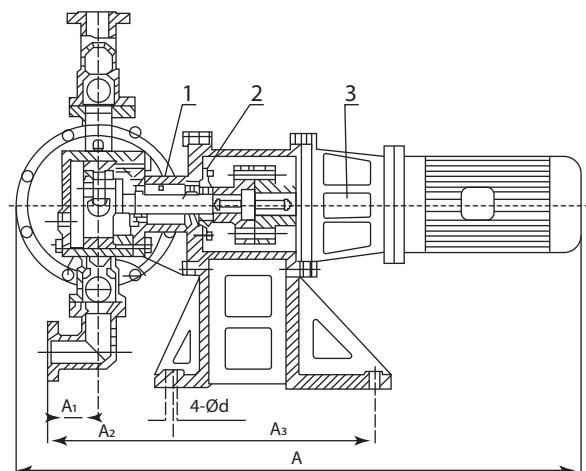
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EMP MEMBRANE PUMP

GENERAL

Membrane pump is a new pump, EMP electric-actuated diaphragm pump. The DBY type's outlet pressure should be lower than 3kgf/cm^2 , our membrane is applicable for petrified, ceram metallurgy, electon, textile industry, etc.



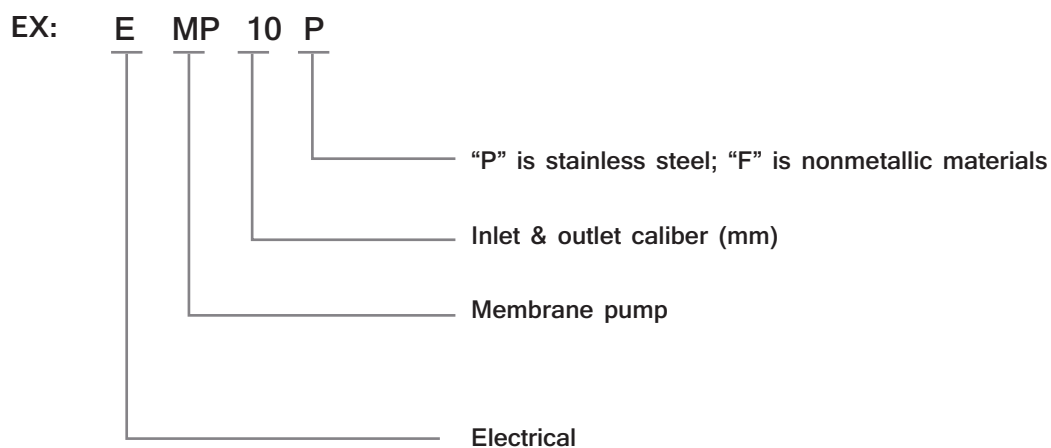
CHARACTER

1. The membrane pump no need to diversion, self-suction height is 7m;
2. It is can be used to transfer the high viscosity liquid (≥ 10000 pas), particle diameter $\leq 10\text{mm}$;
3. It is will never leak, because the liquid is devided with drive mechanical part by the membrane, The pump could work long time because of the pump is no shaft seal.

APPLIED RANGE

1. The pump can suck the peanut, pickles, tomato slurry, red sausage, chocolate, hops and syrup etc;
2. The pump can suck the paint, pigment, glue and adhesive etc;
3. The pump can suck various glazed slurries of tile, porcelain, brick and chinaware etc;
4. The pump can suck various grinding materials, corrosive agent and clean the oil dirt etc;
5. The pump can suck various toxin and flammable or volatility liquid etc;
6. The pump can suck various wedge water, cement slurry and mortar etc;
7. The pump can suck various strong acid, alkali and corrosive liquid etc;
8. It can be used as a front-step transmission device of the solid and liquid separation equipment.

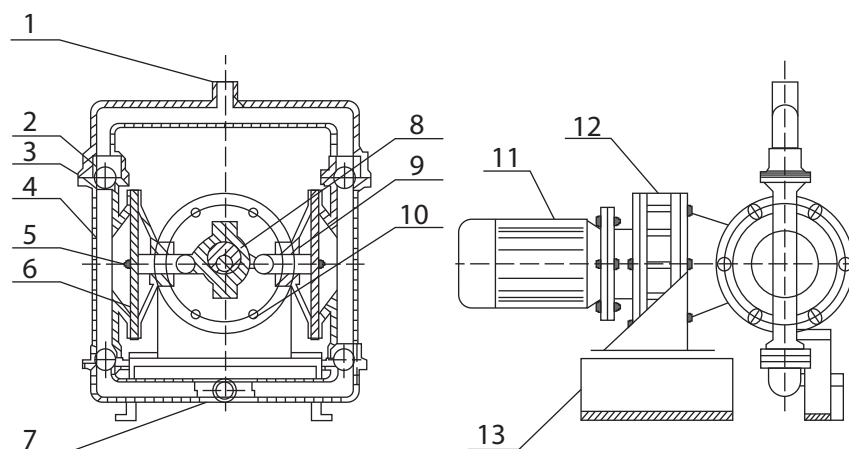
MEANING OF THE MODEL



OPERATION PARAMETER

Caliber: DN 10~DN100mm
 Capacity: 0.8~30m³/h
 Pressure: 0.3~0.6Mpa
 Rotate speed: 1750r/min(60Hz)
 1450r/min(50Hz)
 Work temperature: ≤150°C
 Viscosity: ≤10000mm²/s
 Discharge ability: ≤10mm
 Self-suction height: ≤7m

SKETCH MAP OF STRUCTURE



- 01 Outlet pipe
- 02 Ball
- 03 Ball seat
- 04 Casing
- 05 Clamping bar
- 06 Membrane
- 07 Inlet pipe
- 08 Eccentric Wheel
- 09 Piston Shaft
- 10 Intermediate
- 11 Motor
- 12 Speed Reducer
- 13 Base plate

PERFORMANCE PARAMETER

EMP ELECTRICAL MEMBRANE PUMP

Model	Capacity (m³/h)	Self-suction height (m)	Head (m)	Outlet pressure (Mpa)	Motor power (r/min)/(kW)	Work temperature		Inlet diameter (mm)	The maxparticle diameter (mm)	Weight (kg)
						Cast iron	Stainless steel			
EMP-10	0.5	3	30	0.3	1450/0.55	90	150	10	1	50
EMP-15	0.75	3	30	0.3	1450/0.55	90	150	15	1	50
EMP-25	3.5	4	30	0.3	1450/1.5	90	150	25	2.5	170
EMP-40	4.5	4	30	0.3	1450/1.5	90	150	40	4.5	180
EMP-50	6.5	4.5	30	0.3	1450/3	90	150	50	8	400
EMP-65	8	4.5	30	0.3	1450/3	90	150	65	8	400
EMP-80	16	5	30	0.3	1450/5.5	90	150	80	10	610
EMP-100	20	5	30	0.3	1450/5.5	90	150	100	10	610

Note: There are cast iron, stainless steel, link with rubber for you choose for wearing part, and the motor we also have two type explosion protection type and normal type.

MEMBRANE MATERIAL CHARACTERS

Liquid \ Membrane type	Acrylonitrile butadiene rubber	Neoprene	Fluorine rubber	Polytetra fluoroethylene	Fluorinated ethylene propylene
Nitric acid fuming	×	×	△	△	△
Concentrated nitric acid	×	×	△	△	△
Concentrated sulfuric acid	×	×	○	△	△
Concentrated hydrochloric acid	×	△	△	△	△
Concentrated phosphoric acid	×	△	△	△	△
Concentrated acetic acid	×	×	×	△	△
Concentrated sodium hydroxide	○	○	△	△	△
Hydrogen nitride without water	△	△	△	△	△
Rarefied nitric acid	×	×	○	△	△
Rarefied sulfuric acid	△	△	△	△	△
Rarefied hydrochloric acid	×	○	△	△	△
Rarefied phosphoric acid	×	×	△	△	△
Rarefied sodium hydroxide	○	○	△	△	△
Ammonia	△	△	×		
Benzene	×	×	○		
Gas	○	○	○	○	○
Petroleum	△	×	○	○	○
Carbon tetrachloride	○		○	○	○
Carbon disulfide disulphide	○		×	○	○
Ethanol	○	○	○	○	○
Acetone	×	△	×	○	○
Cresol	×	△	×	○	○
Aldehyde	×	×	△	○	○
Ethylbenzene	×	×	△	○	○
Acrylonitrile	△	△	×	○	○
Butanol	○	○	○	○	○
Biethylene	○	×	△	○	○
Styrene	×	×	△	○	○
Ethyl acetate	×	×	×	○	○
Aether	×	×	×	○	○

Note: “○” for operating life is long, “△” for normal operating life, “×” for can not use.

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