

Cantilever Pumps

Design SO/SOK, Series T/E/EO/EOS



Chemical and Petrochemical industry

- Automotive industry Environmental technology
- Paper and Fibre processing industry Waste water treatment
- Steel industry
- **Building industry**

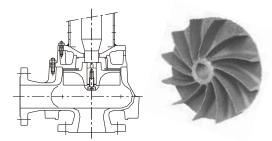


Advantages of design SO / SOK

- No bearings in pumped liquid
- No shaft seal in pumped liquid
- Dry running possible
- Long service life and great reliability
- IEC standard motors
- Easy maintenance and installation

Hydraulic characteristics

Turo - Vortex pump

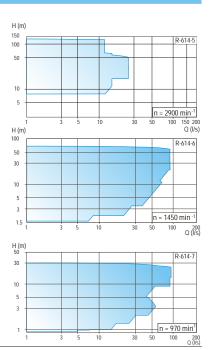


Completely free spherical passage.

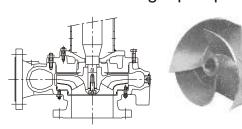
Discharge: DN 32 - 150
Capacity: up to 120 l/s
Head: up to 130 m
Working temperature: -20 to +80°C
special: up to 140°C

Application

Handling slurries containing fine or large solids or fibres; suspensions, raw sewage, abrasive, corrosive or viscous liquids.



EGGER centrifugal pumps

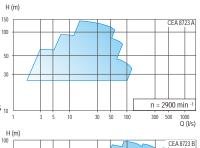


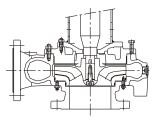
Series EOS

Discharge: DN 50 - 500
Capacity: up to 1300 l/s
Head: up to 140 m
Working temperature: -20 to +80°C
special: up to 140°C

Application

Open 3-vane impellers for homogeneous 10 slurries, short fibrous suspensions, various aerated sludges as well as slurries containing larger solids.





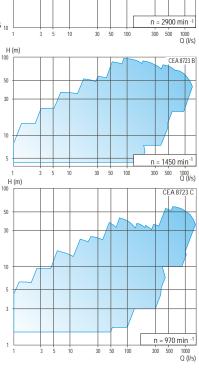


Series EO

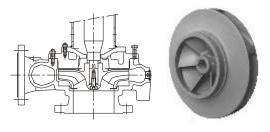
Discharge: DN 50 - 500
Capacity: up to 1300 l/s
Head: up to 140 m
Working temperature: -20 to +80°C
special: up to 140°C

Application

Semi-open impellers for homogeneous slurries, short fibrous suspensions and various aerated sludges.



Series E



Discharge: DN 100 - 250
Capacity: up to 300 l/s
Head: up to 80 m
Working temperature: -20 to +80°C
special: up to 140°C

Application

Shrouded impellers for clean and dirty liquids containing fine suspended solids.

Installation

SO Dry (tank) installation

Pump fitted outside of tank. Suction and drainage pipes connected to suction tank. Bearing housing and motor arranged above max. liquid level.

SO Wet pit installation

Pump end submerged in medium to be pumped. Bearing housing and motor arranged above max. liquid level.

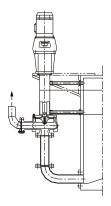
SO Wet pit installation

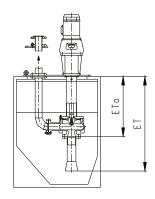
The pit-cover is above the bearing housing. This allows a deeper installation length ETo.

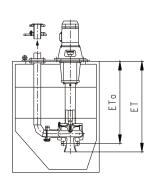
SOK

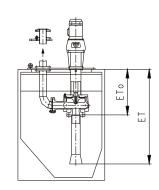
Wet pit installation

Identical to SO, with shorter installation length.









Technical description

Motor

Totally enclosed, fan-cooled IEC standard motor, mounting arrangement V1, for all executions, incl. «Ex» protection.

Coupling

Any flexible coupling, e.g. N-Eupex

Bearing arrangement

A heavily dimensioned shaft is supported by a pair of upper angular ball bearings and a lower roller bearing. The latter is moisture protected by a special radial seal and a labyrinth deflector. No bearings and no shaft seal in the pumped liquid («Cantilever» type).

Pit cover

The pit cover can be fitted above or below the bearing housing, thereby changing the installation depth ETo. The pump can be supplied with a large pit cover and discharge pipe, or with a small pit cover and no discharge pipe.

Installation length ETo / ET

ETo = depends on bearing housing size, speed and hydraulic load on pump. It can vary between 0.7 - 2.0 m.

ET = variable by means of suction pipe.

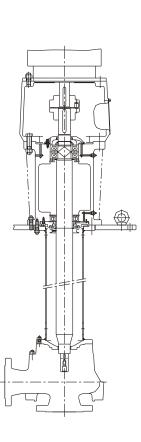
Materials of construction

Hydraulic part:

Cast iron (GG), chrome iron (HG 15.3), stainless steel (1.4408), or other corrosion resistant materials.

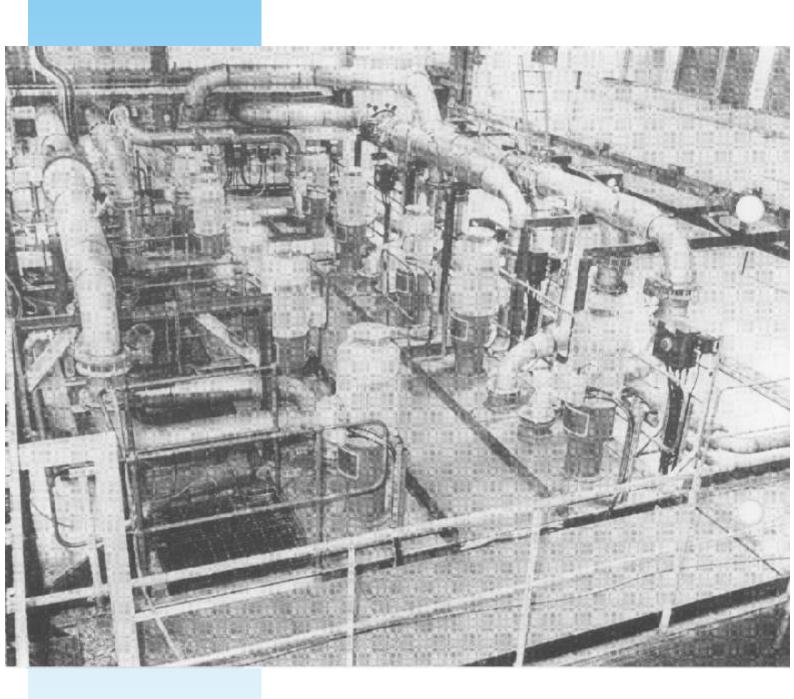
Shafting / Support column:

Carbon steel (CK45), St37, cast iron or corrosion resistant materials.





Cantilever Pumps Design SO - Series EO in the automotive industry





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