

## Semi-Open Impeller Pumps



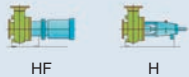
### Design Features / Range

Discharge:	ANSI 2" - 20"
Capacity:	up to 21,000 gpm
Head:	up to 490 ft
Gas Content:	up to 25% Vol.
Temp. Range:	up to 250 °F standard up to 570 °F special const.
Design Press.:	up to 230 psi standard up to 1450 psi special const.

### Arrangements

#### Dry-pit design

Horizontal pumps

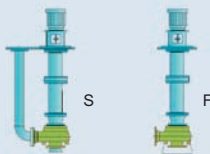


Vertical pumps

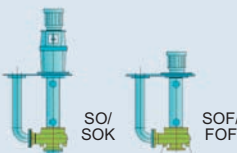


#### Dry and wet-pit design

Vertical shaft pumps



Cantilever pumps



### EOS advantages

- **Solids handling ability**

The EOS Series is designed to handle homogeneous slurries with soft or hard solids or fibers in suspension. There are various impellers available with 3 to 7 vanes for optimized hydraulic efficiencies and solids handling capability.

- **Gas handling ability**

The unique impeller design allows the pump to handle multi phase liquids with entrained air and gases up to 25% VOL. without vapor locking.

- **High Performance**

The EOS semi-open impellers achieve high hydraulic efficiencies and are equipped with high performance pressure relief balancing vanes. These balancing vanes provide better operating conditions for the seals and lower costs for seal flush plans. The suction is equipped with an easily adjustable wearing to maintain hydraulic performance. The special impeller entry design provides low NPSH<sub>R</sub> and excellent suction conditions. Multiple hydraulic sizes are available for best hydraulic fit.

- **High Temperature (HT) and High Pressure (HPT) designs available**

Horizontal centerline mounted arrangement for temperatures up to 570 °F and system pressures up to 1450 psi. Please refer to our applicable brochure for additional information.

- **Various Arrangements**

Various Mechanical arrangements are available including horizontal and vertical dry pit arrangements as well as vertical shaft pumps (VS4) and Cantilevers (VS5) for sump configurations. Please refer to the chart on the left and inquire with us for the benefits and advantages of the individual designs.

## Horizontal Power Frame and Bearing Assemblies

### Power frame design

The horizontal EOS-pump program comprises of four different power frame sizes. Depending on bearing load, the motor side bearings can be supplied in the different

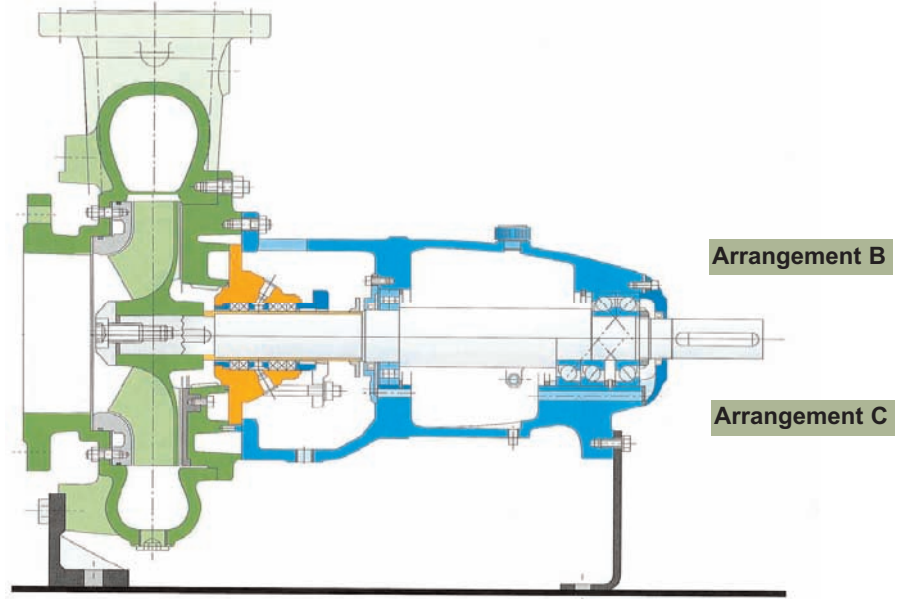
### Bearing assemblies

#### Heavy duty design B

Motor end double angular contact ball bearings.

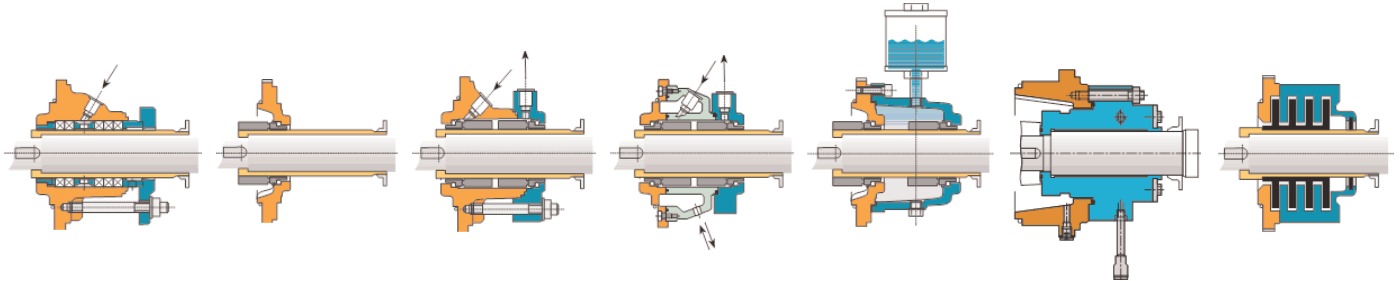
#### Extra heavy duty design C

Motor end triple angular contact ball bearings.

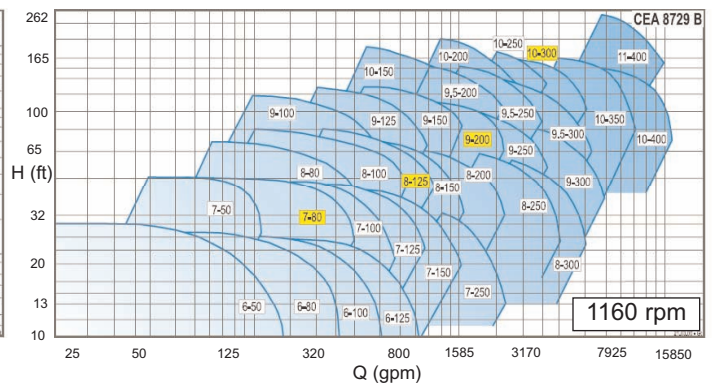
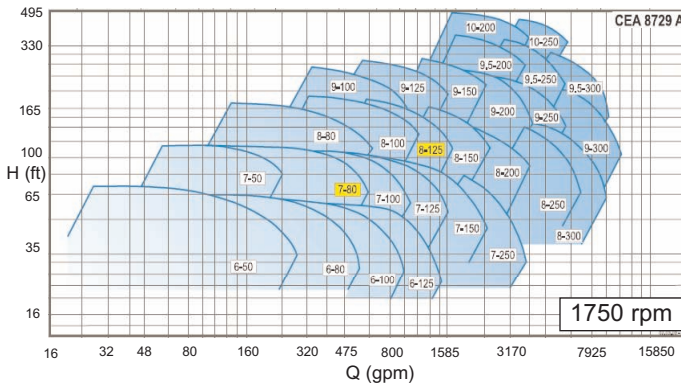


## VARIOSEAL® system

As the seal housing is a separated component from the casing cover, the pump can easily be fitted with different types and makes of seals thereby allowing us to provide you with the correct seal for your application.



## Performance Curves



Additional speeds available.