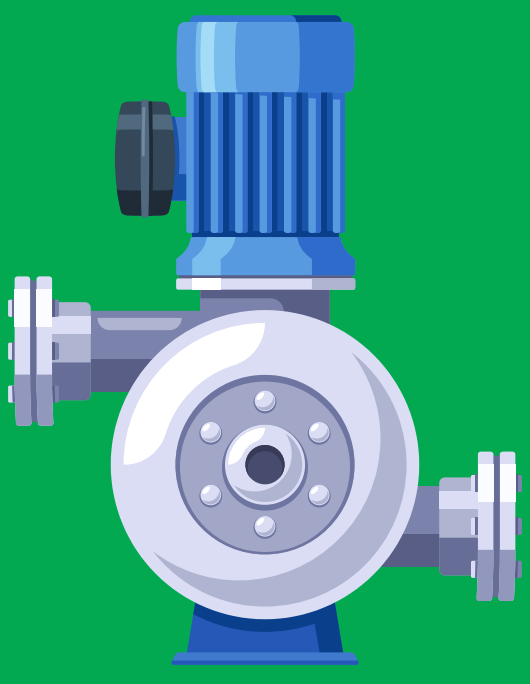
Understanding

SEALED PUMPS



What are sealed pumps?

A sealed centrifugal pump is a type of pump where the rotating shaft is completely enclosed with mechanical seals, preventing leakage of the fluid being pumped. This design is common in chemical processing, water treatment, and industrial applications requiring containment of hazardous or valuable liquids.

Pumps & motors can account for up to 80% of operational costs in some facilities. Sealed pumps reduce leakage-related costs.

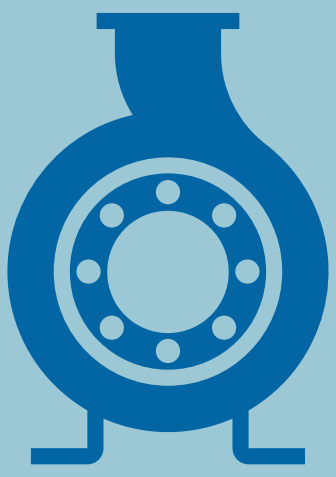
Pump Key Features

Leak Prevention: Mechanical seals prevent fluid from escaping.

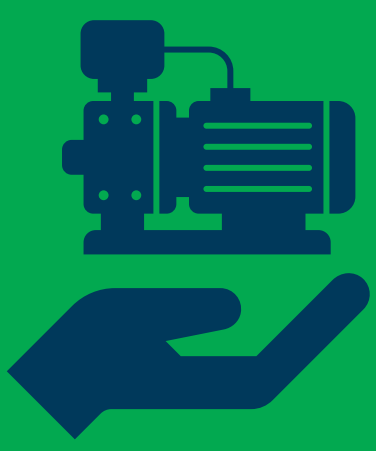
Safety: Containment of hazardous, corrosive, or expensive liquids protects workers and the environment.

Efficiency: Reduced product loss and improved pump reliability.

Compatibility: Can handle a wide range of fluids and viscosities.



Compared to mechanical seal packing, facilities report 80–90% fewer leakage incidents after adopting sealed centrifugal pumps.



Optimized sealed impeller designs can deliver up to 10% higher hydraulic efficiency than older unsealed pumps.

Benefits of Sealed Pumps

Sealed centrifugal pumps are economically priced and, when equipped with the correct seal, can handle some solids.

Mechanical seals preserve pump system integrity by preventing fluid leaks and keeping contaminants out.

Each seal type has unique characteristics that make it suitable for specific applications.

Seals protect bearings and internal components, giving pumps a longer service life.

Sealed Pump Series

Finish Thompson's GP and AP Series constructed from corrosion-resistant polypropylene, PVDF, or 316 stainless steel. They come in horizontal, vertical, or vertical-cantilevered designs with recessed or high-head impellers, serving industries from metalworking and food production to pharmaceuticals, municipal systems, landfills, and OEM applications.

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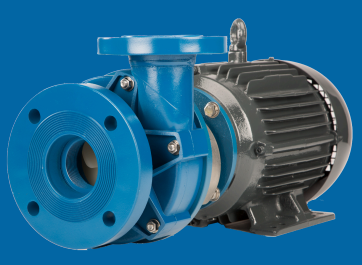
AP SERIES



GP SERIES