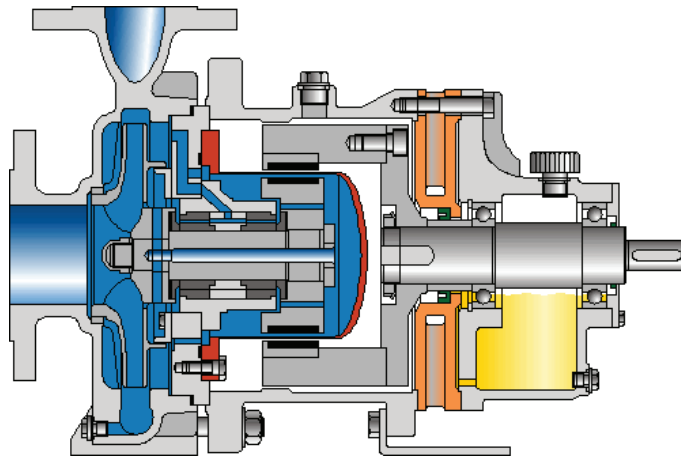


SLM-NVO-TD TOXIC DUTY MAGNETIC DRIVE PUMPS

Toxic Duty Centrifugal Pumps With Double Isolation Shell



Technical Data

- Flow rates up to 5500 GPM
- Total delivery heads up to 575 feet
- Temperature ratings from -40°F (-40°C) to +575°F (+300°C)
- Flange rating per ANSI B16.5 Class 150 and Class 300

Construction

- horizontal centrifugal pump
- permanent magnet drive system, no shaft duct
- separation of liquid chamber/atmosphere by means of a double isolation shell
- synchronous drive transmitted by inner and outer magnet systems
- internal bearings made of pure, sintered silicon carbide, alpha grade, liquid lubricated, for absorption of radial and axial loads
- bearings of outer magnet carrier: deep groove ball bearing

Materials

pump casing: 316 SS
impeller: 316 SS
isolation shell: 316 Ti/Hastelloy C4
inner magnet carrier: 316 Ti/Hastelloy C4
internal bearings: Silicon Carbide, Alpha Grade
bearing frame assembly: Cast Steel/Nodular Cast Iron
magnets: Rare Earth Samarium Cobalt

Applications

Refineries
Chemical and petrochemical
industries
Liquid gas plants
Tank installations
Pharmaceutical industries

Pumping

cyanide
acids
hydrocarbons
aggressive, explosive
and toxic liquids
lethal services
hydrofluoric acid

Special Alloys

Hastelloy B 1 (B)
Hastelloy C 1 (C)
Titanium

Other materials available.

The double isolation shell consists of two metallic isolation shells placed one inside the other. A network of paths between the two isolation shells allows for an effective control via a pressure switch. Any damage to either the interior or exterior isolation shell will cause the pump to shutdown before any leakage would occur. The design of both isolation shells is made consistent with the design pressure, thus enhancing safety.

Also available in model SLM-AVO-TD.



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