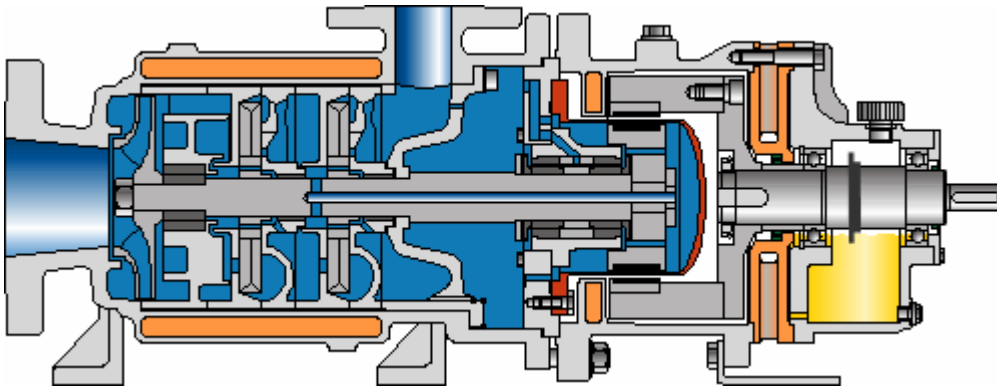


SLM-SVO
SealLess Magnet-drive

**Sealless Self-Priming
Side Channel Pump**



Shown with optional jacketed case and jacketed bearing lantern.

General Description

Klaus Union's SLM-SVO is a sealless side channel pump with permanent magnetic coupling. As a member of the family of regenerative turbine pumps, this side channel design consists of a first centrifugal stage and multiple (1 to 8) radial vane impeller stages. The self-priming design and the low required NPSH value of up to 1.5 feet make this pump ideal for loading and unloading applications.

Operating Parameters

- ▷ Flow rates up to 185 GPM
- ▷ Total delivery heads up to 1,400 feet
- ▷ Temperature ratings from -40 °F (-40 °C) to +482 °F (+250 °C)
- ▷ Pressure rating up to 580 PSIG
- ▷ Flange rating per ANSI B16.5 Class 150 and Class 300

Pumping

- ▷ Aggressive, explosive and toxic liquids
- ▷ Liquid gases
- ▷ Solvents
- ▷ Hydrocarbons
- ▷ Acids & lyes
- ▷ Refrigerants
- ▷ Difficult-to-seal liquids
- ▷ Ultrapure liquids

Applications

- ▷ Chemical and petrochemical industries
- ▷ Refineries
- ▷ Refrigeration and heat engineering
- ▷ Liquid gas plants
- ▷ Galvanic engineering
- ▷ Tank installations
- ▷ Pharmaceutical industries
- ▷ Loading and unloading

Construction

- ▷ Horizontal multi-stage side channel pump, self priming low NPSH design
- ▷ Separation of liquid chamber/atmosphere by means of an isolation shell
- ▷ Permanent magnet drive system, no mechanical seal
- ▷ Synchronous drive transmitted by inner and outer magnet systems
- ▷ Liquid lubricated internal bearings made of silicon carbide and carbon
- ▷ Bearings of outer magnet carrier: deep groove ball bearings

Standard Materials of Construction

Pump casing:	316 SS
Impeller:	316 SS
Isolation shell:	316 SS/Hastelloy C4
Inner magnet carrier:	316 SS/Hastelloy C4
Internal bearings:	Silicon carbide, alpha grade, carbon
Bearing frame:	Cast steel/nodular cast iron
Magnets:	Rare earth samarium cobalt

Other materials available

Optional Features

- ▷ PM25 - Power monitor
- ▷ TPS - Isolation shell temperature probe
- ▷ CDS - Double-wall isolation shell (dual containment)
- ▷ External flush connection
- ▷ Isolation shell materials: Titanium, non-metallic (carbon fiber/PTFE)

Specifications are subject to change. Materials listed are equivalent to DIN/ISO standards.

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