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API 685 Sealless Magnetic Drive Pumps

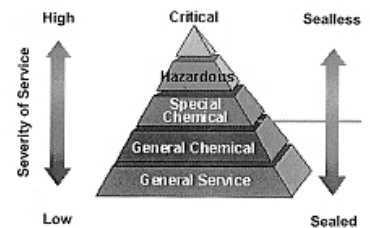
First Introduced in 2000 the API 685 standard describes requirements for sealless centrifugal pumps for petroleum, heavy-duty chemical, and gas industry services.

API recommends the use of API 685 for sealless services with the following factors:

- ▶ Discharge pressure greater than 275 psig
- ▶ Suction pressure greater than 75 psig
- ▶ Pumping temperatures greater than 300 °F
- ▶ Rotative speeds greater than 3600 rpm
- ▶ Rated total head greater than 400 ft
- ▶ Maximum impeller diameter greater than 13 inches

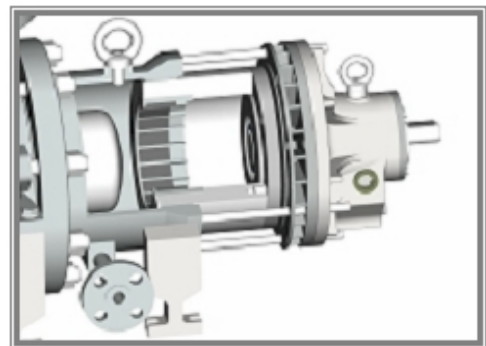


Technology Pyramid

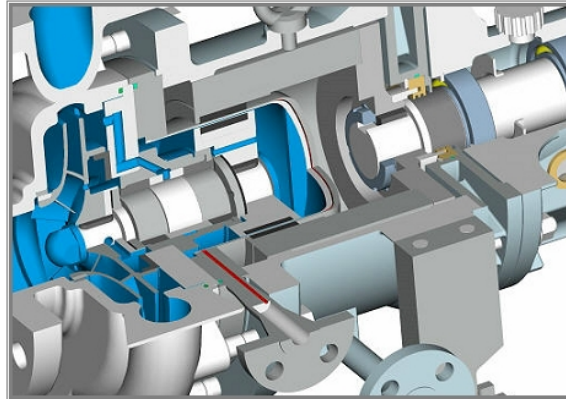


Klaus Union's sealless magnetic drive pump series SLM AVP & NVP meet API 685 requirements to provide reliable and safe performance for heavy-duty applications.

Where leakage cannot be tolerated Klaus Union's sealless mag drive pumps provide a safe and cost effective solution to avoid expensive double mechanical seal arrangements and reduce maintenance cost to a minimum.



Some of API 685 Required Features:



Secondary Containment System (3.64)

Klaus Union's double containment isolation shell design with monitoring device provides real dual containment and gives you "Peace of Mind" – even in extremely critical applications.

Design for boiling liquids (6.1.6)

The arrangement of the internal flow path to lubricate and cool the journal bearings always maintains sufficient pressure margin above vapor pressure to safely handle liquids at or close to their boiling point.

Gasket design (6.3.5)

Confined controlled compression gasket design.

Center-line supported casing and drive frame (6.3.8)

Pressure ratings (6.3)

Pressure containing components Class 300 (PN50)

All internal cavities drainable (6.1.8)

All internal cavities self-venting (6.1.7)

Renewable wear rings on casing and impeller (6.7.1)

Sealless Application Coverage:

Klaus Union provides a wide variety of sealless magnetic hydraulics to cover flow rates up to 15,000 gpm, delivery heads of up to 3,000 ft TDH, system pressure up to 5,800 psi and temperature up to 840 °F.

Available materials of construction include 316 SS, Alloy 20, Hastelloy C & B, Titanium and Zirconium.

