Production range pumps:
Pumps with magnet drive

- Centrifugal pumps according to DIN EN 22858
- Centrifugal pumps according to ANSI B73.3
- Centrifugal pumps for refinery and petrochemical applications according to API 685
- Centrifugal pumps for high pressure applications
- Centrifugal pumps for high temperature applications
- Centrifugal pumps for liquid containing solids
- Centrifugal pumps, self-priming
- Multistage pumps, tension-rod or barrel-type construction
- Side channel pumps, self-priming
- Screw pumps
- Submerged centrifugal pumps
- Double suction centrifugal pumps

Production range pumps:
Pumps with shaft sealing

- Centrifugal pumps according to DIN EN 22858
- Multistage pumps, tension-rod or barrel-type construction
- Horizontal and vertical propeller pumps
- Bottom-flange propeller pumps
- Submerged centrifugal pumps
- Double-suction chemical pumps

Production range agitators:

- Agitator drives with magnet drive

Production range valves:

- Valves, T-pattern
- Valves, Y-pattern
- Gate valves, isomorphous construction series
- Gate valves, wedge or wedge plates
- Relief valves
- Check valves
- Sight glasses
- Strainers
- Filters
- Bottom valves

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MULTISTAGE CENTRIFUGAL PUMP TYPE SLM GV
SEALLESS WITH MAGNET DRIVE
Sealless multistage centrifugal construction series SLM GV

As a member of Klaus Union’s successful modular pump concept, the SLM GV further extends our sealless application coverage. The SLM GV pump is primarily used for applications requiring high delivery heads.

Requirements have increased, become more complex, and more specific in recent years, particularly in the chemical and petrochemical industry, where pumps handle aggressive, toxic, and explosive liquids under highest safety requirements. Klaus Union’s new SLM GV pump series addresses today’s industry requirements – and offers new efficient and demand-driven solutions.

Klaus Union satisfies these requirements with over fifty years of experience in development, construction, manufacturing, and in the application of magnet drive pumps.

SLM GV – “V” stands for “variable” through modular design. Features and benefits of the modular “V-Concept” are:

- Few individual components – multi-functional, individual application
- Greater safety over the entire construction range
- Suitable for serial fabrication at competitive prices
- Standard modules offer many design variations
- Energy efficient systems
- Maximum flexibility and interchangeability
- Off-the-shelf availability of parts, components and accessories

The construction series SLM GV covers the complete performance range of multistage centrifugal pumps. Pumps for high system pressure applications are also available upon request.

Quality assurance

A major component of our Company ethos is to ensure the highest quality of our products. Existing quality assurance procedures with our suppliers are constantly monitored from order placement, goods inward through to final assembly. This quality assurance system, developed on modern principles, complies with the requirements of international regulations. Klaus Union is a DIN EN ISO 9001:2000 certified Company and is certified accordingly.

Performance range

Flow rate: \( Q \) = up to 350 m³/h
Delivery head: \( H \) = up to 700 m L.C.
Higher flow rates and delivery heads upon request

Pressure ratings/temperature ranges

Standard construction: PN 40 / PN 63 at 120 °C
Temperature range: -120 °C up to +450 °C
Higher pressure ratings upon request
Constructional details SLM GVOT
Barrel-type construction

1. Barrel-type pump casing
   PN 40 / PN 63 at 120 °C;
   Suction nozzle with horizontal inlet
   Optionally with heating jacket

2. Flushing system
   Pressurised to safely handle liquids close to boiling

3. Radial journal bearing
   Radial journal bearing behind the suction impeller

4. Impellers
   Arranged in series;
   First stage with suction impeller
   Optionally with suction inducer to reduce required NSPH

5. Balancing holes
   Optimized thrust loads over the entire operating range via hydraulic measures

6. Outer magnet carrier
   Two piece with rub ring on the intermediate lantern

7. Isolation shell
   Self-venting and fully drainable; Vortex breaker

8. Journal bearings
   Double bearing made of SSIC;
   Counter centred combination for universal utilization over a wide temperature range

9. Bearing support
   Oil-lubricated anti-friction bearings:
   SLM GVOT design
   Optionally with grease-lubricated anti-friction bearings: SLM GVST design

10. Inner magnet carrier
    With rub ring on the journal bearing bush

11. Intermediate lantern
    With outer magnet carrier rub ring and assembly/disassembly guidance

12. Static gasket
    Merely two static gaskets on isolation shell and casing