

Sealless Magnetic Drive Pumps

World-leading pumps for every process

HMD Kontro



Sundyne HMD Kontro Sealless Pumps serve virtually every conceivable industrial process. They offer outstanding value and performance both for general use and for handling hazardous or environmentally threatening liquids.



Sundyne HMD Kontro sealless pumps are designed to comply with the requirements of API 685, ASME B73.3 and ISO 15783 specifications for sealless magnetic drive, centrifugal pumps. With increasing demands for the safety and welfare of personnel, plus the environment, Sundyne HMD Kontro sealless pumps are playing an ever greater part in maintaining these goals. Improved magnet drive technology has enabled more efficient and powerful pumps to be built, including high pressure units, thus increasing the application scope for this technology.



Technical overview

Sundyne HMD Kontro offers a range of synchronous or torque ring magnet drive pumps rated to match motor performance. The range is based on sizes corresponding to the pump frames and performance required.

Synchronous drive pumps are extremely efficient for all tasks up to a temperature of 260°C, 500°F. Torque ring magnet drive pumps are ideally suited for high temperature use. Sundyne HMD Kontro torque ring pumps can operate uncooled at temperatures up to 450°C, 850°F. The design has an inherent soft start capability to cope with viscous liquids.

Pumps maintain dimensional interchangeability within their respective specifications. Units are available in close coupled or separately mounted configuration.

All liquid ends are interchangeable within the frame size, as are drive components. This enables an optimum match of hydraulic and magnetic performance.

All pumps are robustly designed and constructed to give maximum security and peace of mind. Each pump has features to ensure the pumps can be easily maintained and serviced on site.

Operational benefits

- Low capital cost
- Low running costs
- Safe, leak-free operation
- Ease of application
- Minimal spares holding
- Minimal downtime/fast maintenance
- Maximum on-line process time

Key Design Features

- **Sealless design for total containment**
Essential for hydrocarbon, petrochemical, toxic, aggressive, hot, crystallising or valuable product
- **Interchangeability of components**
Maximum interchangeability exists between spare parts for the entire pump range
- **High efficiency wet end**
Benefit maximum flow/head coverage
- **High efficiency magnetic couplings**
Benefit of high efficiency magnetic couplings
- **Wide choice of materials**
Benefit of various metallic materials of construction
- **Single joint casing/containment shroud/shell***
Benefit of single joint design (*not GSP3, ZeroLoss™ options)
- **Casing gasket fully confined**
Eliminates risk of blowout
- **Universal connection options**
Suction and discharge flange connections can be configured to your exact requirement
- **Modular rotating element cartridge**
Provides the most efficient way to perform replacements and manage your spare plant inventory
- **International pressure vessel standard**
All pressure vessels are manufactured to international codes



GSP range

The GSP comprises a range of pumps based on the GS drive, built to API 610/685 specification and suitable for heavy duty. The pump operates within a temperature range of -40°C to 350°C, -40°F to 660°F and system pressures up to 100 bar.

GSPV range

A vertically mounted range requiring minimum floor space, ideal for where space is limited. Dimensionally conforming to BS4082, with nine hydraulics and an operating envelope up to 40 bar / 580 psi, the GSPV is suitable for many applications. Low flow version available (LMV-801S).

GSPLF range

This low flow pump utilises Sundyne Barske Wheel hydraulics to optimise reliability and efficiency. Easily upgraded and explosive atmosphere compliant, the GSPLF is ideal for heavy duty application in oil and gas, chemical and petrochemical installations. Vertical option available (LMV-801S).

GSPX range

The GSPX is a multi-stage derivative of the GSP range. Available with 2 or 3 stages and two diffuser based hydraulic options, it produces higher differential pressures than our single stage sealless models.

GSPVS range

Designed specifically for use as a fuel transfer pump; this vertical suspended pump provides all of the benefits of a magnetic drive sealless pump in a compact package, using fewer parts with no seal systems for reduced cost operation.

HPGSP range

Capable of handling system pressures up to 185 bar, HPGSP pumps are exceptionally versatile yet safe and secure. The separate mounted design is available in eleven hydraulic sizes and two basic frame sizes to suit power requirements.

GSA/GSI range

The GS is a versatile range of general service pumps designed to cover a wide duty and application base whilst maximising interchangeability of components. Within the range is the GSA (ASME standard) and the GSI (ISO DIN standard). A GSL option exists for temperatures to -100°C, -150°F.

GT range

For general transfer duties with capacities up to 26m³/hr, 115 USgpm and heads up to 38m, 125ft (at 50Hz). The GT has been specifically designed as a compact, cost-effective and minimum maintenance pump.

SP range

A range of self priming pumps primarily designed for tank/tanker off-loading duties. With the elimination of the ingress of air into the suction line, a faster priming operation is ensured.

HP range

A range of high pressure pumps capable of system pressures up to 185 bar, 2680 psi. Available in close coupled or separate mounted configurations.

CS range

A range of magnet drive pumps particularly suited to pumping thermal oils, and other hot mediums using Sundyne HMD Kontro's torque ring design - solving traditional mechanical seal problems on high temperature applications up to 450°C, 850°F without cooling.



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World Leading 2.1 12/14 A4 Eng.