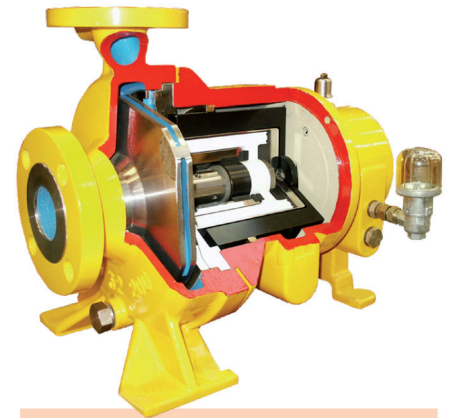


Sealless Magnetic Drive Pumps

Applications

Their exceptional versatility makes Sundyne HMD Kontro sealless pumps suitable for virtually every conceivable industrial process. 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. They offer outstanding value and performance for both general use and for handling hazardous or environmentally threatening liquids.

HMD Kontro



Chemicals **GSP, GSPV, GSPVS, HPGSP, GSPLF, GT, GS, CS, SP**

The pumping of chemicals has always been a major application for the Sundyne HMD Kontro sealless pump. Particularly suited to the toxic, aggressive and carcinogenic liquids, the Sundyne HMD Kontro sealless pump has consistently given exemplary service, providing safe and efficient transfer of the most dangerous substances. Designed to meet ASME and ISO standards, a selection of materials of construction and a range of magnetic couplings with which to drive the pumps, the Sundyne HMD Kontro sealless pump has to be the obvious choice when specifying pumping equipment for your chemical plant.



Pharmaceuticals **GSA/GSI, GT, SP, CS**

Pharmaceuticals form an important part in the health of the world's population. Sundyne HMD Kontro sealless pumps can help in the provision of safe and efficient leak-free pumps for those difficult liquids used in the production of health care products. Where total security is needed, either in the liquid itself or to the surrounding environment, the Sundyne HMD Kontro sealless pump with all its safety features, material and magnetic coupling options and low running costs will provide you with the perfect solution to your pumping needs.



Petrochemicals **GSP, GSPV, GSPLF, GSPX, GSPVS, HPGSP, SP, HP**

The Petrochemical market provides particular challenges in the movement of product, whether the liquid is a primary or an intermediate chemical. Sealless pumping provides a safe answer without the inherent checks and support systems that sealed pumps require. The Sundyne HMD Kontro sealless pump with its one joint, modular interchangeable wet end design and conforming to international design standards, provides a viable solution to your site pumping needs. For those particularly difficult situations Sundyne HMD Kontro Sealless Pumps can be fitted with secondary control devices and instrument protection to give total peace of mind.



Refineries **GSP, GSPV, GSPLF, GSPX, GSPVS, HPGSP, GS, SP, HP, CS**

Sundyne HMD Kontro sealless pumps have a range of pumps that conform to the API 685 specification. These pumps offer total containment which is ideal for the hazardous products found in the refinery industry. Modular and interchangeable high efficiency liquid ends offer maximum flow/head coverage across the whole range. With fully confined gasket design to eliminate 'blowout' risk, and no mechanical seals to leak, the Sundyne HMD Kontro sealless pump is the answer to those safety and environmental issues associated with refinery sites.



Utilities **GSP, GSA/GSI, GT, SP, HP, CS**

Many industries need pumps for the provision of additional services that enable processes to be performed quickly and efficiently. The provision of heat is one such application and the Sundyne HMD Kontro sealless pump is ideally suited to safely handle hot thermal oil to a temperature of 840°F (450°C) without the need for any cooling. Other typical services are very hot water, cold water and cleaning media, such as caustic soda for CIP systems. Whatever the services requirement is, you can be assured the Sundyne HMD Kontro sealless pump will provide an efficient and safe answer.



Benefits of sealless pumps

- Ease of application
- Low capital cost
- Safe, leak free operation
- Low running costs
- Minimal spares holding
- Fast maintenance
- Minimal downtime
- Maximizes on-line time

Magnetic Drives for liquids that are:

- Aggressive
- Toxic
- Corrosive
- Pure
- Carcinogenic
- Noxious
- Poisonous
- Contaminated
- Fire risk
- Explosive
- Hot
- Cold
- High pressure
- Pyrogenic
- Cryogenic
- Acid
- Valuable

Applications

Acids

Acetic Acid
Acrylic Acid
Arsenic Acid
Benzoic Acid
Boric Acid
Carbolic Acid
Carbonic Acid
Chlorosilicic Acid
Citric Acid
Cresylic Acid
Fatty Acids
Fluosilicic Acid
Formic Acid
Hydrobromic Acid
Hydrochloric Acid
Hydrocyanic Acid
Hydrofluoric Acid
Lactic Acid
Maleic Acid
Nitric Acid
Oxalic Acid
Phosphoric Acid
Phthalic Acid
Picric Acid
Sulphuric Acid
Sulphurous Acid
Tannic Acid
Tartaric Acid

Alcohol & glycols

Butanol
Diethyl Glycol
Ethanol
Glycol
Isopropyl
Alcohol
Methanol
Propanol
Propylene Glycol

Alkalis

Ammonium Hydroxide
Ferric Hydroxide
Potassium Hydroxide

Halogenides

Anhydrous Chlorine
Carbon Tetrachloride
Fluorocarbon Liquids
Freon
Hydrogen Chloride
Methyl Chloride
Methylene Chloride
Phosgene
Silicon Tetrachloride
Titanium Tetrachloride

Heat transfer fluids

Alkylated Aromatics
Diphenyl / diphenyl oxide
Eutectic Salts
Hydrocarbon Oil
Isometric Triaryldimethanes
Polyalkylene Glycol
Silicone Oils

Hydrocarbons

Acrylic Monomers
Acrylonitrile
Amyl Acetate
Benzene
Butadiene
Butane
Chloroform
Chloroprene
Cyclohexane
Dichlorobenzene
Ethylene
Furfural
Hexane
Kerosene
LPG
MDA
MDI
Methylene Dichloride
Methyl Naphthalene
Naphtha
Naphthalene
Pentane
Phenol
Phthalic Anhydride
Polychlorinated Biphenyls
Pyridine
Pyrogallic Acid
Styrene
TDA
TDI
Toluene
Trichloroethylene
Vinyl Acetate
Vinyl Chloride
Vinyl Chloride Monomer
Various Chlorinated
Hydrocarbons
Xylene

Nitrogen & Sulphur compounds

Anhydrous Ammonia
Aniline
Carbon Disulphide
Hydrarine
Sulphur Dioxide

Salts

Aluminium Nitrate
Phosphate
Ammonium Chloride
Ammonium Sulphate
Barium Chloride
Barium Chlorate
Calcium Chloride
Copper Nitrate
Copper Sulphate
Ferrous Sulphate
Phosphorus Trichloride
Phosphorus Oxychloride
Potassium Chlorate
Sodium Carbonate
Sodium Chlorate
Sodium Cyanide
Sodium Nitrate
Sodium Sulphate
Zinc Chloride

Other chemicals

Acetaldehyde
Acetic Anhydride
Acetone
Acrolein
Arcton (Refrigerant)
Detergents
Ethylene Oxide
Ethyl Ether
Formaldehyde
Freon
Hydrogen Peroxide
Lead Acetate
Mercuric Chloride
Methacrylates
Methyl Monoglycerides
Propylene Oxide
Sorbitol
Sugar Solutions
Syrup
Tallow
Tetraethyl Lead
Tritely Lead
Vegetable Oils
Water, Boiler
Water, Demonized
Water, Demineralized
Water, Heavy

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Sundyne HMD Kontro
Applications 1.0 1/15 Letter

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.