

## 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.



#### 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.

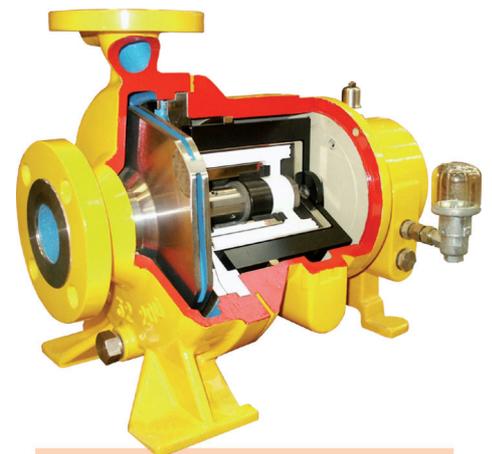


#### Utilities **GSP, GSA/GSI, GT, SP, HP, CS**

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 450°C (840°F) 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.



### HMD Kontro



#### Benefits of sealless pumps

- Ease of application
- Low capital cost
- Safe, leak free operation
- Low running costs
- Minimal spares holding
- Fast maintenance
- Minimal downtime
- Maximises 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  
 Pyrogalllic 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 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.

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