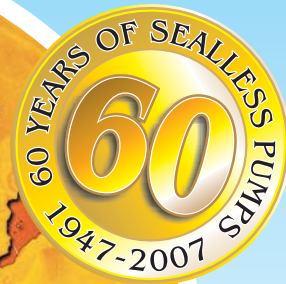


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Pump It with HMD Kontro



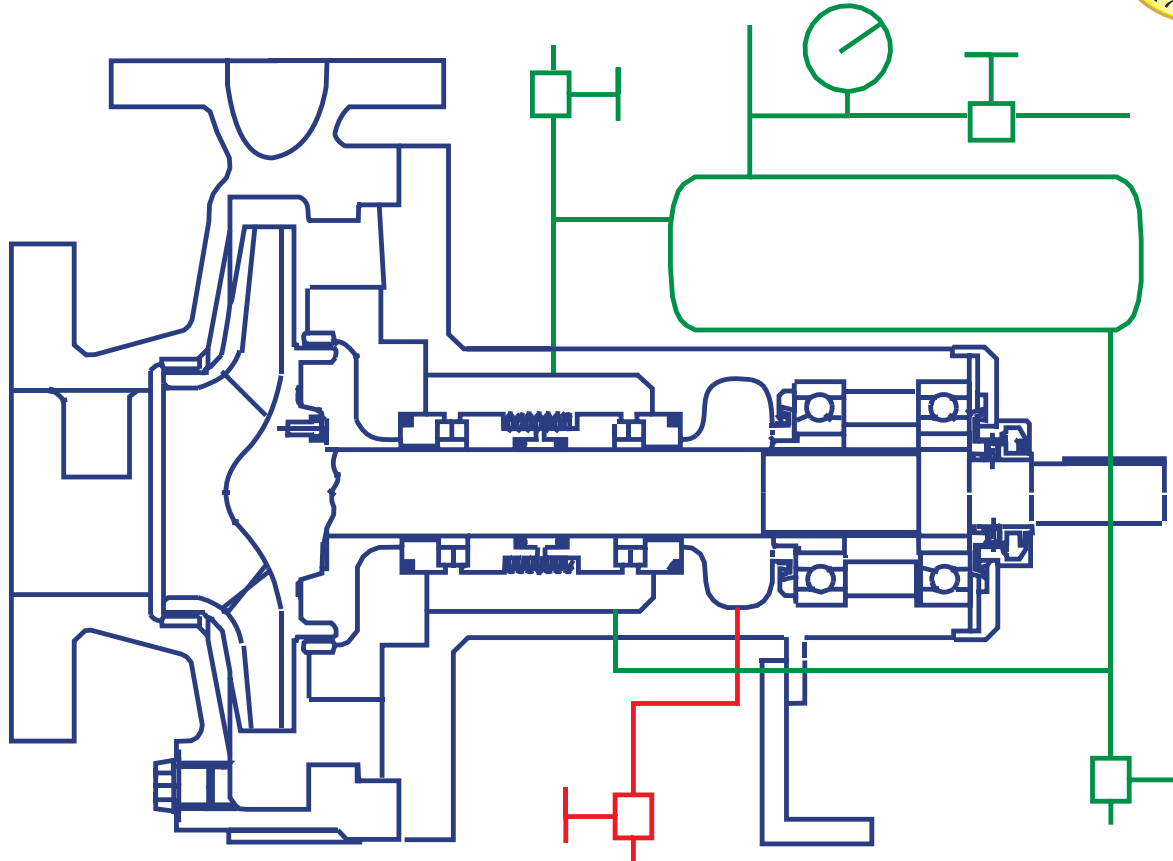
Sundyne
CORPORATION

HMD Kontro

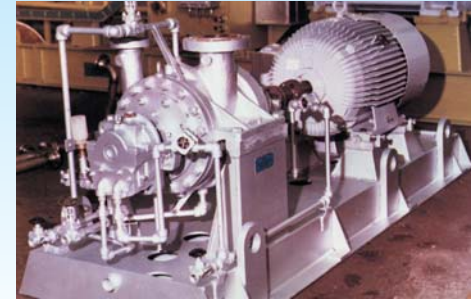
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Eastbourne, East Sussex, BN22 9AN, UK

Tel: +44 (0)1323 452000 Fax: +44 (0)1323 503369
Email: info@hmdkontro.com Web: www.hmdkontro.com



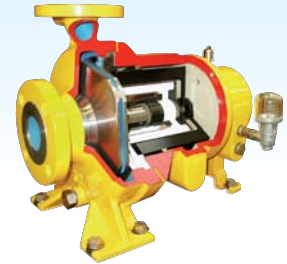
Typical Double Mechanical Seal Pump with support system





Typical Sealless Pump

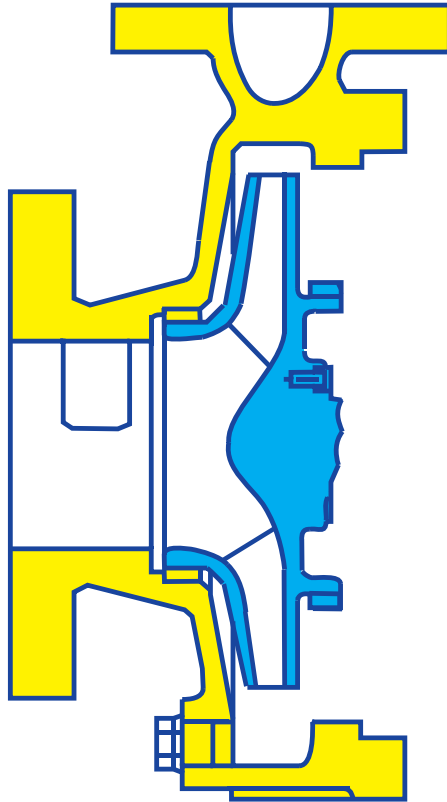
- No Seals or Seal Systems
- Safety & Security
- Efficiency & Reliability
- Removable Cartridge
- Robust magnetic couplings
- Interchangeability of components
- Lifetime Cost-Effectiveness
- Experience & Expertise



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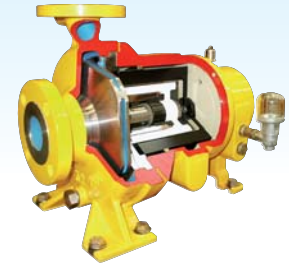


Casing and Impeller (ANSI & ISO)



Typical Sealless Pump

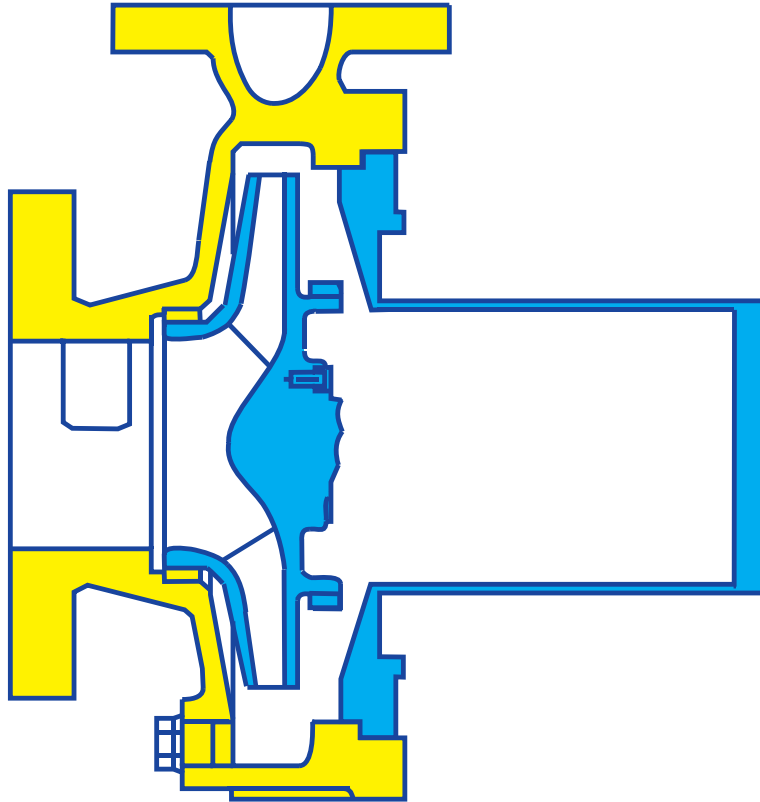
- No Seals or Seal Systems
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Containment Shell (Shroud)



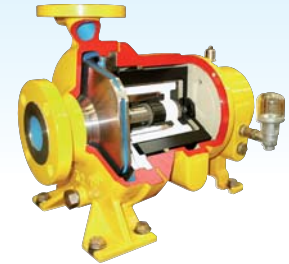
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Typical Sealless Pump

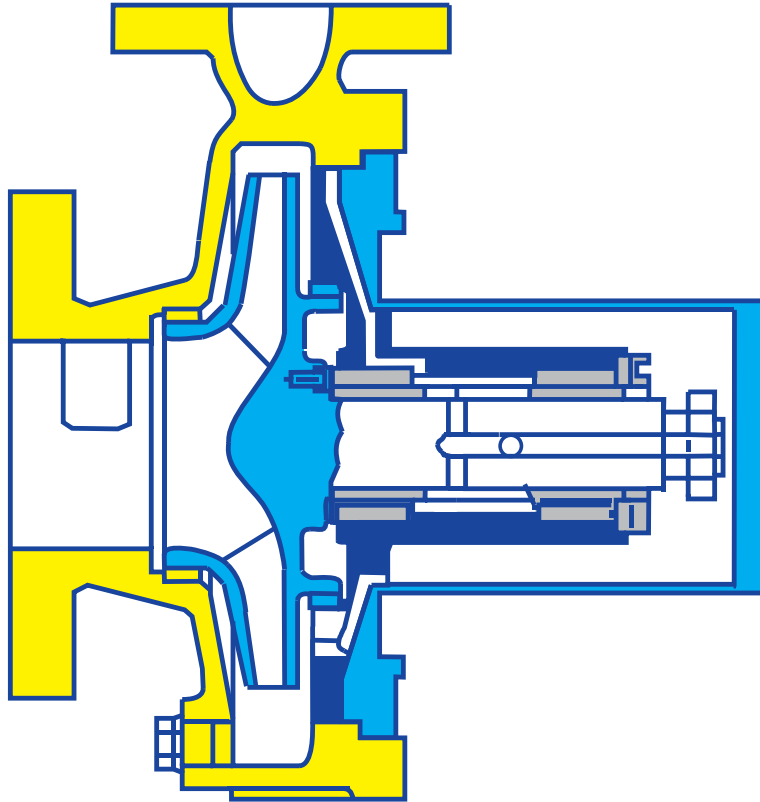
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*Pump Shaft / Support Bushes /
Bush Holder*



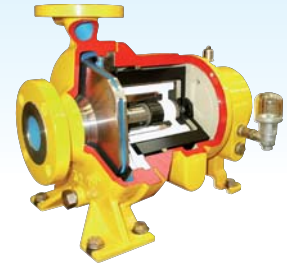
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Typical Sealless Pump

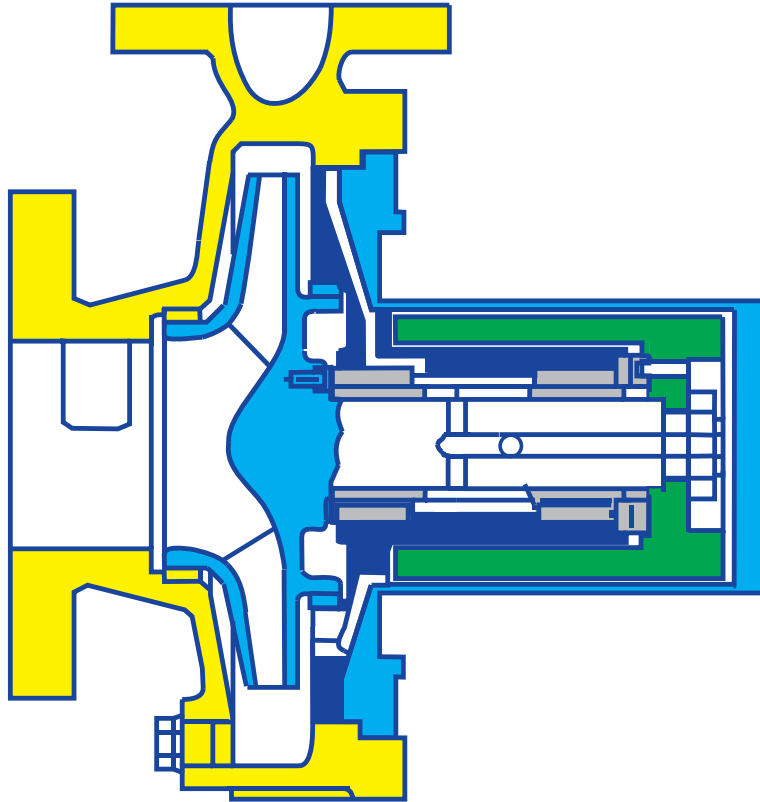
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Inner Magnet Ring



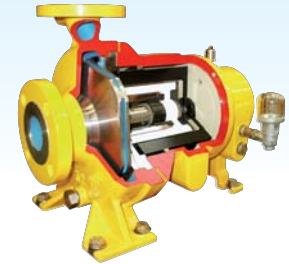
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Typical Sealless Pump

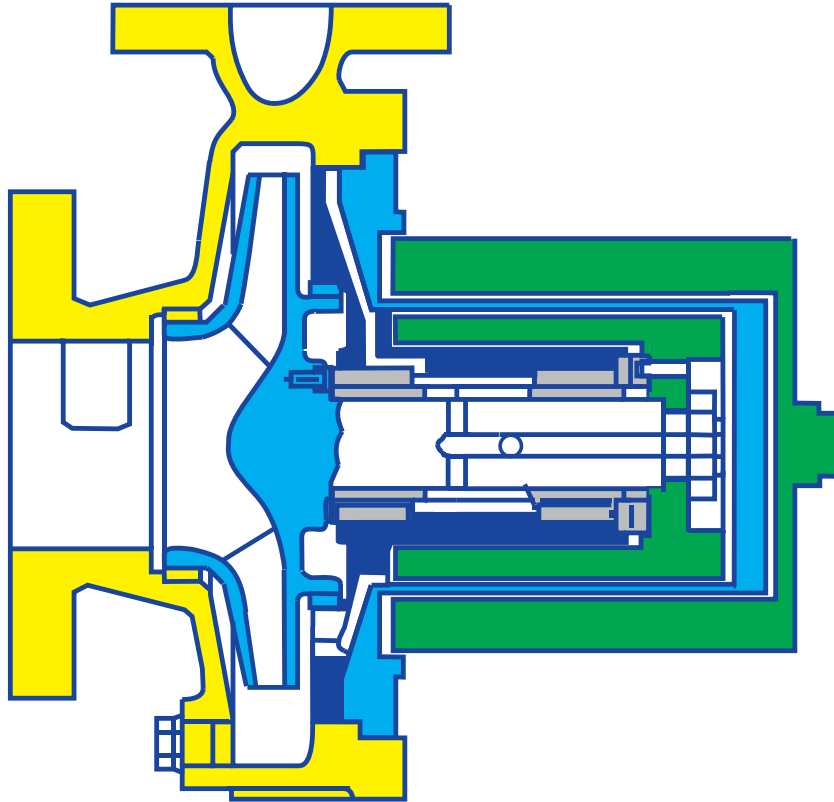
- No Seals or Seal Systems
- Safety & Security
- Efficiency & Reliability
- Removable Cartridge
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Outer Magnet Ring



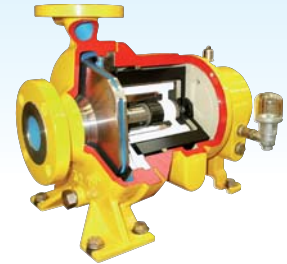
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Typical Sealless Pump

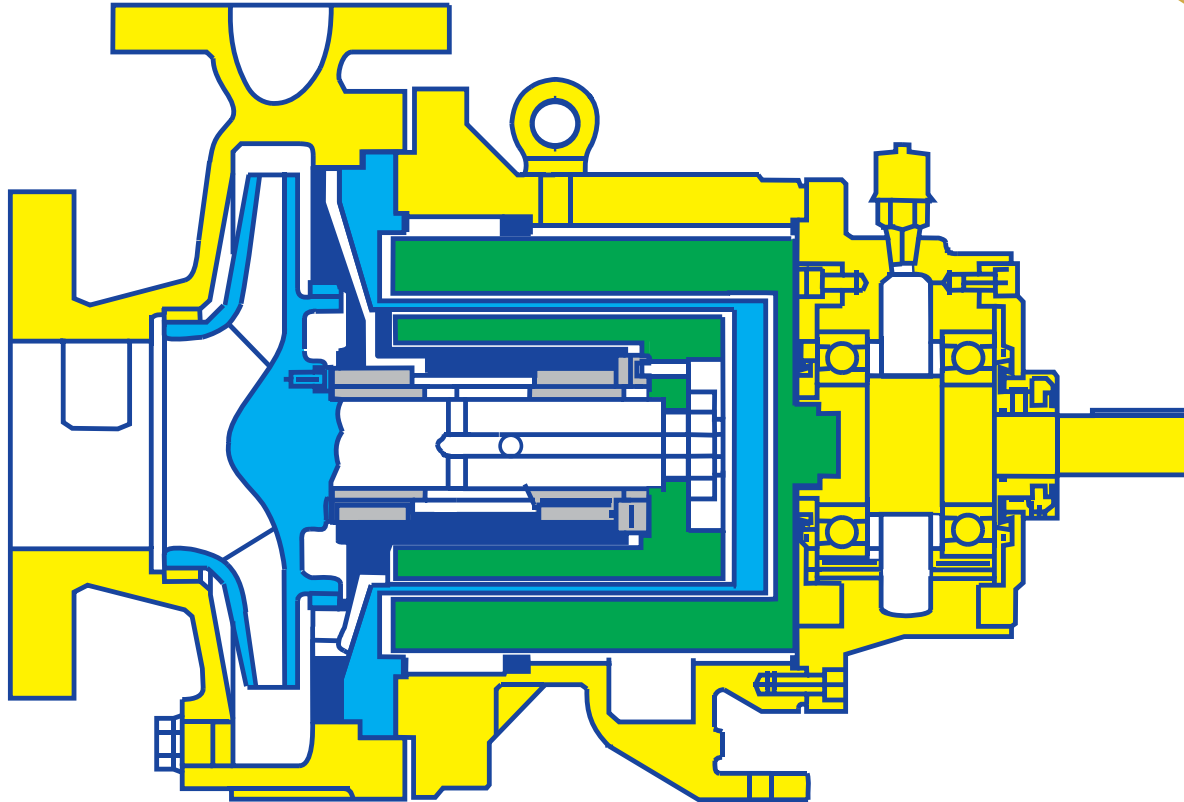
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Coupling Housing and Power Frame



Key Design Features

- **No Seals or Seal Systems:**
Less maintenance and lower installation costs.
- **Safety & Security:**
By eliminating the seal safety hazards are eliminated.
- **Efficiency:**
Sealless pumps help achieve zero-wastage, through leaks and hence reduce costs.
- **Reliability:**
Many of our pumps have been fully operational for more than thirty years.
- **Sealless design:**
For total, continuous containment of your product and zero emissions.
- **Removable Cartridge:**
For minimum downtime.
- **Robust magnetic couplings:**
Designed and optimised for specific duty parameters
- **Interchangeability of components:**
For reduced stock holding, operator training etc.
- **Lifetime Cost-Effectiveness:**
You will make significant savings by choosing HMD Kontro.
- **Experience & Expertise:**
Over 100,000 pumps installed worldwide over a sixty-year period.

The Solution is Sealless

If you need to pump product that is hot, cold, valuable, hazardous, aggressive and/or you want complete peace of mind, then an HMD Kontro sealless pump is the solution.

No seals mean no leaks, less maintenance, reduced downtime and substantial cost savings.



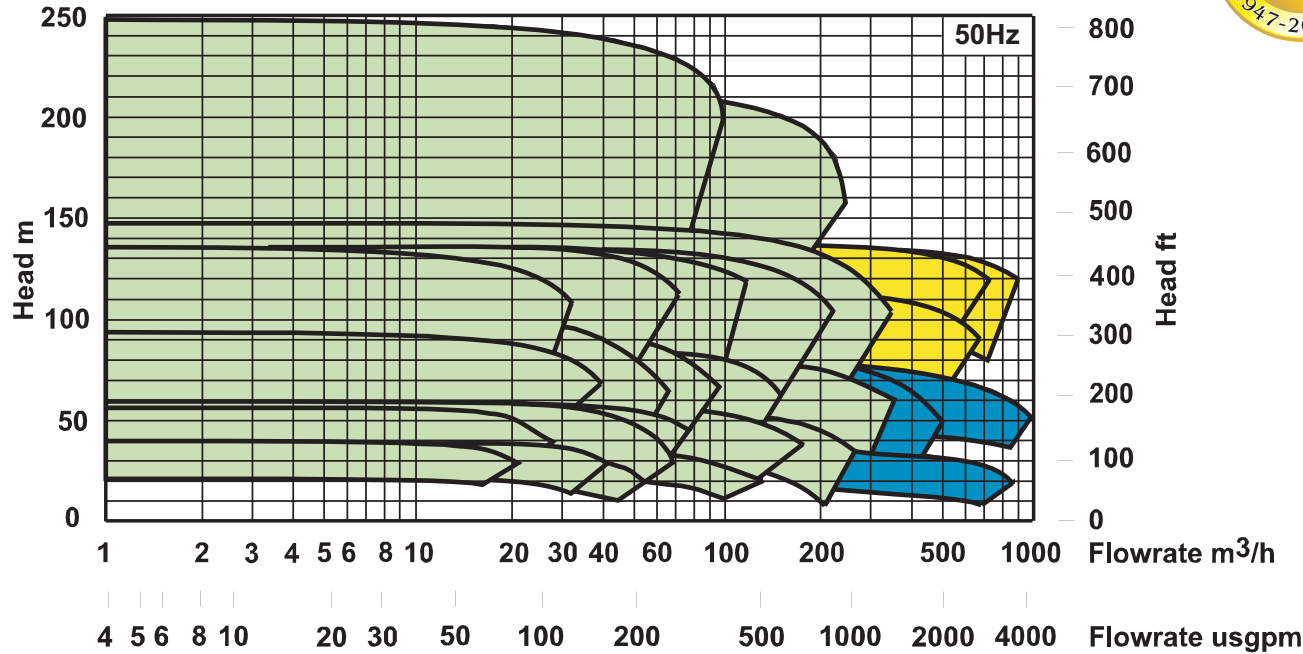
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Options

- Close Coupled - Flange Mounted on Sub-Base Design
- Separate Mounted - Foot Mounted on Baseplate Design
- Solids Handling - Various filtration options available
- Secondary Containment - Via Gas Seal
- Casing Heating Jackets
- Coupling Housing Heating Jackets
- Secondary Control - Via, Magnetic Seal / Flanged Drain Valve

Pump Parameters

- Temperature - Down to -100°C
- Up to 450°C / 840°F Torque Ring Design
- Up to 315°C / 600°F Synchronous Design
- Flow - 1500m³ / hour 6600 USGPM
- Heads - 350m / 1140' differential
- High Operating Parameters
- Viscosity - Maximum 200cps
- Power - 315kW 50hz / 400kW 60hz
- Pressure Up to 250Bar / 2600 PSI
- Full compliance with API685/API610



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