

PUMP & FILTRATION SYSTEMS >

cinox[®] therminox[®]

Corrosion-resistant gear pumps for chemical processes



cinox[®] and therminox[®] gear pumps are corrosion resistant and heatable stainless steel conveying units that satisfy the stringent quality requirements of today's chemical processing industry. Whether the applications involve highly pure, corrosive, viscous or very hot media, MAAG pump systems hold the solution to meet every pumping challenge. cinox[®] and therminox[®] are especially suitable for medium-high flow rates.

Your benefits

- Wide viscosity, temperature and pressure range
- High efficiencies due to tolerances being modified in line with applications
- Precise displacement volume
- Self-priming
- Corrosion-resistance
- Reliability and longevity
- Safety

cinox[®] therminox[®] 22-180 flow rate @ 0 bar ΔP



Application limits

| representation million | | |
|---------------------------|-----------------------|--|
| Viscosity: | 0.3 to 4,000,000 mPas | |
| Temperature: | -30 to 320 °C | |
| Suction pressure: | Vacuum up to 65 bar | |
| Discharge pressure: | Vacuum up to 200 bar | |
| Flow rate ¹⁾ : | 0.1 to 2,400 l/min | |

| Technical specifications: | | |
|---------------------------|--|--|
| Housing: | Stainless steelHastelloy | |
| Gear shafts: | Stainless steel Ferralium Hastelloy Ceramic SSIC Technopolymer (upon request) | |
| Bearing ²⁾ : | Synthetic carbon Stainless steel with carbon inserts Ceramic SSiC, ZrO₂ Tegodyn NiAg Bronze CuAl Hardened tool steel | |
| Shaft seal: | Single or double mechanical seal Single or double mechanical balanced seal Lip seal and packing seal Sealing ring in a wide range of materials Sealing medium or heating medium connections available Magnetic coupling with single or double containment shell | |
| Connections: | SAE, CETOP, DIN and ANSI flanges | |
| Heating: | Electrical heating by cartridges optional for cinox [®] Integrated channels for heating/cooling by steam or liquids for therminox [®] | |

A range of typical pumping media

| Organic and | Cellulose derivati- |
|---------------------|---|
| inorganic chemicals | ves and pulps |
| Solvents | Waxes and |
| Acids and alkalis | paraffins |
| Emulsions | Cosmetic products |
| Sludges and | Pharmaceutical |
| condensates | products |
| Prepolymers, | Food extracts and |
| oligomers, and | flavourings |
| monomers (PAN) | Gum base |

- Additives
- Resins

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Silicones

Accessories

Stands, motor flanges and base plates

Vegetable/animal

oils and fats

Molten Sulfur

- Product flange connections
- Couplings
- Motors and gear reducers
- Frequency converters
- Shaft seal systems (with buffer tanks)

Certificates³⁾

- ATEX certificate
- 3.1 certificate
- German Air Quality certificate (TA-Luft)
- Performance test certificates

Options

- Heated seals
- Bi-directional operation
- Special modifications for demanding applications

¹⁾ Higher flow rates upon request.

- ²⁾ Other materials and designs available.
- ³⁾ Other certificates and conformities upon request.





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