

cinox® therminox®



A range of typical pumping media:

- Organic and inorganic chemicals
- Solvents
- Acids and alkalis
- Emulsions
- Sludges and condensates
- Prepolymers, oligomers and monomers
- Additives
- Resins
- Cellulose derivatives and pulps
- Silicones
- Waxes and paraffins
- Cosmetic products
- Pharmaceutical products
- Foodstuff extracts and flavourings
- Animal feeds
- Vegetable and animal oils and fats

Highest resistance

Acids, alkalis, solvents and other aggressive substances in all conceivable forms are part of everyday life in the chemical processing industry. Precisely the environment in which Maag Pump Systems' tried and established gear pumps develop their full potential. cinox®/therminox® gear pumps are corrosion resistant and heatable stainless steel conveying units that satisfy the stringent quality requirements of today's chemical processing industry.

Thanks to the extensive range of components and materials of construction to choose from, Maag gear pumps can be configured to suit customers' specific requirements and are therefore far superior to standard pumps in terms of performance and reliability. Whether the applications involve highly pure, corrosive, viscous or very hot media, Maag Pump Systems holds the solution to meet every pumping challenge.

- Wide viscosity range
- Wide temperature range
- Wide pressure range
- High efficiencies due to tolerances being modified in line with applications
- Reliability
- Longevity
- Safety



Technical specifications:

Housing: • Stainless steel

Hastelloy

Gear shafts: • Stainless steel

FerraliumHastelloyCeramic

Bearing*: • Synthetic carbon

• Stainless steel with carbon inserts

• Hardened tool steel

Ceramic

NiAg

• Bronze - CuAl

Shaft seal:

• Single or double mechanical seal

• External mechanical seal

• Interlock or heater connections available

• Seal ring from a range of materials

 Magnetic coupling with single or double containment shell

Connections: SAE, CETOP, DIN and ANSI flanges

Application limits:

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

Accessories:

- Stands, motor flanges and base plates
- Product connecting flanges
- Couplings
- Motors and gear reducers
- Frequency converters
- Shaft seal systems

Options:

- Electrical heating
- Heated seals
- Bi-directional rotation
- · Special modifications for demanding applications

Certificates:

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

Theoretical pumping capacities:

Pump size	Theoretical pumping capacities in I/min at 0 bar ∆p					
	at 500 rpm	at 750 rpm	at 1,000 rpm	at 1,500 rpm	at 3,000 rpm	
22/6	0.64	0.96	1.28	1.92	3.84	
22/13	1.39	2.09	2.78	4.17	8.34	
22/22	2.35	3.53	4.70	7.05	14.10	
28/28	5.10	7.65	10.20	15.30	30.60	
36/36	12.80	19.20	25.60	38.40	76.80	
45/45	23.15	34.73	46.30	69.45	139.00	
56/56	46.30	69.45	92.60	138.90		
70/70	88.00	132.00	176.00	264.00		
90/90	186.00	278.00	371.00	557.00		
110/110	358.00	537.00	716.00			
140/140	671.00	1,007.00	1,342.00			
180/180	1,606.00	2,408.00				

The operating limits are dependant upon the service conditions. Please contact Maag Pump Systems for specific applications.

maag



systems

CORONA

Phone: +48 32 255 53 53 Fax: +48 32 720 20 88 e-mail:corona@corona.org.pl



Engineering & Commercial Office ul. Baildona 16/27 40-115 Katowice - PL

^{*} Other materials and designs available

^{**} Higher flow rates upon request