

cinox[®]-V therminox[®]-V



A range of typical pumping media:

- Prepolymers, oligomers and monomers
- Polyurethanes
- Dopes
- Spandex
- Resins
- Adhesives
- Silicones
- Waxes and paraffins
- Emulsifying agents
- Vegetable and animal oils and fats

Low inlet pressure and high viscosities

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.

The pump models cinox[®]-V/therminox[®]-V are Discharge pumps. They have been designed for highly viscous fluids, which are gently extracted from reactors and de-gassing devices even when the inlet pressure is low, ensuring optimum fill characteristics and short dwell times. This new pump series combines the outstanding flow characteristics of the polymer pumps with the exacting requirements of the chemical 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.

- Optimum fill characteristics due to enlarged inlet and optimum inlet geometry
- Low pulsation
- High efficiencies thanks to application-specific clearances
- Reliability
- Longevity
- Safety

Technical specifications:

Housing:	• Stainless steel
Gear shafts:	• Stainless steel
Bearing:	• Hardened tool steel
Shaft seal:	• Double mechanical seal • Interlock or heater connections available • Seal ring from a range of materials • Packing gland throttled (optional spring loaded)
Connections:	flanges (others optional)
Enlarged inlet:	enlarged inlet geometry for low NPSH at high viscosities

Theoretical pumping capacities:

Pump size	Theoretical pumping capacities in l/min at 0 bar Δp				
	at 250 rpm	at 500 rpm	at 750 rpm	at 1,000 rpm	at 1,500 rpm
28/28	2.55	5.10	7.65	10.20	15.30
36/36	6.40	12.80	19.20	25.60	38.40
45/45	11.75	23.15	34.73	46.30	69.45
56/56	23.15	46.30	69.45	92.60	138.90
70/70	44.00	88.00	132.00	176.00	264.00

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

Application limits:

Viscosity:	0.3 to 4,000,000 mPas
Temperature:	-30 to 180 °C
Suction pressure:	Vacuum to 10 bar
Discharge pressure:	Vacuum to 100 bar
Flow rate*:	2.5 to 265 l/min

* Higher flow rates upon request

Accessories:

- Product connecting flanges
- Motors and gear reducers
- Universal shafts, hubs
- Frequency converters
- Sealing liquid system / stand pipe

Options:

- Electrical heating
- Heated seals

Certificates:

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

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