

cinox[®]-V therminox[®]-V

Stainless steel discharge pump for chemical processes



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 degassing 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.

Your benefits

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

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A range of typical pumping media

- Prepolymers, oligomers, and monomers
- Dopes
- Spandex
- Resins
- Adhesives
- Silicones
- Waxes and paraffins
- Emulsifying agents
- Gum base

Accessories

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

Options

- Electrical heating
- Heated product flanges

Certificates¹⁾

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

Application limits:

Viscosity: 0.3 to 4,000,000 mPas

Temperature: -30 to 320 °C

Suction pressure: Vacuum up to 16 bar

Discharge pressure: Vacuum up to 200 bar

Flow rate²⁾: 2.5 to 265 l/min

¹⁾ Other certificates and conformities upon request.

²⁾ Higher flow rates upon request.

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 (other optional) ANSI, DIN

Enlarged inlet: Enlarged inlet geometry for low NPSH at high viscosities

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 holds the solution to meet every pumping challenge.

Theoretical pumping capacities in l/min at 0 bar Δp :

Size	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 subject to the service conditions. Please contact us for specific applications.