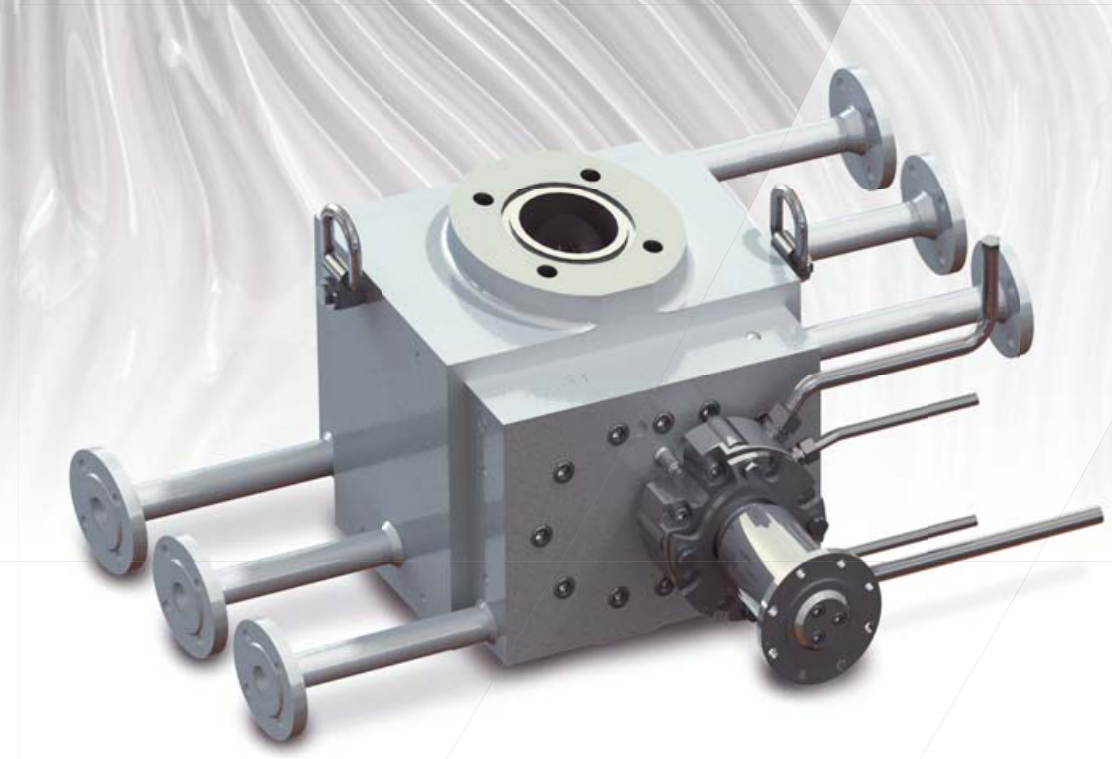
MAAG Group
a DOVER company

PUMP & FILTRATION SYSTEMS ›



thermorex® TRO/TRP

Transfer pump for oligomers and prepolymer

MAAG

Polymer processes require pumps which will constantly and reliably feed oligomers and prepolymers through the system. The pump design is highly suitable for low-viscosity applications. The thermorex® TRP and TRO eliminates the need for pressurized vessels/reactors. The high efficiency and long service life will enhance your production plant's capacity.

Your benefits

- Excellent fill behaviour due to optimized inlet geometries
- Optimized flow channels
- Completely heated
- High overall efficiency, minimized friction thanks to pioneering gear and bearing technology
- Low pulsation pumping even at high differential pressures
- Compact design

thermorex® TRO/TRP

Transfer pump for oligomers and prepolymer

Typical pumping media

- Cellulose acetate
- Elastomers
- Epoxy resin
- Phenolic resin
- Polyacrylicnitrile
- Polyamide
- Polycarbonate
- Polybutylene Teraphthalate
- Polyethylene Teraphthalate
- Polymethylmethacrylate
- Polypropylene
- Polystyrene (incl. ABS, EPS)
- Polysulphone
- Silicone
- SBR Latex
- And others

Technical specifications:	
Housing, cover:	Stainless steel
Gear shafts:	Nitrided steel/tool steel
Bearing:	Tool steel/special materials
Shaft seals:	■ Stuffing box for oligomer applications ■ vispac® ■ Single mechanical seal, heated ■ Double mechanical seal with barrier system ■ vislip® ■ Magnetic coupling
Pump heating:	Heated with oil: max. 350°C, at max. 15 bar with saturated or superheated steam: max. 40 bar
Installation:	The thermorex® TRO/TRP gear pump can be flanged directly as a transfer pump under the reactor or mounted in-line
Viscosity*:	TRO: to 5 Pas; TRP: to 60 Pas
Temperature:	To 350°C
Suction side:	Pumped media flow under vacuum or at an admission pressure to 10 bar
Delivery side:	Discharge pressure to 160 bar

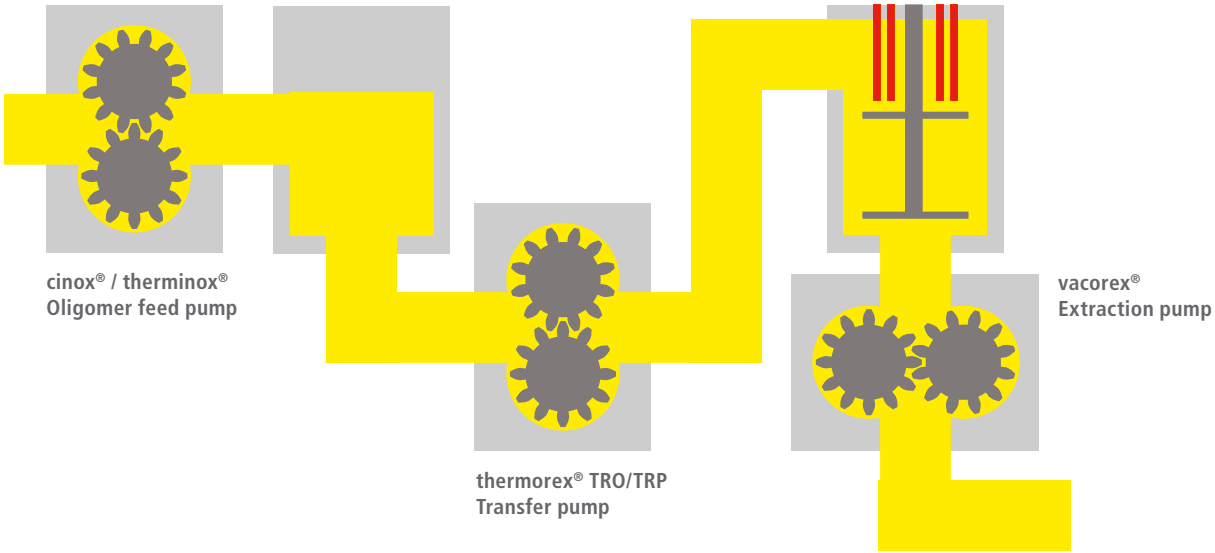
* Higher viscosities upon request.

** Larger pump sizes are available upon request. Flange connections in accordance with DIN or ANSI standards.

*** These data are reference values for polymer processes. Please contact us for your specific applications.

The maximum flow capacity and the maximum discharge pressure of the pump are dependant on the characteristics of the pumping medium to be pumped.

Pump size **	Spec. Volumen [cm³/rev]	Capacity*** [m³/day]
56	92	20-73
70	176	40-120
90	371	62-250
110	720	85-500
140	1,493	150-750
180	3,200	375-900



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