maag
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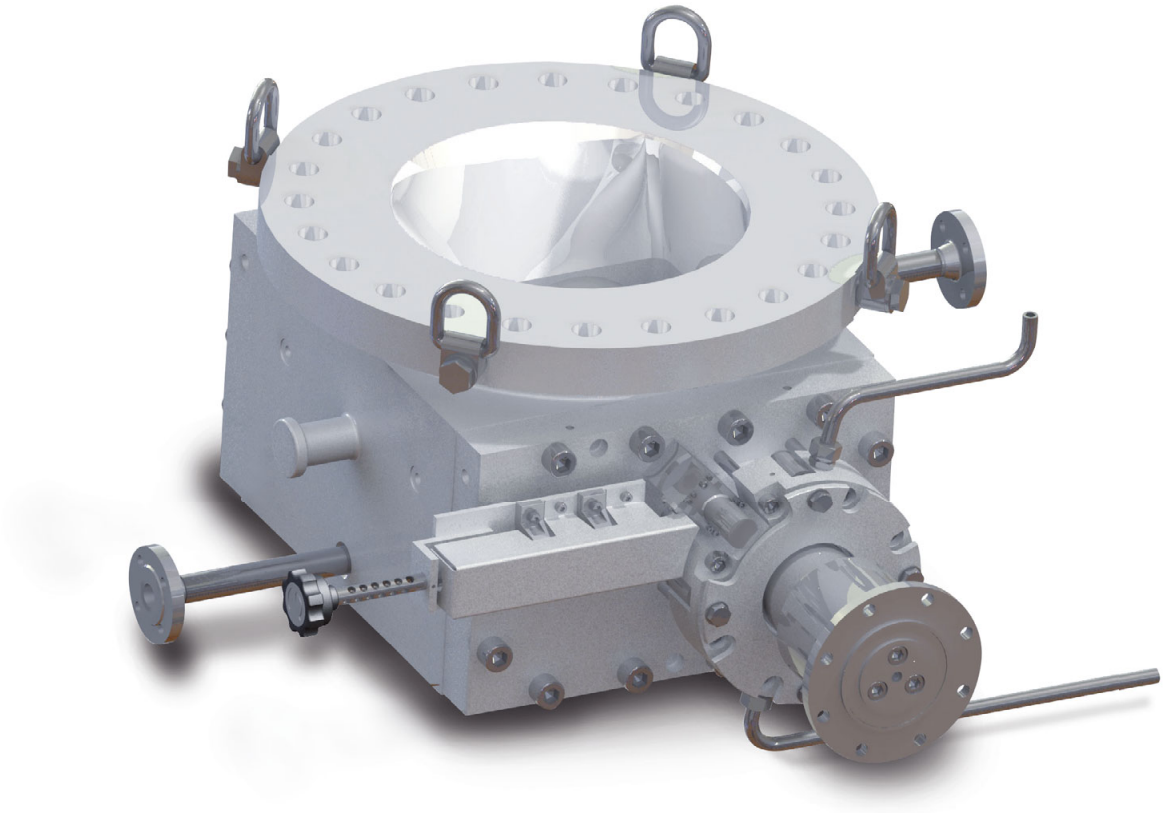
maag
pump
systems

viscorex®

Extraction pump for the polymer industry



Polymer processes require units that gently discharge low and high-viscosity plastic melts from reactors and degassing equipment. Thanks to excellent fill behaviour and short residence times, the maag pump systems viscorex® gear pump is the ideal solution for such applications. Its high efficiency and long service life will enhance the capacity and availability of your production line. viscorex® gear pumps efficiently convey plastic melts with a constant, precise flow.

Your benefits

- Excellent fill behaviour due to optimized inlet geometries
- Optimized flow channels
- Gentle treatment of polymer melts thanks to special gear teeth with low squeezing power
- High overall efficiency and hence minimized friction thanks to pioneering gear and bearing technology
- Low pulsation pumping even at high differential pressures
- Compact design

viscorex®

Extraction pump for the polymer industry

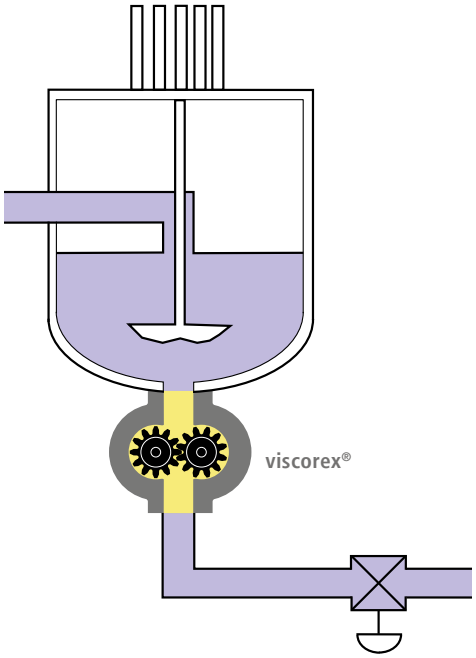
Typical pumping media

- 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:	Cast steel / corrosion resistant steel
Gear shafts:	Nitrided steel
Bearing:	Tool steel / special materials
Shaft seals:	■ Single mechanical seal, heated ■ Double mechanical seal ■ vislip® ■ vispac® ■ viscoseal
Pump heating:	With heat transfer medium max. 350°C, max. 12 bar for > 14" sizes (max. 7 bar for 10", 12" and 14" sizes)
Installation:	The vacorex® gear pump can be flanged directly under the reactor
Viscosity:	To 20,000 Pas
Temperature:	To 350°C
Suction side:	Pumped media flow under vacuum or at an admission pressure to 10 bar
Delivery side:	Discharge pressure up to 70 bar **(Higher pressure available upon request against extra charge.)**

Typical application:



Pump size*

Size	Spec. volume [cm³/rev]	Capacity** [m³/day]
10"	3,170	86.5-420
12"	5,100	220-610
14"	7,900	350-820
16"	13,700	450-1,100
20"	21,400	595-1,450
21"	29,009	721-1,771
23"	40,267	866-2,245
25"	54,036	1,000-2,728
29"	65,667	1,148-3,198
32"	89,458	1,420-4,091
36"	132,700	1,882-5,584

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

** These data are reference values for polymer processes.
Please contact maag pump systems for your specific applications.

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

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Global contacts, see **www.maag.com**
Contact us at **contact@maag.com**

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