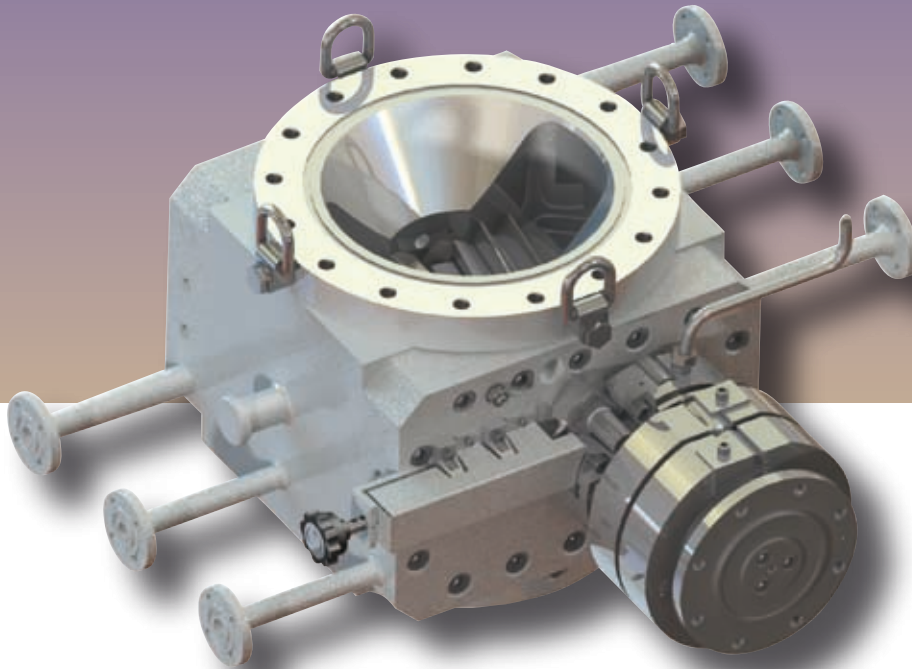


vacorex®



Typical pumping media:

- Polyethylene Teraphthalate
- Polybutylene Teraphthalate
- Polyamide
- Polycarbonate
- Cellulose acetate
- Polyacrylonitrile
- Silicone
- Oil additives
- SBR Latex
- Phenolic resin
- Polymethylmethacrylate
- Epoxy resin
- Polystyrene (incl. ABS, EPS)
- Polysulphone
- Elastomers
- Polyolefine
- and others

Dependable and gentle discharging

Polymer processes require units that which 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 vacorex® gear pump is the ideal solution for such applications. The high efficiency and long service life will enhance the capacity of your production plant's capacity and availability.

There are three types to choose from:

- **vacorex® GP** for a broad application range
- **vacorex® HV** with 25% higher pumping volume than the GP model
- **vacorex® HP** for differential pressures of up to 300 bar

Benefits of the **vacorex®** gear pump::

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

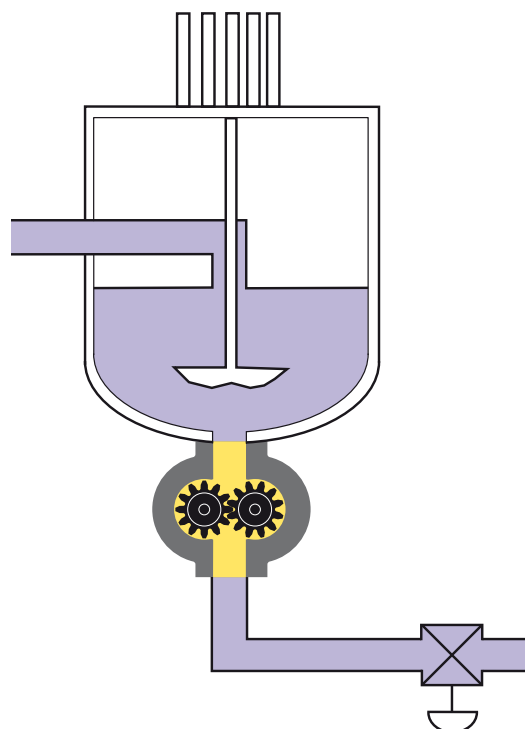
Technical specifications:**Housing, cover:** Stainless steel/carbon steel**Gear shafts:** Nitrided steel/tool steel**Bearing:** Tool steel/special materials

Shaft seals:

- Single mechanical seal, heated
- Double mechanical seal with barrier system
- vislip®
- vispac®
- viscoseal

Pump heating: with heat transfer medium max. 350 °C, max. 25 bar.**Installation:** The vacorex® gear pump can be flanged directly under the reactor.**Viscosity:** to 20,000 Pas**Temperature:** to 350 °C**Suction side:** pumped materials flow under vacuum or at an admission pressure to 10 bar.**Delivery side:** discharge pressure to 300 bar

Typical application: Discharging and granulation



Pump size*	vacorex® GP		vacorex® HV***		vacorex® HP***	
	Spec. volume [cm³/rev]	Capacity** [m³/day]	Spec. volume [cm³/rev]	Capacity** [m³/day]	Spec. volume [cm³/rev]	Capacity** [m³/day]
45	47	4-9				
70	177	11-25				
90	373	18-45				
110	720	30-77				
140	1,493	52-137				
180	3,207	91-249	3,990	117-320	2,494	71-193
224	6,106	146-412	7,632	183-514	4,907	117-331
250	8,601	188-540	11,009	236-674	6,881	151-432
280	12,090	242-705	15,545	302-881	9,673	216-629
320	17,681	318-945	22,102	398-1,181	13,813	254-756
360	25,211	413-1,247	31,513	530-1,604	19,608	367-1,109
400	34,583	520-1,598	43,228	669-2,055	27,666	463-1,421
450	40,758	558-1,745	50,721	718-2,243	32,606	496-1,551
500	55,911	704-2,235	69,889	905-2,874	44,729	626-1,987
560	82,574	949-3,067	103,210	1,220-3,943	66,354	844-2,726

*Larger pump sizes are available upon request. Flange connections in accordance with DIN or ANSI standards.
**The data are reference values of the polymer processes. Please contact Maag Pump Systems for specific applications.
***Available from size 180.

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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