

PUMP & FILTRATION SYSTEMS >



flexinox™

Corrosion-resistant gear pumps
for chemical processes

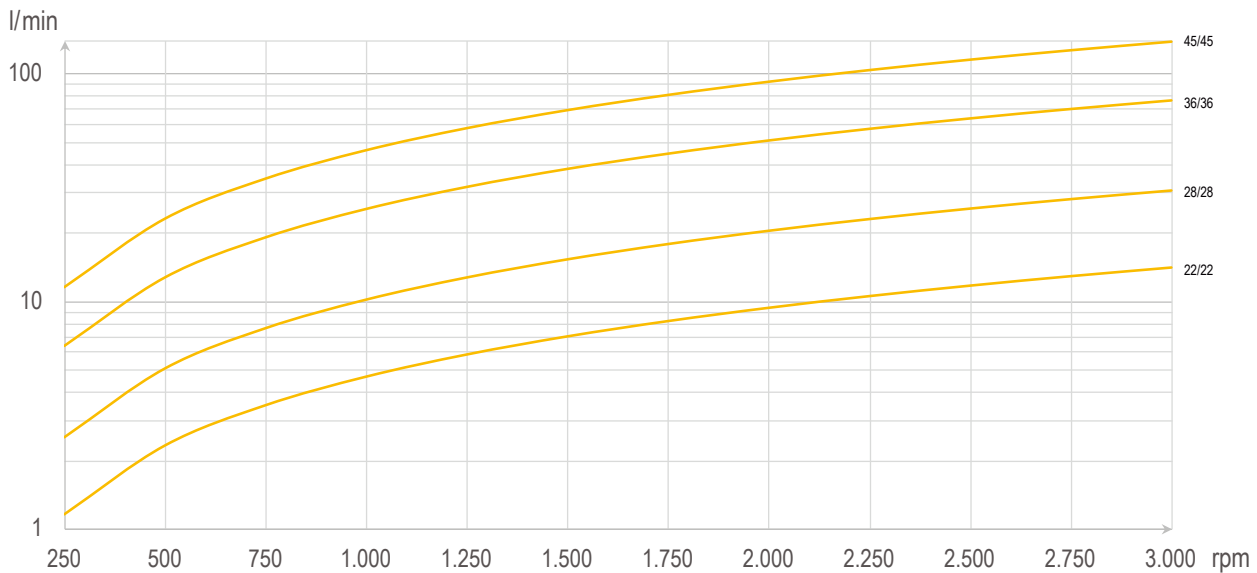


MAAG flexinox™ pumps are corrosion-resistant conveying units; they satisfy the stringent quality requirements of today's chemical processing industry and their three-piece configuration facilitates maintenance and replacement of internal parts, such as gears and bearings. They can be heated either electrically or with fluid. Thanks to the extensive range of components and materials available, MAAG gear pumps can be configured to suit customers specific requirements and therefore, are far superior to standard pumps in terms of performance and reliability.

Your benefits

- Wide viscosity, temperature and pressure range
- High efficiencies due to tolerances being modified in line with applications
- Precise displacement volume
- Self-priming
- Corrosion-resistance
- Reliability and longevity
- Safety
- Easy replacement of internal parts

flexinox™ 22-45 flow rate @ 0 bar ΔP



Application limits:

Viscosity:	0.3 to 500,000 mPas
Temperature:	-30 to 320 °C
Suction pressure:	Vacuum up to 65 bar
Discharge pressure:	Vacuum up to 150 bar
Flow rate:	From 1.2 to 139 l/min

Technical specifications:

Housing:	<ul style="list-style-type: none"> Stainless steel Hastelloy 	
Gear shafts:	<ul style="list-style-type: none"> Stainless steel Hastelloy Technopolymer (upon request) Ferrallium Ceramics Titanium (upon request) 	
Bearing¹⁾:	<ul style="list-style-type: none"> Synthetic carbon Stainless steel with carbon inserts Ceramic SiC, ZrO₂ Tegodyn NiAg Bronze CuAl Hardened tool steel 	
Shaft seal:	<ul style="list-style-type: none"> Single or double mechanical seal Single or double mechanical balanced seal Lip seal and packing seal Sealing ring in a wide range of materials Sealing medium or heating medium connections available Magnetic coupling with single or double containment shell 	
Connections:	SAE, CETOP, DIN and ANSI flanges	
Heating:	<ul style="list-style-type: none"> Electrical heating by cartridges on request Integrated channels for heating/cooling by steam or liquid 	

A range of typical pumping media

- Organic and inorganic chemicals
- Solvents
- Acids and alkalis
- Emulsions
- Sludges and condensates
- Prepolymers, oligomers, and monomers (PAN)
- Additives
- Resins
- Silicones
- Cellulose derivatives and pulps
- Waxes and paraffins
- Cosmetic products
- Pharmaceutical products
- Food extracts and flavourings
- Gum base
- Vegetable/animal oils and fats
- Molten Sulfur

Accessories

- Stands, motor flanges and base plates
- Product flange connections
- Couplings
- Motors and gear reducers
- Frequency converters
- Shaft seal systems (with buffer tanks)

Certificates²⁾

- ATEX certificate
- 3.1 certificate
- Performance test certificates

Options

- Bi-directional operation
- Special modifications for demanding applications
- Customizable

¹⁾ Other materials and designs available.

²⁾ Other certificates and conformities upon request.

