

Screw pumps MS

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Schraube für Schneepumpe MS

Structure

Due to the very wide speed range, the KNOLL screw pumps MS are used for conveying of viscous products and simultaneously as CIP cleaning pumps. Double screw pumps are high-performance units, which become even more popular thanks to their benefits in the food sector.

Benefits

- Highest flexibility due to very wide speed range: Conveying of viscous products and CIP cleaning fluids with the same pump
- Low shear and gentle product conveyin, thanks to axial conveying without change of flow direction, also for products with chunky particles
- Nearly pulsation free – ideal conveying behavior
- Very good self-priming capability
- Highest sanitation due to form rings, surface roughness ($Ra < 0,8\mu m$) and dead-end free design
- Very easy to clean and sterilize thanks to ideal flushing paths – CIP/SIP capable
- Nearly wear free operation due to touchless conveying elements
- Insensible to dry running (with flushed shaft seals)
- High-quality precisely manufactured parts to receive minimal clearances, smooth running and nearly wear free operation
- Service and inspection friendly

Options

- Heating / Cooling jacket
- Customized inlet, e.g. rectangular
- Mobile base plate
- Surface roughness $Ra < 0,4\mu m$
- Higher wear protection by additional surface treatment
- 3A or EHEDG execution

Type Code

MS 92-S-44

Designation
Size
Model
Spindle pitch

Power range

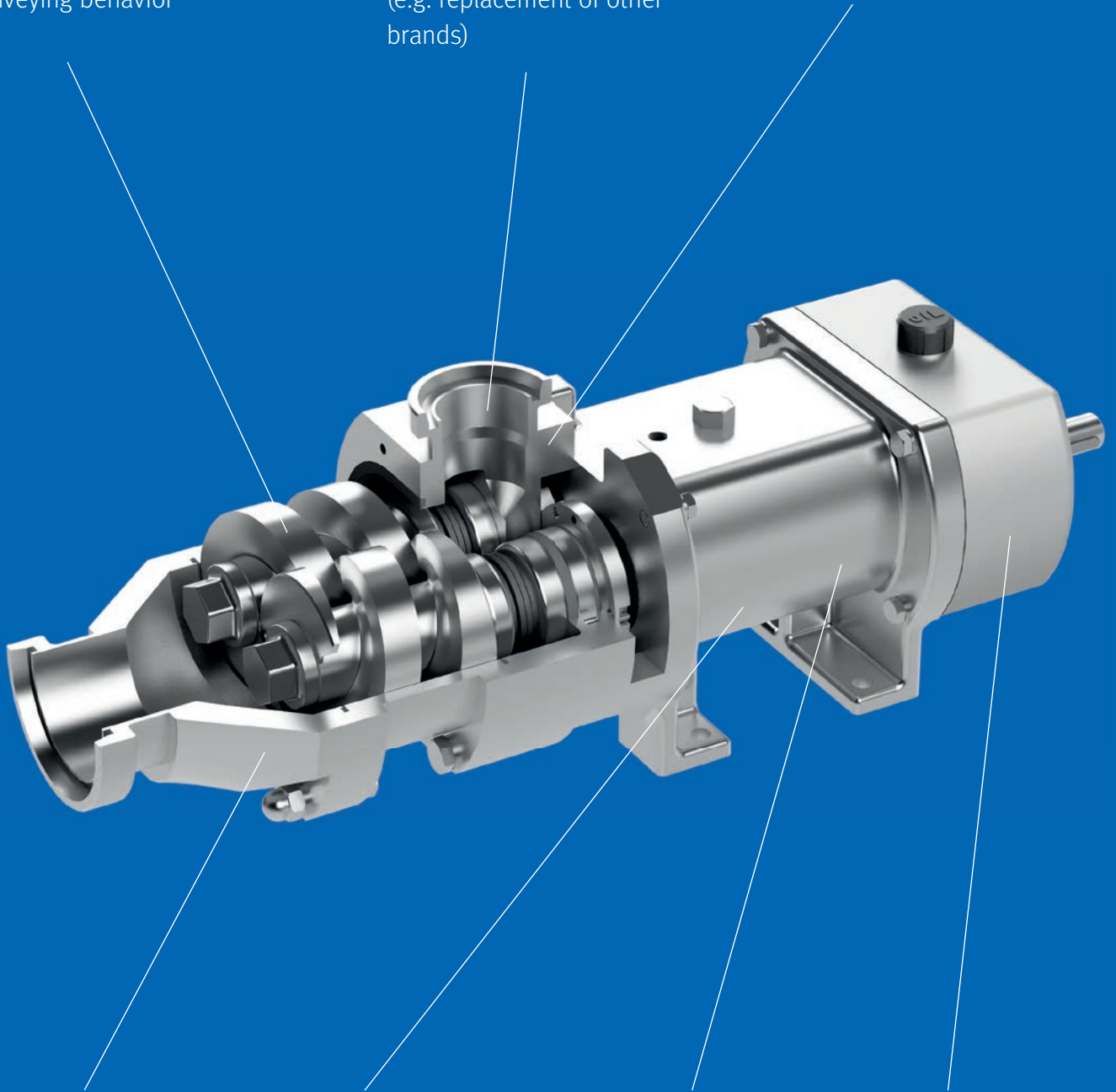
Flow rate: 100 – 40.000 l/h
Differential pressure: up to 20 bar
Viscosity: up to 1.000.000 mPas

Design features

Various spindle pitches for optimized conveying behavior

Welded ports for highest sanitation and flexibility (e.g. replacement of other brands)

Pump casing in stainless steel



3-part pump casing for highest flexibility and best serviceability

High-quality bearing housing in stainless steel precision casting

Drive shaft bedded in needle and ball bearings with circulating oil lubrication for optimized heat dissipation and temperature stability

External synchronization gear

Checklist

The MS screw pump is precisely attuned to the solution adapted for customer-specific use.

[What is your application?](#)

Contact data

Company: _____

Address: _____

Contact: _____

Telephone / E-mail: _____ / _____

Application

Conveying application

Dosing application

Medium

Description: _____

Viscosity: _____

Particles: _____

Temperature: _____

Operating parameters

Flow rate: _____

Discharge pressure: _____

Additional information: _____

Model

Materials: _____

Requirements: _____

Additional information: _____

Drive

Three-phase motor

Servo motor

Voltage / Frequency: _____