

Screw spindle pumps type KTSV

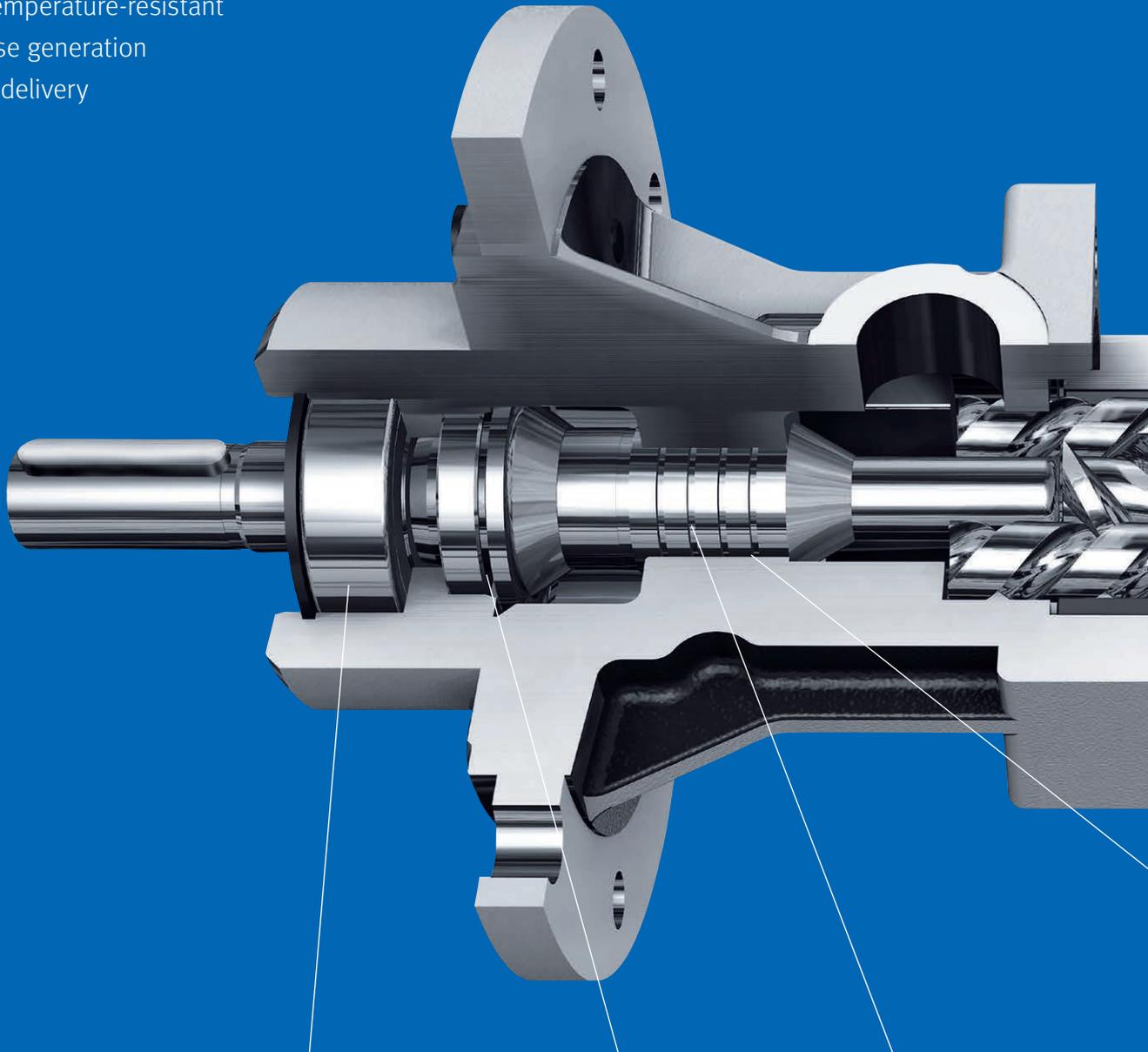
KNOLL
.It works

Version 04-2015



Advantages

- Long service life thanks to high resistance to wear
- Low pulsation
- Extremely temperature-resistant
- Minimal noise generation
- Gentle fluid delivery



Features

Exterior main bearing for greater longevity

Installation of various shaft seal variants possible

Labyrinth for effective pressure reduction and high efficiency

Equipment

The KTSV screw pump is available in a submersible version for vertical installation (generally in containers) and in a model with feet for horizontal dry set-up.

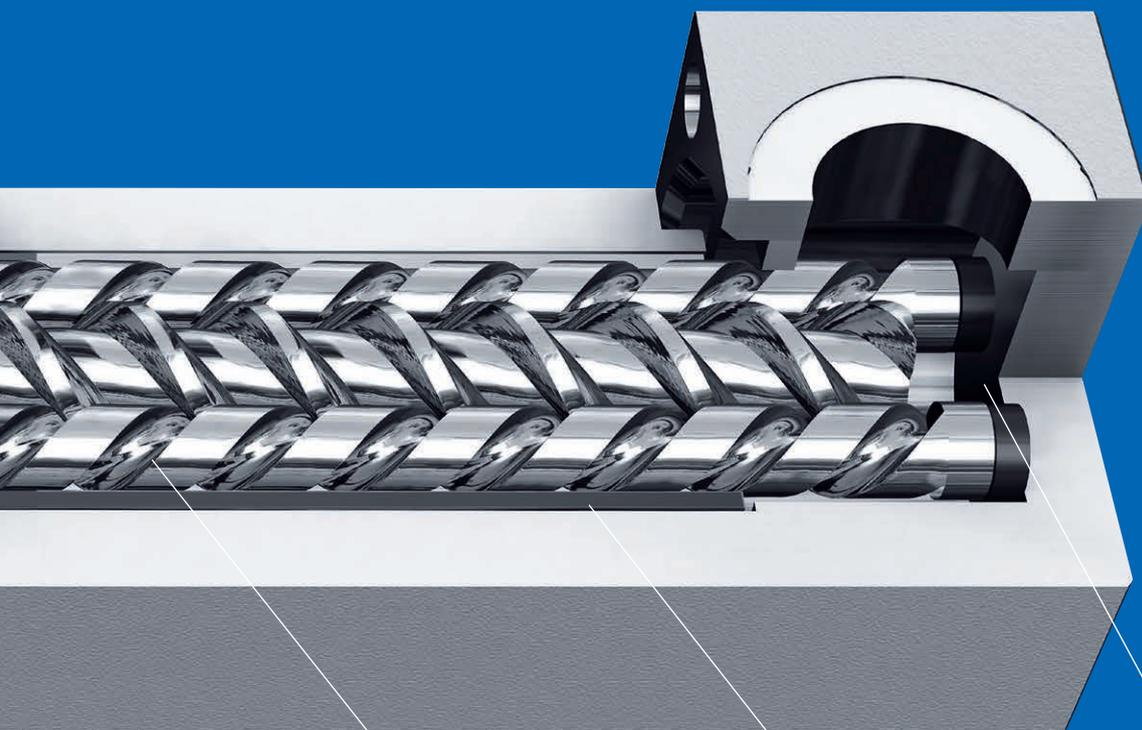
Type code

Configuration KTSV 25-50
Model
Spindle pitch

Layout

Type KTSV screw pumps by KNOLL are self-priming positive displacement pumps suitable for lubricating and non-abrasive materials. The pump has three primary components:

1. Suction housing, 2. Bearing housing with a drive spindle and two concurrently rotating running spindles, 3. Pressure housing with throttling point, sealed shaft bushing and external main bearing. The bearing housing consists of two steel-embedded ceramic shells.



Optional ceramic piston bushing at the throttle valve opening

Screw spindles precision-manufactured from long-lasting specially-treated tool steel

Precision manufactured bearing housing made of nearly wear-free ceramic

Wear resistant axial thrust compensation

Specifications

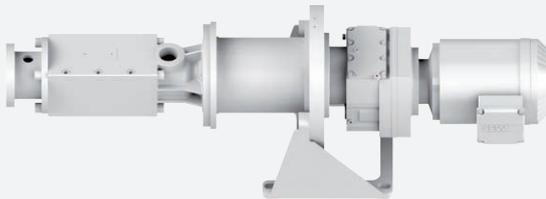
Delivery rate:	1 – 900 l/min
Pressure increase:	1 – 200 bar
Inlet pressure:	max. 20 bar

Conveying and dosing tasks in a wide variety of operating conditions

Application examples

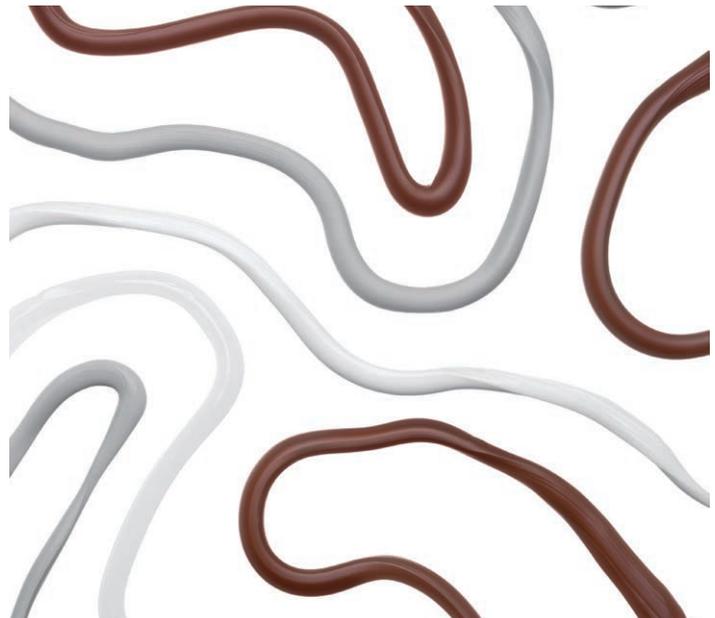
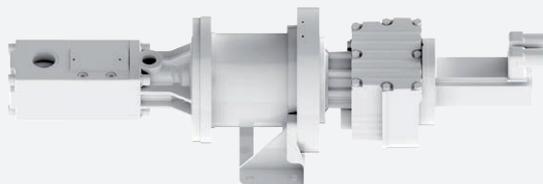
Pump with follower plate for drum unloading KTSV 50-100

Medium: Hardener for epoxide resin
Delivery rate: 1.5 – 3.5 l/min
Delivery pressure: 80 bar
Viscosity: 600,000 mPas



Dosing pump for thickener application KTSV 20-30

Medium: Surface seal
Delivery rate: 0.75 l/min
Delivery pressure: 70 bar
Viscosity: 130,000 mPas



Conveyor pump in machine washing system KTSV 32-46

Medium: Alkaline suds 1%
Delivery rate: 75 l/min
Delivery pressure: 30 bar
Viscosity: 1 mPas



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

What is your application?

Checklist

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:

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KTSV