



**Vitis &  
Winemakers**

# KIESEL

## PUMP CATALOGUE



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# KIESEL



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## KIESEL ECCENTRIC SCREW PUMP

Over the past 40 years, eccentric screw pumps have become the most used displacement pumps in the beverage industry. The simple handling, nearly pulsation-free controllable stream, its self-priming capabilities and the application possibilities for promoting liquid, non-homogeneous and high-viscose products have justified the triumphal procession of these kinds of pumps.

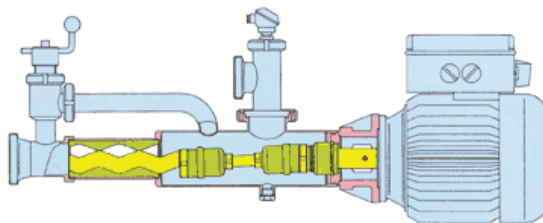
One can find many different manufacturers of these pumps on the market, but KIESEL Eccentric screw pumps stand out as especially suitable for the beverage industry, due to the following specific characteristics.

**Decide to choose pumps with the leading technology and excellent workmanship!**

Our company is certified in accordance with EN ISO 9001. Every pump is subject to a final inspection with an inspection report, which you may receive upon demand. The design of our products comply with the CE-norm. You will receive a certificate of conformity with every pump which is ordered. We guarantee a replacement part service within 24 hours and the receipt for the most important replacement parts for 15 years. Our repair department works fast and is inexpensive.

These are good reasons to buy KIESEL pumps.

Pump sizes:	SP 02 to SP10 lt/h to 200,000 lt/h
Capacity output:	SP 02 to SP10 lt/h to 200,000 lt/h
Maximum vacuum level:	geodetic to 9 m WS
Maximum pressure level:	6 bar single-level stator
	12 bar two-level stator 24 bar four-level stator
Maximum temperature:	up to 145°C (steaming with full steam)



We offer pumps from the model series M, B, FT, FTF and TP for the beverage industry. We naturally offer pumps with flange connections and stainless steel mounting bases for stationary installations.

### QUICK FIRE FEATURES

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Pumps to suit Liquids,  
must, de-stalked grapes,  
dregs and Puree

Model FP102  
0 - 5,000 Lt/hr

Model FP152  
0 - 15,000 Lt/hr

Model FP202  
0 - 25,000 Lt/hr

Model FP302  
0 - 40,000 Lt/hr

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## KIESEL ECCENTRIC SCREW PUMP MODEL SERIES M

Developed especially for the beverage industry.

The pumps are equally suitable for the promotion of mashes, as well as fruit wine, yeast, wine and fruit juices. The following outfit is standard:

- Hollow rotor, stator is harmless to edibles
  - By-pass adjustment with angle valve (made of rust-proof stainless steel)
  - Screw thread connection according to DIN 405/11851
  - Undercarriage made of rust-proof stainless steel
  - All pump parts that come into contact with the conveyed substance are made out of rust-free stainless steel 304/4301 or 316/4404
- Drives according to description with switch 230/400 V, 50 Hz

Special models with other screw thread connections or drives with different voltage/frequency are also available.

KIESEL Model series M eccentric screw pumps are ideal universal pumps for wineries, fruit juice pressing houses, breweries and distilleries.

Entire stone fruits, Grapes, De-stalked grapes, must, yeast, dregs, wine, cider, and concentrates are propelled along easily.

### Advantages

- Particularly suitable for drawing off and for filtration
- Exceptionally smooth, pulsating free conveyance
- No destruction of seeds or stones
- Great self-priming capacity up to 6 m Ws
- Promotion of whole stone-fruit
- Promotion of hot mash (up to 100°C)
- Compact, mobile construction design

Vibration-less operation with a special hollow rotor

All pump parts are made of rust-proof stainless steel 1.4301 polished.



### QUICK FIRE FEATURES

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Maximum Versatility

Minimum Maintenance

VERY Gentle

EXCEPTIONALLY  
Smooth

User Friendly

Dry-Run Protect

Reliable

Self-Priming

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## KIESEL ECCENTRIC SCREW PUMP MODEL SERIES FTF

Specially constructed for use under de-stemming machines, graters, or mills.

The following characteristics are combined in this model series: Flat funnel – low pour height of the de-stemming machine – hollow rotor with high eccentricity – vibration-free pump characteristics – slow speed – particularly suitable product promotion control by way of level sensor.

Transported material:

- De-stemmed and stemmed grape mashes
- Dripped-off grape mashes
- Whole grapes

Berry, stone fruit, seed fruit mashes

The KIESEL Flat mash pumps model series FTF are specially constructed for the tight space under de-stemming machines, graters or mills. Order a large feeding-screw and enclosed, wear-free joint

### Advantages

- Extremely flat construction, low design
- Stainless steel construction completely made of rust-proof stainless steel 1.4301 (aisi 304)
- Hollow rotors made of rust-proof stainless steel, vibration-free run
- Most conservative promotion due to low speed
- Dry-run secure, control through niveau leads
- Maintenance-free drive, due to sturdy pump units
- Promotion of de-berried, berried and de-juiced grape mashes
- Reverse switch, motor protection switch, niveau control in sturdy switch box
- Connection pieces easily exchangeable
- Connection for CO<sub>2</sub>- interaction of mash



### QUICK FIRE FEATURES

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Designed for use under de-stemming machines.

Dry-Run Protect

Reliable

Reversible Flow

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## KIESEL ECCENTRIC SCREW PUMP MODEL SERIES TP

Submersible pumps, tank pumps, keg pumps

This model series is used for pumping high-viscosity products out of tanks, kegs and containers, which can not be vacuumed out otherwise, for example: concentrates, marmalade, viscous products up to 200,000 mPas.

The product fixing is due to the following:

- Wall racks
- Tank lids
- crane or balance mounting

Depending on the desired application conditions, different pump drives are available, for example: variable speed gear, flame-proof drives and drive motors with frequency converter. Two-staged stators and rotors are used for higher pumping pressures up to 12 bar.

### Advantages

- Pumping of high-viscosity material out of tanks,
- kegs and pits
- Output up to 60 m<sup>3</sup>/h
- Pressure level up to 24 bar
- Viscosities up to 200,000 mPas
- Submersible level down to 5,000 mm
- Tank lid mount
- Perpendicular wall mount
- Crane and balance mounting

Materials: stainless steel 1.4404, 4539, titan, hastelloy, PTFE, Viton TFM-encased



**QUICK FIRE  
FEATURES**

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Pumping of  
High Viscosity product

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## KIESEL ECCENTRIC SCREW PUMP MODEL SERIES B

The model series B encompasses specially developed pumps for fruit distillery. Due to extremely high eccentricity of the rotor, output room between the rotor and stator is especially large dimensioned, in order for the stone fruit mash to be meticulously handled.

All rotors are provided with a screw thread connection for the mount of a supply screw. The input area of the pump is outfitted with a 90s mash screw thread, in order to be able to easily attach a mash input funnel.

KIESEL Distillery Pumps are ideal for distilleries. All mediums would be sparingly pumped without problems. The hollow space between the rotor and stator stays the same size. They are "pushed" during pumping by the vacuum and pressure side. Thus, the transported material will not be smashed and fruit stones will not be damaged.

### Advantages

- Exceptionally smooth, pulsating free conveyance
- No destruction of seeds or stones
- Great self-priming capacity up to 6 m Ws
- Promotion of whole stone-fruit
- Promotion of hot mash (up to 100°C)
- Compact, mobile construction design
- Vibration-less operation with a special hollow rotor
- All pump parts are made of rust-proof stainless steel 1.4301 polished

The pumps work entirely drip-free with built-in mechanical corrugated floating ring seal

All pumps have a pole reversal motor protection switch (2 speeds and 2 directions)



### QUICK FIRE FEATURES

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Reliable

Long Working Life

Gentle

## KIESEL IMPELLER PUMP

KIESEL Impeller pumps are dry and self-priming rotary pumps. They unite the characteristics of a rotary pump and a positive displacement pump into one. The working principle is very simple: The heart of the pump is a flexible wheel (impeller), which is made of an elastomer material called Neoprene and the individual wings of the impeller are strongly bent, due to rotation, against the eccentric plate.

On the priming side, the wings spread apart through residual stress. The suction area increases. A vacuum develops, whereby the pump independently self-priming.

On the pressure side, the wings are squeezed together. Gaps become smaller and are emptied.

KIESEL Impeller pumps are delivered in portable models (up to size IP 03) and mobile models. All pump parts that come into contact with the products being pumped are made of rust-proof stainless steel, material no.

1.4301/304 electrolytically polished model. Standard, pumps can be delivered with a by-pass or without a by-pass adjustment.

The pumps are equipped with the following motors:

AC motor	1450 min <sup>-1</sup>
Rotary current motor	1450 min <sup>-1</sup>
Pole reversible rotary current motor	700/1400 min <sup>-1</sup>
Variable speed gear motor	200-1400 min <sup>-1</sup> variable
Frequency adjustable	approx. 150-1500 min <sup>-1</sup>

### Advantages

- All pump parts are made of rust-proof stainless steel, pore free material polished
- Spare, nearly pulsation-free promotion
- Fast disassembly
- Easy cleaning
- Compact design, low weight
- Up to 5 m Ws self-priming
- Pressure up to 5 bar
- Liquids with seeds, berry waste, stems are problem-free promoted
- Simple adjustability due to By-pass
- Drive with 2 speeds or variable speeds possible
- Pump sizes from 1 to 30 m<sup>3</sup>/h



### QUICK FIRE FEATURES

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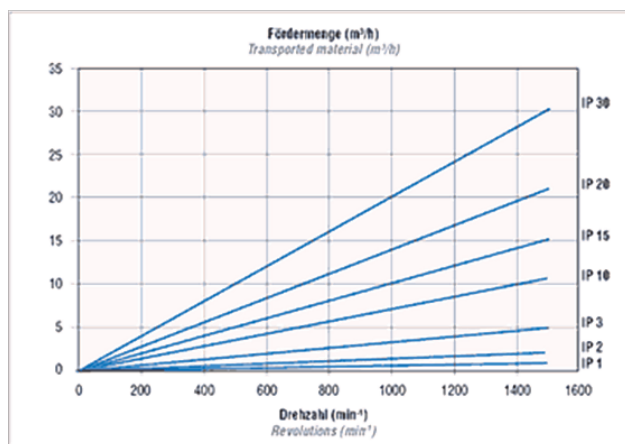
Reliable

Long Working Life

Gentle

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## KIESEL IMPELLER PUMP



### Pumping curve without counter pressure for assortment of pump sizes

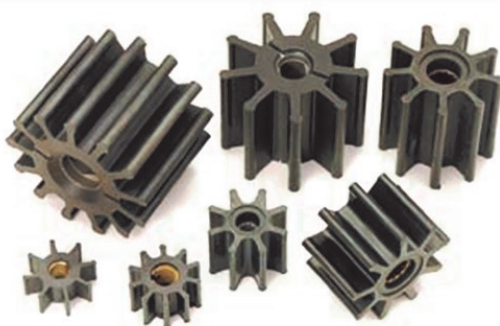
Due to the pumping principle, KIESEL Impeller pumps have a continuous, pulsation free pumping stream.

Please, ask for the exact characteristic curve of the pump you chose.

The core piece of the KIESEL Impeller pumps: elastic, high-resistant Neoprene wheels (impellers).

These insure independent dry priming of the transported material and produce an continuous nearly pulsation-free feeding stream.

Even liquids with seeds, berry waste or stems are promoted without difficulty.



### QUICK FIRE FEATURES

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Reliable

Long Working Life

Gentle