

KVB

Vertical Barrel Pump



APPLICATION

The KVB-25 pumps are hygienic vertical progressive cavity pumps. They are specially designed to transfer media of either high or low viscosity from tanks and barrels by means of a pump tube introduced into the drum. Some of the most important applications of this pump type is transferring of fruit concentrates for the beverage production, tomato concentrate for the ketchup production, transferring of creams, honey and other media of high viscosity. Pumping is characterised by a gentle transfer of media with shear sensitive particles

OPERATING PRINCIPLE

The pump tube is introduced into the drum with the media to transfer. Friction between the stator and the rotor creates vacuum at the inlet of the pump thus facilitating the entry of the product into the pump. The turning motion of the rotor makes the cavities between the rotor and the stator move forward and transport the product to the outlet.

DESIGN AND FEATURES

Vertical pump
Internal single mechanical seal EN 12756 (DIN 24960 L1K)
Impulsion connection BSP 1½"
Surface finish Ra<0,8 µm
Pump tube diameter 54 mm
Drive: Motor 1,5 kW 1000 rpm
Pump support

MATERIALS

Parts in contact with the product	AISI - 316L
Other stainless steel parts.	AISI - 304
Stator	black NBR (FDA Certified)
Gaskets	NBR
Mechanical Seal (standard)	SiC/SiC/FPM

OPTIONS

Stator: white NBR and EPDM (white or black)
Gaskets: EPDM (FDA certified) and FPM
Mechanical seal: SiC/C
Drive: motors at 900 rpm
Drive: geared motor or variable speed drive
Other connections (Clamp, DIN, SMS, RJT...)

TECHNICAL SPECIFICATIONS

Max. flow 1,6 m³/h
Max. operating pressure 6 bar
Max. working temperature 90 °C
Max. viscosity 40.000 mPa.s

TECHNICAL DRAW AND DIMENSION

