



**I 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.

**I 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.

**I Design and characteristics**

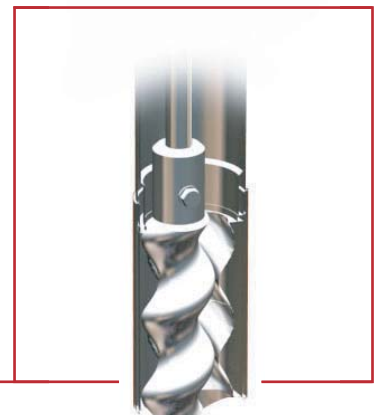
Vertical pump  
 Internal single mechanical seal EN 12756 (DIN 24960 L1K)  
 Impulsion connection BSP 1 ½"  
 Surface finish Ra<0,8 µm  
 Pump tube diameter 54 mm  
 Drive: Motor 1,5 kW 1000 rpm  
 Pump support

**I Materials**

Parts in contact with the media:	AISI-316L
Other stainless steel parts:	AISI-304
Stator:	black NBR (FDA certified)
Gaskets:	NBR
Mechanical seal (standard):	SiC/SiC/FPM

**I 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...)



## I Technical specifications

Max. flow	1,6 m <sup>3</sup> /h
Max. operating pressure	6 bar
Max. working temperature	90 °C
Max. viscosity	40.000 mPa.s

