

**Fields of Application**

KNCPP Pumps are used for continuous operation in process industries for pumping of clean abrasive / corrosive liquids & various stocks upto 8% consistency.

**Design**

KNCPP -process pump is a horizontal, single stage, end suction, radially split volute casing pump of back-pull out type design.

**Operating Data**

Pump sizes : DN 50 to 300  
Capacities : Q up to 700 l/s  
Heads : H up to 105 m.  
Temperature : - 100 to 180 °C  
Consistency : up to 8%

**Designation**

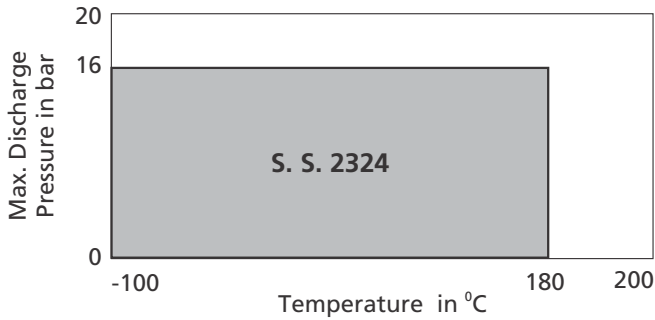
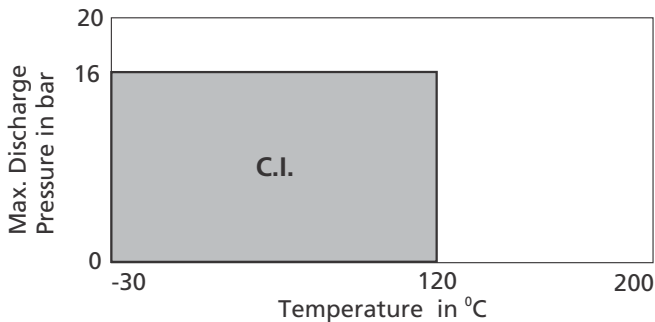
Type of Series ——— KNCPP C 4 2 - 150  
Material of Wetted parts  
GC = C.I.  
C = S.S  
Bearing bracket ———  
Sr. No. of casing cover in the bearing bracket ———  
Discharge nozzle size in mm ———

**Materials**

Components	Material Variants	
	C	GC
Volute casing	SS 2324 / A 743 Gr. CF8/ A 743 Gr. CF8M	IS 210 FG260
Wear plate		SS 2324 / A 743 Gr. CF8 / A 743 Gr. CF8M
Casing cover		IS 210 FG260
Impeller		SS 2324 / A 743 Gr. CF8 / A 743 Gr. CF8M
Shaft	A 276 TYPE 410	
Bearing bracket	IS 210 FG260	
Brg. Bracket lantern		
Bearing cover		
Shaft Prot. Sleeve	1.4462	

Equivalent grade SS2324 : 1.4460  
Other material variants possible upon request, please check with HO, Pune.

**Pressure And Temperature Limits**



Technical matter subject to change without notice.

The self-venting casing prevents air-lock

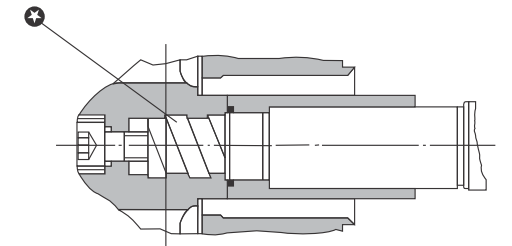
Volute casing with low radial forces

Standard execution is offered with gland packings. A split gland & lantern ring enable easy replacement of gland packing.

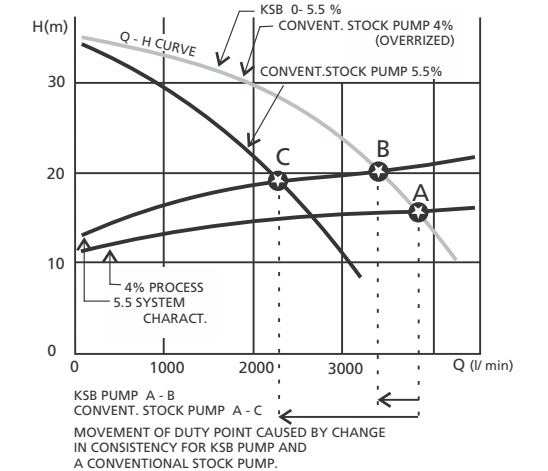
Heavy duty shaft to ISO 5199. Deflection at stuffing box less than 0.05mm.

#### ✱ROTOKEY spiral key

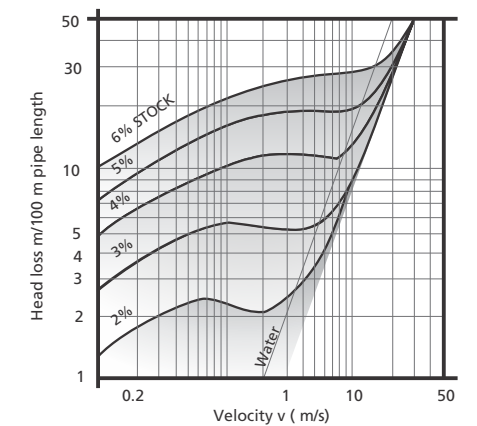
- Fixed spiral key
- More power transmission capability
- Self locking
- Back-run safe
- Easy installation and dismantling
- Non-sensitive to axial thrust
- Never a missing key again
- Carries all advantages from normal Key and Screw locking-but no disadvantages.



#### Process Stability



#### Stock Behaviour

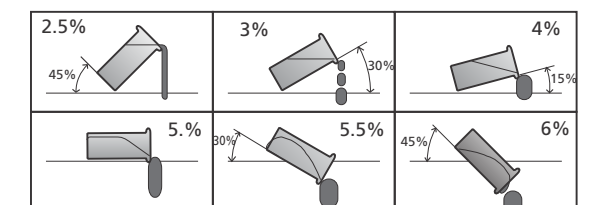


The wear plate is externally adjustable to provide constant clearance between the impeller & the wear plate as well as high efficiency.

Open impeller specially designed for pulp application provides smooth transfer of stock upto 8% consistency.

Simplified sturdy bearing unit design. Non floating rotor eliminates seal & bearing problems. Both oil & grease lubrication are available.

The strong & rigid bearing support leg improves mounting stability & eliminates distortion caused by piping loads.



Effect of stock consistency on stock flow characteristics