

# NON-METALLIC CHEMICAL PROCESS PUMPS



# Standards & Certificates

"Empowering innovation with certified practices"

ISO 2858

ISO 9906:2B

DIN ISO 10816-7

EN ISO 80079-37:2015

EN ISO 80079-36:2015

TR CU 010/2011

DIN EN 5199

DIN EN 12162



MADE IN BHARAT

# NK Series

Tailored for all slurry application

## Armour Plating

These specialized platings offer several advantages, including:

1. Enhanced Structural Integrity
2. Improved impact resistance
3. Extended Service Life



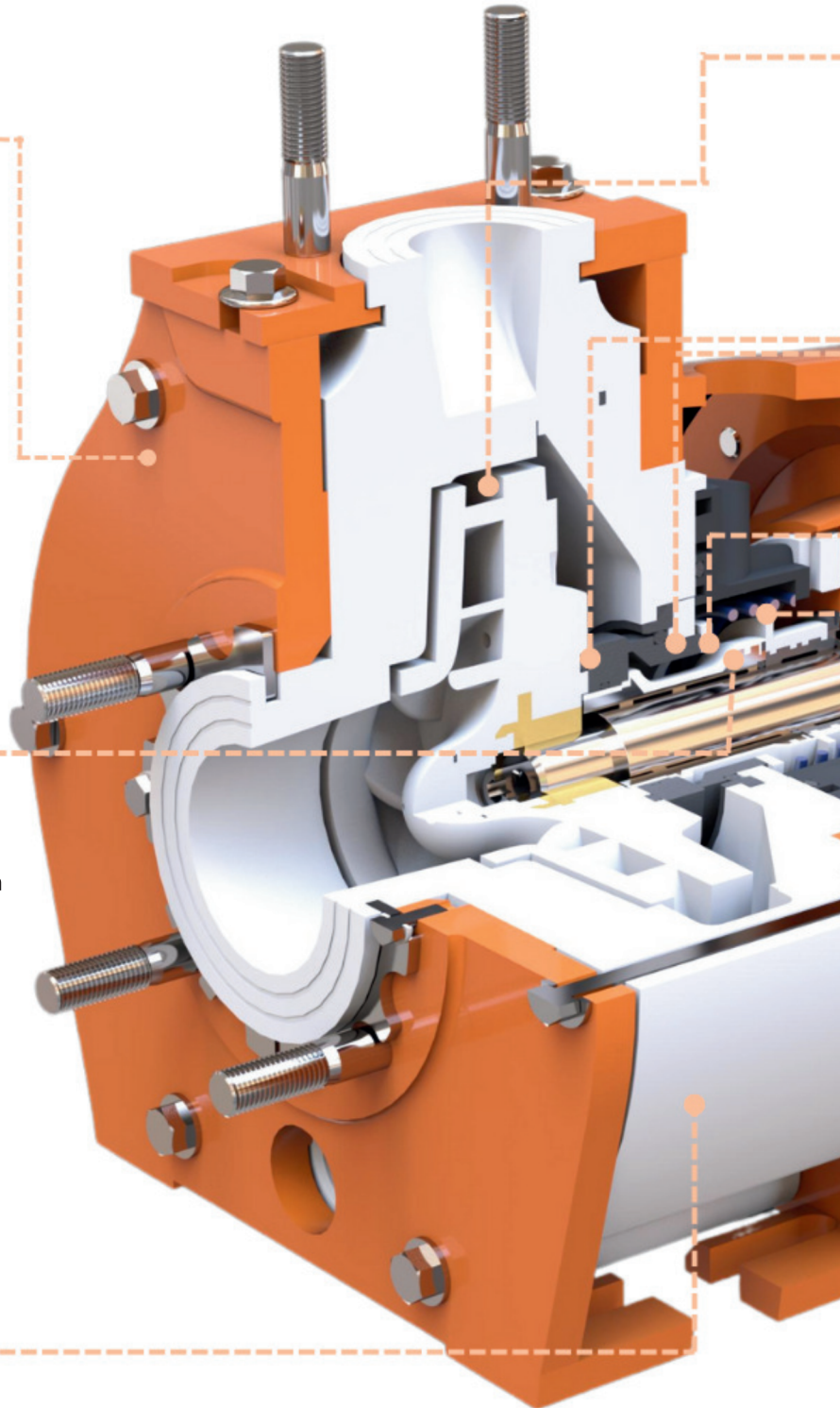
## Shaft-Sleeve

NK Series pumps feature a robust shaft sleeve design, combining the strength of SS-316 for structural integrity with the chemical resistance of moulded PVDF for optimal performance.



## Casing

- NK Series pumps leverage a cutting-edge solid-molding process to create seamless volute casings design (~40 mm thickness) made from PFA, PVDF, or PP for enhanced chemical resistance.
- Sturdy single-piece solid casing resistant to mechanical wear and guarantees maximum operating reliability.







## Impeller

**Keyed impeller** - Ensuring positive engagement with the shaft and preventing slippage or damage during reverse rotation. closed and semi-open designs available (depending on the Application).



## Mechanical Seal

- NK Series pumps utilize an internally mounted, single mechanical seal with no bellows for extended service life exceeding 5 years.
- This design eliminates the need for seal cooling and ensures dry-running capability, minimizing maintenance requirements and maximizing operational uptime.



## Thrust Ring

Thrust rings play a vital role in ensuring optimal axial load distribution, superior seal protection, and enhanced wear resistance.



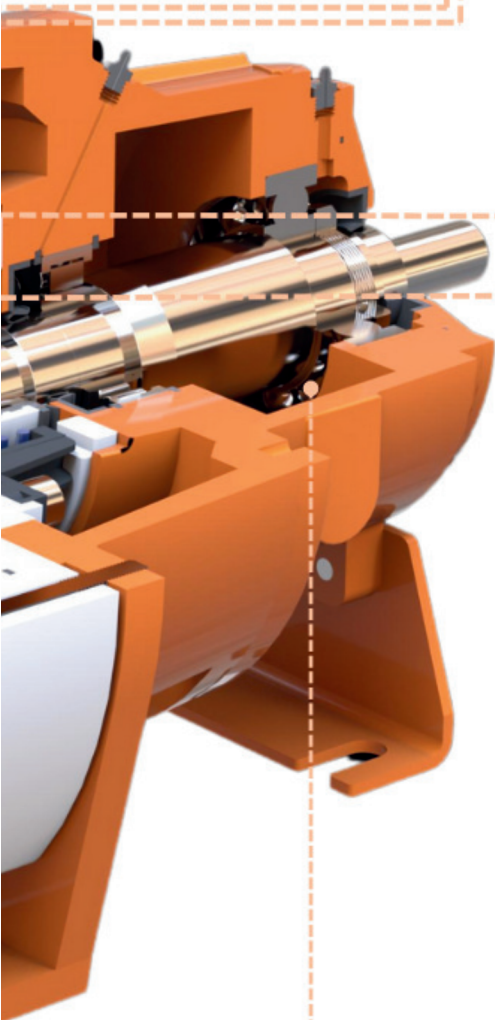
## Spring

- Seal and Gasket Compression
- Valve Actuation
- Vibration Dampening



## Bearing

- The NK Series pumps utilize high- performance roller bearings to ensure smooth operation and extended service life.
- NU Series bearings (2209, 2210) known for their high radial load capacity and quiet operation, making them ideal for applications with moderate thrust loads.





# Applications

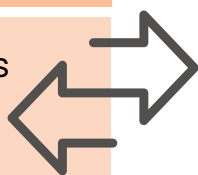
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## Metal and Mining



- Steel processing
- Scrubber
- Acid regeneration plant(ARP)
- Chemical transfer
- Waste water treatment
- Cold Rolling Mill (CRM)
- Slurry and sludge handling
- ETP transfer

## Chlor-Alkali Industries



- Brine circulation
- PAC transfer
- Chlorate feed
- Caustic soda transfer
- Sludge & slurry transfer
- Sodium hypo transfer
- Sulfuric acid transfer
- ETP transfer

## Agro-Chemical Industries



- ETP transfer
- Organic transfer
- Bromine transfer
- Vacuum ejector
- Nitric acid transfer
- Sulfuric acid transfer
- Scrubber

## Water & Waste Water Treatment



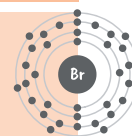
- ETP transfer
- STP transfer
- CIP system
- Acid and Chemical Transfer
- Chemical dosing
- Chlorination

## Specialty Chemicals



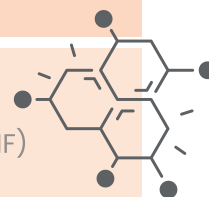
- Hydrofluoric(HF)acid transfer
- Nitric acid transfer
- Scrubber
- Sludge & slurry Transfer
- ETP transfer
- Organic & Inorganic chemical transfer

## Bromine Industries



- Sea bittern transfer
- Bromine extraction
- Mother liquor feed
- Bromine liquefaction
- ML effluent treatment
- ETP transfer
- Bromine transfer
- Scrubber

## Fluoro-Chemicals



- Hydrofluoric acid (HF) transfer
- Chlorine transfer
- Fluorocarbons transfer
- Scrubber
- Solvents transfer
- Slurry transfer
- ETP transfer

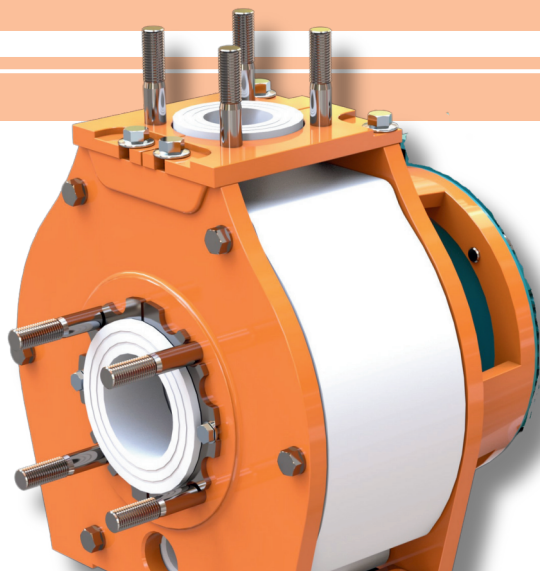
## Pharma-Industry



- High COD, Low COD transfer
- Slurry transfer
- Mother liquor feed
- Chemical feed systems
- High-purity water system
- Vacuum ejector
- ETP transfer

# NK Series

## NK-C (CLOSE-COUPLED)



### Mechanical Seal

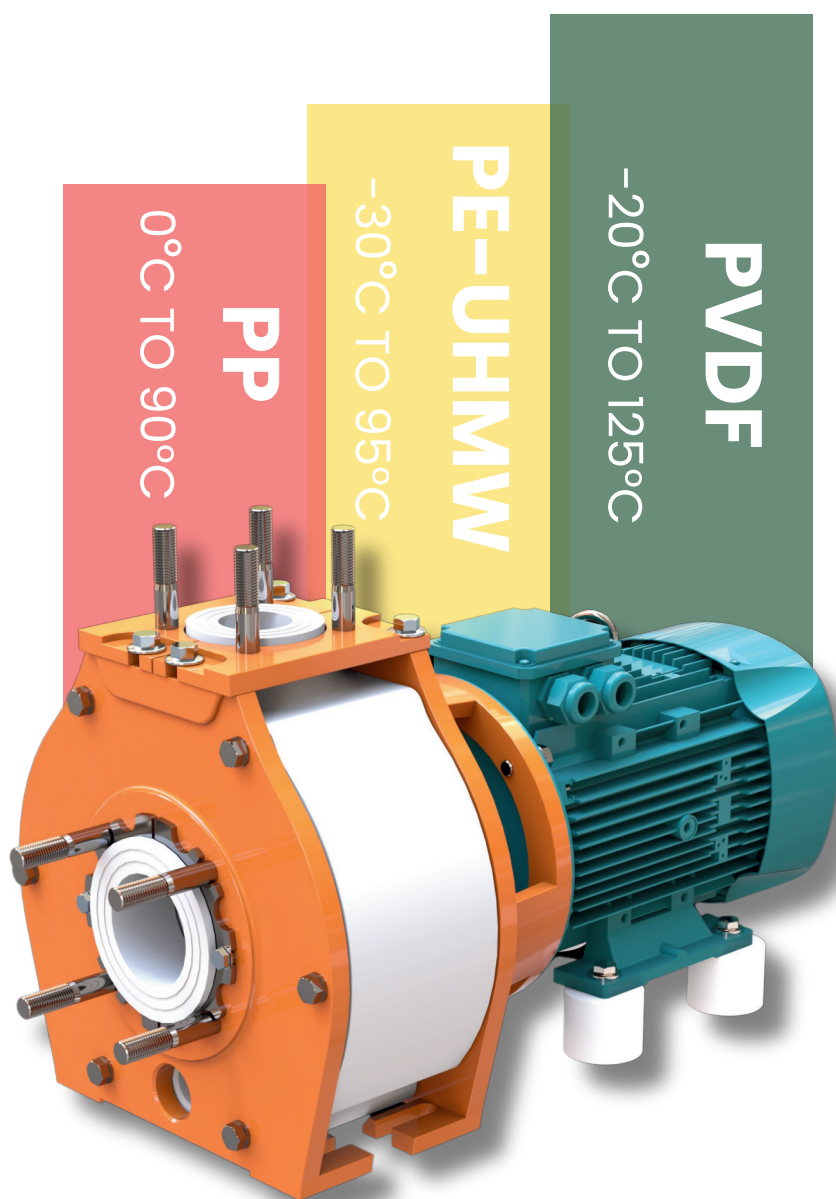
Completely non-metallic Internal Mounted Seal (IMS) mechanical seal design for corrosive & abrasive fluid services.

Mechanical Seal life > 5 Year

Proven performance and warranty coverage for both the pump and its critical mechanical seals.

### Duty Conditions

Capacity (Q):	up to 1250 m <sup>3</sup> /hr
Head (H):	up to 100m
Opt. Temperature:	-30°C to 125°C
Opt. Pressure (p):	up to 10 bar
Discharge size:	DN 25 to DN 250



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