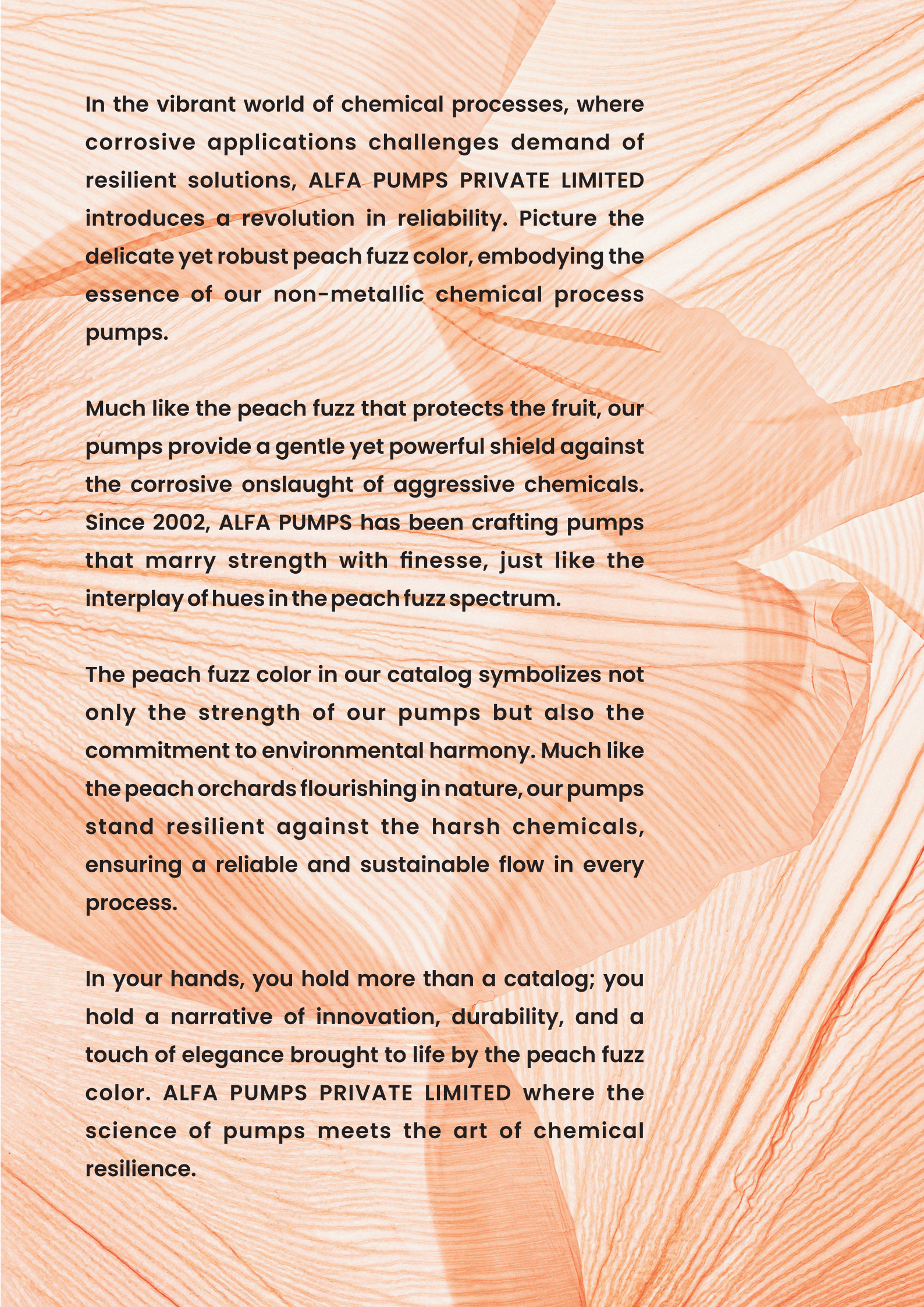


NON-METALLIC CHEMICAL PROCESS PUMPS



The background of the entire page is a close-up, high-magnification photograph of peach skin, specifically focusing on the fine, velvety texture of the peach fuzz. The lighting is soft and even, highlighting the intricate patterns and ridges of the skin's surface. The color is a warm, natural peach or light orange hue.

In the vibrant world of chemical processes, where corrosive applications challenges demand of resilient solutions, ALFA PUMPS PRIVATE LIMITED introduces a revolution in reliability. Picture the delicate yet robust peach fuzz color, embodying the essence of our non-metallic chemical process pumps.

Much like the peach fuzz that protects the fruit, our pumps provide a gentle yet powerful shield against the corrosive onslaught of aggressive chemicals. Since 2002, ALFA PUMPS has been crafting pumps that marry strength with finesse, just like the interplay of hues in the peach fuzz spectrum.

The peach fuzz color in our catalog symbolizes not only the strength of our pumps but also the commitment to environmental harmony. Much like the peach orchards flourishing in nature, our pumps stand resilient against the harsh chemicals, ensuring a reliable and sustainable flow in every process.

In your hands, you hold more than a catalog; you hold a narrative of innovation, durability, and a touch of elegance brought to life by the peach fuzz color. ALFA PUMPS PRIVATE LIMITED where the science of pumps meets the art of chemical resilience.

The NKP GROUP OF INDUSTRIES



Excels in diverse industrial sectors. Our group's portfolio includes:

- **ALFA PUMPS (P) LIMITED:** Experts in manufacturing Non-metallic chemical process pumps, our products stand out for their efficiency and durability.
- **KIRA INTRILOGY:** Leaders in the development of cutting-edge online applications, driving digital innovation across industries.
- **CHEMORO INDUSTRIES LIMITED:** Producers of high-quality Chlorine derivatives, committed to environmental sustainability and safety.
- **KIRA COSMETOLOGY PRIVATE LIMITED:** Makers of the KOHEVA cosmetic brand, offering luxurious and innovative skin care products.
- **Narendra Patel Welfare Foundation:** Dedicated to corporate social responsibility (CSR) initiatives, this foundation reflects our commitment to giving back to the community and fostering sustainable development.

At NKP Group, we are united by a vision of pioneering innovation and excellence. Each arm of our group contributes to this vision, making us a versatile and cohesive force in the industrial and social spheres.

TIMELINE

Foundation: ALFA Pumps was founded with the vision of providing high-quality pumping solutions to various industries.

2002

Global Expansion: ALFA Pumps establishes a presence in international markets, exporting pumps to Middle-East, South Asia etc. Formation of strategic partnerships for distribution and service networks. The R & D team visits major pump manufacturers in Germany. Adoption of German-inspired Technology.

2008

Incorporated as a Private Limited Non-Metallic Pump Manufacturing Company in the Industrial Machinery Manufacturing and Exporting sector.

2012

2014

Technological Advancements: Integration of advanced technologies to enhance pump efficiency and performance. Globally recognized for innovative pump design.

Industry Recognition: ALFA Pumps receives industry contracts due to innovative design and excellence in pump manufacturing. Expansion of product offerings to include specialized pumps for unique industrial applications.

2017

2021

Shaping the Asian non-metallic pump landscape: The largest manufacturer, producing pumps of capacity up to 3500 m³/hr

Launch of a line of pumps designed for explosive-proof requirements, power efficient conservation and higher efficiency.

2022

2024

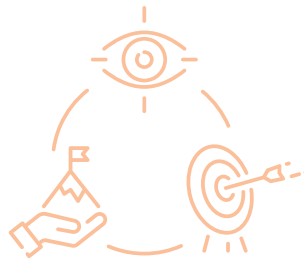
Trusted Expertise – “40k and counting!”
Alfa Pumps achieved a remarkable accomplishment of supplying 40,000 plus pumps to diverse industrial projects across the globe!

ALFA PUMPS plans to break industrial trends as it advocates non-metallic pump solutions as an efficacious alternative to high-end metals across diverse industrial applications, with demonstrable success in slurry management. Building upon our national success, we're propelling this innovation globally.

2035



INTRODUCTION



ALFA PUMPS (P) LIMITED, a key player within the NKP Group of Industries, specializing in the manufacturing of Non-metallic chemical process pumps. Our commitment to innovation and quality is evident in every pump we produce, designed for efficiency, reliability, and compatibility with diverse chemical processes.

We prioritize safety, sustainability, and customer satisfaction, using high-quality materials and adhering to stringent industry standards. Our range caters to various sectors, offering customized solutions to meet specific industry needs.

As part of NKP Group, ALFA PUMPS (P) LIMITED stands for excellence and innovation, driving forward the future of chemical processing with our advanced pumping solutions.

Mission:

To innovate and deliver high-quality Non-metallic chemical process pumps that enhance industrial efficiency and reliability, while continuously adapting to our customers' evolving needs.

Vision:

To be recognized globally as a leader in pump manufacturing, setting benchmarks in technology, quality, and sustainability.

Values:

- **Innovation:** Continually advancing our technology and processes.
- **Quality:** Exceeding industry standards in every product.
- **Customer Focus:** Prioritizing customer needs and satisfaction.
- **Safety and Sustainability:** Committing to environmentally responsible and safe practices.
- **Integrity:** Upholding ethical standards in all our dealings.
- **Teamwork:** Embracing collaboration for better outcomes.

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

The Product Range



Horizontal Pumps

IMS

NK Series
• NK-C

NKP Series
• NKP-C
• NKP-ATEX

NKP Giantico Series



ECO

Economy Series

Standard Series

Jumbo Series



Vertical Pumps

- TNP Series
- ECO Vertical Pump



Magnetic Pumps

- NKM Series



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



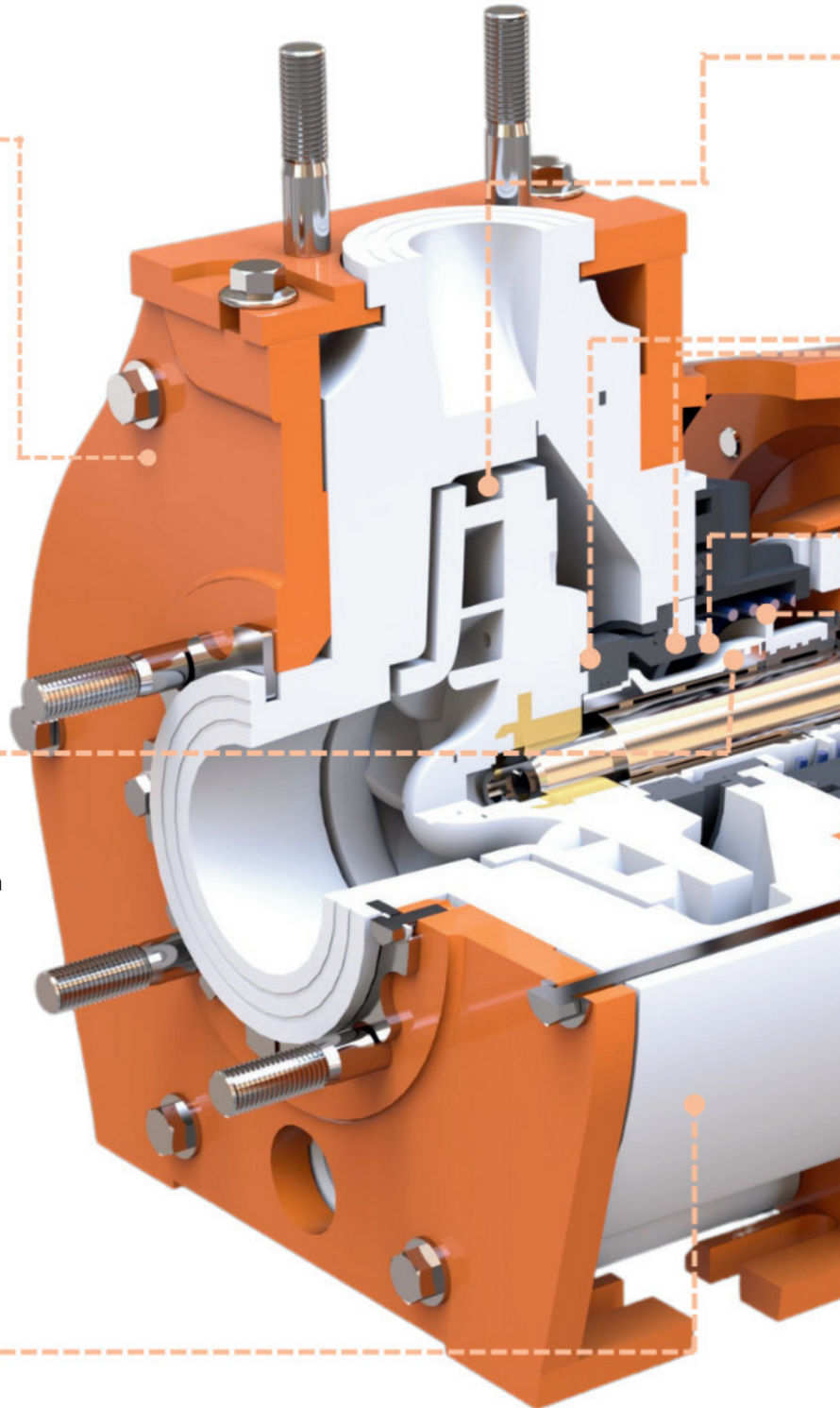
Shaft-Sleeve

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.



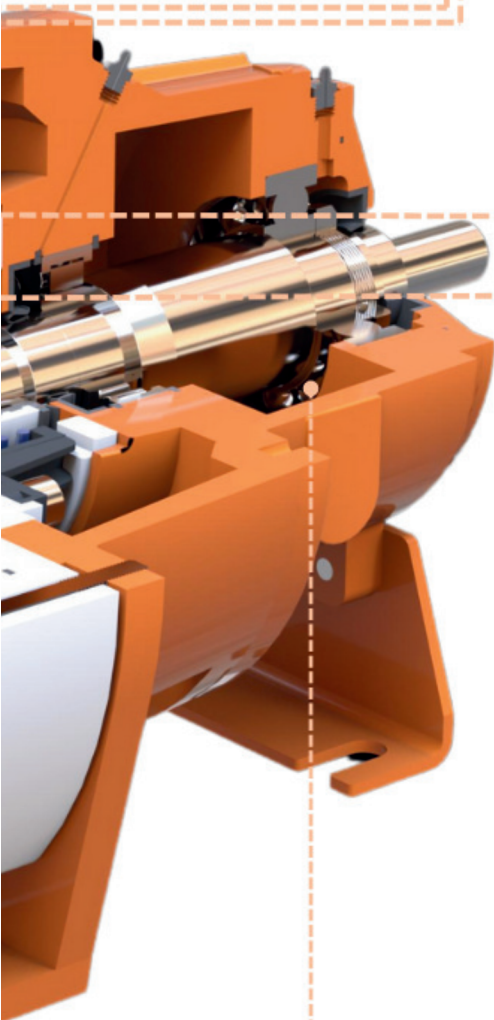
Spring

- 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

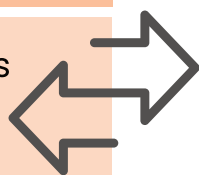
"Unmatched durability, effortless operations, your industry's perfect match"

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



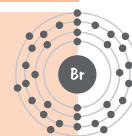
- ETP transfer
- STP transfer
- CIP system
- Acid and Chemical Transfer
- Chemical dosing
- Chlorination

Specialty Chemicals



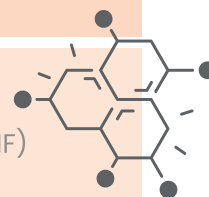
- Hydrofluoric(HF)acid transfer
- Nitric acid transfer
- Scrubber
- Sludge & slurry Transfer
- ETP transfer
- Organic & Inorganic chemical transfer

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

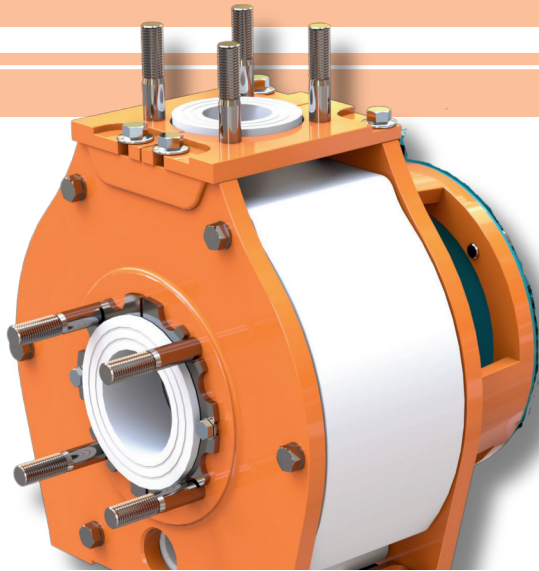
Pharma-Industry



- 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

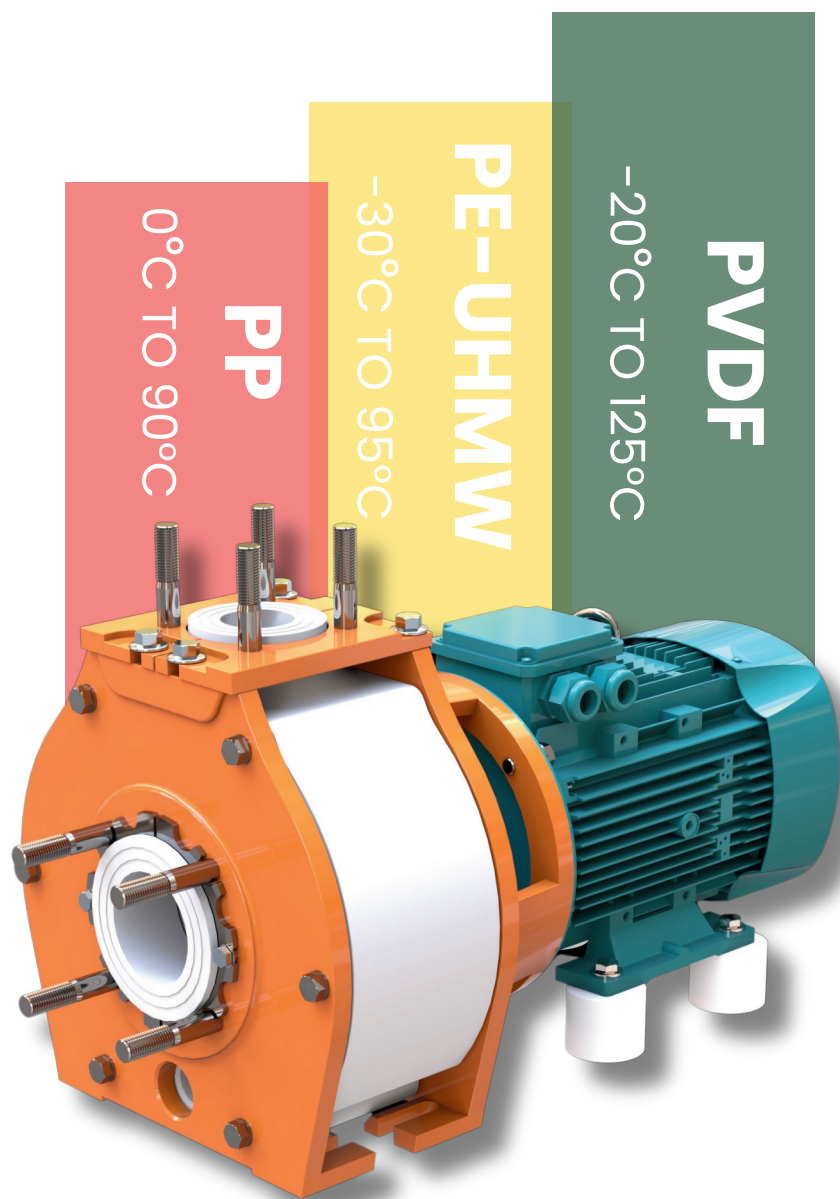
Completely non-metallic Internal Mounted Seal (IMS) mechanical seal design for corrosive & abrasive fluid services.

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 ³ /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



"Save time and efforts with our user-friendly design"

NKP Series

Tailored for all chemical applications

Armour

- These specialized casing liners offer several advantages like Improved impact resistance, Robust metal armour reliably accommodates all allowable system pressures for liner protection and piping loads.
- Extended Service Life: By providing an additional layer of defence against various forms of wear and damage, armour contributes to extended service life for non-metallic pumps, reducing the frequency of maintenance and replacement.



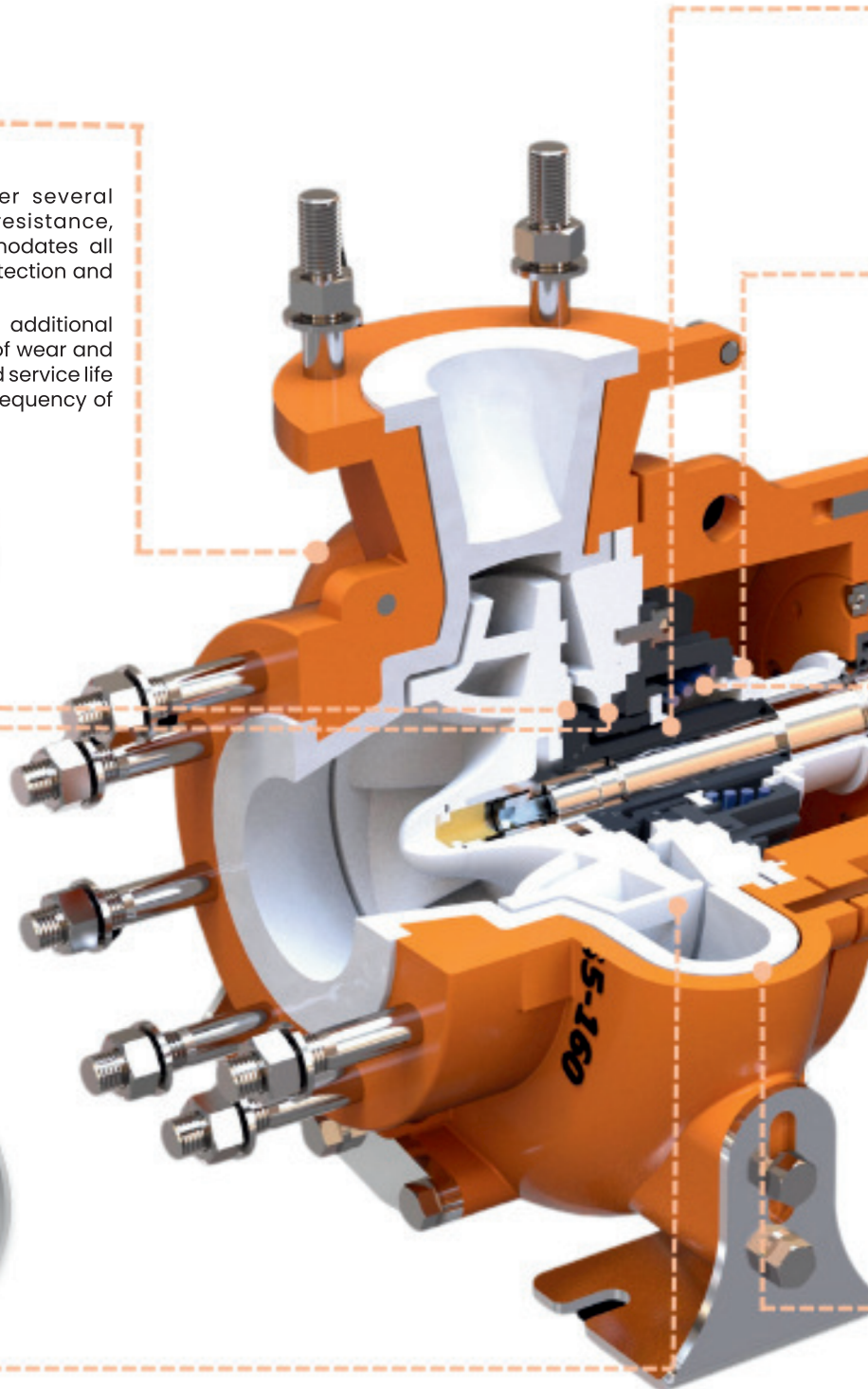
Mechanical Seal

- NKP 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.



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 Application).





Shaft-Sleeve

NKP Series pumps incorporate a robust shaft sleeve constructed from SSiC (Sintered silicon Carbide), offering exceptional wear resistance and ensuring optimal performance without contact with the pumped fluid.



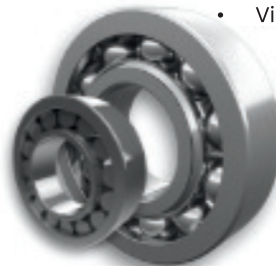
Thrust Ring

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 NKP 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.



Casing Liner

- NKP Series pumps feature a robust volute casing design incorporating a separate liner (>10 mm thick) made from PFA, PVDF & PP for enhanced chemical resistance.
- Sturdy single-piece solid casing liners withstand high temperatures, provide diffusion-tight containment and guarantee maximum operating reliability



Applications

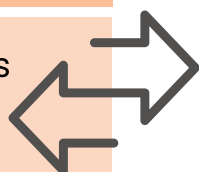
"Unmatched durability, effortless operations, your industry's perfect match"

Metal and Mining



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

Chlor-Alkali Industries



- Chlorate feed
- Caustic soda 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



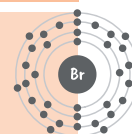
- ETP transfer
- STP transfer
- CIP system
- Acid and Chemical Transfer
- Chemical dosing
- Chlorination

Specialty Chemicals



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

Bromine Industries



- 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
- ETP transfer

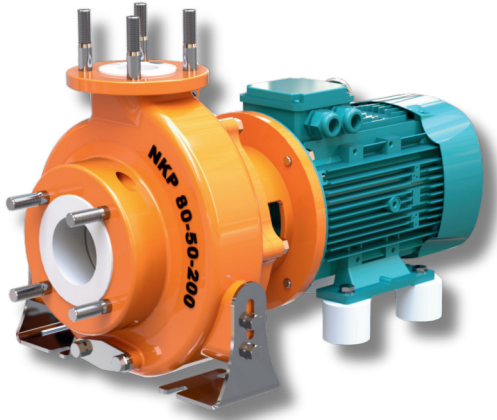
Pharma-Industry



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

NKP Series

NKP-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

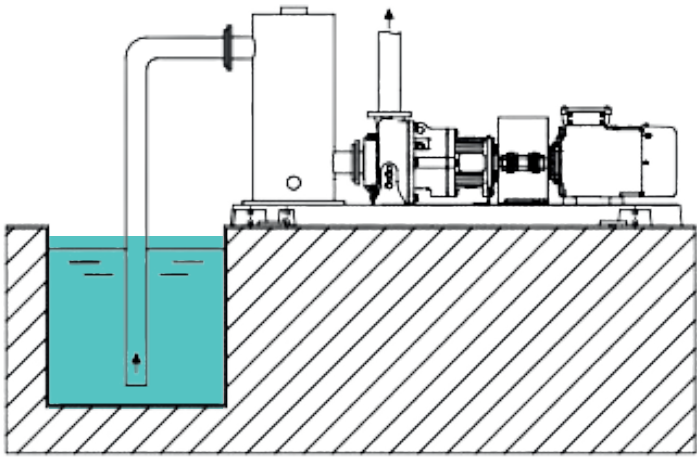
Capacity (Q):	up to 1250 m ³ /hr
Head (H):	up to 100m
Opt. Temperature:	-30°C to 170°C
Opt. Pressure (p):	up to 16 bar
Discharge size:	DN 25 to DN 200



"Designed for everyone, no expertise required"

NKP Series(ATEX)

ATEX 2014/34/EU



Mechanical Seal

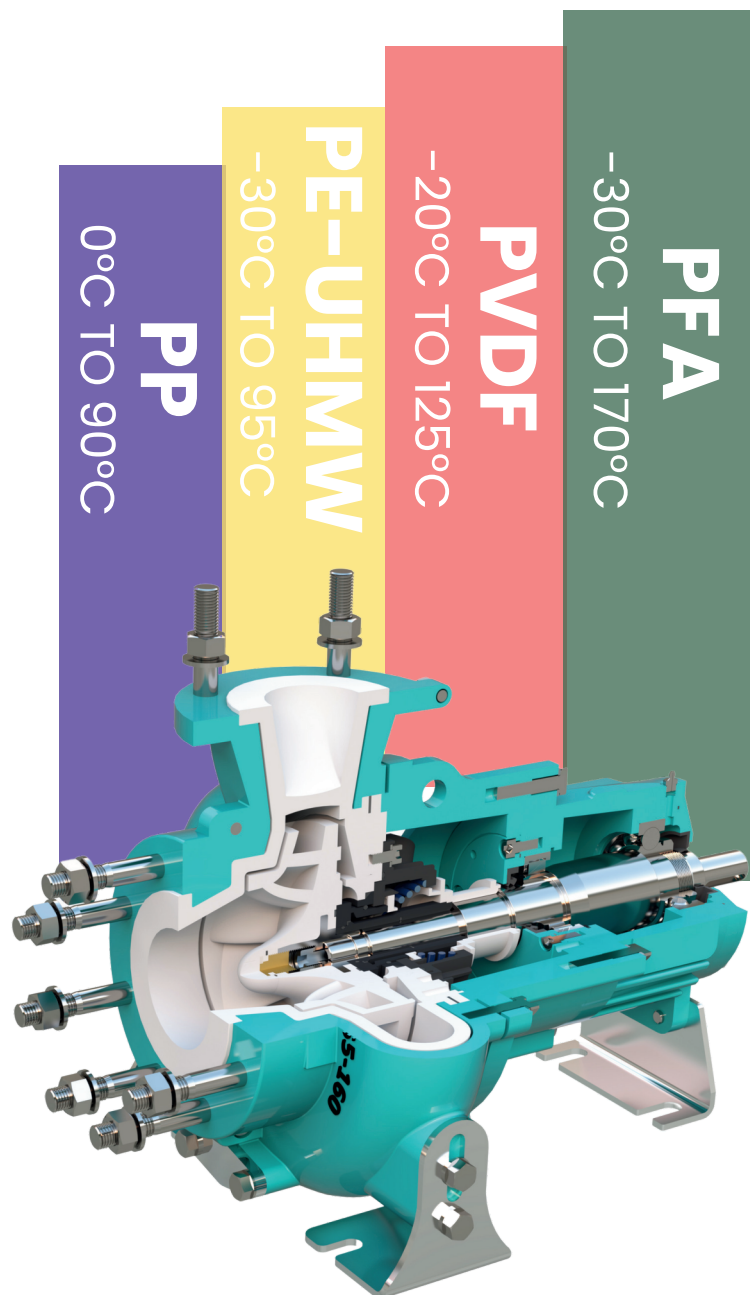
Completely non-metallic Internal Mounted Seal (**IMS**) mechanical seal design for corrosive & abrasive fluid services.

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 200 m ³ /hr
Head (H):	up to 100m
Opt. Temperature:	-30°C to 170°C
Opt. Pressure (p):	up to 16 bar
Discharge size:	DN 25 to DN 65



"Say goodbye to lengthy installation manuals and complex setups."

NKP GIANTICO Pumps

PFA

-30°C TO 170°C

PVDF

-20°C TO 125°C

PE-UHMW

-30°C TO 95°C

PP

0°C to 90°C

Mechanical Seal

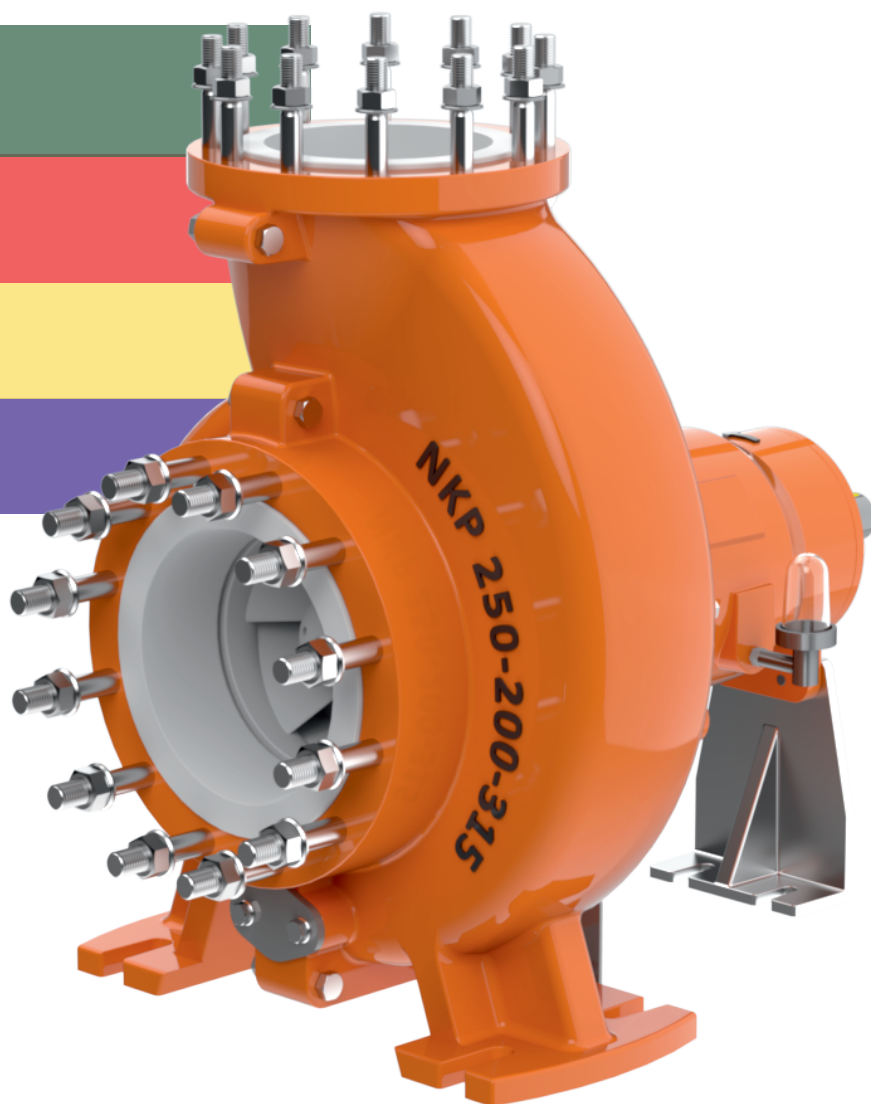
Completely non-metallic Internal Mounted Seal (**IMS**) mechanical seal design for corrosive & abrasive fluid services.

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 3500 m ³ /hr
Head (H):	up to 100m
Opt. Temperature:	-30°C to 170°C
Opt. Pressure (p):	up to 10 bar
Discharge size:	DN 200 to DN 400



"Reduce installation time by 95% with our pre-assembled components and intuitive setup."

ECO PP Horizontal Pumps

Economy Series

Economy Series include Compact Centrifugal Pumps in Polypropylene construction, extensively used for the circulation of various chemicals having an **externally mounted seal (Teflon bellow)** arrangement.

Duty Conditions

Capacity (Q):	up to 28 m ³ /hr
Head (H):	up to 28m
Opt. Temperature:	0°C to 75°C
Motor Rating	up to 2.2 kW

Jumbo Series

Jumbo Series include Compact Centrifugal Pumps in Polypropylene construction, extensively used for the circulation of various chemicals having an **externally mounted seal (Teflon bellow)** arrangement.

Duty Conditions

Capacity (Q):	up to 200 m ³ /hr
Head (H):	up to 65m
Opt. Temperature:	0°C to 75°C
Motor Rating	up to 30 kW

Standard Series

Standard Series include Compact Centrifugal Pumps in Polypropylene construction, extensively used for the circulation of various chemicals having an **externally mounted seal (Teflon bellow)** arrangement.

Duty Conditions

Capacity (Q):	up to 50 m ³ /hr
Head (H):	up to 50m
Opt. Temperature:	0°C to 75°C
Motor Rating	up to 15 kW



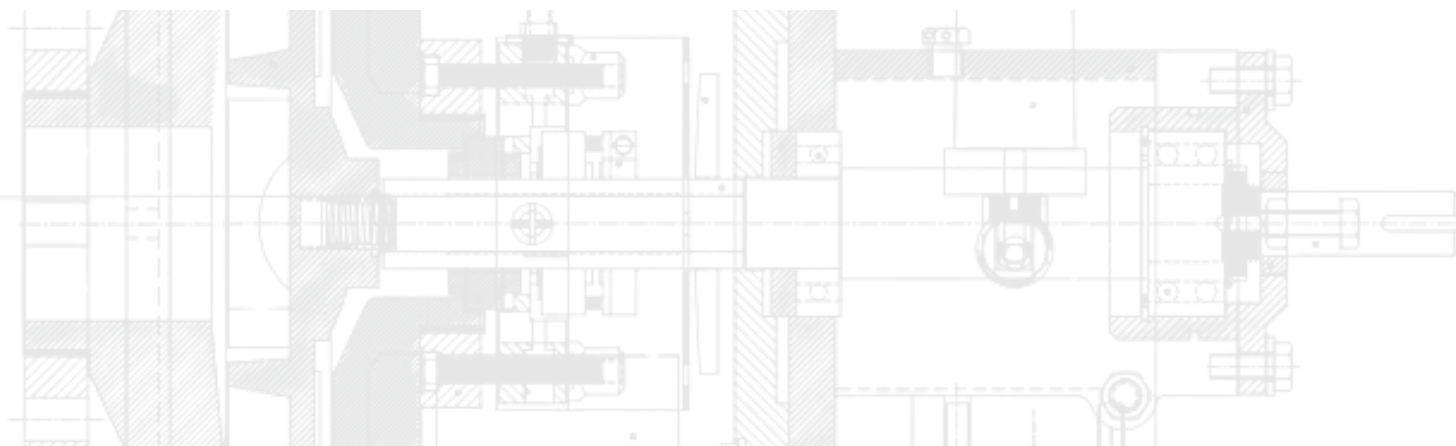
ECO PVDF Horizontal Pump

Main Material

PVDF is distinguished by its excellent general corrosion resistance. Its high resistance to stress cracks and its ability to resist UV. Its temperature range lies between -20°C To 120°C . This material is particularly suitable for the pumping of hydrofluoric acid at all concentrations up to boiling point, liquids containing halogens, nitric/hydrofluoric acid pickling solutions, and for the evaporation of waste hydrochloric acid. This series has an **externally mounted seal (Teflon bellow)** arrangement.

Duty Conditions

Capacity (Q):	up to 200 m ³ /hr
Head (H):	up to 90m
Opt. Temperature:	-20°C to 120°C
Motor Rating	up to 60 kW



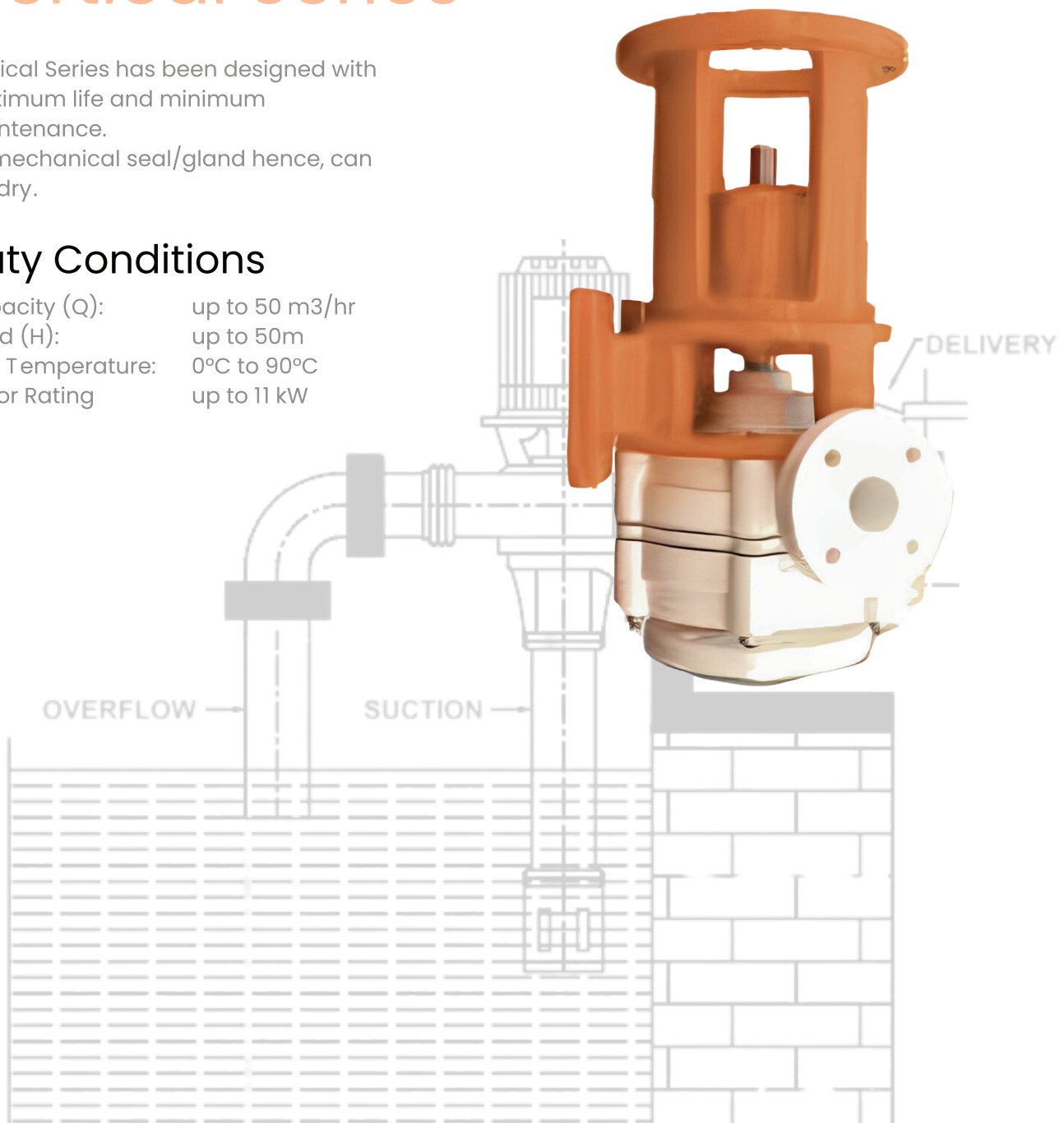
ECO PP Vertical Pump

Vertical Series

Vertical Series has been designed with maximum life and minimum maintenance.
No mechanical seal/gland hence, can run dry.

Duty Conditions

Capacity (Q):	up to 50 m ³ /hr
Head (H):	up to 50m
Opt. Temperature:	0°C to 90°C
Motor Rating	up to 11 kW



TNP Series

CANTILEVER TYPE VERTICAL

Setting Depth

Standard setting depths are 600 mm and 800 mm.
Suction pipe up to a length of 1600 mm.

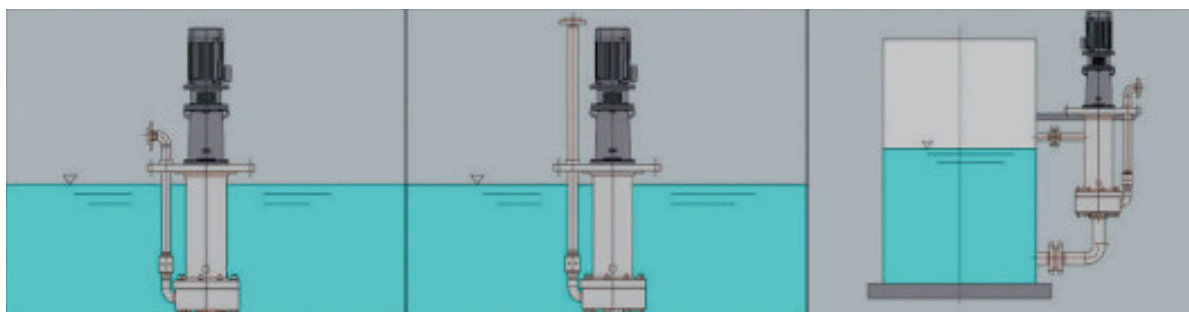
Duty Conditions

Capacity (Q):	up to 500 m ³ /hr
Head (H):	up to 60 m
Opt. Temperature:	-30°C to 125°C
Opt. Pressure (p):	up to 6 bar
Discharge size:	DN 25 to DN 150

PVDF
-20°C TO 125°C

PE-UHMW
-30°C TO 95°C

PP
0°C TO 90°C



“Pre-assembled for quick and trouble-free installation”

Projects & Partnership



“Building future on a foundation of trust ”

Projects & Partnership

Worley
energy | chemicals | resources

TATA

ZEPPELIN
WE CREATE SOLUTIONS

KBR

GEIST
WEALTH OUT OF WASTE

TOYO
ENGINEERING

Shroff
SPECIALIZED CONSULTANTS

L7

TEN TECHNIP
ENERGIES

QUANTA
SOLUTIONS OF INNOVATION

ESSES
Chemicals & Engineers LLP

KSJ
Simplifying Engineering Globally...

PROTECH
CONSULTANTS PVT. LTD.

ips
mehtalia
KNOWLEDGE, SKILL & PASSION

thyssenkrupp

SHIVA
ENGINEERING
SERVICES

“Building future on a foundation of trust ”

Chlor-Alkali Industries



Metal & Mining



Speciality & Fluoro Chemicals



Water & Waste Water Treatment

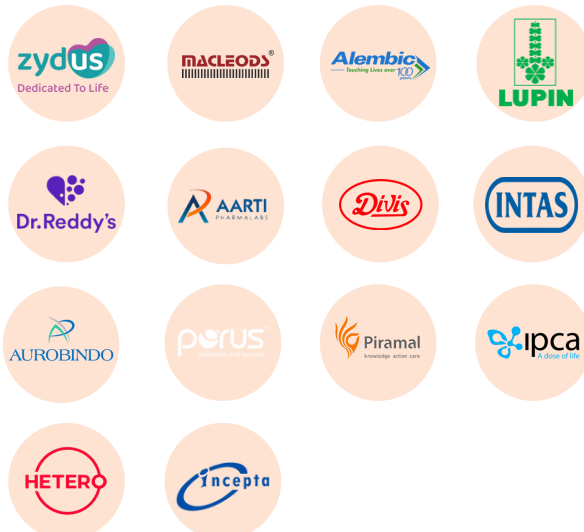


“Tailored solutions for ultimate satisfaction:
Your success, our mission.”

Agro-Chemical Industries



Pharma-Industry



Dyes & Intermediates



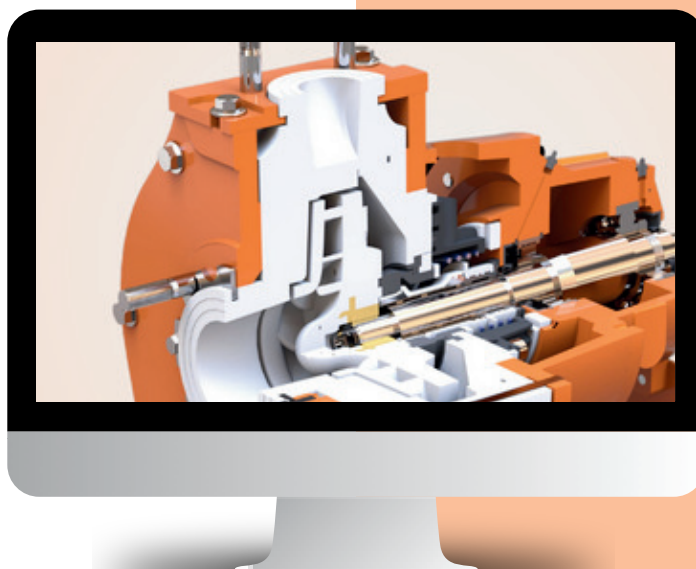
Bromine Industries



“Tailored solutions for ultimate satisfaction:
Your success, our mission.”

ALFA PUMPS provides an all encompassing service support, extending from the initial commissioning phase and operator training to product repair sessions and expedited delivery of spare parts.

Our Best & Honest Services



Interferes

Our sales and service teams will be pleased to look after your specific need.



Biometric

For us, it goes without saying that our competent service team is on call for you, worldwide.



24 Hours

We are available to you around the clock, no matter how intricate the task is.

Great Service Team

Our service team of experienced specialists has earned itself a reputation for locating trouble sources, finding solutions and restoring normal pump operation fast and efficiently.

01. Quick Estimate



We provide you quick estimate and less time consuming solutions on the spot to make process smooth.

02. In-Detail Reports



We provide and keep all required reports and records in electronic form, which helps our customers maintain their pumps even after years.

03. On-Site Advice



Our on-site advice offers our customers significant potential, moreover, our experienced application engineers give your team valuable tips for the safest pump operation.

04. Life Long Support



Our dedicated team is always on standby, for any type of support or customized requirement for your hazardous pumping applications.

BETTER
SERVICES



Established Clients in
25+ Countries



Preferred Choice for
1600+ Clients




Demonstrated expertise in
100+ Projects

“वसुधैव कुटुम्बकम्”




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Get in touch

