



COMPLETE PRODUCT PORTFOLIO

# Industrial pumping. Engineered as a system.

Metering pumps, engineered dosing systems and multi-brand fluid-handling solutions—from duty-point selection through commissioning and lifecycle support.

**ENGINEERED WITH INTENT. BUILT TO LAST.**

Nashik • Pune • Projects across India and overseas

01 / PARTNERSHIP

# One accountable route from duty point to delivery.

Petrox Engineering combines application-led procurement with VK Pumps manufacturing capability for metering and process-pump requirements.

## PETROX ENGINEERING

### Application & project interface

- Duty-condition review and application engineering
- Commercial coordination, documentation and committed follow-up
- Engineered dosing packages, sourced equipment and execution support
- Commissioning coordination, spares and after-sales continuity

## VK PUMP INDUSTRIES PVT. LTD.

### Metering-pump manufacturing

- Plunger and hydraulic-diaphragm metering pumps
- Simplex, duplex and multiplex process-pump configurations
- API-oriented engineered pump packages, where specified
- Manufacturing, testing and technical product support

02 / PORTFOLIO

# One portfolio. Two clearly defined capabilities.

A transparent structure that distinguishes VK Pumps' manufactured range from Petrox engineered and sourced solutions.

**VK PUMPS • OEM RANGE**

- 01 **Plunger metering pumps**
- 02 **Hydraulic diaphragm pumps**
- 03 **Multiplex process pumps**
- 04 **Pump heads, drives & spares**

**PETROX • ENGINEERED & SOURCED**

- 01 **HP / LP dosing systems**
- 02 **Centrifugal & screw pumps**
- 03 **Industrial agitators**
- 04 **Accessories, service & lifecycle support**

Selection begins with the fluid, flow and pressure—not a catalogue page.

03 / VK PUMPS • OEM

# Plunger metering pumps

Positive-displacement metering for accurate, repeatable chemical injection across industrial services.

- Mechanically actuated plunger construction for robust and serviceable operation.
- Manual or automated capacity control can be configured to suit the application.
- Liquid-end materials are selected against the handled chemical and process conditions.

**±1%**

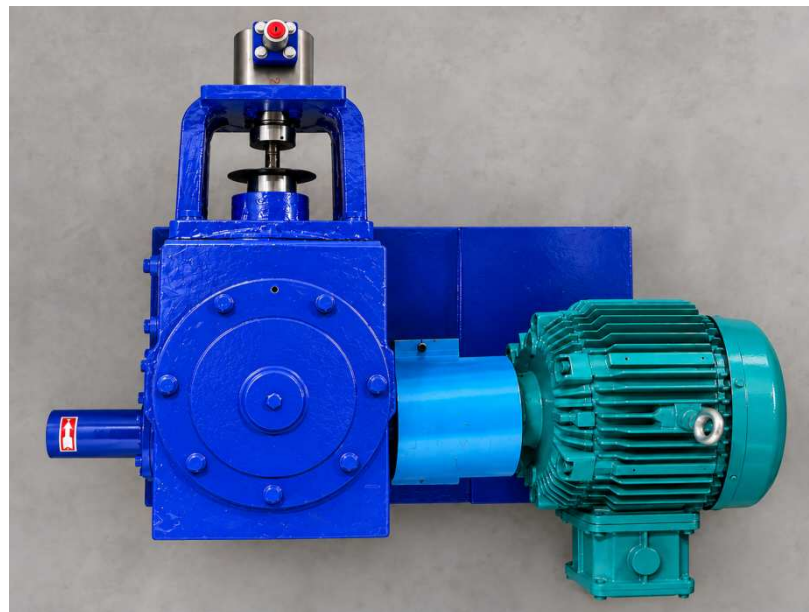
STEADY-STATE ACCURACY

**10:1**

TYPICAL TURNDOWN

**24/7**

INDUSTRIAL DUTY



REPRESENTATIVE VK PUMPS CONFIGURATION

04 / VK PUMPS • OEM

# Hydraulic diaphragm pumps

Leak-resistant metering architecture for critical, hazardous or high-pressure chemical duties.



REPRESENTATIVE CONFIGURATION

- Hydraulic diaphragm separates process fluid from the drive mechanism.
- Integral protection philosophy supports diaphragm and hydraulic-system reliability.
- Configured against pressure, capacity, fluid compatibility and area classification.

**API**

CONFIGURATIONS

**10:1**

CONTROL RANGE

**100%**

PROCESS ISOLATION

05 / VK PUMPS • OEM

# Multiplex process pumps

Engineered multi-head arrangements for high-flow, high-pressure and process-critical duties.

- Simplex, duplex, triplex and higher-order configurations according to duty and pulsation requirements.
- Common drive arrangements support compact, coordinated multi-stream pumping.
- Final limits depend on model, fluid, speed, materials and approved project conditions.

**40,000**

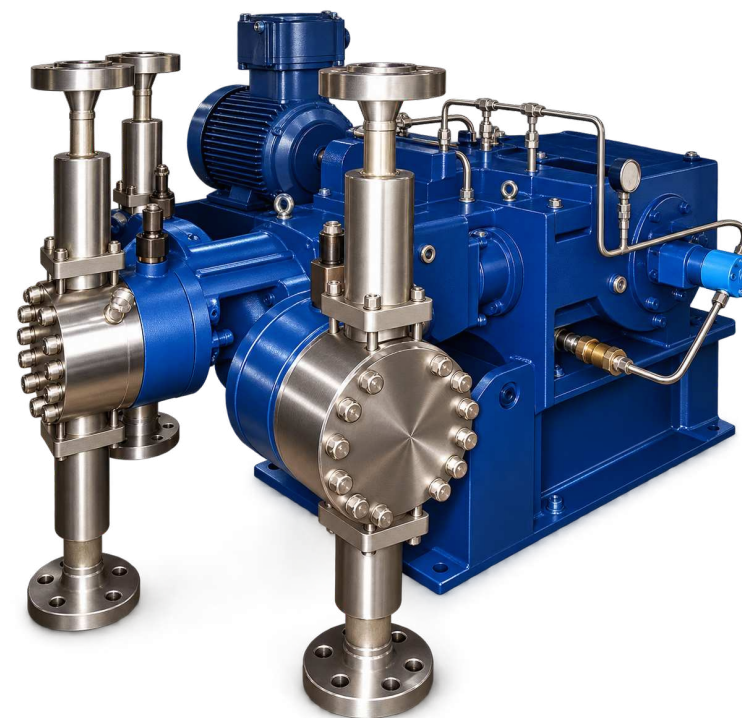
LPH • UP TO

**400**

BAR • UP TO

**API 674**

WHERE SPECIFIED



REPRESENTATIVE VK PUMPS MULTIPLEX CONFIGURATION

06 / PETROX ENGINEERED SYSTEMS

# Dosing packages built around the process.

Designed, assembled and tested by Petrox Engineering. Metering pumps by VK Pumps where selected for the approved duty.



## SYSTEM ARCHITECTURE

- 01 Storage / preparation**  
Tank, level indication and agitation as required.
- 02 Metering & control**  
Duty / standby philosophy, local panel and instruments.
- 03 Hydraulics**  
Manifolds, valves, dampener, calibration and injection hardware.
- 04 Package delivery**  
Base frame, piping, documentation, testing and dispatch.

07 / PETROX SOURCED SOLUTIONS

# Centrifugal pumps

Efficient, dependable transfer for water, chemicals, utilities and general industrial services.

- Selection based on the actual system curve, suction conditions and preferred operating range.
- Horizontal end-suction and other industrial configurations sourced to approved requirements.
- Motor, seal, baseplate and connection details coordinated as a complete supply.

**FLOW**

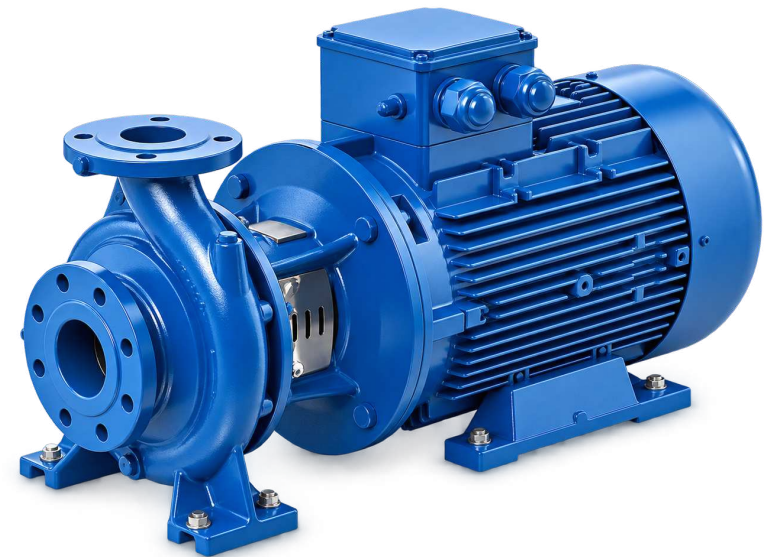
DUTY-POINT LED

**MOC**

FLUID COMPATIBLE

**MOTOR**

APPLICATION MATCHED

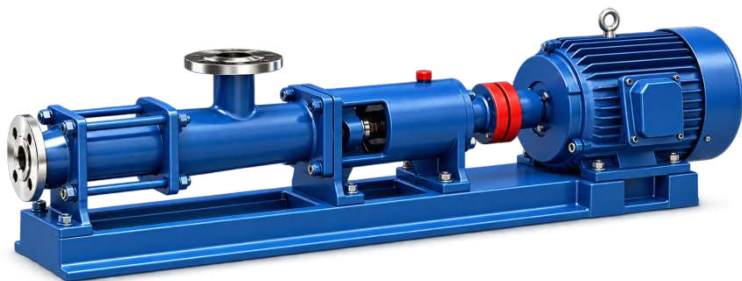


REPRESENTATIVE INDUSTRIAL CENTRIFUGAL PUMP

08 / PETROX SOURCED SOLUTIONS

# Screw pumps

Smooth positive-displacement transfer for viscous, shear-sensitive and lubricating fluids.



REPRESENTATIVE HORIZONTAL SCREW PUMP

- Technology selected around viscosity, solids profile, temperature and required differential pressure.
- Well suited to oils, fuels, polymers and other difficult-to-transfer process fluids.
- Drive, sealing and materials are matched to service conditions and maintenance needs.

**LOW**

PULSATION

**VISCOUS**

FLUID DUTIES

**STEADY**

DELIVERY

09 / PETROX SOURCED SOLUTIONS

# Industrial agitators

Application-matched mixing for preparation tanks, reactors and dosing systems.

- Selection considers tank geometry, viscosity, solids, mixing objective and batch volume.
- Top-entry configurations for blending, suspension, dissolution and chemical preparation.
- Shaft, impeller, motor, gearbox and mounting are coordinated as one engineered assembly.

**MIXING**

DUTY DEFINED

**IMPELLER**

APPLICATION LED

**SEALING**

PROCESS MATCHED



REPRESENTATIVE TOP-ENTRY AGITATOR

## 10 / ACCESSORIES

# The small components that protect the complete system.

Accessories are selected with the pump and process conditions to improve accuracy, operability and equipment life.

**PRV**

### PRESSURE PROTECTION

#### Pressure-relief and back-pressure valves

Controls over-pressure risk and supports stable discharge conditions.

**PD**

### PULSATION CONTROL

#### Pulsation dampeners

Reduces pressure ripple and protects downstream piping and instruments.

**CP**

### FLOW VERIFICATION

#### Calibration pots

Provides a practical reference for pump-capacity verification.

**YS**

### SUCTION PROTECTION

#### Y-strainers

Helps protect liquid ends from debris carried in the suction line.

**IQ**

### INJECTION HARDWARE

#### Injection quills and NRVs

Supports controlled chemical entry and reverse-flow prevention.

**PI**

### PACKAGE INTEGRATION

#### Gauges, manifolds and isolation

Specified together for safer operation and maintainable package layouts.

11 / LIFECYCLE SUPPORT

# Support that continues after the purchase order.

Responsive technical coordination—from commissioning and troubleshooting to recommended spares and repeat procurement.



- 01 **SELECT**  
Duty review, compatibility and configuration
- 02 **DELIVER**  
Documentation, inspection and dispatch support
- 03 **COMMISSION**  
Installation checks and operating guidance
- 04 **SUSTAIN**  
Spares, troubleshooting and replacement planning

12 / APPLICATIONS

# Built for demanding industrial duties.

Product selection is aligned to fluid properties, operating conditions, control philosophy and project documentation requirements.

**01 WATER & WASTEWATER**

Chemical dosing, pH correction, disinfection

**02 PHARMACEUTICALS**

Controlled dosing and sanitary process support

**03 CHEMICALS**

Corrosive, viscous and hazardous-fluid duties

**04 OIL & GAS**

Chemical injection and process-pump packages

**05 FOOD & BEVERAGE**

Ingredient, additive and cleaning applications

**06 POWER**

Boiler-water treatment and utility dosing

**07 FERTILIZERS**

Process chemicals and utility services

**08 CONSTRUCTION**

Dewatering, transfer and water systems

## 13 / CUSTOMER REFERENCES

# Trusted by customers in India and overseas.

A representative selection from VK Pumps' installed base and supplied projects, supported by Petrox for new requirements and project coordination.

### DOMESTIC CUSTOMERS

|    |                         |    |                                    |
|----|-------------------------|----|------------------------------------|
| 01 | BHEL                    | 12 | Oil India Limited                  |
| 02 | NTPC                    | 13 | Thermax                            |
| 03 | BPCL                    | 14 | Heavy Water Plants                 |
| 04 | IOCL                    | 15 | Nuclear Fuel Complex               |
| 05 | CPCL                    | 16 | Nuclear Power Corporation          |
| 06 | BARC                    | 17 | Gujarat Narmada Valley Fertilizers |
| 07 | ONGC                    | 18 | Gujarat Fluorochemicals            |
| 08 | IFFCO                   | 19 | Indian Petrochemicals              |
| 09 | Reliance Industries     | 20 | BGR Energy                         |
| 10 | ESSAR Power / Refinery  | 21 | L&T                                |
| 11 | Engineers India Limited | 22 | Cairn India                        |

### OVERSEAS CUSTOMERS

|    |                                          |    |                                               |
|----|------------------------------------------|----|-----------------------------------------------|
| 01 | Yusuf Bin Ahmed Kanoo & Co. - Oman       | 09 | Abu Dhabi Pipe Factory LLC - UAE              |
| 02 | Positive Metering Systems Int. Ltd. - UK | 10 | Eastern Sea Company Ltd. - Vietnam            |
| 03 | Haskel Energy Systems Ltd. - UK          | 11 | West Kenya Sugar Co. Ltd. - Kenya             |
| 04 | Indo-Jordan Chemicals Co. Ltd. - Jordan  | 12 | Asia Pacific Solutions Pte. Ltd. - Singapore  |
| 05 | Aquachemie GT LLC - Dubai                | 13 | Alexandria Sugar Co. - Saudi Arabia           |
| 06 | PT South Pacific Viscose - Indonesia     | 14 | National Cement Co. - Yemen                   |
| 07 | Sahacogen Green Co. Ltd. - Thailand      | 15 | KL Oil & Gas Co. Ltd. - Vietnam               |
| 08 | RCLL Trading Corporation - Philippines   | 16 | Praj Marine Consultants Pte. Ltd. - Singapore |

Representative customer names reproduced from VK Pumps source material. Project references can be shared subject to availability.

14 / QUALITY & DOCUMENTATION

# Confidence is built into the handover.

Project documentation is aligned to the selected equipment, agreed scope and customer inspection requirements.



## ISO 9001:2015

Quality-management framework at VK Pump Industries.

## API-ORIENTED SUPPLY

Applicable pump configurations and documentation, where specified.

## INSPECTION & TESTING

Agreed checks, test records and release documentation.

## TRACEABLE SUBMITTALS

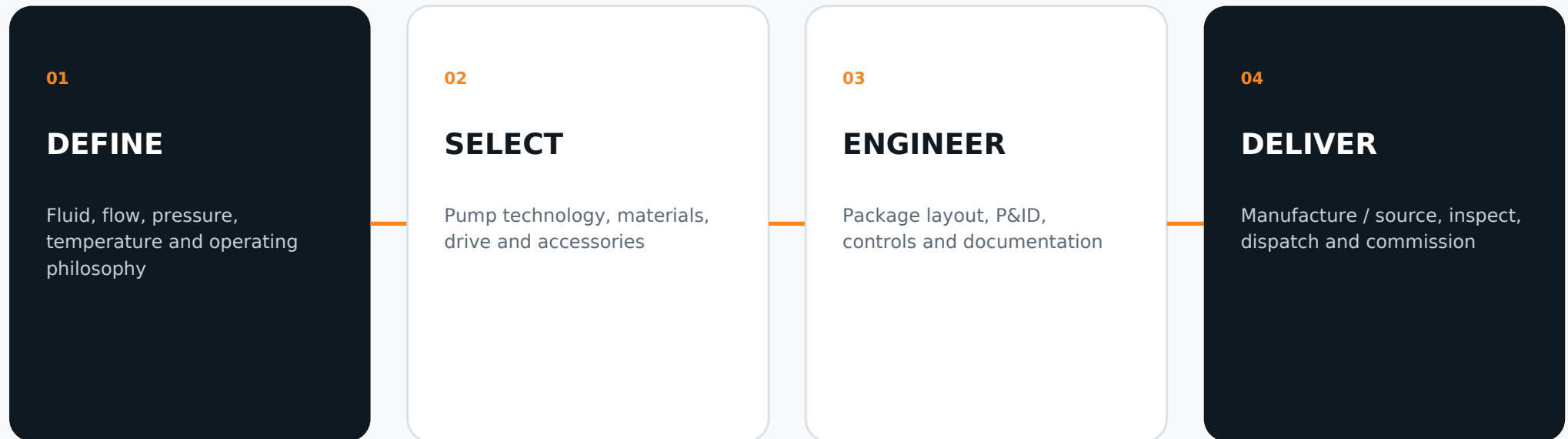
Datasheets, drawings, manuals and certificates as applicable.

Certification and documentation supplied are product- and order-specific.

15 / HOW WE WORK

# Every enquiry starts with the duty conditions.

A concise engineering process that makes selection clearer, approvals faster and project ownership visible.



**SEND WITH YOUR ENQUIRY**

Fluid • required flow • discharge pressure • temperature • wetted-material preference • hazardous-area requirement

LET'S DEFINE THE RIGHT SOLUTION.

# Bring us the duty. We'll engineer the route forward.

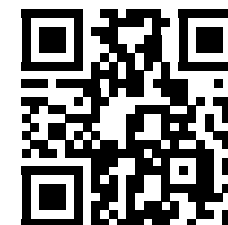
For metering pumps, dosing packages, centrifugal and screw pumps, industrial agitators, accessories, spares and service.

**MADHUR KUMAR • FOUNDER & DIRECTOR**

**+91 97551 45199**

[madhur.kumar@petroxengineering.com](mailto:madhur.kumar@petroxengineering.com)

[petroxengineering.com](https://petroxengineering.com)



SCAN TO VISIT

**PETROX ENGINEERING PRIVATE LIMITED**

Nashik, Maharashtra • Project execution support from Pune