

**AUTHORISED CHANNEL PARTNER**



Enriching Lives

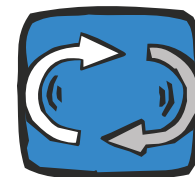
ENGINEERING  
TOMORROW



**VLT | VAGON**



**LOCTITE**



rotomotive



10°C TO 305°C  
**THERMINOL - 55**  
SYNTHETIC THERMIC FLUID



**PERFECT INDUSTRIAL SERVICES**

1st Floor, Gala No.5 Plot No : 1A, Survey No.66/1, Danudhog Sahakari Sangh Ltd, Opp. Piparia Police Str.

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Title Back



**PERFECT INDUSTRIAL SERVICES**

INDUSTRIAL SUPPLIERS & CONSULTANTS



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Title Front





We are an Engineering Business Firm Well Backed Up By Group of Experienced Engineer Having Hands-on Experience of Industrial Products For More Than Two Decades.

We Have Operations in Segments

**1. THERMAL DIVISION**

SYNTHETIC THERMIC FLUIDS, STF TRANSFER PUMP, IBR VALVES, ELECTRIC HEATERS & THERMOPACK BOILERS

**2. PROCESS AND PLUMBING DIVISION**

INDUSTRIAL PROCESS & UTILITY PUMPS & VALVES, CONTROL VALVES AND AUTOMATION, HVAC, FIRE FIGHTING

**3. ELECTRONICS, POWERING EQUIPMENTS & AUTOMATION DIVISION**

VFD, HARMONIC FILTER, SOFT STARTER, PLC, CONTROL PANELS, AC, DC MOTORS

**4. POWER TRANSFERRING DIVISION**

GEAR BOX, COUPLINGS & SPECIAL MOTORS

**5. AID IN MAINTENANCE DIVISION**

ADHESIVES, SEALANTS, GASKETING, TREAD LOCKING

**6. SERVICE DIVISION**

REPAIRING & SERVICE PROVIDED FOR PUMP, MOTOR, VALVE, VFD, SS, HF

**7. APPLICATION ENGINEERING & ENERGY AUDIT DIVISION**

CHECKING THE RIGHT PRODUCT FOR THE RIGHT APPLICATION & ENERGY SAVING IN PUMPING, HOT OIL CIRCULATION THROUGH ENERGY EFFICIENT MOTOR & VFD

We Have The Business Association on Exclusive Basis for The Following Products :

1. **KIRLOSKAR BROTHERS LTD.** - Pioneer Institute of Pump & Valve Technology in India & abroad
2. **DANFOSS INDUSTRIES PVT. LTD.** - Pioneer in VFD Technology in the GLOBE
3. **SOLUTIA CHEMICALS (I) PVT. LTD.** - Leading Global Synthetic Thermic Fluid (THERMINOL) Company
4. **KIRLOSKAR ELECTRIC CO. LTD.** - Leaders in Motoring Technology in India
5. **ROTOMOTIVE POWERDRIVES LTD.** - Leaders in Worm, Helical Gear Boxes & Motors
6. **HENKEL ADHESIVES TECHNOLOGIES INDIA PVT. LTD.** - Pioneer in Adhesives & Sealants Technology
7. **RADAN HEATCORE IND** - Pioneer in Electrical Heater Technology in India

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Front Inner



**OUR CLIENTELE**



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Back Inner





KIRLOSKAR BROTHERS LTD.



### Horizontal Split Case Single Stage Pump - UP/UPL/UPH



**Application :** Cooling Towers, Water Circulation, Paper, Sugar, Textile Industries, Power Stations

#### Operating Range

Delivery Size	Up to 1220 mm
Capacity	Up to 24,000m <sup>3</sup> /hr
Head	Up to 180 Meters

### Horizontal Split Case Single Stage Pump - SCT/EXTENDED



**Application :** Water Works, Irrigation, Fire-Fighting, Air Conditioning Plants, Processing Plants

#### Operating Range

Delivery Size	Up to 350 mm
Capacity	Up to 4000m <sup>3</sup> /hr
Head	Up to 240 Meters

### End Suction Utility Pump- CPHM



**Application :** Power Station, Mine Drainage, Lift Irrigation, Fire Fighting, Pumping Brine, Alkaline Solutions, Oils, Benzene etc.

#### Operating Range

Delivery Size	32 to 150 mm
Capacity	Up to 470 m <sup>3</sup> /hr
Head	Up to 150 m

### Submersible Sewage Pumps Type - NS



**Application :** Sewage, Industrial Waste Water, Storm water, Trench & Tunnel Water, Drain Water, Mine Water etc.

#### Operating Range

Delivery Size	Up to 300 mm
Capacity	Up to 1800 m <sup>3</sup> /hr
Head	Up to 90 m

### Horizontal Split Case Pump – DSM (Two Stage)

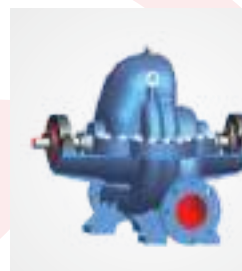


**Application :** Higher Head Water Works, Power Stations, Mines, Drainage, Lift Irrigation, Fire Fighting, Paper and Sugar Mills etc.

#### Operating Range

Delivery Size	50 mm to 150 mm
Capacity	9 m <sup>3</sup> /hr to 470 m <sup>3</sup> /hr
Head	13 m to 180 m

### Horizontal Split Case Pump i-HT (Single/Double)



**Application :** Fire-Fighting, HVAC, Mines, Steel, Paper Plant For High Pressure Application

#### Operating Range

Delivery Size	Up to 300 mm
Capacity	30-1300 m <sup>3</sup> /hr
Head	30 to 250 Meters

### Vertical Turbine Pumps Type - BHR/BHQ/BHM/BHMa/BHA



**Application :** Thermal and Nuclear Power Plants, Steel, Cement, Chemical, Refineries Handling Sea Water on Off-Shore Platforms, Dry-Docks Fire Fighting, Flood Control

#### Operating Range

Delivery Size	Up to 2200 mm
Capacity	Up to 5500 m <sup>3</sup> /hr
Head	Up to 240 m

### Horizontal / Vertical Multistage Pump Type : RKB/RKBV FOR GP OR MECHANICAL SEAL



**Application :** Fire Fighting, Water Supply in high rise buildings, Descaling, Mine Dewatering, Booster, Service, Condensate and Boiler Feed, Pumping of Light Chemicals

#### Operating Range

Delivery Size	Up to 250 mm
Capacity	Up to 750 m <sup>3</sup> /hr
Head	Up to 580 m

### Mixed Flow Pump - MF (SEMI OPEN)



**Application :** Large Quantities of Liquid With Impurities Low/Medium Heads, Drainage Water, Storm Water, Sea Water

#### Operating Range

Delivery Size	Up to 650 mm
Capacity	Up to 7,000 m <sup>3</sup> /hr
Head	Up to 30 m

### End Suction Utility Pump-DB



**Application :** Air Conditioning Plants, Textile, Industrial Plants, Paper and Pulp Mills.

#### Operating Range

Delivery Size	Up to 150 mm
Capacity	Up to 550 m <sup>3</sup> /hr
Head	Up to 100 m

### End Suction Process Pump - KPD/KPDQF/KPDJ



#### Features

- GP or Mechanical Seal Fitted, Oil Lubricated Bearings, Enclosed & Semiopen Impeller
- Available in All MOC as Desired (CI/CF8M, Bronze, 2.5%NiCl, Duplex, Super Duplex etc)

**Application :** Chemical Process Industries, Petro-Chemical Nuclear Refinery, Fertilizer, Paper, Sugar, Corrosive Acids, Alkalies, Salt Solutions, Caustics, Hydro Carbons, Oils, Liquefied Gases, Condensates, Viscous Liquids, etc.

#### Operating Range

Delivery Size	Up to 350 mm
Capacity	Up to 1550 m <sup>3</sup> /hr
Head	Up to 225 meters
Working Pressure	16 - 25 bar
Temperature	(-) 50 C to 180 C

### End Suction Utility Pump-DB-Large



**Application :** Water Supply, Irrigation, Prawn Farming

#### Operating Range

Delivery Size	150 to 300 mm
Capacity	Up to 2100 m <sup>3</sup> /hr
Head	Up to 42 m

### End Suction Utility Pump-CE



**Application :** Air Conditioning Plants, Textile Mills, Industrial Plants For Pumping, Screening Water For Paper and Pulp Mills.

#### Operating Range

Delivery Size	32 to 125 mm
Capacity	Up to 660 m <sup>3</sup> /hr
Head	Up to 100 m

### Sump Pump - KPDS (Sump Pump)



**Application :** Petrochemicals, Refinery, Fertilizer and Power Industries Like Transfer of Acids, Alkalies, Solvent Oil etc.

#### Operating Range

Delivery Size	20 mm to 150 mm
Capacity	0.5 to 560 m <sup>3</sup> /hr
Head	Up to 150 meters

### Water Cooled CLM Thermic Fluid Pump - KPDT



**Application :** Handling Thermic Fluids or Liquid up to 3500 C, Available in ALL MOC as Desired (Cast Steel, CF8, CF8M, Alloy 20, R55, CN7MS, MONEL, CD4MCu, Hastalloy C, etc.

#### Operating Range

Delivery Size	Up to 200 mm
Capacity	Up to 900 m <sup>3</sup> /hr
Head	Up to 200 Meters





### Air Cooled Thermic Fluid Pump - AT



**Application :** Handling Thermic Fluids or Liquid up to 350° C

#### Operating Range

Delivery Size	32 to 80 mm
Capacity	Up to 250 m³/hr
Head	Up to 100 Meters

### End Suction - GK (P) Process Pump Conical Stuffing Box



**Application :** Acids / Alkalies, Hydrocarbons, Oils Various Process Chemicals, Food Processing Units

#### Operating Range

Delivery Size	Up to 150 mm
Capacity	Up to 500 m³/hr
Head	Up to 150 Meters

### Sealless, Glandless Zero Leakage Pump - i-CP



**Application :** Light Chemicals Like Caustic Soda, Weak Acids, Food & Beverage Industries (Sugar, Vegetable Oils, etc.), Hot Water, Brine, DM Water, Lime Water, etc.

#### Operating Range

Capacity	Up to 180³/hr.
Head	Up to 55 Meters
Temperature	Up to 90°C

### Boiler Feed Pump - MSS / MSSH (KEPL Range High Pressure)



**Application :** **MSS:** Low Pressure Boiler Feed Applications, Low Pressure Applications in Light Chemical Plants **MSSH:** Medium Pressure Boiler Feed Applications, Medium Pressure Applications in Light Chemical Plants

#### Operating Range

Capacity	Up to 270³/hr.-MSS Up to 550³/hr.-MSSH
Head	Up to 550 m - MSS Up to 850 m - MSSH

### Solid Handling Pump - SHM



**Application :** Sludge & Paper Pulp, Sewage / Waste Water, Viscous Liquids / Fibrous Material / Contaminated Process Liquids, Bagasse / Strained / Unstrained Juice

#### Operating Range

Delivery Size	200 mm
Capacity	Up to 800 m³/hr
Head	Up to 90 Meters

### Solid Handling Sump Pump - SHS



**Application :** Liquids with Solids in Suspension, Sludge & Pulpy Material, Industrial Waste Handling, Liquid Containing Fibrous & Powdered Material, Coal Tar

#### Operating Range

Delivery Size	Up to 300 mm
Capacity	Up to 1500 m³/hr
Head	Up to 90 Meters

### Pressure Boosting (HYPN) System



The Hydro Pneumatic (HYPN) Pressure Boosting System Keeps Desired Pressure in The Pipeline at Par With The Demand From Multiple Loads. These Kind of Systems are Useful in Case of Varying Water Requirements. The Total Water Requirement is Divided By Multiple Pumps, Which Run in Parallel With Variable Speed Drives To Optimise Energy.

**Application :** Textile-Providing Water (Cold & Hot) To Dyeing & Washing Machines, Bottling or Liquid Filling Plants-Filling of Vessels, Vessel Cleaning, Process & Pharma Plants-Reactor Cooling, Eye Washer & Body Shower, Steel Plants-Cooling Circuits, Leather Industry-Washing Application, Sugar Industries-Water Injection Pumps, PVC Industries-Machine Cooling / Mould Cooling

### Boiler Feed Pumps - SS/SSD



**Application :** High Pressure Applications In Boiler Feed, Mine, Drainage, Water Treatment Plant Applications

#### Operating Range

Capacity	Up to 650 m³/hr
Head	Up to 2500 m
Working Pressure	Up to 17 Bar

### Condensate Extraction Pump - RKB-CV / BHRC



**Application :** Handling Steam Condensate in Industrial / Power Plant

#### Operating Range

Delivery Size	Up to 500 mm
Capacity	Up to 2200 m³/hr
Head	Up to 350 Meters
Temperature	Up to 120°C

### Side Channel Flow Pump - CF



**Application :** Chemical and Process Industry Handling Liquid and Gas Mixture, LPG and Other Petroleum Products, Used for high Suction Lift for Low NPSHR, Boiler Feed

#### Operating Range

Delivery Size	Up to 50 mm
Capacity	Up to 20 m³/hr
Head	Up to 315 Meters
Working Pressure	40 Bar
Temperature	- 40°C to 120°C

### End Suction Monobloc Pump - KDS/KDI



**Application :** Irrigation and Fire Fighting, Water Supply Use in Apartments, Buildings, Commercial Complexes and Hotels.

#### Operating Range

Delivery Size	Up to 150 mm
Capacity	Up to 160 m³/hr
Head	Up to 76m

### End Suction Double Stage Monobloc Pump - KDT+



**Application :** Industries, Sprinkler/Conventional Irrigation, Water Supply for Domestic use in Apartments, Buildings, Commercial Complexes and Hotels, Refrigeration and Air-Conditioning Systems

#### Operating Range

Capacity	Up to 30.4 LPS
Head	Up to 110m
Power Rating	3.7 - 15 KW

### Magnetic Drive Pump - ROMAK



**Application :** Sealless, Glandless Pump Suitable For Chemicals - Paints, Solvents, Intermediaries, Resin, Polymers, Pharmaceuticals, Petrochemicals, Clean/Clear Liquids Without any Suspended Particles

#### Operating Range

Delivery Size	Up to 100 mm
Capacity	Up to 300 m³/hr
Head	Up to 150 Meters

### Canned Motor Pump - i-CM



**Application :** Liquefied Gases (e.g. Ammonia, Freons, Carbon Dioxide, 90°C), Aggressive / Toxic /Explosive / Hazardous / Flammable Chemicals (Sulphuric Acid, Nitric Acid, Hydrofluoric Acid, Hydrocyanic Acid, Ethanoic Acid, Formic Acid, etc.)

#### Operating Range

Delivery Size	32 to 50 mm
Capacity	4 to 80 m³/hr
Head	Up to 60 Meters

### 1450 RPM End Suction Monobloc Pump - KS+



**Application :** Industries, Sprinkler/Conventional Irrigation, Water Supply for Domestic use in Apartments, Buildings, Commercial Complexes and Hotels, Refrigeration and Air-Conditioning Systems.

#### Operating Range

Capacity	Up to 72.5 LPS
Head	Up to 22 meters
Power Rating	2.2 - 7.5 KW

### Open Well Submersible Pump Type KOS



**Application :** Submersed Pump in Well, Sumps & Water Tanks, Water Circulation in Industry, Gardening & Sprinkler / Conventional Irrigation.

#### Operating Range

Capacity	33 to 2.1 LPS
Head	10 to 72 Meters
Power Rating	2.2 - 15 KW





### Vacuum Monoblock Pump Type KV



**Application :** Priming of Large Pumps, Evacuation of Air From Suction Pipes & Chambers, Twist Drilling Machine, Removing Water From Pulp Layer, Labeling, Bottle Filling, Deodorising, Drying, Evaporation, Distillation, Filtration, Sterilisation, Condensation Degasification, Extrusion / Printing / Confectionery Machines

#### Operating Range

Vacuum	Up to 660mm of Hg
Air Flow Rate	Up to 162 m <sup>3</sup> /Hr
Power Rating	0.75, 2.2, 3.7, 7.5 KW

### Centrifugal SS Monoblock Pumps Type - KSMB



**Application :** Pharmaceutical, Plastic, Food Processing, Chemical Industry, DM Water Plant, HVAC, Cooling Towers, Boilers & Condensation Systems, Dairy and Beverage Industry

#### Operating Range

Capacity	30 to 105 LPM
Head	10 to 46 Meters
Power Rating	0.75 - 7.5 KW

### In Line Vertical Multistage Pump Type KSIL/KCIL



#### Application :

Filtration, Pressure Boosting in High rise Buildings, Hotels, Industries, Boiler Feed & Condensate Systems, RO Systems, Softening, Ion Exchange, DM, Fire Fighting, HYPN Systems, HVAC Systems.

#### Operating Range

Capacity	0.4 to 28 M <sup>3</sup> /hr
Operating Pressure	25 Bar

### Fire Hydrant Jockey & Engine / Motor Driven Pumpset



**Features :** Fire Pump Packages Diesel Engine Driven Pumpset, Main Fire Pump, Diesel Engine, Engine Controller, Jockey Pump With Controller Fm Approved / UI Listed

### End Suction Self Priming Non Clog Semi - Open Impeller Solid Handling Pump Type - SP



**Application :** Chemical Process, Pharma, Distilleries & Breweries, Sugar, Food Process, Cement As ETP Sewage Water Transfer, Paper & Pulp, Sewage, Sludge, Slurries

#### Operating Range

Capacity	Up to 73 LPS
Head	UP 44 Meters
Power Rating	0.37 to 18.5 KW



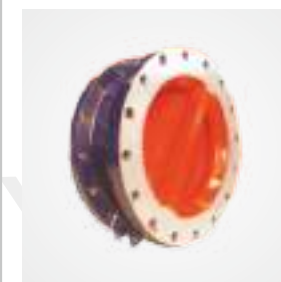
### Cast Iron Sluice Valve (Non-Rising & Rising Spindle)



**Application :** Water Works, Water / Effluent / Sewage Treatment Plant, Fire Fighting, Power

**Range :** As Per IS : 14846 : Size 32 to 1500mm (Non-Rising & Rising), As per BS : 5163 : Size 50 to 600mm (Non-rising), Pressure Rating : PN1.6

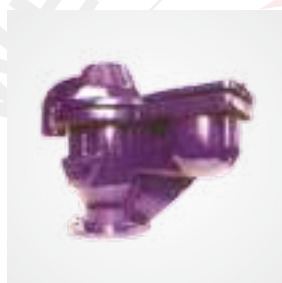
### Dual Plate Check Valve



**Application :** Used in Water Works Pipeline to Reduce Water Hammer Effects, Preventing Back Flow of Liquid to The Pump, Water Supply & Irrigation Schemes, Power Plants, Chemical & Petrochemical Plants

**Range :** Conforming to API 594 Size 50 to 1500mm, Pressure Rating Up to PN16/Class 300

### Air Valve



**Application :** Releasing Air when Water Mains are Being Filled & Admit Air While Mains are Being Emptied, Preventing Loss of Water When Water Mains are Full, Releasing Air Accumulated Under Pressure During Normal Working Conditions in Pipe, Ideally Suited For Turbid or Clear Water-Sewage

**Range :** Conforming to IS:14845/AWWA Size 50 to 250mm for Double Orifice, Size 25 & 40mm for Single Air Valve Pressure Rating Up to PN1 & PN1.6

### Foot Valve (Swing Type)



**Application :** Used in Suction Side of Pump to Avoid Flow Reversal from Pump to Sump, Preventing Entry of Foreign Body in to Pump Through Suction Pipe

**Range :** Conforming to IS: 4038/Size 50mm to 450mm - Cast Iron/Size 500 & 600mm - Fabricated, Pressure Rating:PN0.2

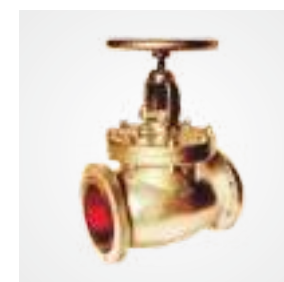
### Cast Steel Gate Valve



**Application :** Naphtha and Naphtha Derivatives in Oil Refineries, Water, Steam, Air, Gas & Liquids Having Corrosive Properties, Suitable for Wide Range of Working Condition of Pressure & Temperature Ratings

**Range :** Conforming to API 600/Class 150# Size 50 to 750mm, Class 300 # Size 50 to 600mm, Class 600# Size 50 to 350mm

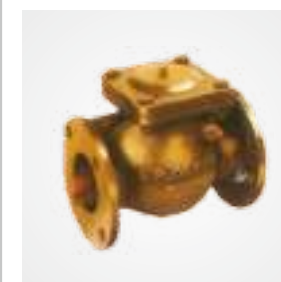
### Cast Steel Globe Valve



**Application :** Naphtha and Naphtha Derivatives in Oil Refineries, Water, Steam, Air, Gas & Liquids Having Corrosive Properties, Suitable for Wide Range of Working Condition of Pressure & Temperature Ratings

**Range :** Conforming to BS 1873/Class 150# Size 25 to 400 mm, Class 300 # Size 25 to 400 mm, Class 600# Size 50 to 300mm

### Cast Steel Check Valve



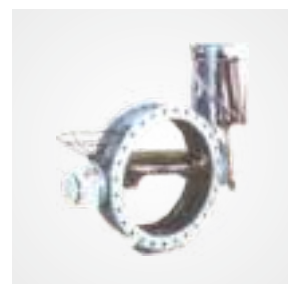
**Application :** Naphtha and Naphtha Derivatives in Oil Refineries, Water, Steam, Air, Gas & Liquids Having Corrosive Properties, Suitable for Wide Range of Working Condition of Pressure & Temperature Ratings

**Range :** Conforming to BS 1868/Class 150# Size 25 to 700mm, Class 300 # Size 65 to 700mm, Class 600# Size 100 to 450mm





### Butterfly Valve



**Application :** Ideal for Throttling as Well as Isolation, Power Plants, Chemical & Petrochemical Plants, Water Works, Water / Effluent / Sewage Treatment Plant

**Range :** Conforming to IS:13095 / BSEN593 (Bs5155) / AWWA C504:Size 65 to 3600 mm for Eccentric Type & Size 50 to 600 mm for Centric Type, Pressure Rating Up to PN1.6/Class 250

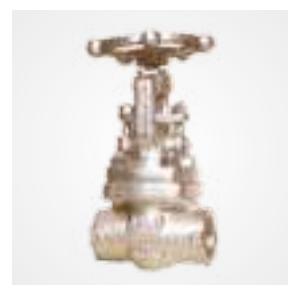
### Cast Iron Reflux (Non Return) Valve (Swing Type)



**Application :** Used in Water Works Pipeline to Reduce Water Hammer Effects, Preventing Back Flow of Liquid to The Pump

**RANGE :** Conforming to IS:5312 Part-1: Size 40 to 700mm, Pressure Up to PN1.6

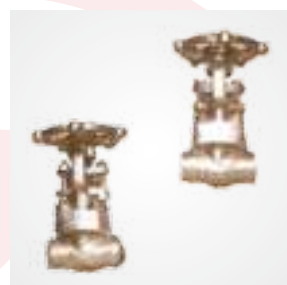
### Forged Steel Gate Valve



**Application :** Refineries & Petrochemical Industries, Fertilizer Plant, Thermal Power Plant & Other Process Industries

**Range :** Size 8 to 50mm, Pressure Class 800#

### Forged Steel Globe Valve



**Application :** Refineries & Petrochemical Industries, Fertilizer Plant, Thermal Power Plant & Other Process Industries

**Range :** Size 8 to 50mm, Pressure Class 800#

### Forged Steel Check Valve



**Application :** Refineries & Petrochemical Industries, Fertilizer Plant, Thermal Power Plant & Other Process Industries

**Range :** Size 8 to 50mm, Pressure Class 800#

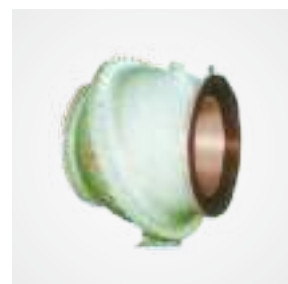
### Ball Valve



**Application :** Suitable for Core Process Industries, Air, Oil, Steam, Gas for Tight Shut Off & On-Off

**Features :** 2/3 Piece Full Bore or Reduced Bore Design with Flanged, Screwed, Socket Weld Ends

### Multi Door Reflux (Non Return) Valve (Swing Type)



**Application :** Used in Water Works Pipeline to Reduce Water Hammer Effects, Preventing Back Flow of Liquid to The Pump

**Range :** Conforming to IS:5312 Part-2: Size 500 to 1500mm, Pressure Up to PN1.6

### Energy Efficient Steam Trap Device



**Application :** For Every Industry Using Steam Lines

**Features :** Internationally Patented Design for Minimum Loss of Live Steam, Multi Concept, High Energy Saving, Efficient Impulse Cum Thermodynamic Steam Trapping Device, Ends-Screwed/Flanged End



DANFOSS INDUSTRIES PVT. LTD.



### VLT Automation FC 302/301



#### Features and Benefits

- Ambient Temperature is 50°C Without De-Rating
- Smart Logic Control (SLC) Reduces the Need of PLC
- Back-Channel Cooling for Frames D, E and F
- Plug-in Technology
- Integrated Motion Controller
- Intelligent Heat Management, Safe Stop and Safe Torque Off

#### Applications :

Conveyors, Positioning and Synchronizing, Cranes, Mixers, Centrifuges and Palletizing and Packaging

#### Supply voltages and Power Range

3 x 200-240 V...0.25-37 kW, 3 x 380-500 V...0.37 kW – 1.1 MW, 3 x 525-600 V...0.75-75 kW, 3 x 525-690 V...1.1 kW – 1.4 MW

### VLT Automation FC-360



#### Features and Benefits

- Ambient temperature of 50°C, unique cooling concept and coated PCB
- 5–15% energy savings due to Automatic Energy Optimizer function
- Fast cleaning and extended lifetime due to removable cooling fan
- No need for external controller due to built-in PID controller

#### Applications :

Pumps, Fans, Extruders, Escalators, Winders, Material-Handling Applications and Centrifuge Separators

#### Supply Voltage & Power Range

3 x 380 – 480 V 0.37 – 75 kW

### VLT Aqua Drive FC 201/202



#### Features and Benefits

- Specially Designed Software Prevents Harmful Water Hammering in Pipeline
- High Energy Saves to The Unique Back-Channel-Cooling Concept
- Built-in RFI Filter and DC Chokes Reduces Electromagnetic Interference and Harmonic
- 3-8% Energy Savings are Achieved as a Result of Automatic Energy Optimizer

#### Applications :

Centrifugal Pumps and Blowers, Positive Displacement Blowers

#### Supply Voltage & Power Range

1 x 200-240 V...1.1-22 kW, 1 x 380-480 V...7.5-37 kW, 3 x 200-240 V...0.25-45 kW  
3 x 380-480V..0.37KW–1MW, 3 x 525-600V..0.75-90 KW, 3 x 525-690V..45 KW -1.4 MW

### VLT HVAC Drive FC 101/102



#### Features and Benefits

- Ambient Temperature of 50°C, Unique Cooling Concept and Coated PCB
- Automatic Energy Optimizer Function Saves 5-15% Energy
- Fast Cleaning and Extended Lifetime Thanks to Removable Cooling Fan
- No Need for External Controller Due to Built-in PID Controller

#### Applications :

Pumps, Fans, Compressors

#### Supply Voltages and Power Range

3 x 200-240 V...1.1-45 kW, 3 x 380-480 V...1.1 kW – 1 MW, 3 x 525-600 V...1.1-90 kW, 3 x 525-690 V...45 kW – 1.4 MW





### VLT Micro Drive FC-051



#### Features and Benefits

- Compact Design Makes Side-by-Side Mounting Possible
- Coated PCBs, Built-in RFI Filters, Effective Heat Sink
- Kinetic Energy can Transform into Braking Power to Slow Down the Motor

#### Supply Voltage & Power Range

1 x 200-240 V...0.18-2.2 kW, 3 x 200-240 V...0.25-3.7 kW, 3 x 380-480 V...0.37-22 kW

**Applications :** Conveyors, Pumps, Fans, Mixers, Extruders, Palletizers, Packaging Machines and Other Industrial Appliances

### VACON NXP Air Cooled Drive



#### Features and Benefits

- Fast Fieldbus Options and Exceptional Programming Flexibility
- Five Built-in Expansion Slots for Additional I/O, Fieldbus and Functional Safety Boards
- Fast Response to Changes Due to Dynamic Open and Closed-Loop Vector Control
- The Drive's DC Fans Decreases Fan Losses Thereby Increasing Reliability and Lifetime
- Coated PCB Protects Against Dust and Moisture

#### Supply Voltage & Power Range

230 V...0.55-90 kW, 500 V...1.1-200 kW 690 V...3.0-2000 kW

#### Applications :

Elevators, Escalators, Cranes, Hoists, Winches, Cargo Pumps, Pumps, Fans, Conveyors, Machine Tools, Yaw and Pitch Control Applications, Oil Pumps, Winders and Unwinders, Pulp Dryers, Tissue Machinery and Extruders.

### VACON NXP Liquid Cooled Drive



#### Features and Benefits

- Compact Design Needs No Air Ducts Reducing Floor Space & Infrastructure
- No AC is Needed Due To Minimal Dissipation of Heat Loss To The Air
- Fulfills All Standards Marine, Safety, EMC and Harmonics Approvals
- Virtually Silent Operation as Large Cooling Fans are Not Needed

#### Supply Voltage & Power Range

380-500 V...7.5-5150 kW, 525-690 V...110-5300 kW

#### Applications :

Compressors, Wind Turbines, Extruders, Pumps, Fans, Conveyors, Crushers, Thrusters, and Propulsion, Test-bench, Crane, Winch and Power-Conversion Systems.

### VACON NXP Common DC Bus



#### Features and Benefits

- Regenerative Front-End Feeds Excess Braking Energy Back Into The Network
- Investment Costs are Low as a Result of Reduced Power Cabling and Installation Time
- Cost and Space Savings as Optimized Module Design
- Five Built-in Expansion Slots For Additional I/o, Fieldbus and Functional Safety Boards
- Improvements in Drive Line-Up Tolerance To Voltage Dips/Sags

#### Supply Voltage & Power Range

380-500 V...1.1-1800 kW, 525-690 V...1.5-2000 kW

#### Applications :

Continuous Web and Roller Table Systems, Winders and Unwinders, Cranes, Hoists, Gantry and Trolley Drives, Centrifuges, Winches, Conveyors and Excavators.

### VACON NXP System Drive



#### Features and Benefits

- Cost Savings as a Result of The Standardized Solution
- Quick Set-Up and Maintenance Thanks To The Modular Design and Pull-Out Features
- Minimized Downtime as Spare Parts are Always Stocked and Readily Available

#### Applications :

Compressors, Wind Turbines, Extruders, Pumps, Fans, Conveyors, Crushers, Thrusters, and Propulsion, Test-Bench, Crane, Winch and Power-Conversion Systems

#### Supply Voltage & Power Range

380-500 V...7.5-5150 kW, 525-690 V...110-5300 kW

### VACON NXP Liquid Cooled Enclosed Drive



#### Features and Benefits

- Drive Lifetime and Reliability are Enhanced Due To Sturdy Cabinet Protection
- Floor Space Requirements and Infrastructure Needs are Reduced as The Compact Design Needs No Air Ducts
- Investment Savings as No Large Air-conditioning Systems are Needed Due To Minimal Dissipation of Heat Loss To The Air
- Fulfills All Relevant International Standards and Global Requirements Including Marine, Safety, Emc and Harmonics Approvals
- Virtually Silent Operation as No Large Cooling Fans are Needed

**Applications :** Compressors, Wind Turbines, Extruders, Pumps, Fans, Conveyors, Crushers, Thrusters and Propulsion, Test-Bench, Crane, Winch and Power-Conversion Systems.

#### Supply Voltage & Power Range

400-500 V...700-1100 kW, 525-690 V...560-1550 kW

### VACON 20 Drive



#### Features and Benefits

- Individual and Customized Control Due To Built-in Plc Functionality
- Optimized Performance in Demanding Environments Thanks To Unique Passive Cooling System
- Fits Into The Tightest of Spaces Due To Its Slender Economical Design
- Supports Asynchronous Induction as Well as Permanent Magnet Synchronous Motors
- Dedicated Functionality To Improve Flow Control in Building-Automation Applications

#### Supply Voltage & Power Range

1 x 208-240 V...0.25-2.2 kW, 3 x 208-240V...0.25-11 kW 3 x 380-480 V...0.37-18.5 kW

**Applications :** Conveyors, Extruders and Packaging Machines, Textile Winders, Processing and Washing Machines, Fans and Pumps.





VLT Compact Starter MCD 200/202



- Features and Benefits**
- Panel Space Can Be Saved Due To The Compact Size
  - Installation Costs are Minimized and Power Loss Eliminated Thanks To The Built-in Bypass
  - More Starts Per Hour and a Higher Load is Possible as a Result of Advanced Scr Control Algorithms That Balance Output Waveform
  - Overall Project Investment Is Reduced Due To Essential Motor Protections
  - Ambient Temperature of 50°c Thus No External Cooling or Oversizing is Necessary
- Applications :** Pumps, Conveyors, Fans, Mixers and Compressors
- Supply Voltage & Power Range :** 3 x 200-440 V...7.5-110 kW, 3 x 200-575 V...7.5-110 kW

VLT Soft Starter MCD 500



- Features and Benefits**
- Quick Menu, Application Setup and Main Menu Made Programming Easy
  - Four-line Graphical Display and a Logic Keypad
  - The Best Starting & Stopping Profile is Chosen Using Adaptive Acceleration Control
  - Motors Can Be Used To Their Full Potential Without Risk of Damage From Overloading Due To Second-Order Thermal Model
  - Less Stress On The Motor For Dc Injection Braking Distributed Evenly Over 3 Phases
  - Space Can Be Saved, Cabling Costs Reduced and Retrofitting Made Easier as a Result of Adjustable Bus Bars Which Allow For Both Top and Bottom Entry
- Applications :** Centrifugal Pumps and Fans, Conveyors, Crushers, Grinders, Mixers, Compressors, Centrifuges, Mills and Saws.
- Supply Voltage & Power Range**  
200-690 V...7.5-850 kW

VLT Soft Start Controller MCD 100



- Features and Benefits**
- Panel Space Can Be Saved Due To The Compact Size
  - Selection is Simple and Stock is Kept To A Minimum Thanks To Universal Control Voltage
  - Commissioning Time and Space are Saved as a Result of Easy Din Rail Mounting For Sizes Up To 30 Kw
  - Reliable Operation is Ensured Due To Robust Semiconductor Design and an Almost Unlimited Number of Starts Per Hour Without Derating
- Applications :** Scroll Compressors or Reciprocating Compressors In Air-Conditioning Units, Conveyors, Pumps, Fans and Mixers
- Supply Voltage & Power Range**  
3 x 208-600 V...0.1-11 kW

VLT Advanced Active Filters AAF 006



- Features and Benefits**
- The Lifetime of Electronics are Prolonged Thanks To Innovative Concepts Such as Back-Channel Cooling
  - Durability and Reliable Operation is Improved Thanks To Coated PCBS
  - A High Degree of Customization is Possible Due To The Wide Range of Options
  - Running Costs are Low as a Result of Features Such as Sleep Mode, Progressive Switching Frequency and Power Factor Correction
  - Servicing is Easy Due To The Modular Design
- Applications :** A Range of Applications For The Water and Wastewater, Marine, Oil and Gas and Mining Industries
- Supply Voltage & Power Range**  
380-480 V...190-400 A



VLT Advanced Harmonic Filters AHF 005 / AHF 010



- Features and Benefits**
- 100 % Factory Tested & Based On Proven Filter Concept
  - High Efficiency, Electrically Matched To The Individual VLT Frequency Converters
  - Innovative Coil Design, Side By Side Mounting • Easy Commissioning
- Line Voltage & Current**  
10 A-480 A (380-415 V AC 50 and 60 Hz) 10 A-436 A (440-480 V AC, 60 Hz)v  
15 A-395 A, (600 V AC, 60 Hz)v 15 A-395 A (500-690 V AC, 50 Hz)v  
Modules can be Paralleled for Higher Power

Specification		
THiD at	AHF 010	AHF 005
40 % Load	~ 12 %	~ 7 %
70% Load	~ 11 %	~ 6 %
100% Load	< 10%	< 5 %



SOLUTIA CHEMICALS (I) PVT. LTD.

Synthetic Heat Tranfer Fluid - Therminol 55 By Solutia ( Eastman )



- OXIDATION STRESS TEST**  
Standard Test Conditions
- 204°C Test Temperature
  - 500 hr Test Duration
  - 400 ml. Test Fluid Volume
  - 1 ltr /hr Air Flow Rate
- Features & Advantage Over Mineral Oil**
- ◇ Approximately Double The Life of Mineral Oil
  - ◇ Negligible Oxidation & Carbonization
  - ◇ The Best Thermal Stability & Heat Transfer in Its Kind

THERMINOL® 55  
synthetic thermic fluid

Therminol 55 is a synthetic heat transfer fluid produced by Eastman intended for the use in liquid phase for indirect heating. It is the star performer with unmatched features like efficient heat transfer, longer fluid life and optimal economies of scale in production.

What makes Therminol® 55 the best :

- Therminol 55 has a wide operating range of - 10° C to 305°C
- Superior oxidation resistance because of Aromatic based synthetic chemistry
- Usage results in lower maintenance as compared to others
- Increases the life of the fluid by eliminating the risk of insoluble high boiler formation and fouling
- Therminol 55 is compatible with almost all types of mineral oils
- Has a constant product quality of 100% purity

What makes Therminol 55 even better is that using this fluid one can save more energy and fuel !

So be a part of the family that serves more than 3000 customers in India and meets the need across industry segments including textile, rubber, leather, polyester films, packaging, plywood, edible oil, chemicals and specialty chemicals, pharmaceuticals and food industries.





Kirloskar

KIRLOSKAR ELECTRIC CO. LTD.

### IE2/IE3 Efficiency Cage Motors By KEC



#### SPECIFICATION :

Frame & Output (KW)	: 0.37KW to 200KW
Input Voltage (V)	: 415V $\pm$ 10%
Frequency (HZ)	: 50 HZ $\pm$ 5%
Combined Variations	: 10%
Ambient Temp	: 50° C
Duty	: S1
Insulation	: Class F
Temperature Rise	: Class B
Protection	: IP 55
Cooling	: IC 411

#### APPLICATION :

Motors are Ideal for Various Industrial Applications Like:

- Pumps
- Compressors
- Fans
- Crushers
- Machine Tools
- Textiles
- Conveyors

#### Features :

- Motors with Cast Iron Body from 63 to 355 Frame
- Side Terminal Box Option Available.
- Provision for Dual Mounting Wherever Applicable.
- Sealed Bearing Arrangement for Frames 63 to 225.
- Large Terminal Boxes with Sufficient Electrical Clearances and Improved Aesthetics.
- Optimum Fan Design for Better Cooling & Minimum Energy Consumption.

- Design With Top Terminal Box as Standard.
- Terminal Box Position can be Changed at Site.
- Design With Bolt Arrangement Which Gives more Rigidity
- Motors are Tough, Reliable and long Lasting.
- Motors to Suit for Customized Duty Cycle.

### DC Machine By KEC



#### APPLICATIONS

- Steel Industry
- Cement Industry
- Sugar Industry
- Mining Industry
- Test Rigs
- Rubber Industry
- Printing Machines
- Plastic Extruders

#### OUR PRODUCT RANGE

Laminated Yoke Industrial Duty	: 0.5 to 5000 kW
Solid Yoke Machines	: 0.37 to 500 kW
AISE Mill Duty Machines	: 5.6 to 970 kW

### Mill Duty Induction Motor



**RATING :** 187 to 1500kW  
**SPEED RANGE :** 600-1000 RPM  
**MOUNTING :** IM 1001

#### APPLICATIONS

Steel Re-Rolling Mills  
Sugar Mills  
Cement Industries

#### TYPE

Screen Protected Drip Proof (SPDP)

### IE2/IE3 Efficiency Flameproof Motors By KEC



#### SALIENT FEATURES

- Robust & Rugged Built with Cast Iron or Fabricated Construction
- Enclosures are Hydraulically Tested for a Pressure of 10kg/cm2 (150PSI)
- Specially Designed Top Terminal Box

#### SPECIFICATION :

Voltage (V)	: 415 +/- 10%, 3 Phase AC
Freq (Hz)	: 50 +/- 5%
Insulation	: F
Duty	: S1
Factor of Inertia	: 2
Protection	: IP55
Mounting	: IM1001
Enclosure	: IC411
Ambient	: 0-50°C
Gas Group	: I, IIA, IIB, IIC
Hazardous Area	: Zone I, Zone II
Rating	: 0.12 - 180 kW
Frame	: 63 - 315

#### STANDARDS

	IS
• Rating & Performance	325
• Output & Dimension	1231
• Degrees of Protection	4691
• Method of Cooling	6362
• Construction & Mounting	2253
• Noise Level	12065
• Vibration Level	12075
• Flame Proof Construction	IS 2148

#### APPROVED BY

- Central Institute of Mining & Fuel Research (CIMFR)
- Director General of Mines Safety, Dhanbad (D.G.M.S)
- Petroleum & Explosives Safety Organisation (PESO)
- Directorate General Factory Advice Service and Labour Institutes (DGFAS & LI), Mumbai
- Bureau of Indian Standard (BIS)

### Crane Duty Cage / Slipring Motors By KEC



#### SPECIFICATION :

Voltage (V)	: 415V +/- 10%, 3 Ph AC
Freq (Hz)	: 50 Hz +/- 5%
Insulation	: F
Starts/Hour	: 6/150/300
Over Speed	: 2.5 Times Rated Speed or 2000rpm Whichever is Less for 6 and 8 Poles
Factor of Inertia	: 2
Cyclic Duration Factor %	: 25, 40, 60, 100
Mounting	: IM1001, 1002, 1003 & 1004
Rating (cage)	: 0.37 - 45 kW
Rating (Wound Motor)	: 1.5 - 75 kW
Frame (Cage)	: 71 - 225
Frame (Wound Motor)	: 100 - 280
Ambient	: 0 - 50°C
IP/IC	: 55/411
Terminal	: RHS from DE for Cage Box Position Motors and on Top for Wound Rotor Motors

#### SALIENT FEATURES

- High Pull Out Torque and Low Rotor Inertia
- Suitable for Various Intermittent Duties S3, S4, S5
- Impregnation with Class F Thermosetting Varnish
- Large Slip Ring Unit
- Ample Size Terminal Box
- Dynamic Balancing to Ensure Lower Vibration
- Metallic Fans for Wound Rotor Motors





rotomotive

ROTOMOTIVE POWERDRIVES LTD.

### Gearboxes By Rotomotive Powerdrives

The New Patented "BOX" Series of Worm Gear Units is Made With Die-Casting Aluminium Housing from Size 30 up to 90, and in Cast Iron from Size 110. The Whole BOX Series Can be Mounted in any Position With No Need of Specifications in The Order



- Unicase cast iron body for extreme rigidity
- All gears hardened and ground to Din class 6
- Flexibility in converting from Foot to Flange
- Multiple mounting positions offer uses flexibility
- Top opening for easy maintainance. Diecast aluminum cover
- Multiple input and output Flange options
- Over size bearing for dual supports for all gears
- Synthetic lubrication

Henkel

LOCTITE

HENKEL ADHESIVES TECHNOLOGIES INDIA PVT. LTD.

### Range of Adhesives & Sealants By Henkel (Loctite)



1. Thread Locker :  
Locking of Threaded Fasteners : 290, 222, 242, 262, 270
2. Thread Sealants :  
Sealing of Threaded Components : 542, 565, 567, 577
3. Gasketing Compound :  
Sealing of Flanges & Gasketing of Machines : 574, 510, 518, 596, 587
4. Retaining Compound :  
Securing Cylindrical Assemblies : 660, 641, 609, 648, 638
5. General Purpose Bonding :  
Joining Parts & Components : 401, 454, 406, 415, 495



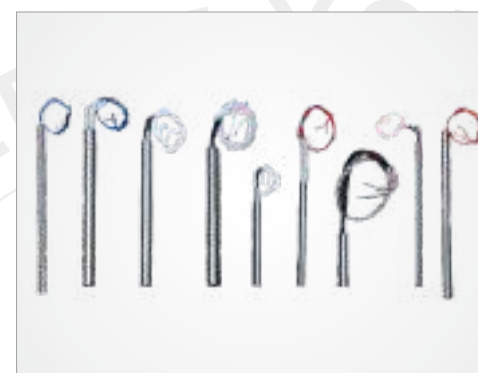
RADAN HEATCORE IND

### Heaters & Heating Elements By Radan Heatcore Ind

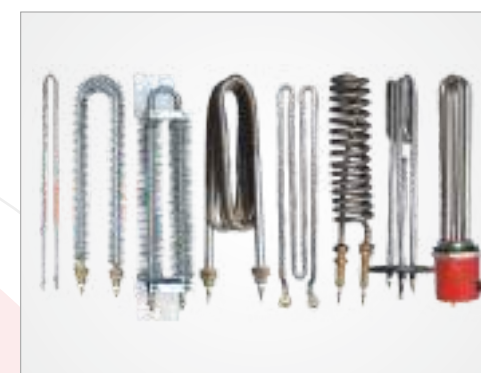
RHI Offers Wide Range of Industrial Electrical Heaters as Given Below



CERAMIC BAND HEATERS



CARTRIDGE HEATERS



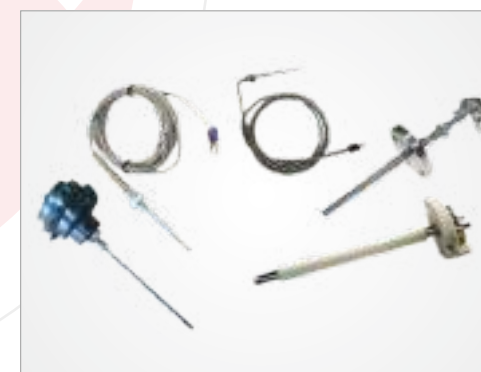
TUBULAR HEATERS



CASTING & PAPER CUP HEATERS



MICA BAND HEATERS



THERMOCOUPLES

For The Detail Information Please Visit [www.perfectindustrial.com](http://www.perfectindustrial.com)

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