

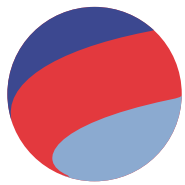
Pesflow
ONE STOP INDUSTRIAL VALVE SOLUTIONS

TUVINDIA

PRODUCT CATALOGUE



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Pesflow
ONE STOP INDUSTRIAL VALVE SOLUTIONS



About Us

Founded in 2006 with just two products, Perfect Engineering Services today offers a portfolio of over 200 products, delivering end-to-end solutions in industrial valves, strainers, and steam traps. Backed by decades of industry experience, our team focuses on engineered, energy-efficient, and application-specific solutions for process industries across Asia, the Middle East, Europe, Africa, and North America.

Our reputation is built on quality, consistency, and service. We work closely with clients to understand their challenges and deliver tailored solutions that help improve reliability, optimize energy usage, and reduce lifecycle costs. Internally, we foster a supportive, growth-oriented work culture that encourages learning and continuous improvement—ensuring we stay at the forefront of our industry and remain a dependable partner for every customer.

Our Vision

To be a trusted engineering solutions partner, known for our technical expertise, reliability, and long-term client relationships. By consistently delivering high-performance products and services, we aim to support our customers in achieving safer, more efficient and sustainable operations.

Our Mission

To provide cost-effective, high-quality engineering solutions through continuous innovation. We believe progress is driven by new ideas, and we are committed to upgrading our products, services, and processes to meet the evolving needs of our customers.

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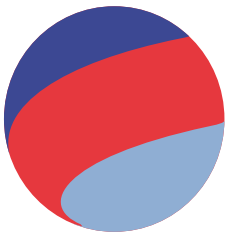
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PNEUMATIC VALVES



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PNEUMATIC VALVES

Pneumatic Control Valve

PES - CV



- **Type:** 2 Way/3 Way
- **Material of Construction:** Cast Steel /Stainless Steel 304/316
- **Size:** 1/2" to 16"
- **Connection:** Flanged
- **Pressure Rating:** #150, Table H, #300, #600
- **Temperature Rating:** Upto 450°C
- **Certifications:** IBR/ NIBR
- **Application:** On / Off Application, Modulating Application, Tight Shut Off
- **Turn Down Ratio:** 1:40 (For Flow), 1:20 (For Pressure)

Pneumatic Ball Valve

PES - PBV



- **Design:** Single Piece, Two Piece, Three Piece, Jacketed Type
- **Actuator:** Double Acting, Single Acting
- **Material of Construction:** Carbon Steel, Stainless Steel SS304/SS316
- **Size:** 1/2" to 8"
- **Ball:** Hollow / Solid
- **Port:** Two Way , Three Way , Four Way
- **Connection:** Screwed, Flange End, TC End
- **Pressure Rating:** #150, #300
- **Temperature Rating:** Upto 180°C
- **Certifications:** CE Approved, Fire Safe

Pneumatic Butterfly Valve

PES - PBFV



- **Design:** Centric, Double Eccentric, Triple Eccentric
- **Actuator:** Double Acting, Single Acting
- **Material of Construction:** Cast Iron, Carbon Steel, Stainless Steel 304/316
- **Seat:** Molded, Replaceable
- **Disc:** SG Iron, Carbon Steel, Stainless Steel SS304/SS316
- **Size:** 1.5" to 30"
- **Connection:** Wafer End, Double Flanged, TC End, Lug Type
- **Pressure Rating:** up to PN40
- **Temperature Rating:** Upto 150°C

PNEUMATIC VALVES



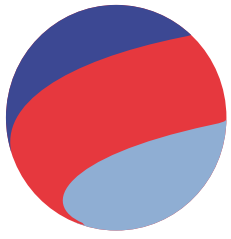
Pneumatic Knife Edge Gate Valve PES - PKGTV

- **Design:** Uni-Direction / Bi-Direction
- **Actuator:** Double Acting, Single Acting
- **Material of Construction:** Cast Iron, Carbon Steel, MS Fabricated, Stainless Steel 304/316, Aluminum
- **Seat:** Soft and Metal to Metal
- **Gate:** MS, SS304, SS316
- **Size:** 2" to 30"
- **Connection:** Flanged
- **Pressure Rating:** up to PN40
- **Temperature Rating:** Upto 300°C



Pneumatic Slide Gate Valve PES - PSGTV

- **Design:** Square Gate
- **Actuator:** Double Acting, Single Acting
- **Material of Construction:** Cast Iron, Carbon Steel, MS Fabricated, Stainless Steel 304/316, Aluminum
- **Seat:** Soft and Metal to Metal
- **Gate:** MS, SS304, SS316
- **Size:** 2" to 30"
- **Temperature Rating:** Upto 300°C



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MANUAL VALVES



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Globe Valve

PES - GBV

- **Material of Construction:** A105, F11, F22, WCB, WC6, WC9, Cast Iron, CF8 (SS304), CF8M(SS316)
- **Size:** 1/2" up to 12"
- **Connection:** Flanged, Screwed, Socket Weld, Butt Weld
- **Pressure Rating:** Up to #2500
- **Temperature Rating:** Up to 500°C
- **Operation:** Hand Wheel, Gear



Gate Valve

PES - GTV

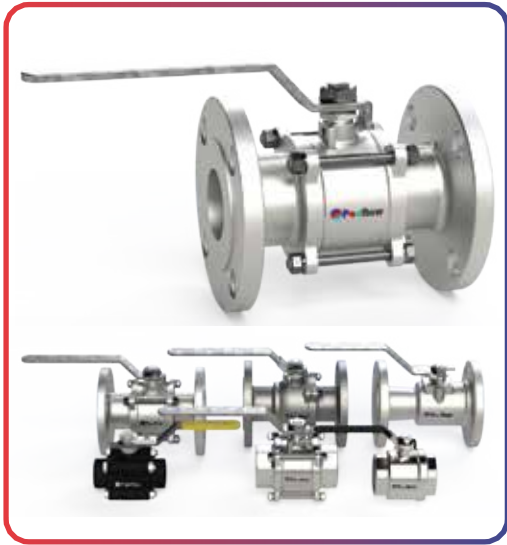
- **Material of Construction:** A105, F11, F22, WCB, WC6, WC9, Cast Iron, CF8 (SS304), CF8M(SS316)
- **Size:** 1/2" up to 12"
- **Connection:** Flanged, Screwed, Socket Weld, Butt Weld
- **Pressure Rating:** Up to #2500
- **Temperature Rating:** Up to 500°C
- **Operation:** Hand Wheel, Gear



Check Valve (NRV)

PES - NRV

- **Type:** Swing / Piston Lift Up/ Non Slam/ Dual Plate/ Wafer
- **Material of Construction:** A105, F11, F22, WCB, WC6, WC9, Cast Iron, CF8 (SS304), CF8M(SS316)
- **Size:** 1/2" up to 20"
- **Connection:** Flanged, Screwed, Socket Weld, Butt Weld
- **Pressure Rating:** Up to #2500
- **Temperature Rating:** Up to 500°C



Ball Valve

PES - BV

- **Design:** Single Piece, Two Piece, Three Piece, Jacketed Type
- **Material of Construction:** A105, WCB, MS, Cast Iron, CF8 (SS304), CF8M(SS316)
- **Size:** 1/4" up to 8"
- **Ball:** Hollow / Solid
- **Port:** Two Way , Three Way , Four Way
- **Connection:** Flanged, Screwed, Socket Weld, TC End
- **Pressure Rating:** Up to #800
- **Temperature Rating:** Up to 180°C



Butterfly Valve

PES - BFV

- **Design:** Centric, Double Eccentric, Triple Eccentric
- **Material of Construction:** Cast Iron, Carbon Steel, Stainless Steel SS304/SS316
- **Seat:** Molded, Replaceable
- **Disc:** SG Iron, Carbon Steel, Stainless Steel SS304/SS316
- **Size:** 1.5" up to 40"
- **Connection:** Wafer End, Double Flanged, TC End, Lug Type
- **Pressure Rating:** Up to PN40
- **Temperature Rating:** Up to 150°C



Piston Valve

PES - PV

- **Material of Construction:** A105, CF8 (SS304), CF8M(SS316)
- **Size:** 1/2" up to 8"
- **Connection:** Flanged, Screwed, Socket Weld, Butt Weld
- **Pressure Rating:** Up to #800
- **Temperature Rating:** Up to 300°C
- **Operation:** Hand Wheel
- **Certification:** IBR, NIBR



Moisture Separator

PES - MS

- **Material of Construction:** MS Fabricated, Carbon Steel, SS304, SS316
- **Size:** 1" up to 8"
- **Connection:** Flange End
- **Pressure Rating:** Up to #300
- **Temperature Rating:** Up to 300°C



Blow Down Valve

PES - BDV

- **Material of Construction:** Cast Steel, Bronze
- **Size:** 1" up to 2"
- **Connection:** Flange End
- **Pressure Rating:** Up to #300
- **Temperature Rating:** Up to 300°C
- **Operation:** Manual Key Operated



Slide Gate Valve

PES - SGTV

- **Design:** Square Gate
- **Material of Construction:** Cast Iron, Carbon Steel, MS Fabricated, Stainless Steel SS304/SS316, Aluminum
- **Size:** 2" to 30"
- **Seat:** Soft and Metal to Metal
- **Gate:** MS, SS304, SS316
- **Temperature Rating:** Up to 300°C



Knife Edge Gate Valve

PES - KGTV

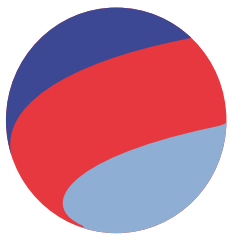
- **Design:** Uni Direction, By Direction
- **Material of Construction:** Cast Iron, Carbon Steel, MS Fabricated, Stainless Steel SS304/SS316, Aluminium
- **Seat:** Soft and Metal to Metal
- **Gate:** MS, SS304, SS316
- **Size:** 2" to 30"
- **Connection:** Flanged
- **Pressure Rating:** up to PN40
- **Temperature Rating:** up to 300°C



Pressure Reducing Valve

PES - PRV

- **Material of Construction:** Carbon Steel, Stainless Steels SS304/SS316
- **Size:** 1/2" up to 4"
- **Connection:** Flange, Screwed
- **Pressure Rating:** Up to #300
- **Temperature Rating:** Up to 450°C
- **Certifications:** IBR / NIBR



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SAFETY EQUIPMENTS



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Flame Arrester (In of Line, Bi-Directional) PES - FA - IL

- **Material of Construction:** WCB / CS, Stainless Steels, Hastelloy C, etc. as per customer requirements.
- **Size:** 15mm up to 1200mm
- **Types:** Deflagration, Detonation
- **Geometry:** Concentric / Eccentric
- **Pressure Rating:** up to 250 Kg/cm², as per customer request.
- **Connection:** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Temperature Rating:** Upto T1 Class, 450°C



Flame Arrester (End of Line, Bi-Directional) PES - FA - EOL

- **Material of Construction:** WCB / CS, Stainless Steels, Hastelloy C, etc. as per customer
- **Size:** 5mm up to 1200mm
- **Types:** Deflagration, Detonation
- **Geometry:** Concentric
- **Pressure Rating:** up to 250 Kg/cm², as per customer request.
- **Connection:** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Temperature Rating:** Upto T1 Class, 450°C



Breather Valve (Pressure & Vacuum Relief Valve) PES - BV

- **Material of Construction:** WCB / CS, Stainless Steels, Hastelloy C, etc. as per customer requirements.
- **Size:** 15 mm up to 32" (800 NB)
- **Pressure Rating:** up to 25 Kg/cm², as per customer request.
- **Connection:** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Temperature Rating:** Upto T1 Class, 450°C
- **Accuracy:** Seat Tightness, Leaks, Blowdown Acceptance as per API 2000.
- **Flow Range:** Customized, 100,000+ Nm³/Hr of Air at Ambient Temperature.
- **Pressure Drop:** (<=) 25 % of the Set Pressure / Vacuum.



Safety Relief Valve

PES - SRV

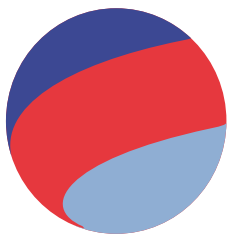
- **Material of Construction:** WCB / CS, Stainless Steels
- **Size:** 15 mm up to 10" (250 NB)
- **Connection:** Flanged (Std.), Screwed
- **Pressure Rating:** up to 30 Kg/cm²
- **Temperature Rating:** Up to T1 Class, 450°C
- **Certifications:** IBR/ NIBR



Rupture Disc

PES - RD

- **Material of Construction:** SS 316 L, SS 316, SS 304, SS 321 etc. as per customer requirements.
- **Size:** 15 mm up to 32" (800 NB)
- **Connection:** Flanged (Std.), Screwed, Tri-Clamp, as per request.
- **Pressure Rating:** up to 200 Kg/cm², as per customer request.
- **Temperature Rating:** Upto T1 Class, 450°C
- **Accuracy:** up to 95% & Flowrates as per API 2000 / 520 / 526 / 527
- **Operating Range:** Approx. (\leq) 70% of the Set Burst Pressure for Planner Type Disc.
- **Accessories:** Burst Alarm - Transmitter, RD with Pressure Gauge



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STRAINERS



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STRAINERS

Y - Type Strainer

PES - YSTR

- **Material of Construction:** CS/MS, Stainless Steels, Cast Iron, SG Iron, etc. as per customer requirements
- **Size:** 1/2" up to 40"+
- **Connection:** Flanged, Screwed, Socket Weld Butt Weld, as per request.
- **Pressure Rating:** up to 200 Kg/cm², as per customer request.
- **Temperature Rating:** Upto T1 Class, 450°C
- **% Open Area:** Flow Capacity is Min. (>200%) of the Inlet Area.
- **Mesh Size:** 20 / 40 / 60 , as per customer request.
- **Microns:** as per customer requirements.
- **Drain:** On Request



Basket Type Strainer

PES - BSKT

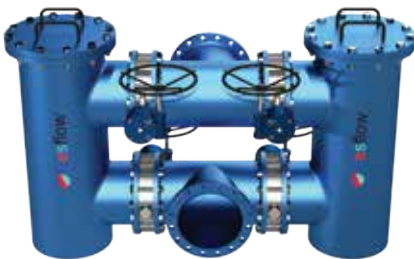
- **Material of Construction:** CS/MS, Stainless Steels, etc. as per customer requirements
- **Size:** 1/2" up to 40"+
- **Connection:** Flanged, Screwed, Socket Weld Butt Weld, as per request.
- **Pressure Rating:** up to 200 Kg/cm², as per customer request.
- **Temperature Rating:** Upto T1 Class, 450°C
- **% Open Area:** Flow Capacity is Min. (>500%) of the Inlet Area.
- **Mesh Size:** 20 / 40 / 60 , as per customer request.
- **Microns:** as per customer requirements.



Duplex Type Strainer

PES - DSTR

- **Material of Construction:** CS/MS, Stainless Steels, etc. as per customer requirements.
- **Size:** 1/2" up to 40"+
- **Connection:** Flanged, Screwed, Socket Weld Butt Weld, as per request.
- **Pressure Rating:** up to 200 Kg/cm², as per customer request.
- **Temperature Rating:** Upto T1 Class, 450°C
- **% Open Area:** Flow Capacity is Min. (>500%) of the Inlet Area.
- **Mesh Size:** 20 / 40 / 60 , as per customer request.
- **Microns:** as per customer requirements.
- **Provision:** Butterfly Valve / 3 Way Ball Valve



STRAINERS



T Type Strainer

PES -TSTR

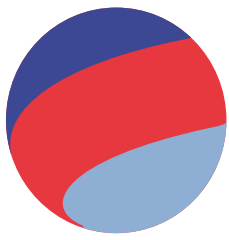
- **Material of Construction:** CS/MS, Stainless Steels, etc. as per customer requirements.
- **Size:** 1/2" up to 32"+
- **Connection:** Flanged, Screwed, Socket Weld Butt Weld, as per request.
- **Pressure Rating:** up to 120 Kg/cm², as per customer request.
- **Temperature Rating:** Upto T1 Class, 450°C
- **% Open Area:** Flow Capacity is Min. (>200%) of the Inlet Area.
- **Mesh Size:** 20 / 40 / 60 , as per customer request.
- **Microns:** as per customer requirements.



Conical Type Strainer

PES - CSTR

- **Material of Construction:** MS, Stainless Steels, etc. as per customer requirements.
- **Size:** 1/2" up to 12"+
- **Connection:** Flanged, Screwed, Socket Weld Butt Weld, as per request.
- **Pressure Rating:** up to 40 Kg/cm², as per customer request.
- **Temperature Rating:** Upto T1 Class, 450°C
- **% Open Area:** Flow Capacity is Min. (>200%) of the Inlet Area.
- **Mesh Size:** 20 / 40 / 60 , as per customer request.
- **Microns:** as per customer requirements.



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ENERGY SAVING EQUIPMENTS



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Condensate Recovery System PES - CRS

- **Type:** Simplex/ Duplex/ Triplex
- **Material of Construction:** MS, Stainless Steel
- **Size:** 1" to 3"
- **Capacity:** Up to 12 TPH
- **Operation:** Mechanically Operated
- **Motive:** Steam, Air
- **End Connection:** Flanged



Flash Vessel PES - FV

- **Material of Construction:** MS, Stainless Steel
- **Body Size:** 6" to 12"
- **Accessories:** Pressure Gauges, Safety Valves
- **Input Option:** Single Input, Dual Input
- **End Connection:** Flanged



Deareator Head PES - DH

- **Material of Construction:** MS, Stainless Steel
- **Filter MOC:** Stainless Steel 304/316
- **Body Size:** 8"
- **Connection Size:** 1" to 3"
- **Accessories:** Vacuum breaker, Air Vent
- **End Connection:** Flanged



Compact Pumping Trap (CPT)

PES - CPT

- **Material of Construction:** MS, Stainless Steel
- **Size:** 1", 1.5", 2"
- **Capacity:** Up to 2 TPH
- **Operation:** Mechanically Operated
- **Motive:** Steam, Air



Ball Float Trap Module

PES - BFTM

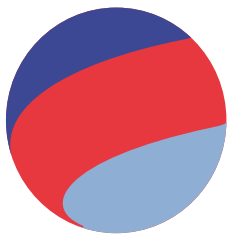
- **Type:** Ball Float
- **Size:** 1/2" to 2"
- **Certification:** IBR/NIBR
- **By Pass Valve:** Piston/ Globe / Gate Valve/ Ball Valve
- **Capacity:** Up to 5 TPH based on the selection of steam trap
- **End Connection:** Flanged



Thermodynamic Steam Trap Module

PES - TDM

- **Type:** Thermodynamic Steam Trap
- **Size:** 1/2" to 1"
- **Certification:** IBR/NIBR
- **By Pass Valve:** Piston/ Globe / Gate Valve
- **End Connection:** Flanged, Socket Weld



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STEAM PRESSURE REDUCING STATIONS



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PRESSURE REDUCING STATIONS

Steam Pressure Reducing Stations

PES - PRS - EPP

- **Material of Construction:** CS/MS, Stainless Steel
- **Size:** 1/2" to 10"
- **Pressure Rating:** #150, #300, #600
- **Maximum Inlet Pressure:** Upto 30 Kg/cm²
- **Connection:** Flanged
- **Temperature Rating:** Upto T1 Class, 450°C
- **Certification:** IBR/ NIBR
- **Accessories:** PID Controller, Pressure Transmitter, Electro Pneumatic Positioner and AFR

Steam Pressure Reducing Stations

PES - PRS - PRV

- **Material of Construction:** CS/MS, Stainless Steel
- **Size:** 1/2" to 10"
- **Pressure Rating:** #150, #300, #600
- **Maximum Inlet Pressure:** Upto 30 Kg/cm²
- **Connection:** Flanged
- **Temperature Rating:** Upto T1 Class, 450°C
- **Certification:** IBR/ NIBR
- **Accessories:** Sensing Line

Steam Pressure Reducing Stations

PES - PRS - RB

- **Material of Construction:** CS/MS, Stainless Steel
- **Size:** 1/2" to 10"
- **Pressure Rating:** #150, #300, #600
- **Maximum Inlet Pressure:** Upto 30 Kg/cm²
- **Connection:** Flanged
- **Temperature Rating:** Upto T1 Class, 450° C
- **Certification:** IBR/ NIBR
- **Accessories:** Robotrol, AFR and Sensing Line

ACCESSORIES



Needle Valve

PES - NV

- **Design:** Round Body, Square Body
- **Material of Construction:** SS304, SS316
- **Size:** 1/4" up to 1"
- **Connection:** Screwed
- **Pressure Rating:** Up to 10000 PSI



Pressure Gauge

PES - PG

- **Material of Construction:** MS, SS
- **Dial Size:** 1.5" to 10"
- **Connection Size:** 3/8", 1/2"
- **Accuracy:** +/-1%
- **Mounting:** Bottom, Back
- **Option:** Glycine Filled
- **Pressure Range:** Upto 500 kg/cm²



Syphon

PES - SP

- **Material of Construction:** MS, SS
- **Type :** Type, Q Type, Pig Tail
- **Connection Size:** 3/8", 1/2"

ACCESSORIES



Electro Pneumatic Positioner

PES -EPL/PES-EPR

- **Input:** 4-20 mA
- **Type:** Linear, Rotary
- **Variants:** With Feedback, Without Feedback Option
- **Option:** Digital, Hart
- **Enclosure:** Weather Proof, Flame Proof



Robotrol

PES -RB

- **MOC:** Cast Iron
- **Internal:** Stainless Steel
- **Pressure Range:** 1-10 kg/cm²



Sight Glass

PES - SG

- **Type:** Double Window, Full View
- **Material of Construction:** MS/CS/SS304/SS316
- **Size:** 1/2" up to 10"
- **Connection:** Screwed/Flange End
- **Pressure Rating:** Up to #300
- **Temperature Rating:** Up to 180°C

Quality Assurance – Tested for Reliability

At Pesflow, quality is not just a process — it's a promise. Every strainer we manufacture undergoes a stringent quality assurance program to ensure durability, performance, and compliance with global standards. Our commitment to quality is demonstrated through in-house testing protocols as well as optional third-party inspections upon client request.

Testing Capabilities

We conduct a range of Non-Destructive Tests (NDT) and Type Tests to ensure every product meets the highest performance and safety standards.

Type Test	Description
Type Test	Verifies the product's design integrity and functional performance.
RT – Radiography Test	Identifies internal weld flaws using radiographic imaging.
UT – Ultrasonic Test	Detects internal material defects using ultrasonic sound waves.
MPT – Magnetic Particle Test	Highlights surface and near-surface discontinuities in ferromagnetic materials.
DPT – Dye Penetrant Test	Exposes surface cracks or porosity using dye inspection methods.

- ❖ All tests are conducted by trained professionals under strict compliance with ASME, API, and DIN standards.

Third-Party Inspection (TPI) — Verified by Global Experts

To offer complete transparency and added assurance, Pesflow supports Third-Party Inspection (TPI) by leading inspection agencies upon client request. These agencies ensure unbiased quality verification and full compliance with global norms.

- ❖ APAVE TIV India Pvt. Ltd.
- ❖ Bureau Veritas India Pvt. Ltd.
- ❖ Certification Engineers International Ltd.
- ❖ Edlipse Engineering Global Pvt. Ltd.
- ❖ Gulf Lloyds Industrial Services (India) Pvt. Ltd.
- ❖ International Certification Services Pvt. Ltd.
- ❖ Intertek India Pvt. Ltd.
- ❖ IR Class Systems and Solutions Pvt. Ltd.
- ❖ Meenaar Global Consultants LLP
- ❖ RITES Limited
- ❖ SGS India Pvt. Ltd.
- ❖ TUV India Pvt. Ltd.
- ❖ TUV Rheinland (India) Pvt. Ltd.
- ❖ TUV SUD South Asia Pvt. Ltd.
- ❖ VCS Quality Services Pvt. Ltd.



FROM INDIA TO GLOBAL INDUSTRIES

Perfect Engineering Services is proud to take its engineered steam, valve, and strainer solutions beyond borders—supporting industrial plants, EPC contractors, and maintenance teams across multiple international markets. Built on strong manufacturing capability, strict quality control, and application-focused engineering, our products are designed to perform reliably in demanding process conditions where safety, uptime, and efficiency matter most.





















Over the years, our export journey has expanded across key regions including the Middle East, Africa, Asia, Europe, Australia, and North America—serving a wide range of industries such as process, energy, utilities, and general manufacturing. Each dispatch is backed by a commitment to consistent product standards, timely supply, and responsive technical support—ensuring our international customers receive not just equipment, but dependable long-term performance.

As we continue to grow our global presence, Perfect Engineering Services remains committed to building trusted partnerships worldwide through quality, accountability, and engineering excellence.

Regions Covered

Africa | Asia | Europe | Middle East | North America

Countries Covered

 Australia	 Kenya	 Nigeria	 Russia	 UAE
 Egypt	 Kuwait	 Oman	 Saudi Arabia	 USA
 Indonesia	 Malaysia	 Bangladesh	 South Africa	 Zambia
 Ireland	 Nepal	 Qatar	 Taiwan	 Zimbabwe

INDUSTRIES

We Serve

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Industry



Oil & Gas



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Industry



Chemical
&
Petrochemical



Paper
Industry



Rice
Industry



Sugar
Industry



Dairy
&
Dairy Equipment



Rubber
&
Tyre Industry



Plywood
&
Laminates



Power
Plants



Pharmaceutical
Industry



Food, Beverage
&
Distilleries



Pressure Vessel
Industry

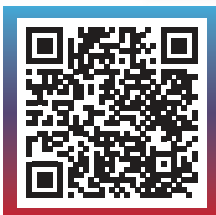




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TUVINDIA

DOMESTIC CLIENTS



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