



ITTIHAD ENGINEERING

Unity is our strength. Together, we engineer the future.



www.ittihad.engineering

Dye House Automation (Logic Art)

Dye Preparation



LA-200: SEMI-Auto Powder Weighing Management System



LA-200S: SEMI-Auto Powder Weighing Management System



LA-201: Combined Dyestuff Storage & Weighing Management System



LA-252: Powder Dyestuff Dissolving System

Laboratory Machines



LA-600: Tube-Free Automatic Laboratory Dispenser



LA-653: Laboratory Multi-Batch Dyer.

Chemical Preparation:



LA-301: Liquid Chemical Dispensing & Management System



LA-301P: Powder Chemical Manual Weighing System



LA-302F: Automatic Chemical Dispensing & Distribution System

Heat Exchangers:

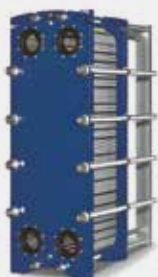


Plate Heat Exchanger

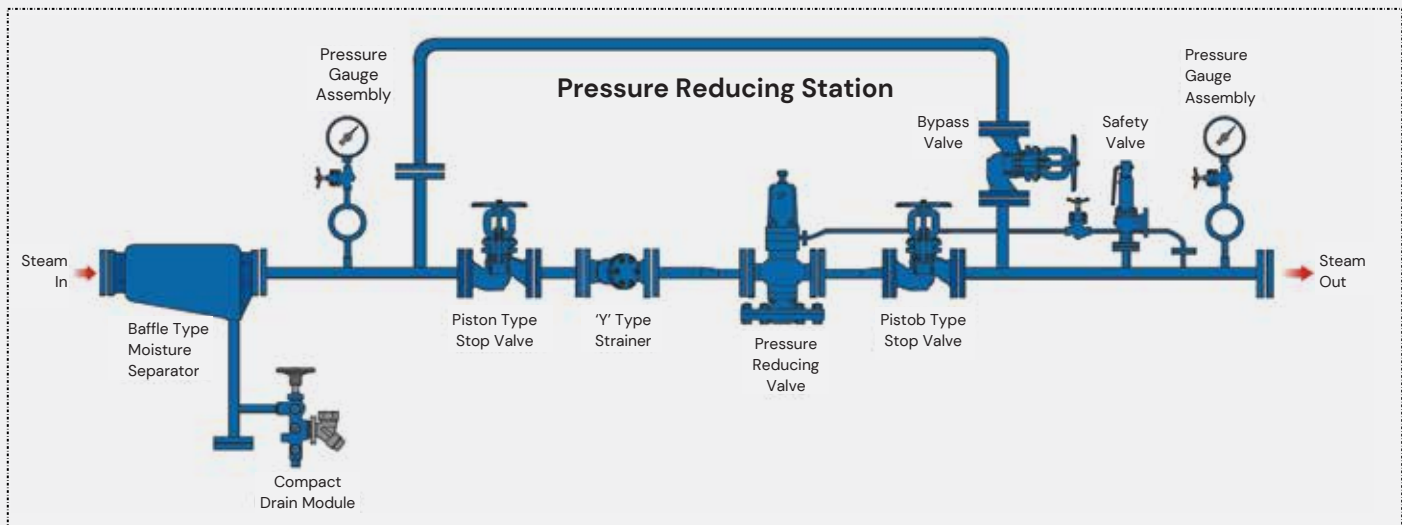


Shell & Tube Heat Exchanger

PLC/PID Controller



Complete Range of Steam Accessories



Moisture Separator for condensate removal



Strainer for removing debris and contaminants



Steam Piston Valve/Globe Valve/ Bellow Seal Valve



Safety Relief Valve

Types of Pressure Reducing Valves



Bellow Reducing Valve (BRV)



Pilot Operated PRV



Pressure Control Valve with Pneumatic Actuator



Pressure Control Valve with PID Based on Pressure Control Loop, including Pressure Transmitter, PID Controller, E/P Positioner

Other Accessories



Disk Check Valve



Lift Check Valve



Swing Check Valve



View Glass

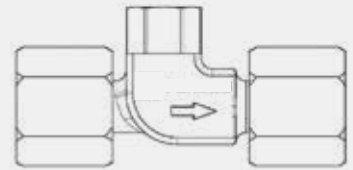
Different Types of Steam Traps



Thermodynamic Steam Trap
for mainline condensate evacuation



Ball Float Steam Trap
for condensate evacuation from process machine or heat exchangers



G Trap for Garments Iron, reduces steam consumption to 40%.

Control Valves



Pressure/ Temperature/ Flow/Level Control Valve (PID/On-Off)



Three Way Control Valve



Pneumatic Ball Valve



Pneumatic Butterfly Valve

Ball & Butterfly Valves



Ball Valve
Versatile solutions for various applications.



Butterfly Valve
Reliable and efficient for diverse applications.

Other Package & Solutions

Instantaneous Hot Water Generation System



Manual Blowdown Valve



Automatic Boiler Blowdown Control System



Different Type of Flow & Level Measurement

Explore our comprehensive range of flow and level measurement solutions, designed to deliver precise, reliable, and cost-effective performance across industries.



Electromagnetic Flowmeter
for water and waste water
flow measurement



Vortex Flowmeter for Steam/
Compressed Air/ Natural Gas/
Condensate Water flow
measurement



Corioliss Mass Flowmeter
for measuring diesel or Oil
or Custody transfer



Variable Area Flowmeter
cost effective solution for
liquid & gaseous application



Radar Level Transmitter
(Contact / Non-Contact
Radar)



**Ultrasonic Level Transmitter/
Open Chanel Flowmeter** for
measuring effluent/waste
Water in an open drain/channel



**Bypass Level
Indicator &
Transmitter**



**Flow Indicating Totaliser/
Remote Display/
Modbus Converter**

Pressure & Temperature Transmitter



Differential Pressure
Switch



**Resistance Temperature
Detector (RTD)/PT100**



**Differential Pressure
Transmitter (DPT)**



**Pencil Type Pressure
Transmitter**



**Smart Pressure
Transmitter**

Condensate Recovery Solution



**Pressure Powered Pumps
for Condensate**



Flash Vessel



Pumping Trap



**Electric Powered
Condensate
Recovery Units**

Pressure & Temperature Gauges



Clean Steam Solution



**Clean Steam
Separator**



**Sanitary
Pressure
Reducing
Valve**



**Clean Service
Control Valve**

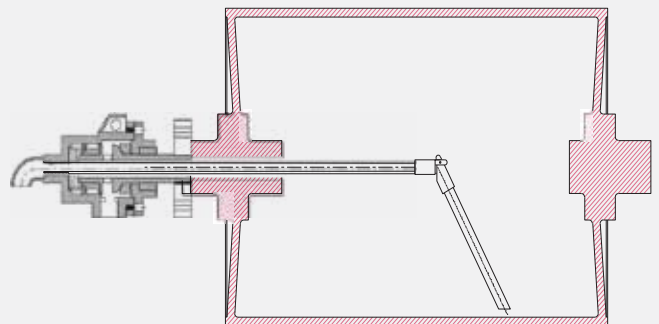


Clean Steam Trap

Rotary Joint



SIZE: 3/8" to 2" BSP
Speed up to 500 MPM
Maximum Pressure 10 Barg.
Syphon: Stainless Steel, Elbow Type.



Boost Efficiency and Cut Costs with Removable Insulation Jackets

Rising energy costs demand innovative solutions. Uninsulated hot surfaces, like steam valves, headers, and boiler economizers, lead to energy loss. Our removable insulation jackets reduce heat radiation by 20-40%, lower surface temperatures to 40°C for safety, and maintain a comfortable work environment.

Applications include steam valves, boiler economizers, and generator manifolds. Key features: high-performance silicon-coated fiberglass for heat retention, custom-fit for irregular shapes, and removable design for easy maintenance.



Electrical Design Consultancy & Safety Audit

At Ittihad Engineering, we provide expert electrical consultancy and testing services for new projects and existing industries, ensuring safety, compliance, and efficiency.

- **Thermal Scanning:** Annual inspections to detect hazards and enhance efficiency, complying with BNBC and NFPA standards.
- **HT Panel Trip Testing:** Reliable testing to ensure seamless high-tension system operations.
- **Insulation Testing:** Prevent fire risks with expert guidance on maintaining proper cable insulation.
- **Earth Testing:** Achieve safe grounding through precise resistance testing and PIT identification.
- **Electrical System Inspections:** Comprehensive reviews of panels, circuits, and load points for optimal performance.
- **Design and Documentation:** Assistance with Single Line Diagrams (SLD) and electrical layouts for better system optimization.
- **Safety Compliance Audits:** Ensure adherence to BNBC and Bangladesh Electricity Rules for safe operations.

Choose Ittihad Engineering for reliable, efficient, and tailored solutions to meet your electrical needs.



Utility Design Consultancy and Energy Auditing for Plant Improvement

At Ittihad Engineering, we specialize in utility design consultancy for systems such as steam, condensate, flash steam, process water, hot water, and compressed air. Our expert team ensures efficient and reliable system designs tailored to meet your industrial needs.

Our energy auditing services help identify inefficiencies and deliver actionable insights to enhance plant performance, reduce costs, and improve energy utilization.

- **Energy Saving Solutions:** Optimizing steam systems to reduce energy waste, including improving condensate recovery processes for enhanced efficiency and sustainability.
- **Steam Trap Testing:** This service identifies faulty traps and quantifies ongoing losses, making it easier to pinpoint and replace defective traps from hundreds within the plant. Actionable solutions, including a return on investment plan, help stop losses that can reach up to 6 lakh BDT annually for a single 1-inch trap.

Choose Ittihad Engineering for innovative solutions that drive sustainability and operational efficiency.



Building Expertise Through Professional Training

- Specialized training sessions designed for industry engineers, technicians, and university graduates.
- Focus on enhancing practical skills, industry-specific knowledge, and technical expertise.
- Addresses real-world challenges to prepare participants for industrial demands.
- Emphasizes efficient operations, energy-saving solutions, effective troubleshooting, and performance improvement.
- Bridges the gap between academic knowledge and industry requirements, ensuring readiness for evolving challenges.

Get in Touch with Us

For reliable, efficient, and expert engineering solutions, contact Ittihad Engineering today! We're here to assist you with tailored solutions for your engineering and energy needs. Let's build a safer and more efficient future together!

Ittihad Engineering

Address: 12/6 Hazi Market, Baigertek, Pallabi, Dhaka-1206, Bangladesh

Website: www.ittihad.engineering

Email: sales@ittihad.engineering, ittihad.engg@gmail.com,

Mobile: +88 01328 330 403, +88 01770 032 541

Connect with us Online:

