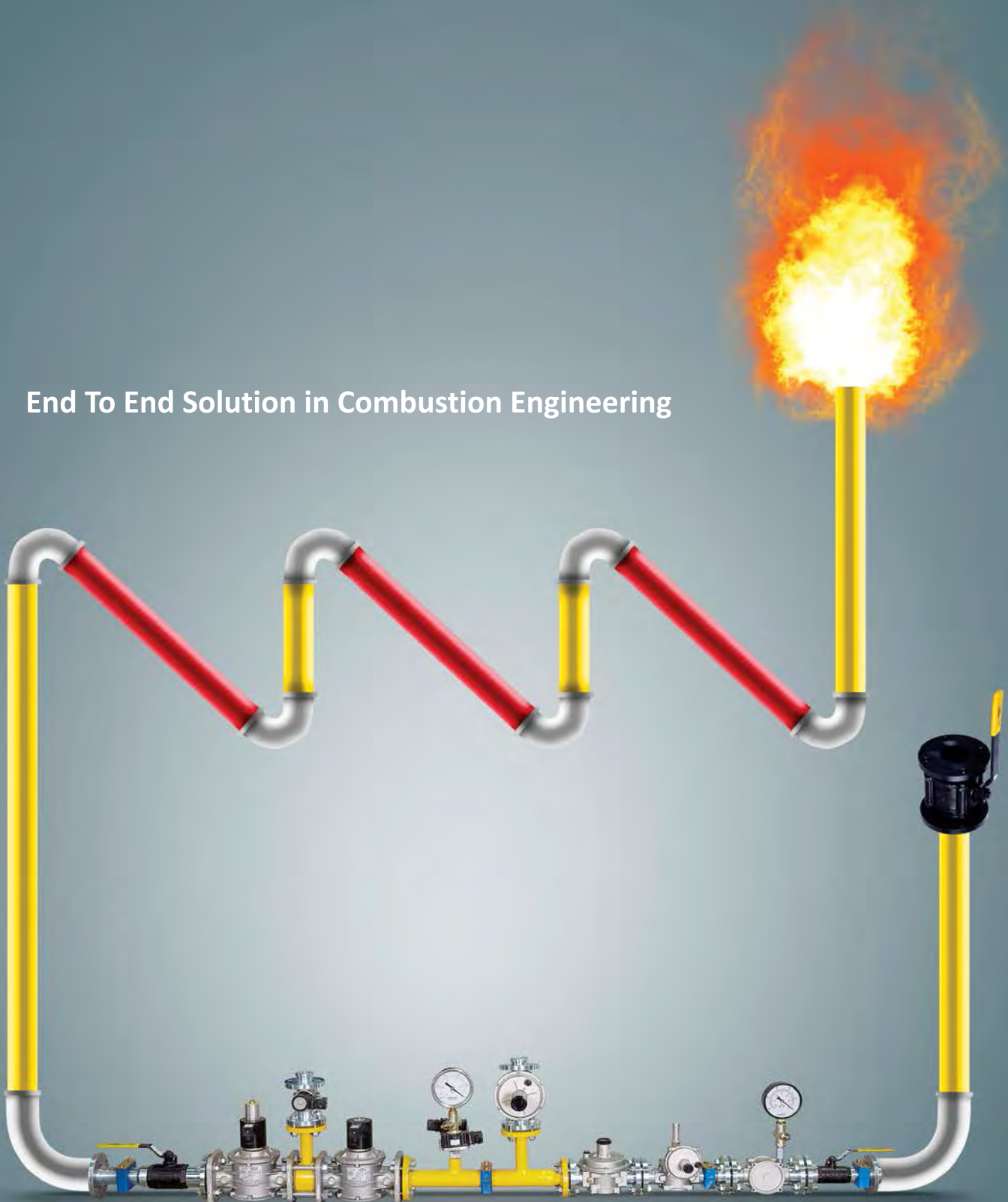


INNOVATIVE
AUTOMATION
PVT. LTD.



End To End Solution in Combustion Engineering





THE NEED FOR GAS SAFETY & REGULATION IN COMBUSTION ENGINEERING & INSTRUMENTATION

Any industry employing gas-based combustion engineering on equipment like Furnaces, Ovens, Burners, Kilns and Dryers is continuously playing with fire. Its workplace and workers are at the mercy of these equipments and processes, and any negligence or oversight could prove too costly for all.

This calls for properly designed and tested equipment and processes that ensure efficient and more importantly, safe working conditions all the time.

However, the needs of no two industries or applications are alike. The regulation & safety requirements differ vastly, calling for an authoritative partner who can go beyond understanding the needs to develop and provide innovative solutions and equipments.



Our Domain Expertise

Gas Trains, Flame Detectors, Pressure Regulators, Gas Filters & Valves, Flame Sensing, Burner Control, Motorized Valves, Dampers, Natural Gas Piping and Conversion.

The Innovative Way

In India, Innovative Automation has worked its way to mastery in combustion engineering and technology and has over a decade of work experience in all aspects that generates absolute faith and trust.

- The company with qualitative engineering approach for automation, control & safety of gas-based combustion equipment
- Over 15 years of experience with comprehensive solution from Designing, Sizing, Selecting, Calculating to Manufacturing and Calibrating combustion engineering products
- Associated with leading global brands for distribution & services





Designing - The know-how

Unlike other Combustion Equipment manufacturers, Innovative is reputed for developing and supplying equipments and systems that adhere to the best Engineering, Designing, Sizing, Selection, and Calculation practices.

What differentiates us is:

- Capability and experience to work in-house on various subjects including Thermal Engineering, Fluid Mechanics, Combustion Engineering, Instrumentation & Control, Process Engineering and Mechanical Engineering .
- Software based selection and sizing of products based on the data provided by the customer.
- Elaborate Drawings with 3D views and explanations make it extremely easy for the customers to understand our products and equipment.
- Backup support and verification for calculated results and designs for Indian clients from our overseas partners is possible due to our direct association with them.
- Sizing calculations can be provided on request.
- Dedicated Design and Application Engineers to study customer requirements and provide customised solution.





Production and Assembly- Working on details

- 7000 sq.ft. of manufacturing space with a well-defined area for Painting, Manufacturing, Packing, Assembly, Testing, Repairs and Storage of the manufactured equipments
- Critical parts like Gas Trains, Motorised Dampers, Valves and other products are manufactured in-house under strict quality control and pre-defined quality assurance plans
- Modern Machine Shop with conventional and special purpose machines helps us service regular and exigent orders
- Welding Fabrication Shop
- Adequate inventory of raw material, finished components & bought-outs support rapid manufacturing and expedite deliveries
- Trained and well developed vendor base to support outsourced activities
- Qualified production team
- Experienced team of Technicians, Welders and Skilled/ Semiskilled workers

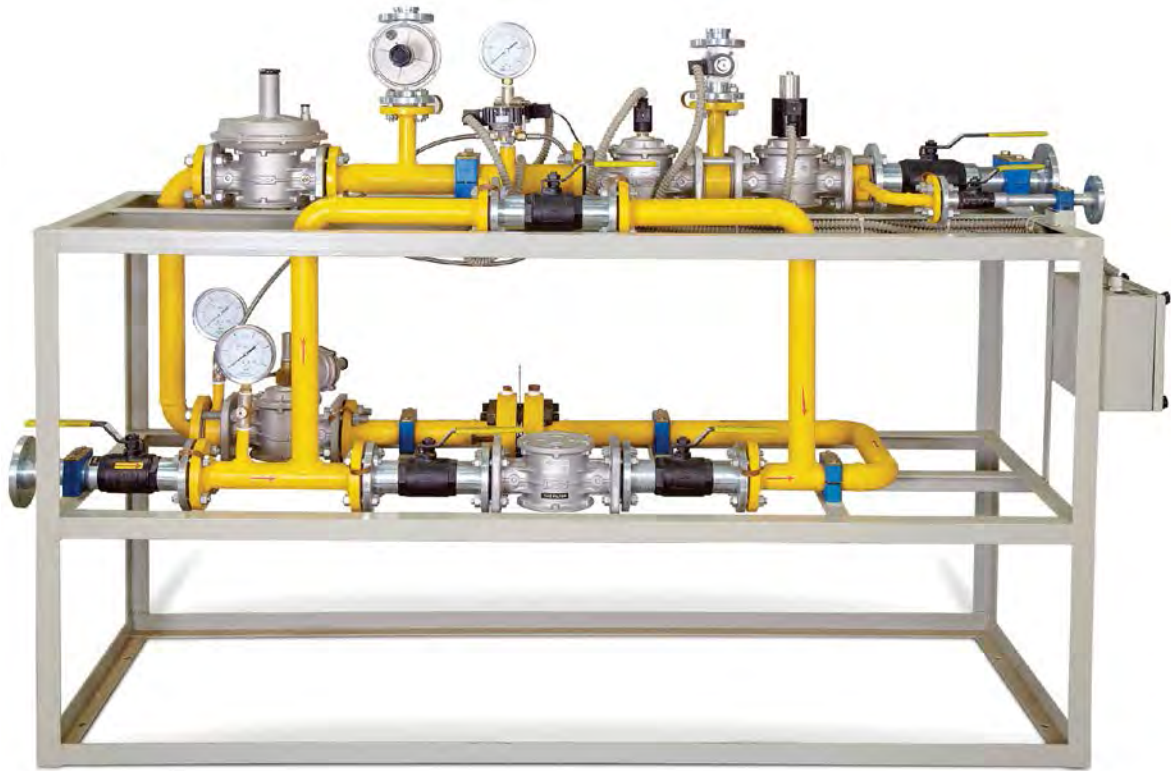




Testing & Quality Control - Leaving nothing to chance

- A well-equipped flow testing lab complete with required instruments to test all the Gas Trains
- The only company to offer a flow test for Gas Trains on a test rig, thereby assuring the performance of our equipment under real time simulated conditions prior to despatches
- Gas Trains tested in accordance with a strict quality assurance plan to ensure absolutely safe on-site operations
- Specially trained instrument engineers for supporting customers in repairs, servicing and commissioning of various instruments supplied by us
- Simulation and testing kits designed to test and check various safety instruments supplied by us. These kits are also excellent tools for training on our products.





Compact loop or U design gas train

Pre-piped Gas Trains

Innovative Automation Pvt. Ltd. manufactures customized Pre-piped Gas Trains after careful study and analysis of the requirements of the combustion process at the customer's plant. These Trains are manufactured as per the guidelines and stringent standards of safety, laid down by European and North American countries.





Straight design gas train

Specifications

Gas Train Type - Single/Multiple burners to suit user requirements

Service - LPG/Natural Gas/Propane

Sizes : DN15 to DN200

Inlet Gas pressure - 1, 2 or 5 bar

End Connections - Flanged as per ANSI B 16.5, 150

Piping : MS SCH40 seamless piping

Mounting - M5 Structural mounting Skid

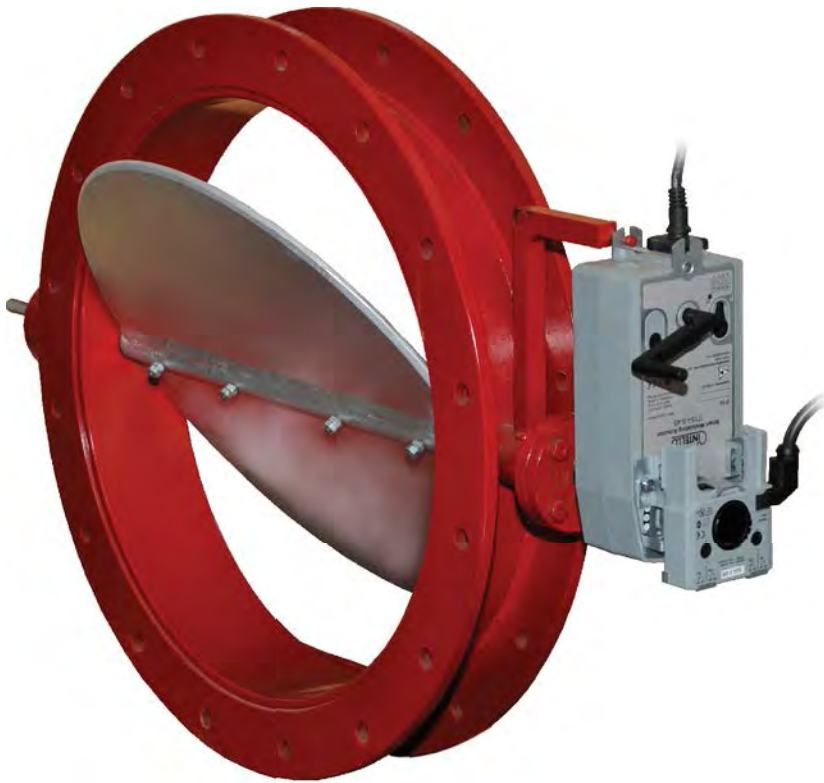
Pre-wired junction boxes provided on request

Integral operating panel on request

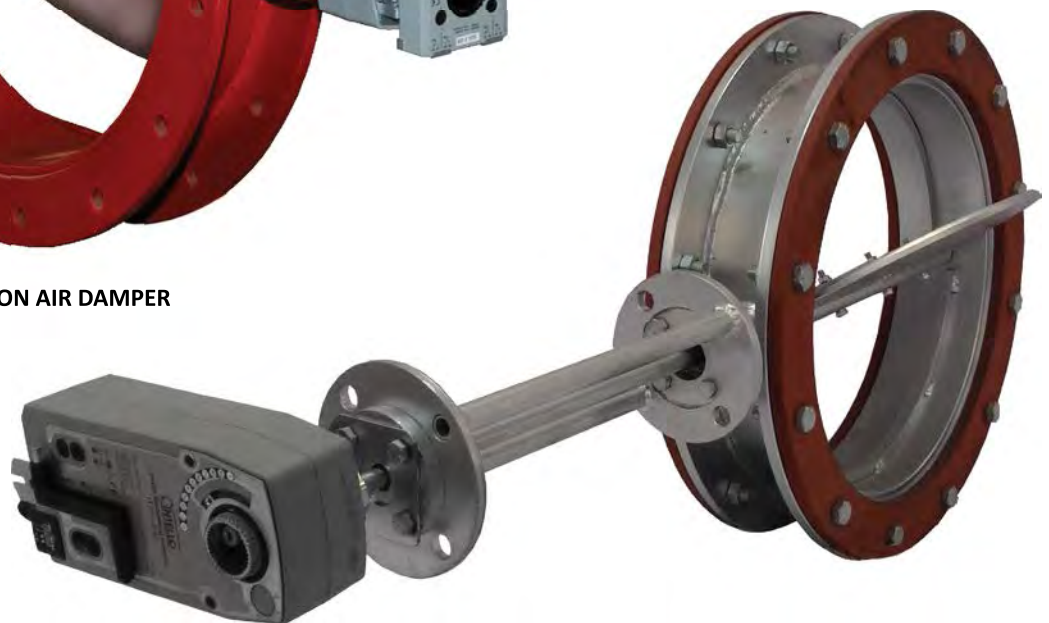
Ordering Information Required

- Gas to be used
- Pipeline size
- Max. inlet pressure (bar)
- Outlet pressure range (mbar)
- Max. gas flow (Nm³/hr)
- Power supply/ control voltage (Vac/Vdc)
- No. of burners - Single/Multiple





COMBUSTION AIR DAMPER



HOT AIR DAMPER

Butterfly Dampers and Valves

- For Combustion Air
- Manual or Motorised
- Motorised versions driven through Directly or indirectly coupled modulating motors.
- Constructed Mild Steel Construction, Light weight yet rugged, Easily installable on Combustion Air ducts/Piping, Flue ducts.
- Standard construction in Mild Steel. High temperature versions with SS disc and Shaft.
- Available in sizes 150NB to 1000NB
- Flanged End connections

- Machined body, disc, flanges and shaft. Ensure smooth operation
- Shaft well supported between Enclosed Ball Bearings at both Drive and non Drive ends. Ensures low operating torques.

Accessories

Valve Linkages

Limit switch boxes for valves/valves

Valve Position feedback potentiometer / transmitter

Flameproof Enclosures for Modulating Motors

Heat Shields for modulating motors





FURNACE INDUSTRY & BOILERS

Over 15 years of existence and experience in Combustion Engineering and Instrumentation makes Innovative Automation an authority in providing the best solutions related to Automation, Control and Safety of Combustion Equipment like Furnaces, Ovens, Burners, Kilns and Dryers.

The Project Vertical - Masters of all

Turnkey Solutions related to Combustion and Furnace Automation

- Supply, Installation and Commissioning of Gas Trains with Burners
- Burner Safety & Controls
- Automatic Ignition Panels
- Conversion from Oil/Solid Fuel to Gas Fired Systems
- Natural Gas Piping, Testing & 3rd party approvals
- Air Fuel Ratio Control
- Gas Leak Detection & Safety
- Flow Measurement & Totalisation
- Gas/Air Flow Control
- HART Transmitter Calibration
- Combustion System Analysis and Audit
- Combustion System Revamping and Retrofitting
- Combustion System AMC





The Innovative Advantages

- Authoritative knowledge in combustion engineering by virtue of our focused and dedicated work for the last 15 years in this industry
- The only company in India to Design, Manufacture and Test Gas Trains in an organized way
- Only company to offer off-site Flow Testing for Gas Trains
- A team of engineers and qualified technicians with vast experience in combustion engineering and commissioning at domestic as well as overseas installations. Some of our engineers are specially trained abroad at our principals' factories
- A state-of-the-art Testing and Calibration Center with all necessary instruments and apparatus to test, diagnose and verify the product performance
- Hands on training for customers' Engineers & Technicians at our laboratory.
- Among the very few companies who possess extensive knowledge of instrumentation as applied to the process of combustion
- Repairs, Spares & AMCs.



OUR PRODUCT VERTICAL

Innovative has established exclusive selling, distribution and service agreements for some of the Global brands like Madas, Contrive, Elektrogas, Seitron, Rockwin, etc. for Indian markets for products that include Gas Trains, Flame Detectors, Pressure Transmitters, Temperature Controllers and Recorders, Gas Leak Detectors, Motorized Valves, Burners and many such components.

We hold a large inventory of such products and spares, which are consumed in our projects as well as supplied to our customers. Our technical team have been trained by these companies to commission & service their products. As a result, we are much better placed to provide pre and post sales support for these products, which forms an important part of any Combustion Control System.



At our sophisticated Facility we Manufacture Pre-piped Gas Trains, Motorised Control Valves, Combustion Air Dampers, Butterfly Valves, Flow Metering Skids, Burner Management Systems, Auto Ignition Panels for Burners and allied system closely in line with International Standards. Our products are designed keeping in mind the needs of Combustion Application and user friendliness. We constantly work to adopt latest technologies to upgrade and enhance the performance of our products.



Madas SRL is a renowned Italian company manufacturing Gas Train components in accordance with European Gas Safety Standards. Innovative Automation Pvt. Ltd. is their exclusive partner for Sales, Integration, Distribution and Customer Support in India.



Contrive SRL is an Italian company manufacturing Specialty Burner Controllers suitable for UV Flame Sensors and Flame Rod applications (Including Single Rod). Innovative Automation Pvt. Ltd. is the exclusive distributor for Contrive in India.



Seitron SRL is one of the top companies in Italy manufacturing Leak Detectors, Gas Analysers and other portable measuring instruments for industrial as well as commercial and residential applications.





GAS PRESSURE REGULATORS



SLAM SHUT OFF VALVES



GAS SAFETY & REGULATION



AUTOMATIC RESET GAS SOLENOID VALVES



MANUAL RESET GAS SOLENOID VALVES



SAFETY RELIEF VALVES



NORMALLY OPEN SOLENOID VALVES



GAS FILTERS



GAS SAFETY & REGULATION



AIR GAS RATIO REGULATORS



GAS PRESSURE SWITCH



BALL VALVES



PUSH TO TEST VALVE FOR GAUGE INSULATION



FLAME SAFETY & IGNITION



BURNER SEQUENCE CONTROLLERS



FLAME SENSORS



IGNITION TRANSFORMERS

FLOW METERING



TURBINE GAS METER WITH EVC



TURBINE CONSUMPTION GAS METER



AIR / GAS FLOW CONTROL



INTELLO IT15 ACTUATOR



MOTORISED BUTTERFLY VALVE



INTELLO Q-SERIES ACTUATOR



MOTORISED GLOBE VALVE



INTELLO L-SERIES ACTUATOR



GAS LEAK DETECTION



MULTIGATE SYSTEM CENTRAL UNIT



EX-PROOF GAS TRANSMITTER



STANDARD GAS TRANSMITTER



PORTABLE GAS DETECTOR



2 IN 2 OUT REMOTE SENSOR



2 IN 2 OUT SYSTEM

COMBUSTION GAS ANALYZERS



CHEMIST 500



CHEMIST 500 KIT



BURNER CONTROLS



UV FLAME DETECTORS



BURNER SEQUENCE CONTROLLER



PRESSURE SWITCHES



UV FLAME SWITCHES

PROCESS CONTROL & MONITORING



MODULATING MOTORS



ADVANCED DIGITAL CONTROLLER



PRESSURE TRANSMITTERS

SPARES & ACCESSORIES



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