



GTS CONTROLS & ENERGY SYSTEMS PVT. LTD.

Combustion Solutions.
Built for Performance.

PILOT BURNER

PB-FD SERIES

ENGINEERED FOR EFFICIENT INDUSTRIAL HEATING

PB-FD series pilot burners are designed for reliable ignition and flame supervision. The gas and combustion air are mixed inside the burner body without the need of an external mixer. Suitable for use with various gaseous fuels in industrial



KEY FEATURES

- ✓ Capacity Range: 2 kW to 7 kW
- ✓ Fuel Options: Natural Gas /LPG/Propane
- ✓ Separate air & gas inlets
- ✓ Internal air-gas mixing design
- ✓ No external mixer required
- ✓ Dual rod (Ignition + Ionization) option
- ✓ Replaceable electrodes from outside
- ✓ Micrometer type adjustable gas valve
- ✓ Compact & robust construction
- ✓ Lengths can be customized
- ✓ Operates with various gaseous fuels

* * L = Burner Length available in different sizes to suit customer requirements with length increments 150, 200,300.....mm



RELIABLE
IGNITION



SAFE FLAME
DETECTION



COMPACT
DESIGN



EASY
MAINTENANCE



APPLICATIONS

- Main Burner Pilot Ignition
- Billet Heating Furnaces
- Furnaces for Glass
- Casting Burners
- RTO & Incineration Furnaces
- Aluminium Industry



PRODUCT DESCRIPTION

The PB-FD series pilot burners are equipped with separate air and gas inlets. The gas and air are mixed inside the burner body without the need of an external mixer. Ignition and flame detection are achieved using a single electrode (Unirod). Models with dual electrodes for ignition and flame ionization are also available. The gas inlet is provided with a micrometer type adjustable regulating valve, enabling use with many industrial and commercially available gaseous fuels, except fuels with lower heating values less than 4000 kcal/m³.



BURNER PARAMETERS (NATURAL GAS)*

Model	Maximum Burner Capacity (kW)	Gas Pressure (mbar)	Air Pressure (mbar)	Flame Detection	Ignition
PB-FD-SR-01	2	20-80	30-80	Unirod	Single Electrode
PB-FD-SR-02	4	20-80	30-80	Unirod	Single Electrode
PB-FD-DR-01	4	20-80	30-80	Ionization Rod	Ignition Electrode
PB-FD-DR-02	7	20-80	30-80	Ionization Rod	Ignition Electrode



AVAILABLE OPTIONS

- Single Rod (Unirod)
- Dual Rod (Ignition & Ionization)
- Fuel: Natural Gas
- Fuel: LPG
- Fuel: Propane
- Fuel: Special Gas
- Different Lengths Available (150, 200, 300, 400, 500, 600 mm & higher on request)
- Flame Rectifier Option



MECHANICAL CONSTRUCTION

- Burner Head : AISI 310
- Protective tube : AISI 304 / AISI 310
- Flame Tube : AISI 310/INCOLOY 601
- Burner Casting : Aluminium Alloy
- Fastners : SS
- Electrode : Kanthal

*Based on Natural Gas with Calorific Value of 8600 Kcal/Nm³, operating in stoichiometric ratio at nominal capacity. Results may differ depending on actual site & operating conditions.

CONTACT US

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PREMIX PILOT BURNER

PPB SERIES

STABLE IGNITION RELIABLE PERFORMANCE.

GTS Premix Pilot Burners are compact, high-efficiency pilot burners designed to provide reliable ignition for main burners in industrial heating systems. The premix design ensures stable flame, low emissions and consistent performance across a wide range of operating conditions.

KEY FEATURES

- ✓ Capacity: 1 to 15 kW
- ✓ Fuel Compatibility: LPG /Propane /Natural Gas
- ✓ Flame Type: Premix Flame
- ✓ Application: Pilot Ignition for Main Burner
- ✓ Ignition- High Temp. Ceramic Spark Electrode
- ✓ Premix combustion for stable and clean flame
- ✓ Reliable spark ignition
- ✓ Compact and robust design
- ✓ Consistent pilot flame even in variable conditions
- ✓ Easy installation and maintenance
- ✓ Long service life and dependable operation



STABLE
FLAME



RELIABLE
IGNITION



DURABLE
CONSTRUCTION



EASY
INSTALLATION



APPLICATIONS

- Re-heating Furnace
- Melting Furnaces
- Heat Treatment Furnaces
- Boilers and Heaters
- Incinerators
- Process Ovens
- Other Industrial Heating Applications



PRODUCT DESCRIPTION

The GTS PPB Series Premix Pilot Burners are compact, high-efficiency pilot burners designed to provide better ignition and stable flame performance for industrial gas burners. The premix combustion design ensures clean combustion, low emissions, and dependable operation with Natural Gas, LPG, Propane.

Suitable for a wide range of industrial combustion systems requiring reliable ignition and precise flame stability.



BURNER PARAMETERS (NATURAL GAS)*

Model	Maximum Burner Capacity (kW)	Electrode Position	Fuel	Burner Connection (BSP)	Gas Inlet Connection (BSP)
PB-10	1	VP/H	NG/LPG	3/8"	1/4"
PB-15	2	VP/H	NG/LPG	1/2"	3/8"
PB-20	5	VP/H	NG/LPG	3/4"	1/2"
PB-25	10	VP/H	NG/LPG	1"	3/4"
PB-30	15	VP/H	NG/LPG	1-1/4"	1"

*VP-Vertical Position, H- Horizontal Position

*Based on Natural Gas with Calorific Value of 8600 Kcal/Nm³, operating in stoichiometric ratio at nominal capacity. Results may differ depending on actual site & operating conditions.



MECHANICAL CONSTRUCTION

- Burner body : Stainless Steel (SS304/SS310)
- Mixing Tube : Stainless Steel (SS304/SS310)
- Mounting Flange /Bracket : Mild Steel (Powder coated)
- Ignition Electrode : Alumina Ceramic
- Gas Inlet Fitting : Brass/SS

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