



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

Office No.1210, CENTRUM, Near Satkar Hotel,
Opp. Railadevi Lake, Wagle Industrial Estate,
MIDC, Thane (W) - 400 604, Maharashtra, India



+91 70390 60877
+91-22-25839230 / 31



info@gtscontrolsenergy.com



www.gtscontrolsenergy.com