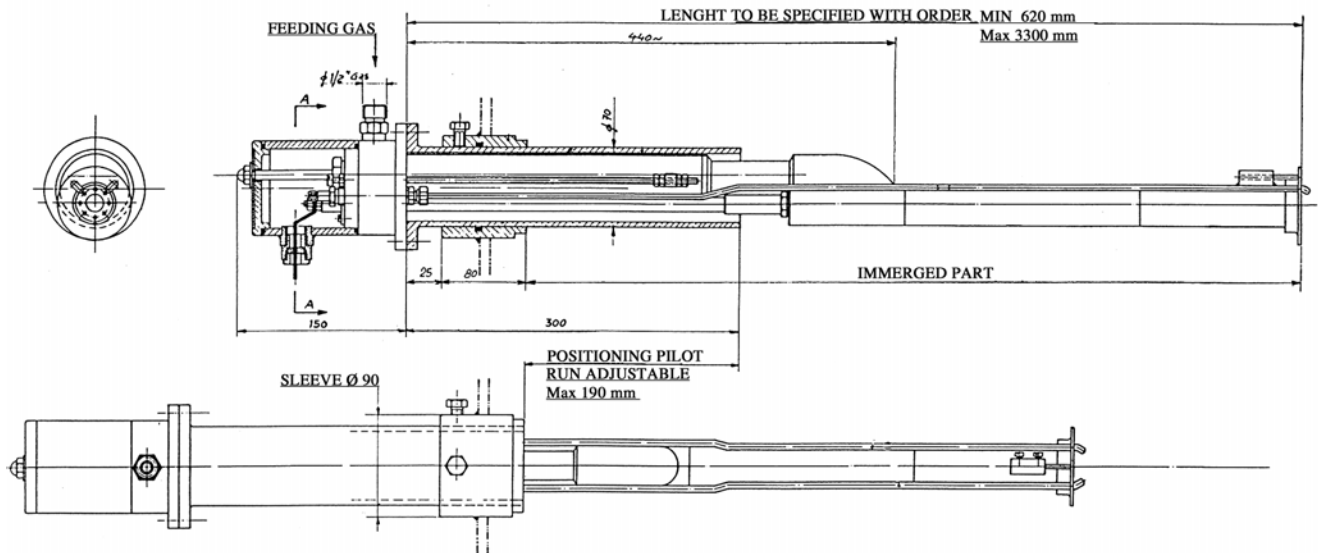




Fusar Bassini Astorre e C. Snc

C7010/...

GAS PILOT BURNER



GASES Natural gas – liquid gas

GAS PRESSURE TO THE PILOT From 0,1 to 2 Ate

AIR PRESSURE TO THE MAIN BURNER BOX From 150 – 600 mm H₂O

HIGH VOLTAGE ELECTRIC SWITCH: V. 6000

AVAILABLE LENGHT: Between Min 620 mm Max 3300 mm

GAS FLOW TO PILOT Min 2 Mc/ora Max 30 Mc/ora

Fusar Bassini Astorre e C. Snc

GAS BURNERS AND COMPONENTS FOR COMBUSTION SYSTEMS

Via P.M. Ferrè, 14 -26013 CREMA (CR) Tel/Fax 0373-257594 web: www.fusarbassini.it e-mail: info@fusarbassini.it





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C7010/...

GAS PILOT BURNER

GENERAL DESCRIPTION

The C7010 pilot burner provides automatic ignition for gas, oil or mixed (gas-oil) main burners of industrial steam generators.

The new design provides a double simultaneous gas supply to the pilot to obtain a large, steady flame.

The primary low flow gas supply and air are stoichiometrically premixed inside the premixing chamber. The air/gas mixture comes to the pilot burner flame retention head and is ignited by means of an electrical spark. The flame is exceptionally stable under normal air turbulence, but its volume is too small to obtain a reliable flame detection and positive ignition of the main burner.

To overcome this draw-back, another raw gas supply is provided through two inlets at the base of the flame. The raw gas ignites and magnifies the pilot flame. Thus, the flame is reliable proven and the main burner positively ignited. The flame pattern and size can be varied by adjusting the raw gas inlets.

Installation of C7010 is very easy because for operation it is necessary only to connect the gas supply; air is supplied from the main burner air box (see enclosed drawing).

PILOT BURNER ADJUSTMENT AND CHECK OUT

To check pilot operation remove cover and temporarily connect the high voltage ignition transformer wire.

- Premixed pilot flame adjustment is the most important operation; should be performed with the primary (low flow) gas supply only.

Fully tighten the two raw gas adjustment screws (see drawing), to prevent raw gas flow through the two pipes.

- Adjust premixer air control screw until clearance is about 2 mm (i.e. primary air control near to close)
- Shut fuel supply to main burner by means of manual cocks and set air supply adjustment until main burner, fire box etc... are under normal starting conditions.
- Light pilot burner. Flame should be steady and blue; be sure that inside the target the retention system is properly operating (this is a very important condition). In order to do that adjust premixed air control. Flame pattern control is achieved by operating air adjusting screw of the premixer; screw position is determined by clearance. Repeat pilot ignition several times under these operating conditions to check adjustments.
- When flame is proven, adjust screw of raw gas until desired flame pattern is obtained.
- Repeat pilot ignition tests under these operating conditions changing air damper position, draft etc... If necessary recheck adjustment.

WHEN ORDERING SPECIFY

Model number and desired pilot length.

Available pilot lengths are between 620 and 3300 mm.

Add the desired pilot length in mm to model number C7010/...

(example: C7010/1250 is a pilot 1250 mm long)

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