



G.I.E.

FDB BURNERS



OIL & GAS • CHEMICALS & PETROCHEMICALS • IRON AND STEEL INDUSTRY

FDB BURNER

FORCED DRAFT FUEL GAS BURNER

A tailor-made product line of flexible burners which are particularly suitable for outdoor installation and explosion proof areas applications.

The FDB Burner is the reliable solution for heavy duty application with no maintenance necessities.

FDB Burners are all equipped with a special designed mechanical linkage, controlled by one single electro-mechanical servomotor, which modulates simultaneously the combustion air as well as the fuel gas, providing at any stage of combustion process an optimum fuel/air mixture.

The effective air/gas turbulence is generated by the burner combustion air plenum configuration which provides a very good combustion efficiency, with very low percentage of unburnt compound.

FDB Burner find their application in several industrial combustion process applications, the customized design and construction of these burners can be adapted to match the customers combustion chamber dimension and any other customer requested working condition.

Main Industries served:

- Steel and metal industries
- Cement industries
- Petrochemical plants
- Oil and Gas distribution

Application:

- Steam boiler
- Water boiler
- Incinerator
- Air Heater
- Gas heater
- Water Bath Heater
- Salt Bath Heater

Turn down ratio

Up to 1:10

Combustion air

Ambient / 350°C

Service

Continuous or non-continuous service

Flue gas Emissions:

- NO_x <200 mg/Nm³ @ 3% O₂ (*)
- CO <100 mg/Nm³ @ 3% O₂

(*) With combustion air temperature < 30°C and thermal load < 1000kW/m³

Code:

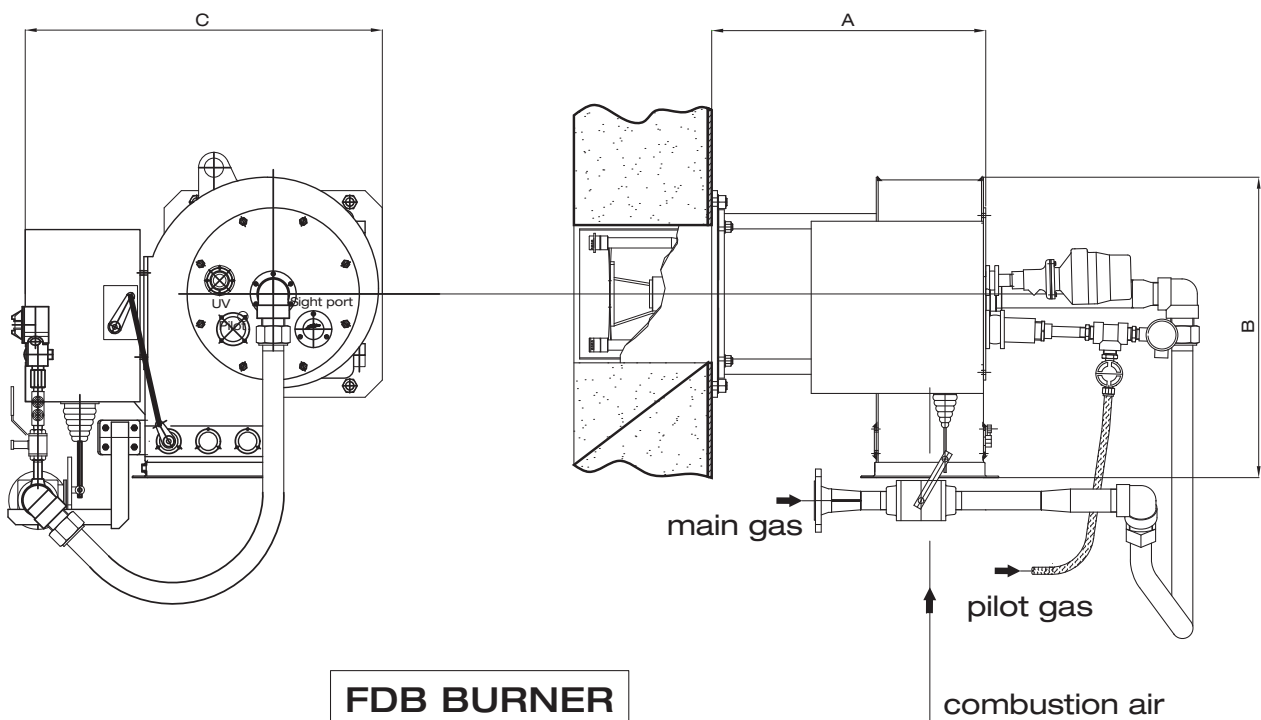
- ATEX 94/9 CE
- NFPA 85
- EN 676 - 746



ACCESSORIES and SERVICES

Upon request the following equipment and services can be designed and supplied by GIE srl: ➔

- ➔ BMS - DCS
- ➔ Local control panel
- ➔ Fuel Gas skid and reducing pressure unit
- ➔ Field instrumentation
- ➔ Piping - Combustion Air fan
- ➔ Combustion Air duct
- ➔ Site assistance



FDB BURNER

Model	kW	Overall Dimension		
		A	B	C
FDB-G 1000	1000	490	580	750
FDB-G 2000	2000	600	620	800
FDB-G 3500	3500	705	785	950
FDB-G 5000	5000	750	840	980
FDB-G 7000	7000	800	910	1000
FDB-G 8000	8000	850	1020	1060
FDB-G 10000	10000	870	1100	1080
FDB-G 11000	11000	900	1160	1120

NOTE: dimensions are indicative and for guide purposes only

Contact us for more details



GIE S.r.l. Società di capitale

Via Ettore Monti, 9 - 23851 Galbiate (LC) - ITALY
Phone +39 0341 350509 - Fax +39 0341 350045
E-mail info@gie-srl.com - Web www.gie-srl.com