

EQA 93 gas burners are used in those systems where the available pressure is 0.2 to 3 kg/cm² and where the energy produced by the gas itself is the one necessary for its operation; that is to say, a fan or compressor are not required.

When passing through the venturi, the high-pressure gas flow sucks up the necessary air for combustion, which at the same time is controlled and regulated by the primary air register.

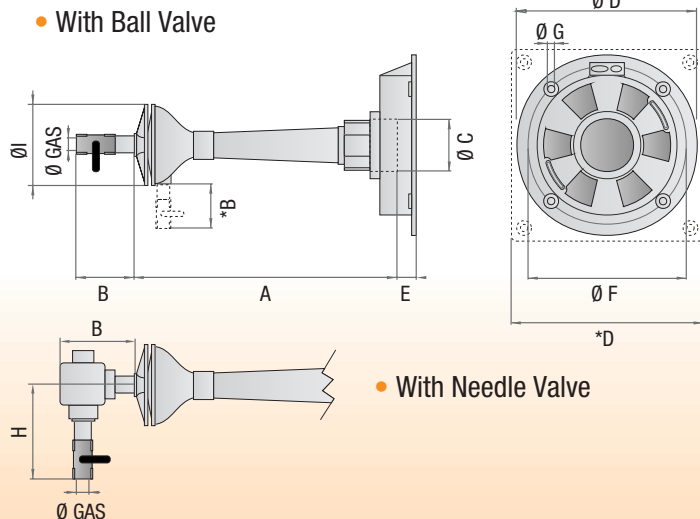
The regulation of the air-gas mixture, which allows obtaining the desired type of flame, is performed with the above-mentioned air register, the secondary air register and the burner's ball valve. As an option, this burner admits gas regulation through a needle-type system which diminishes or increases the area where the injector works.

The EQA 93 burner's design is highly specialised and offers the following advantages, among others:

1. Venturi throat aerodynamically designed to ensure the greater quantity of air obtained and the total absence of turbulence in the inside.
2. Fire nozzle with ring chamber, which produces a high retention of flame, eliminating the possibility of switching off.



DIMENSIONS in mm.



| Model | A | B | C | D | E | F | G | H | I | Ø Gas |
|-------------|------|------|-----|------|----|-----|----|-----|-----|--------|
| 93 - 1" | 250 | 70 | 47 | - | - | - | - | - | 72 | 3/8" |
| 93 - 1 1/4" | 350 | 100 | 55 | 255 | 34 | 230 | 12 | 60 | 114 | 3/8" |
| 93 - 1 1/2" | 410 | 100 | 70 | 255 | 34 | 234 | 12 | 60 | 114 | 3/8" |
| 93 - 2" | 525 | 120* | 87 | 300 | 37 | 263 | 12 | - | 138 | 1/2" |
| 93 - 3" | 640 | 120 | 115 | 365 | 37 | 327 | 14 | 70 | 162 | 1/2" |
| 93 - 4" | 780 | 130 | 150 | 387 | 20 | 350 | 14 | 91 | 207 | 3/4" |
| 93 - 6" | 980 | 150 | 216 | 524* | 41 | 686 | 20 | 137 | 295 | 1 1/2" |
| 93 - 8" | 1450 | 180 | 300 | - | - | - | - | 137 | 385 | 1 1/2" |

A + B + E: Length with plate
A + B: Length without plate

High Pressure Burner

EQA 93

APPLICATIONS

Efficiency and performance of EQA 93 burners have been widely proven in the most diverse applications, such as glass furnaces, forging furnaces, annealing furnaces, tempering furnaces, rotary ovens, ceramic or refractory land dryers, heat exchange units, gas or petroleum heaters, ceramic furnaces, etc. They can also be used as air-gas mixers to feed several fire nozzles, continuous flame burners, etc.

They are manufactured in two forms: straight and bended in eight different sizes, their capacities being up to 12,000,000 BTU/h with various types of fire nozzles: for low and high temperatures (up to 2,215°F).

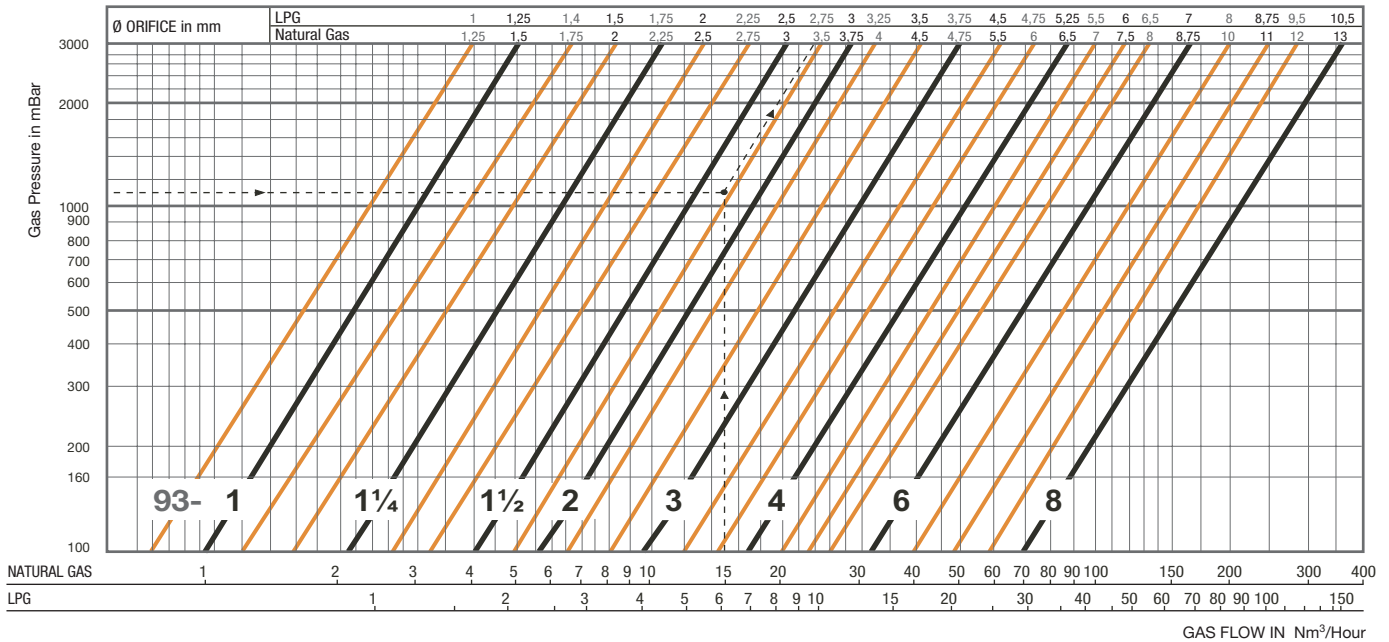
INSTALLATION

The EQA 93 burners assembly can be carried out through a front plate.

AUTOMATION

EQA-93 burners admit any type of automation and combustion controls, such as thermocouple flame controllers, electronic controllers, ultraviolet photocells, as well as solenoid valves, pneumatic and/or modulating valves, commanded by safety controls, temperature, among others.

EQA 93 Capacities and Orifices Chart in m³/Hour



The **black** lines show the maximum capacity for each model. In the upper side of the chart is the diameter of each orifice. At left of each line, the **orange** lines show the same model with a smaller orifice.

CALORIFIC CAPACITY GAS

NATURAL GAS: 9.300 Kcal/m³

LPG: 22.500 Kcal/m³

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