

FGP 44.22-LX - FGP 55.22-LX

Light-oil burners at two steps pressure - Low NO_x (NO_x < 120 mg/kWh).

Composed by: die-cast aluminum body, fan at high pressurisation and combustion head with adjustment at high efficiency and high flame stability

Compact overall dimensions and disposition rationalized of the components with accessibility facilitated for the operations of setting and maintenance..

Complete of nozzle, flange and gasket for installation on generator, flexible pipes, line filter.

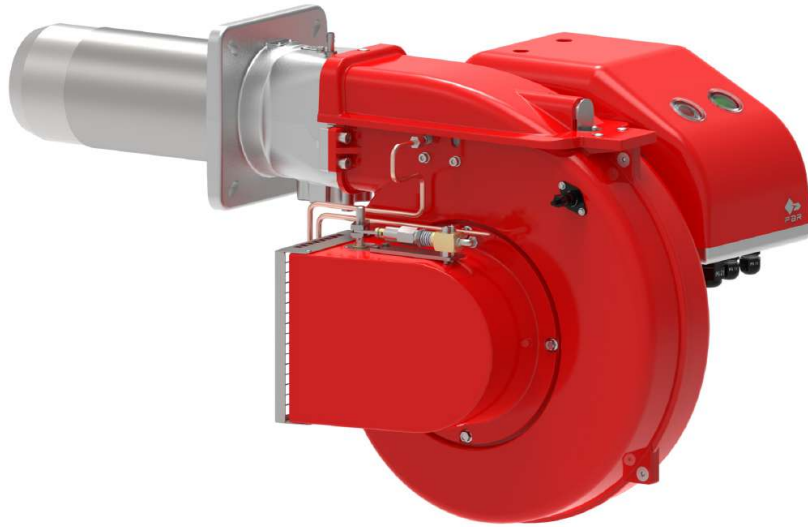


Fig. FGP 44.22-LX

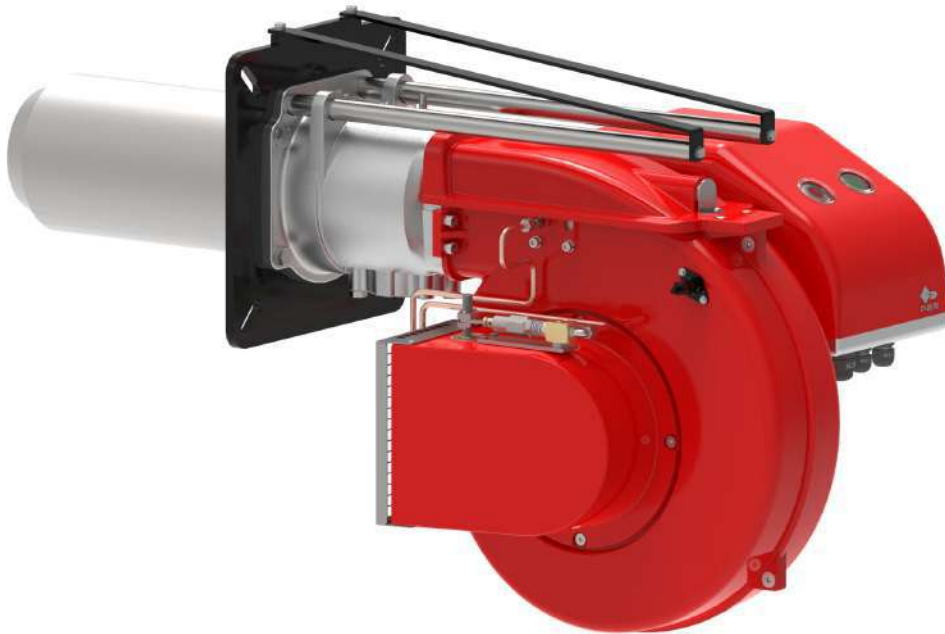


Fig. FGP 55.22-LX

TECHNICAL DATA

MODEL		FGP 44.22-LX
Flow min.1°st. / min. 2°st. - max. 2°st. *	[kg/h]	14.4/20-44
Thermal power min.1°st. / min. 2°st. - max. 2°st. *	[Mcal/h]	147/204-450
Thermal power min.1°st. / min. 2°st. - max. 2°st. *	[kW]	171/237-522
Fuel: LIGHT-OIL 1.5°E at 20°C = 6.2 cSt = 35 sec Redwood N°1		
NO _x **	[mg/kWh]	< 120:class 3 (EN267)
Intermitted working operation (min. 1 stop every 24 hours) two steps pressure		
Environmental conditions operation / storage:	-15...+40°C / -20...+70°C, rel. humidity max. 80%	
Max. temperature combustion air	[°C]	60
Nominal electric power	[kW]	1.1
Fan motor	[kW]	0.74
Nominal current absorption	[A]	2
Power supply:	3~400V, 1N~230V - 50Hz	
Electric protection degree:	IP 40	
Noisiness min. - max. ***	[dBA]	77

*Reference conditions: Environment temperature 20°C - Barometric pressure 1013 mbars - Altitude 0 metre (sea level).

** To obtain the NO_x emissions as low as declared, it will be necessary to couple the burner to boilers suitable for this purpose: three-pass boilers, condensing boilers and any direct exhaust generator with a thermal load no higher than 1.1 MW/m³.

*** Measured sonorous pressure in the combustion lab, with functional burner on beta boiler in a distance of 1 m (UNI EN ISO 3746).

OPERATING RANGE DIAGRAM FGP 44.22-LX

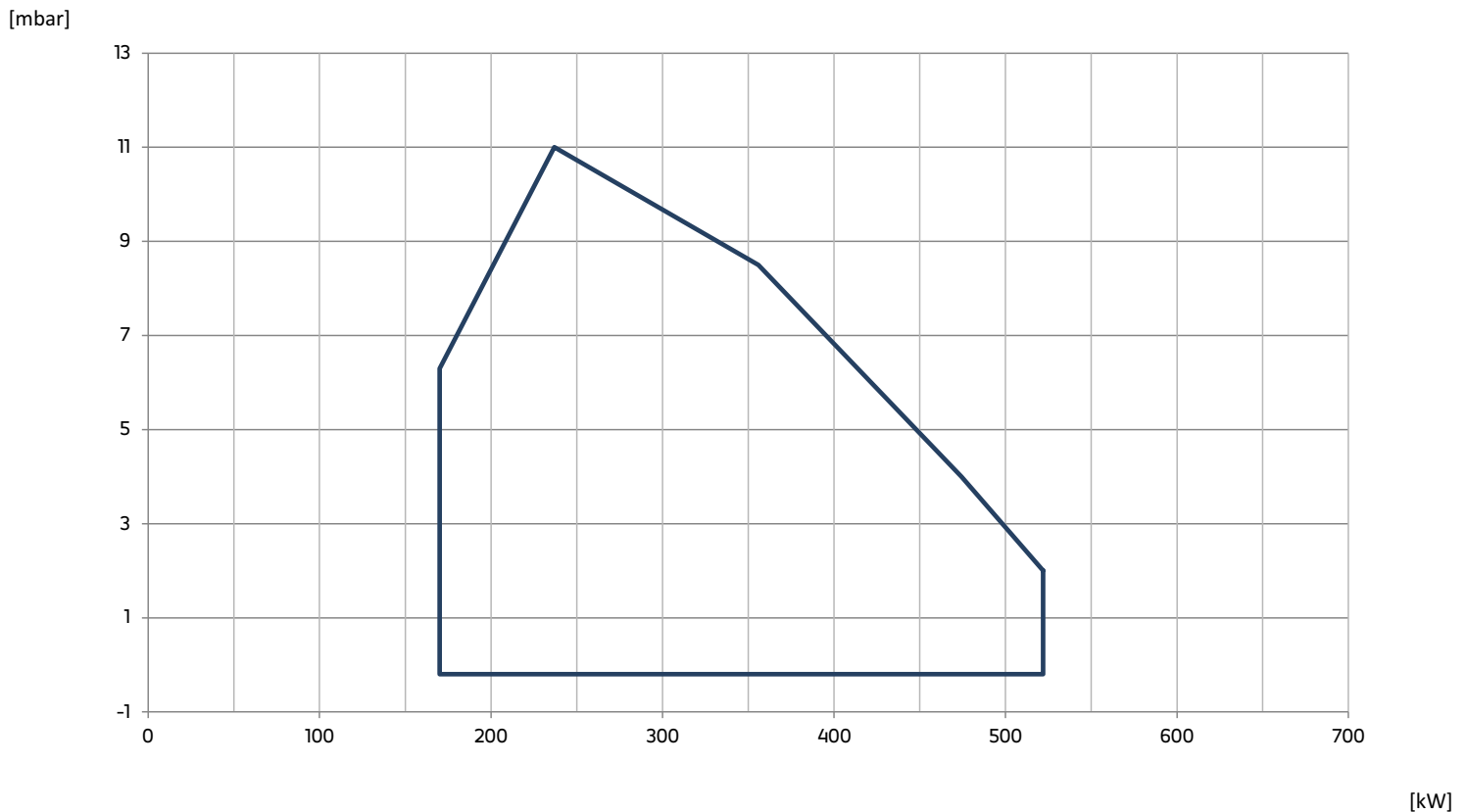


Fig. X = Thermal power Y = Pression in the combustion chamber

The firing rates has been obtained based on test boilers in accordance with EN267 standards and are indicative of matching the burner to the boiler. For the correct operation of the burner, combustion chamber dimensions must be in accordance with current regulation. In case of non-compliance, contact the manufacturer.

TECHNICAL DATA

MODEL		FGP 55.22-LX
Flow min.1°st. / min. 2°st. - max. 2°st. *	[kg/h]	23.4/30-55
Thermal power min.1°st. / min. 2°st. - max. 2°st. *	[Mcal/h]	239/306-561
Thermal power min.1°st. / min. 2°st. - max. 2°st. *	[kW]	277/355-652
Fuel: LIGHT-OIL 1.5°E at 20°C = 6.2 cSt = 35 sec Redwood N°1		
NOx **	[mg/kWh]	< 120:class 3 (EN267)
Intermittent working operation (min. 1 stop every 24 hours) two steps pressure		
Environmental conditions operation / storage:	-15...+40°C / -20...+70°C, rel. humidity max. 80%	
Max. temperature combustion air	[°C]	60
Nominal electric power	[kW]	1.7
Fan motor	[kW]	1.5
Nominal current absorption	[A]	3
Alimentazione elettrica:	3~400V, 1N~230V - 50Hz	
Power supply:	IP 40	
Noisiness min. - max. ***	[dBA]	78
Burner weight ****	[kg]	52

*Reference conditions: Environment temperature 20°C - Barometric pressure 1013 mbars - Altitude 0 metre (sea level).

** To obtain the NOx emissions as low as declared, it will be necessary to couple the burner to boilers suitable for this purpose: three-pass boilers, condensing boilers and any direct exhaust generator with a thermal load no higher than 1.1 MW/m³.

*** Measured sonorous pressure in the combustion lab, with functional burner on beta boiler in a distance of 1 m (UNI EN ISO 3746).

**** Only for burner FGP 55.22-LX TL version.

OPERATING RANGE DIAGRAM FGP 55.22-LX

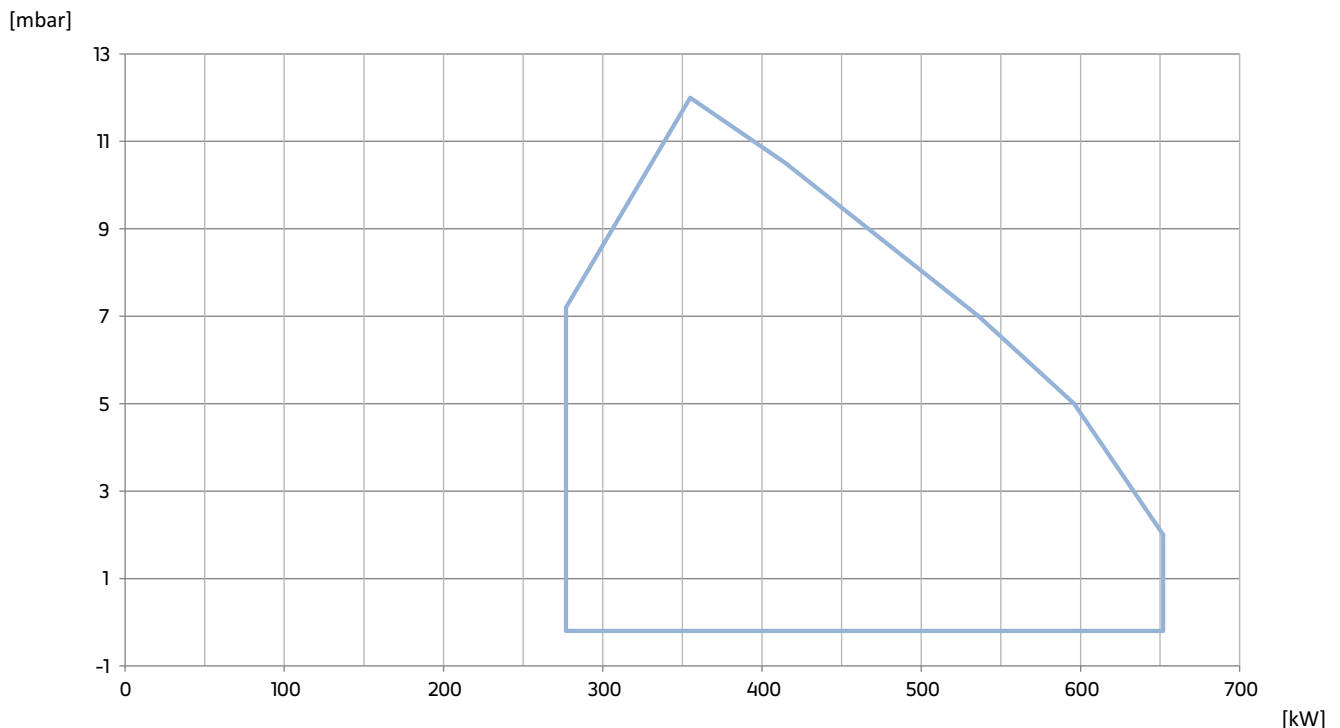


Fig. X = Thermal power Y = Pression in the combustion chamber

The firing rates has been obtained based on test boilers in accordance with EN267 standards and are indicative of matching the burner to the boiler. For the correct operation of the burner, combustion chamber dimensions must be in accordance with current regulation. In case of non-compliance, contact the manufacturer.

DIMENSIONS [MM]

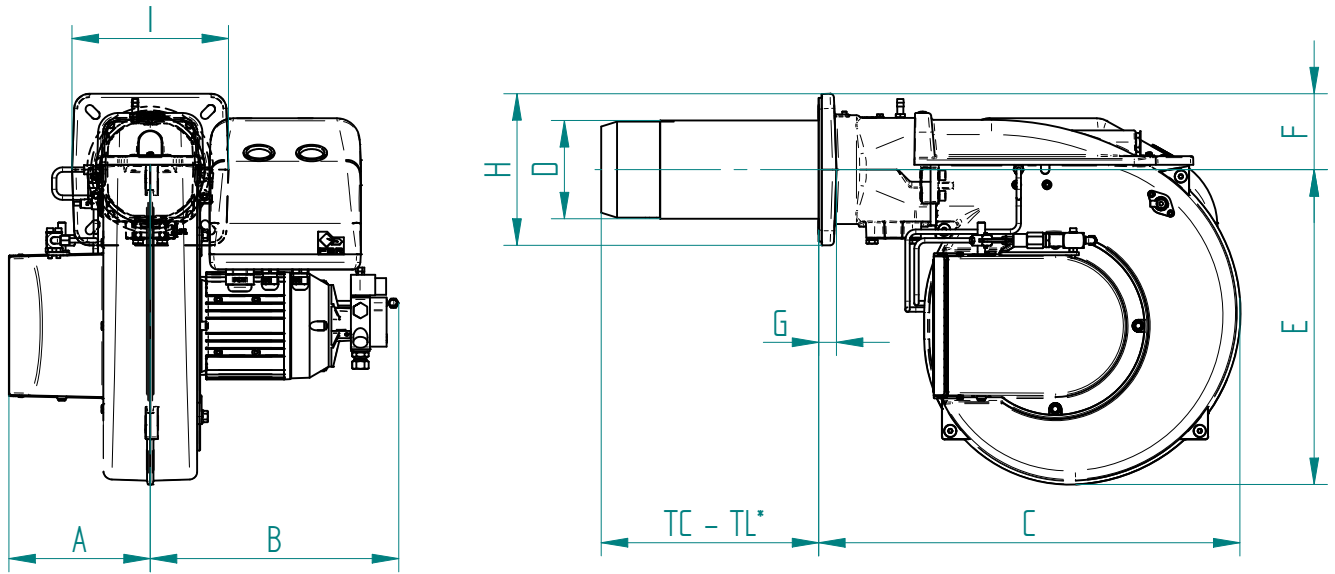


Fig. Dimensions FGP 44.22-LX

MODEL	A	B	C	D	E	F	G	H	I
FGP 44.22-LX	187	330	557	130	416	100	23	200	207

* See "flame tube length"

DIMENSIONS [MM]

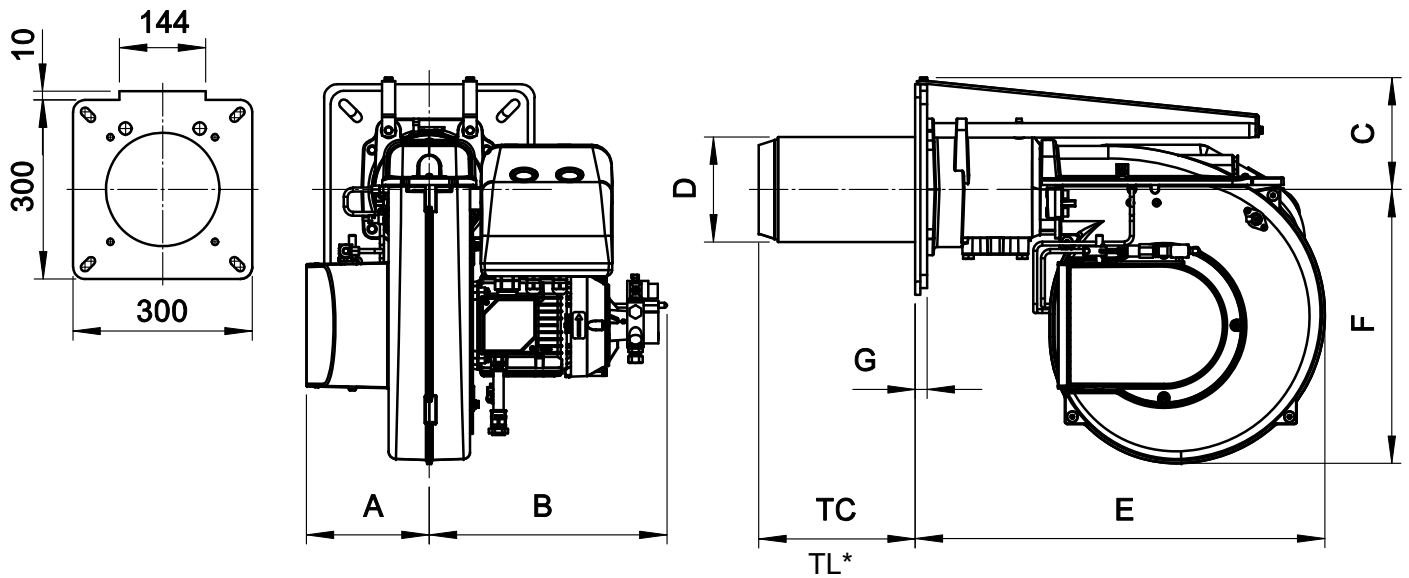
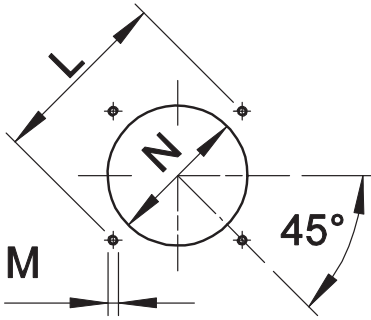


Fig. Dimensions FGP 55.22-LX

MODEL	A	B	C	D	E	F	G
FGP 55.22-LX	187	362	170	160	623	416	18

* See "flame tube length"

BOILER PLATE



* Suggested dimension of connection between burner and generator.

Fig. Boiler plate

MODEL		L min	L max	M	N min	N *	N max
FGP 44.22-LX	mm	205	226	M10	160	160	180
FGP 55.22-LX	mm	310	368	M12	170	180	250

FLAME TUBE LENGTH

Flame tube length must be selected based on the specifications supplied by boiler manufacturer and, in any case, it must be greater than the thickness of the boiler door included its insulation. In case of boilers with flame inversion or front flue combustion chambers, it is necessary to insulate the area between the flame tube and front door with refractory material. This protection material must not impede flame tube extraction.

MODEL		TC	TL **
FGP 44.22-LX	mm	288	373
FGP 55.22-LX	mm	238	323

** For different flame lengths, please contact our Technical-Sales Department.

BURNER SIGNAL DESCRIPTION

In the picture below there are indicated all the signalation present on the burner:

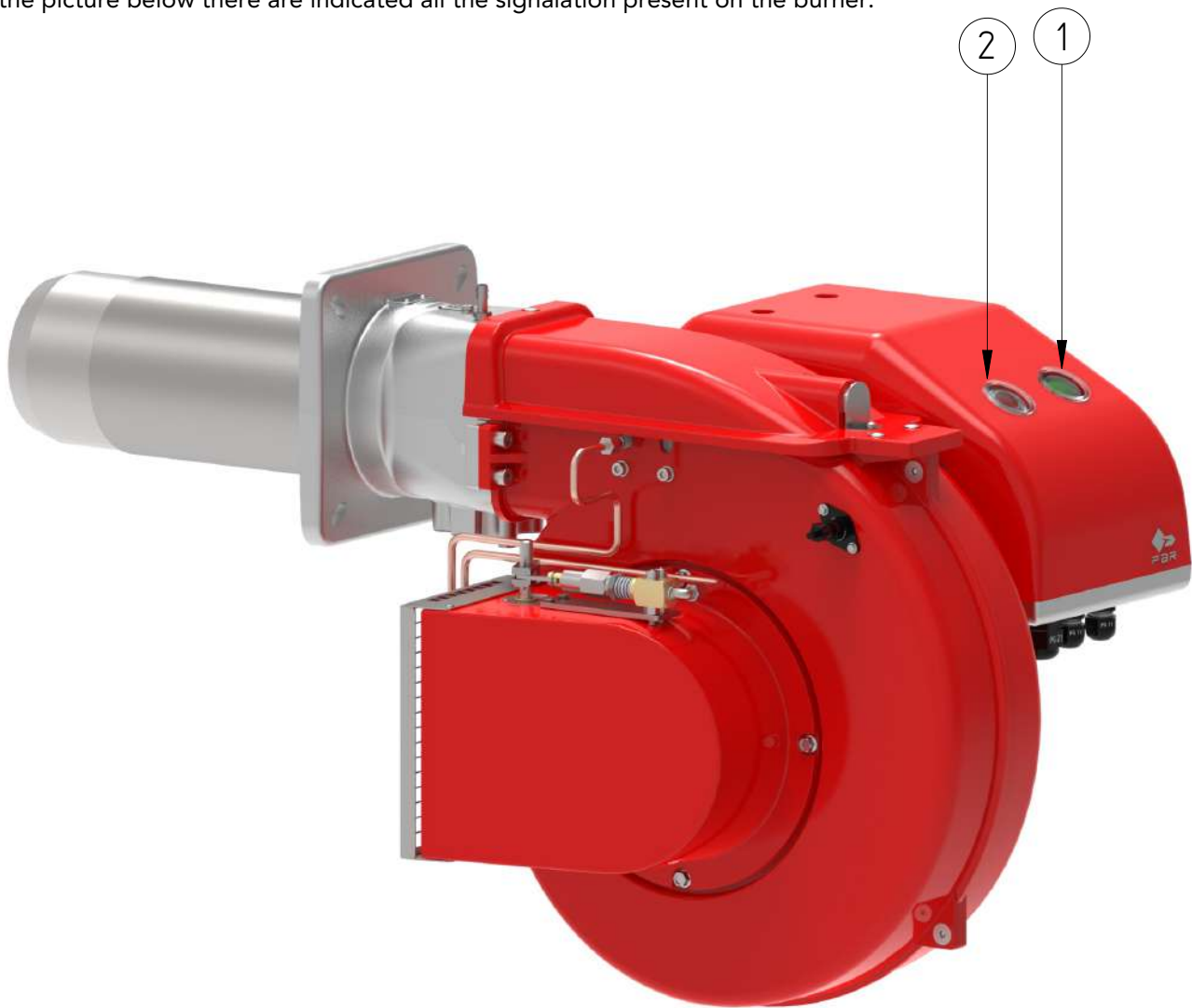





Fig. Burner signal description

LEGEND

- 1) ON/OFF button
- 2) Reset from lockout button + status lamp

-  The multicolor signal lamp in the lockout reset button (pos.2) is the key indicating element for visual diagnostics and interface diagnostics.
In normal operation, the different operating states are indicated in the form of color codes; please refer to electrical device handbook supplied with the present instructions.
 -  After a non-alterable lockout, the red signal lamp in the lockout reset button (pos.2) lights up.
By pressing the lockout reset button (pos.2) for more than 3 seconds, the visual diagnostics of the cause of fault can be activated; please refer to electrical device handbook supplied with the present instructions.
- For close the diagnostics mode and for switch on the burner again, it is necessary to reset the burner control.
Press the lockout reset button (pos.2) for about 1 second (<3 seconds).
-  After a non-alterable lockout, the red signal lamp in the lockout reset button (pos.2) lights up.
For reset the control box press the lockout reset button (pos.2) for about 1 second (<3 seconds).

PRODUCT SPECIFICATION

SHORT DESCRIPTION

Light-oil burners at two steps pressure - Low NOx (NOx < 120 mg/kWh).

DETAILED SPECIFICATION

Light-oil burners at two steps pressure - Low NOx (NOx < 120 mg/kWh), composed by:

- Fan at high pressurisation;
- Combustion head with adjustment at high performance and elevated flame stability equipped with inox steel blast tube and inox steel flame disc;
- Flange and insulating gasket for fixing at boiler;
- Three-phase power supply;
- Photodiode for flame detection;
- IP 40 electric protection level;
- Supports and tierods for burner extraction for easy maintenance operations only for the model FGP 55.22-LX;
- Easy extraction of combustion head without get off the burners by bolier.

CONFORMING TO:

- CE rules;
- 2014/30/UE Directive E.M.C.;
- 2014/35/UE Directive L.V.;
- 2006/42/CE Directive M.D.;
- 2014/68/UE (ART.4,PAR.3); Directive P.E.D.;
- Reference rules: EN267 (liquid fuel) - EN746-2 (industrial thermoprocessing equipment).

STANDARD EQUIPMENT

- Flexible hoses for connection;
- Line filter;
- Isomart gasket;
- Nozzle;
- Flange with insulating gasket;
- Burner nameplate;
- Warranty;
- Instruction handbook for installation, use and maintenance.

OPTIONAL

- Noise protection.