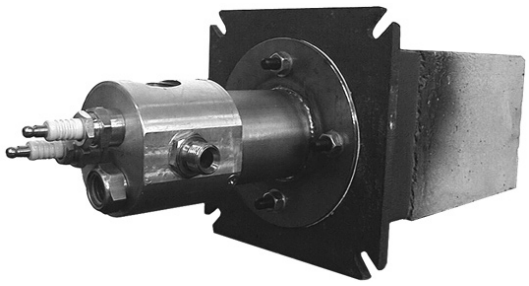
LINEA BRUCIATORI DI GAS - GAS BURNER LINE	Alta/Media Velocità Intensivi *Intensive High/Average Speed*	
POTENZIALITA' *OUTPUT* *KW*	*CAMERA IN PIGIATA* *CONCRETE CASTING CHAMBER*	
23	*BP M 2 GV S/30*	
58	*BP M 5 GV S/30*	
190	*BP N 7 GV S/0*	
400	*BP N 18 GV S/0*	
700	*BP N 60 GV S/0*	*BP N 60 GV S/0 PC*
1160	*BP N 100 GV S/0*	*BP N 100 GV S/0 PC*
1750	*BP N 150 GV S/0*	*BP N 150 GV S/0 PC*
2325	*BP N 200 GV S/0*	*BP N 200 GV S/0 PC*
3500	*BP N 300 GV S/0*	
6000	*BP N 600 GV S/0*	

RIELLO

BRUCIATORE AD ALTA / MEDIA VELOCITÀ INTENSIVO
INTENSIVE HIGH AND AVERAGE SPEED BURNER

BP M 2 GV S/30



Generalità

Il bruciatore di gas **"BP M 2 GV S/30"** é un bruciatore ad aria soffiata funzionante con gas naturale, G.P.L., manufatti e gas a basso potere calorico (a richiesta).

Il funzionamento di questo bruciatore può essere automatico o semiautomatico, ed é previsto di accensione e rilevazione tramite elettrodo.

E' un bruciatore propriamente classificato *"bruciatore di gas ad alta/media velocità"*, con velocità dei gas combusti in uscita dalla camera di combustione variante da pochi m/s fino a 100 m/s o velocità superiori in funzione della sezione di uscita del cono bruciatore.

La temperatura dell'aria comburente prevista su questo bruciatore può variare da temperatura ambiente fino a 100 °C.

La potenzialità termica massima é di 23 kW (20.000 kcal/h) mentre la potenzialità minima può arrivare fino a 2 kW (1.650 kcal/h).

Essendo questo bruciatore molto flessibile, può essere regolato con larga escursione di portata fino ad un rapporto di 10:1.

General Informations

The **"BP M 2 GV S/30"** *gas burner is a blown-air burner which can operate with natural gas, LPG, lean gas and gas with low calorific power (on request).*

Burner operation may be automatic or semiautomatic, and burner is equipped with electric ignition and detection electrode.

This burner is classified as a "high/average speed gas burner", with exhaust gases speed coming out from the combustion chamber racing from few m/s to 100 m/s, or even higher speed according to the outlet diameter of the burner cone.

Combustion air temperature may range from room temperature to 100 °C.

Max. thermal power is 23 kW (20.000 kcal/h) and min. thermal power is 2 kW (1.650 kcal/h).

Because of its flexibility, this burner may be adjusted with a wide capacity range up to a 10:1 ratio.

Caratteristiche

- Accensione elettrica diretta con rilevazione a ionizzazione.
- Testa di combustione policombustibile per Metano e G.P.L.
- Rapporto max.-min. 10:1.
- Disponibile in versione completa, con rampa gas in accordo a EN 746-2 (o altre norme se richiesto), con orientamento destro o sinistro.
- Facile da installare, avviare, usare.

Features

- *Direct spark ignition, ionization flame detection electrode.*
- *Multifuel combustion head for Natural gas and LPG.*
- *Turn down ratio 10 to 1.*
- *Available as packaged execution, with gas train according to EN 746-2 (or other required), on right or left hand.*
- *Easy to install, to start, to operate.*

Settori di utilizzo

- Tutti i tipi di forni, sia che venga richiesta una combustione ossidante, stechiometrica o riducente.
- Ceramico, Laterizio, Refrattario:
  - Forni a rulli, Forni a Tunnel, Forni intermittenti, Forni Fusori.

Applications

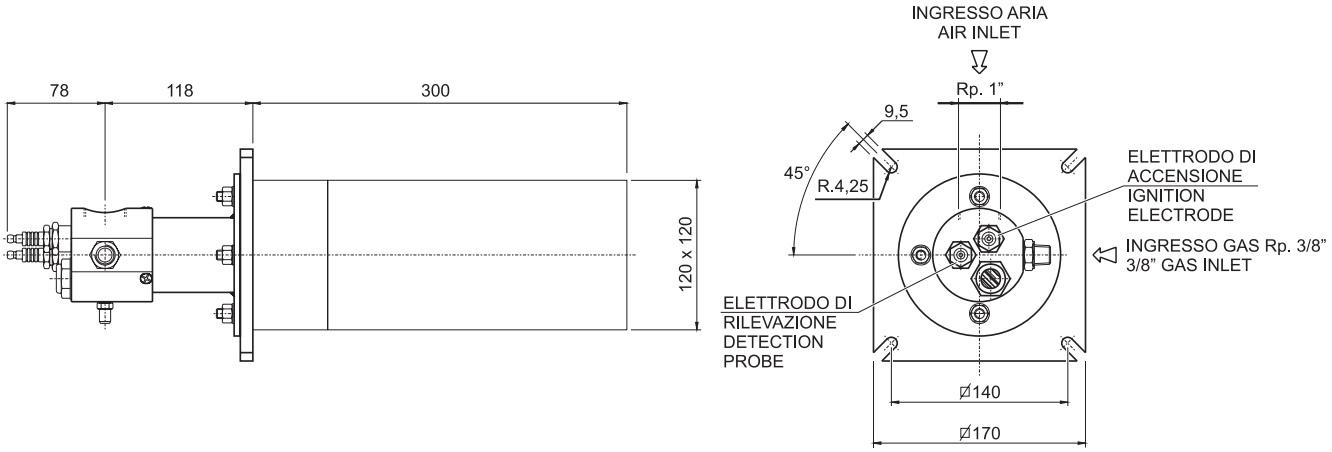
- *All types of kilns, suitable for oxidative, stoichiometric or reducing combustion.*
- *Ceramic, Bricks, Refractory:*
  - *Roller kilns, Tunnel kilns, Intermittent kilns, Melting kilns.*

Spalmatrici per Adesivi.

- Alimentare: Essiccatoi per Cereali, Tostatrici.
- Essiccazione Tabacco
- Inoltre tutte quelle applicazioni dove é richiesto un bruciatore di gas con ampio campo di regolazione a funzionamento automatico, con possibilità di essere utilizzato in forte depressione o forte contro-pressione.

- *Food: Cereal Dryers, Roasters.*
- *Drying Tobacco etc.*
- *And furthermore, for any application which requires a wide regulation automatic gas burner, capable of operating in a strong vacuum or with strong counter-pressure.*

Dimensioni d'ingombro (mm)
Overall dimensions (mm)



Dati Tecnici
Technical data

Modello - *Model*	**BP M 2 GV S/30.63**	
Potenzialità Min. - *Output Min.*	2 kW (1.650 kcal/h)	
Potenzialità Max. - *Output Max.*	23 kW (20.000 kcal/h)	
Combustibile - *Fuel*	CH4 / G.P.L. - *CH4 / LPG*	
Mat. Camera Comb. - *Combustion Chamber Mat.*	Getto di calcestruzzo - *Concrete Casting*	
Diametro Uscita Cam. - *Chamber Outlet Diameter*	Ø63 mm	
Eccesso aria Max. - *Max. excess of air*	100% a/*at* 11,5 kW (10.000 kcal/h)	
Eccesso gas Max. - *Max. excess of gas*	35% a/*at* 23 kW (20.000 kcal/h)	
* Diametro fiamma - *Flame diameter*	60 mm	
* Lunghezza fiamma - *Flame length*	400 mm	
Pressione alim. gas - *Gas supply pressure*	30 mbar	
Pressione alim. aria - *Air supply pressure*	30 mbar	
Peso - *Weight (Combustion Chamber Excluded)*	2,5 kg	

Le caratteristiche sopra descritte sono nelle condizioni di massima potenzialità. Le pressioni riportate sono indicative, quelle del gas sono riferite al **Metano** e al **GPL**.
*The above mentioned performance data are described at their maximum power. Pressure showed are guidelines only. Gas pressures are refer to **Methane** and **LPG**.*

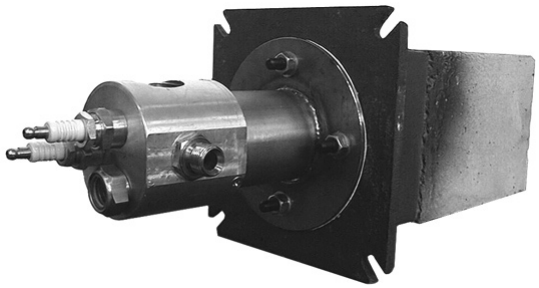
* Condizione di stechiometrico - *Stoichiometric conditions*

Le caratteristiche tecniche e le misure d'ingombro non sono impegnative.
Performance data and dimensions are guidelines only.

DESCRIPTION

BURNER mod.: BP M 2 GV S/30

SCHEDE No.



General Informations

The **"BP M 2 GV S/30"** gas burner is a blown-air burner which can operate with natural gas, LPG, lean gas and gas with low calorific power (on request).
Burner operation may be automatic or semiautomatic, and burner is equipped with electric ignition and detection electrode.
This burner is classified as a *"high/average speed gas burner"*, with exhaust gases speed coming out from the combustion chamber racing from few m/s to 100 m/s, or even higher speed according to the outlet diameter of the burner combustion chamber.
Combustion air temperature may range from room temperature to 100 °C.
Max. thermal power is 23 kW (20.000 kcal/h) and min. thermal power is 2 kW (1.650 kcal/h).
Because of its flexibility, this burner may be adjusted with a wide capacity range up to a 10:1 ratio.

Features

- Direct spark ignition, ionization flame detection electrode.
- Multi fuel combustion head for Natural gas and LPG.
- Turn down ratio 10 to 1.
- Available as packaged execution, with gas train according to EN 746-2 (or other required), on right or left hand.
- Easy to install, to start, to operate.

Applications

- All types of kilns, suitable for oxidative, stoichiometric or reducing combustion.
- Ceramic, Bricks, Refractory:
  - Roller kilns, Tunnel kilns, Intermittent kilns, Melting kilns.
  - Continuous and Intermittent Dryers.
- Iron metallurgic Industry.
- Surfaces Treatment.
- Glass: Hardening ovens.
- Printing and Packing: Air Heaters for Rotogravures, Flexographic and Coupling and adhesive coating Machines.
- Food: Cereal Dryers, Roasters.
- Drying Tobacco etc.
- And furthermore, for any application which requires a wide regulation automatic gas burner, capable of operating in a strong vacuum or with strong counter-pressure.

RIELLO

TECHNICAL SHEET

BURNER mod.: BP M 2 GV S/30

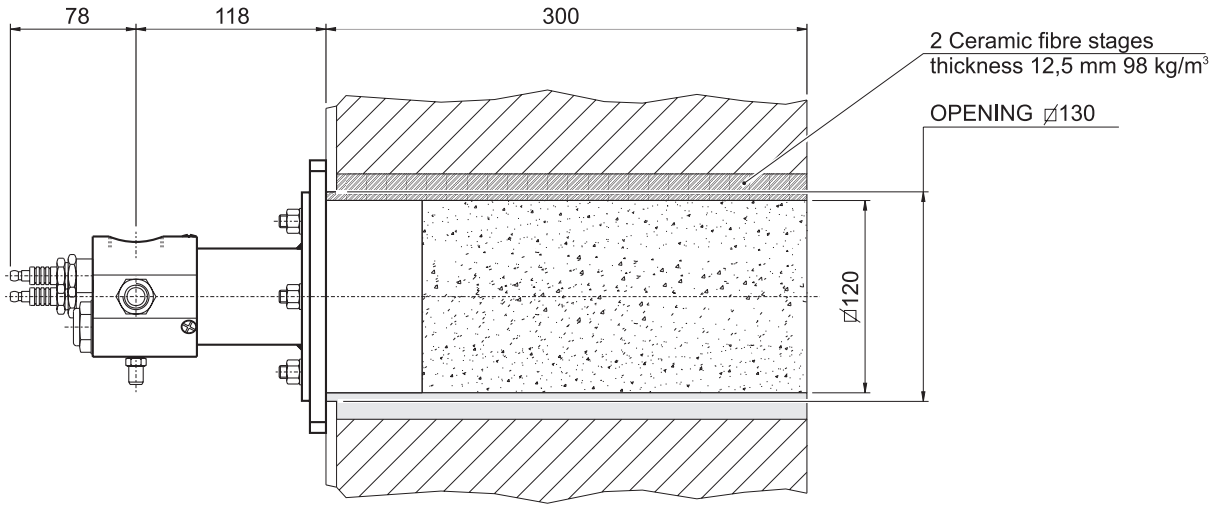
SCHEDE No.

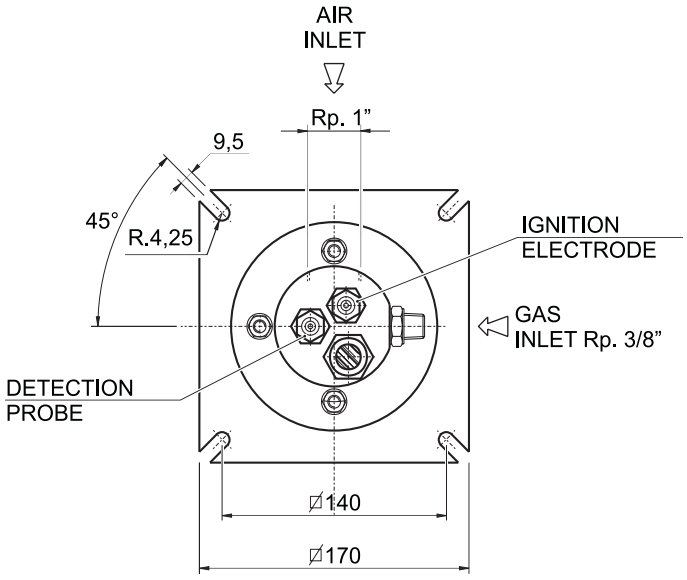
BURNER MOD.		*BP M 2 GV S/30.63*	
MAXIMUM POWER		23 kW (20.000 kcal/h)	
MINIMUM POWER (100% Excess of air)		2 kW (1.650 kcal/h)	
BURNER COMB. CHAMBER MATERIAL		Concrete Casting	
BURNER COMB. CHAMBER EXIT DIAM.		Ø63 mm	
MAXIMUM EXCESS OF AIR		100% at 11,5 kW (10.000 kcal/h)	
MAXIMUM EXCESS OF GAS		35% at 23 kW (20.000 kcal/h)	
STOICHIOMETRIC EXIT SPEED		25 m/s	
STOICHIOMETRIC FLAME DIAMETER		60 mm	
STOICHIOMETRIC FLAME LENGTH		400 mm	
GAS SUPPLY PRESSURE		30 mbar	
AIR SUPPLY PRESSURE		30 mbar	

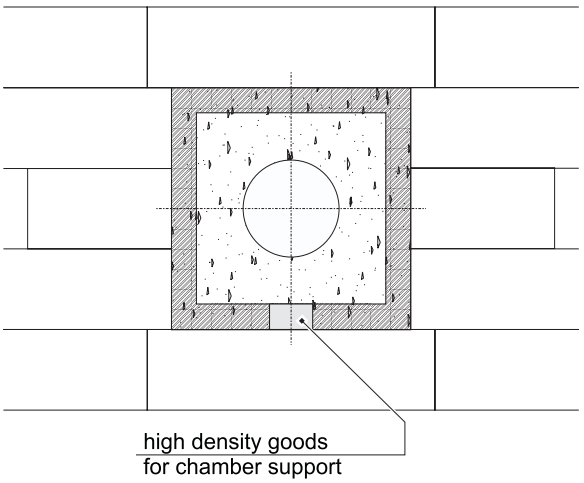
*The above mentioned performance data are described at their maximum power. Pressure showed are guideline only. Gas pressures are referred to **Methane** and **LPG**.*

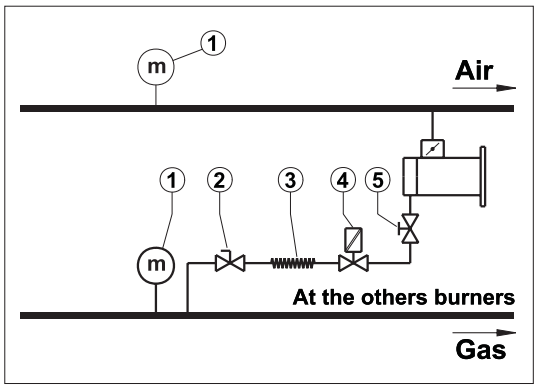
BURNER IGNITION	Recommended at low power
FLAME IGNITION	By ignition electrode with discharge 9.000 VAC 25 mA
FLAME MONITORING	By ionization electrode or UV cell
BURNER OPERATION	On / Off ; High / Low Flame ; Modulating
FUEL	NATURAL GAS . . . . . .(Data Sheet No.:)
	PROPANE / BUTANE . . . . . .(Data Sheet No.:)
	LEAN GAS . . . . . .(Contact NBP)
COMBUSTION AIR	CONDITIONS. . . . . .Filtered and Clean Air
	. . . . . .Room Temperature= 20 ÷ 25 °C
	. . . . . .Max. Temperature= 100 °C
WORKING CHAMBER MAX. TEMP.	1.250 ÷ 1.450 °C
BURNER POSITION	Horizontal / Vertical
BURNER INSTALLATION	See Data Sheet No.
BURNER WEIGHT	2,5 kg (Combustion Chamber Excluded)
CONSTRUCTION MATERIAL	Burner Housing . . . . . .STEEL
	Gas Adjusting Body. . . . . .ALUMINIUM/BRASS
	Combustion Head. . . . . .CAST IRON
	Burner Combustion Chamber .CONCRETE CASTING

INSTALLATION EXAMPLE ON KILN

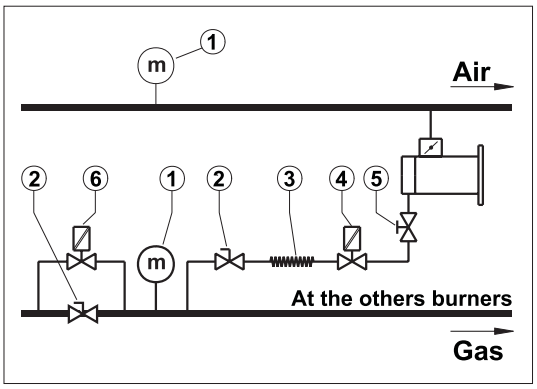




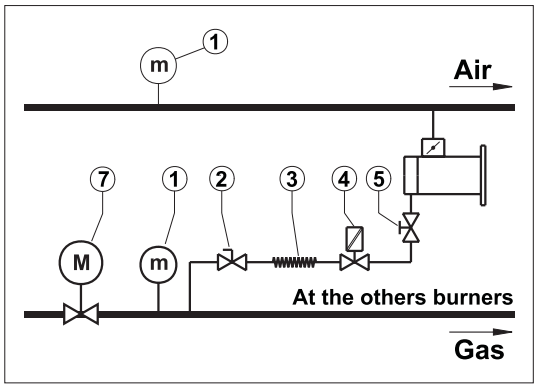




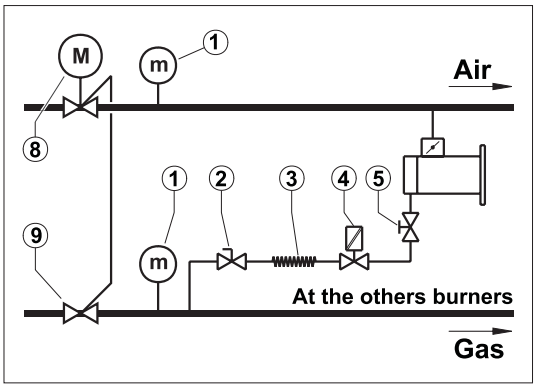
a) *On/Off adjusting.*



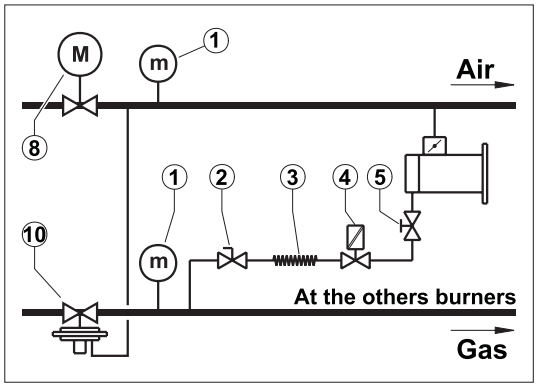
b) *High/Low with fix air adjusting.*



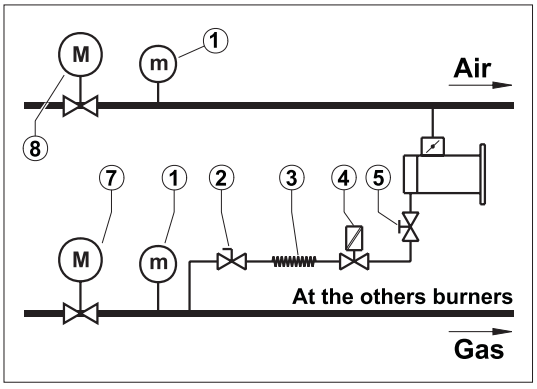
c) *Modulant with fix air adjusting.*



d) *Modulant adjusting by combined air/ gas valves.*



e) *Modulant adjusting by motorized gas ratio adjusting valve.*



f) *Ratio adjusting controlled by motorized valve on air and gas.*

1) Manometer
2) Manual interception cock
6) High/Low flame adjusting valve
7) Gas adjusting motorized valve

RIELLO

BRUCIATORE AD ALTA / MEDIA VELOCITÀ INTENSIVO
INTENSIVE HIGH AND AVERAGE SPEED BURNER

BP M 5 GV S/30

Generalità

Il bruciatore di gas **"BP M 5 GV S/30"** é un bruciatore ad aria soffiata funzionante con gas naturale, G.P.L., manufatti e gas a basso potere calorico (a richiesta).

Il funzionamento di questo bruciatore può essere automatico o semiautomatico, ed é previsto di accensione e rilevazione tramite elettrodo.

E' un bruciatore propriamente classificato *"bruciatore di gas ad alta/media velocità"*, con velocità dei gas combusti in uscita dalla camera di combustione variante da pochi m/s fino a 100 m/s o velocità superiori in funzione della sezione di uscita del cono bruciatore.

La temperatura dell'aria comburente prevista su questo bruciatore può variare da temperatura ambiente fino a 100 °C.

La potenzialità termica massima é di 58 kW (50.000 kcal/h) mentre la potenzialità minima può arrivare fino a 5 kW (8.250 kcal/h).

Essendo questo bruciatore molto flessibile, può essere regolato con larga escursione di portata fino ad un rapporto di 10:1.

General Informations

The **"BP M 5 GV S/30"** *gas burner is a blown-air burner which can operate with natural gas, LPG, lean gas and gas with low calorific power (on request).*

Burner operation may be automatic or semiautomatic, and burner is equipped with electric ignition and detection electrode.

This burner is classified as a "high/average speed gas burner", with exhaust gases speed coming out from the combustion chamber racing from few m/s to 100 m/s, or even higher speed according to the outlet diameter of the burner cone.

Combustion air temperature may range from room temperature to 100 °C.

Max. thermal power is 58 kW (50.000 kcal/h) and min. thermal power is 5 kW (8.250 kcal/h).

Because of its flexibility, this burner may be adjusted with a wide capacity range up to a 10:1 ratio.

Caratteristiche

- Accensione elettrica diretta con rilevazione a ionizzazione.
- Testa di combustione policombustibile per Metano e G.P.L.
- Rapporto max.-min. 10:1.
- Disponibile in versione completa, con rampa gas in accordo a EN 746-2 (o altre norme se richiesto), con orientamento destro o sinistro.
- Facile da installare, avviare, usare.

Features

- *Direct spark ignition, ionization flame detection electrode.*
- *Multifuel combustion head for Natural gas and LPG.*
- *Turn down ratio 10 to 1.*
- *Available as packaged execution, with gas train according to EN 746-2 (or other required), on right or left hand.*
- *Easy to install, to start, to operate.*

Settori di utilizzo

- Tutti i tipi di forni, sia che venga richiesta una combustione ossidante, stechiometrica o riducente.
- Ceramico, Laterizio, Refrattario:
  - Forni a rulli, Forni a Tunnel, Forni intermittenti, Forni Fusori.

Applications

- *All types of kilns, suitable for oxidative, stoichiometric or reducing combustion.*
- *Ceramic, Bricks, Refractory:*
  - *Roller kilns, Tunnel kilns, Intermittent kilns, Melting kilns.*

DESCRIPTION

BURNER mod.: BP M 5 GV S/30

SCHEDE No.

General Informations

The **"BP M 5 GV S/30"** gas burner is a blown-air burner which can operate with natural gas, LPG, lean gas and gas with low calorific power (on request).
Burner operation may be automatic or semiautomatic, and burner is equipped with electric ignition and detection electrode.
This burner is classified as a *"high/average speed gas burner"*, with exhaust gases speed coming out from the combustion chamber racing from few m/s to 100 m/s, or even higher speed according to the outlet diameter of the burner combustion chamber.
Combustion air temperature may range from room temperature to 100 °C.
Max. thermal power is 58 kW (50.000 kcal/h) and min. thermal power is 5 kW (4.125 kcal/h).
Because of its flexibility, this burner may be adjusted with a wide capacity range up to a 10:1 ratio.

Features

- Direct spark ignition, ionization flame detection electrode.
- Multifuel combustion head for Natural gas and LPG.
- Turn down ratio 10 to 1.
- Available as packaged execution, with gas train according to EN 746-2 (or other required), on right or left hand.
- Easy to install, to start, to operate.

Applications

- All types of kilns, suitable for oxidative, stoichiometric or reducing combustion.
- Ceramic, Bricks, Refractory:
  - Roller kilns, Tunnel kilns, Intermittent kilns, Melting kilns.
  - Continuous and Intermittent Dryers.
- Iron metallurgic Industry.
- Surfaces Treatment.
- Glass: Hardening ovens.
- Printing and Packing: Air Heaters for Rotogravures, Flexographic and Coupling and adhesive coating Machines.
- Food: Cereal Dryers, Roasters.
- Drying Tobacco etc.
- And furthermore, for any application which requires a wide regulation automatic gas burner, capable of operating in a strong vacuum or with strong counter-pressure.

RIELLO

TECHNICAL SHEET

BURNER mod.: BP M 5 GV S/30

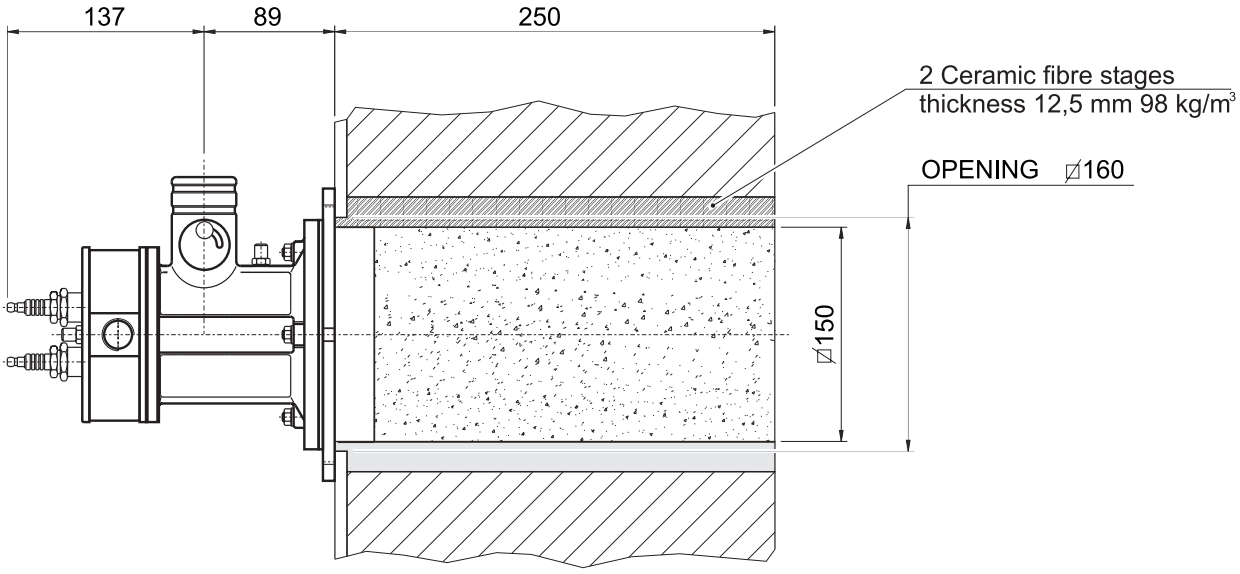
SCHEDE No.

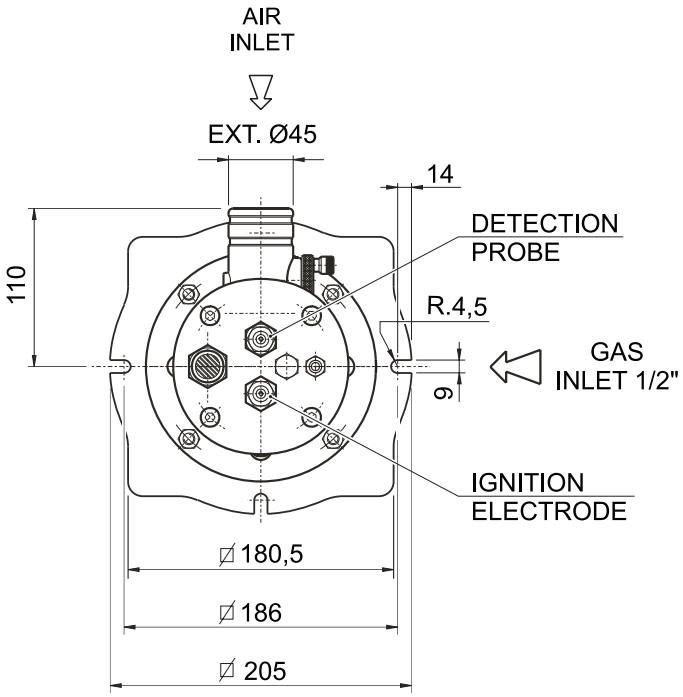
BURNER MOD.	*BP M 5 GV S/30.40*	*BP M 5 GV S/30.50*	*BP M 5 GV S/30.60*	*BP M 5 GV S/30.75*
MAXIMUM POWER	58 kW (50.000 kcal/h)	58 kW (50.000 kcal/h)	58 kW (50.000 kcal/h)	58 kW (50.000 kcal/h)
MINIMUM POWER (100% Excess of air)	5 kW (4.125 kcal/h)	5 kW (4.125 kcal/h)	5 kW (4.125 kcal/h)	5 kW (4.125 kcal/h)
BURNER COMB. CHAMBER MATERIAL	Concrete Casting	Concrete Casting	Concrete Casting	Concrete Casting
BURNER COMB. CHAMBER EXIT DIAM.	Ø40 mm	Ø50 mm	Ø60 mm	Ø75 mm
MAXIMUM EXCESS OF AIR	100% at 29 kW (25.000 kcal/h)	100% at 29 kW (25.000 kcal/h)	100% at 29 kW (25.000 kcal/h)	100% at 29 kW (25.000 kcal/h)
MAXIMUM EXCESS OF GAS	35% a 58 kW (50.000 kcal/h)	35% a 58 kW (50.000 kcal/h)	35% a 58 kW (50.000 kcal/h)	35% a 58 kW (50.000 kcal/h)
STOICHIOMETRIC EXIT SPEED	60 m/s	40 m/s	30 m/s	20 m/s
STOICHIOMETRIC FLAME DIAMETER	60 mm	70 mm	80 mm	90 mm
STOICHIOMETRIC FLAME LENGTH	500 mm	450 mm	400 mm	350 mm
GAS SUPPLY PRESSURE	50 mbar	40 mbar	35 mbar	30 mbar
AIR SUPPLY PRESSURE	40 mbar	35 mbar	30 mbar	30 mbar

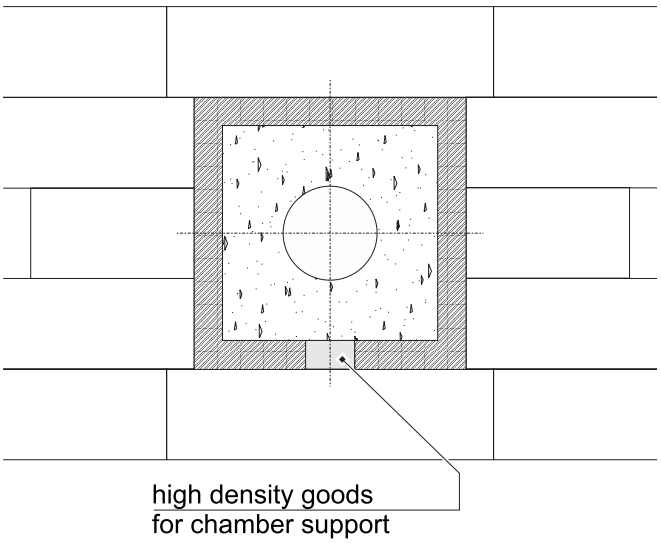
The above mentioned performance data are described at their maximum power. Pressure showed are guideline only.
*Gas pressures are referred to **Methane** and **LPG**.*

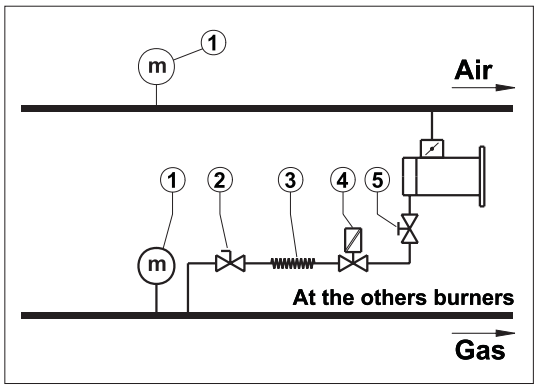
BURNER IGNITION	Recommended at low power
FLAME IGNITION	By ignition electrode with discharge 9.000 VAC 25 mA
FLAME MONITORING	By ionization electrode or UV cell
BURNER OPERATION	On / Off ; High / Low Flame ; Modulating
FUEL	NATURAL GAS . . . . . .(Data Sheet No.:)
	PROPANE / BUTANE . . . . . .(Data Sheet No.:)
	LEAN GAS . . . . . .(Contact NBP)
COMBUSTION AIR	CONDITIONS. . . . . .Filtered and Clean Air
	. . . . . .Room Temperature= 20 ÷ 25 °C
	. . . . . .Max. Temperature= 100 °C
WORKING CHAMBER MAX. TEMP.	1.250 ÷ 1.450 °C
BURNER POSITION	Horizontal / Vertical
BURNER INSTALLATION	See Data Sheet No.
BURNER WEIGHT	7,3 kg (Combustion Chamber Excluded)
CONSTRUCTION MATERIAL	Burner Housing . . . . . .CAST IRON
	Gas Adjusting Body. . . . . .ALUMINIUM/BRASS
	Combustion Head. . . . . .CAST IRON
	Burner Combustion Chamber .CONCRETE CASTING

INSTALLATION EXAMPLE ON KILN

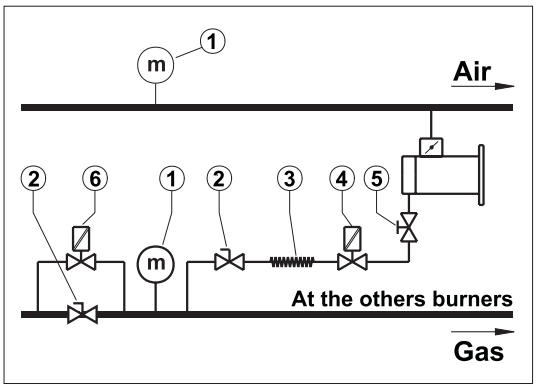




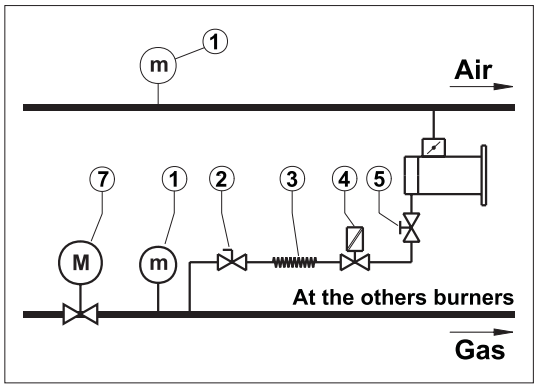




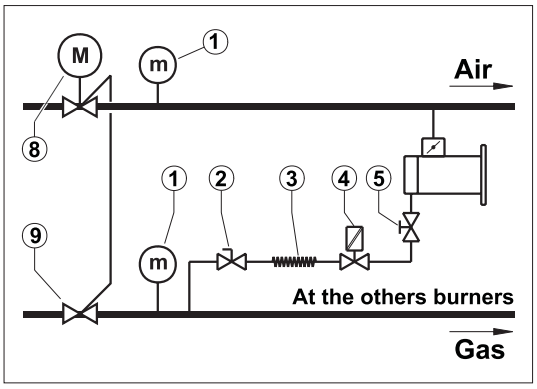
a) On/Off adjusting.



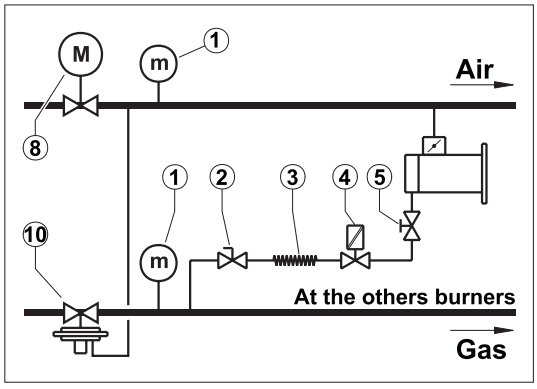
b) High/Low with fix air adjusting.



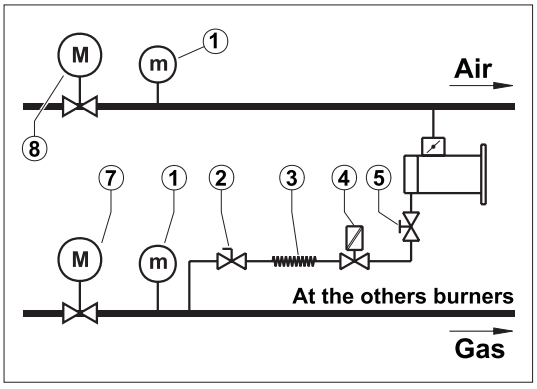
c) Modulant with fix air adjusting.



d) Modulant adjusting by combined air/ gas valves.



e) Modulant adjusting by motorized gas ratio adjusting valve.



f) Ratio adjusting controlled by motorized valve on air and gas.

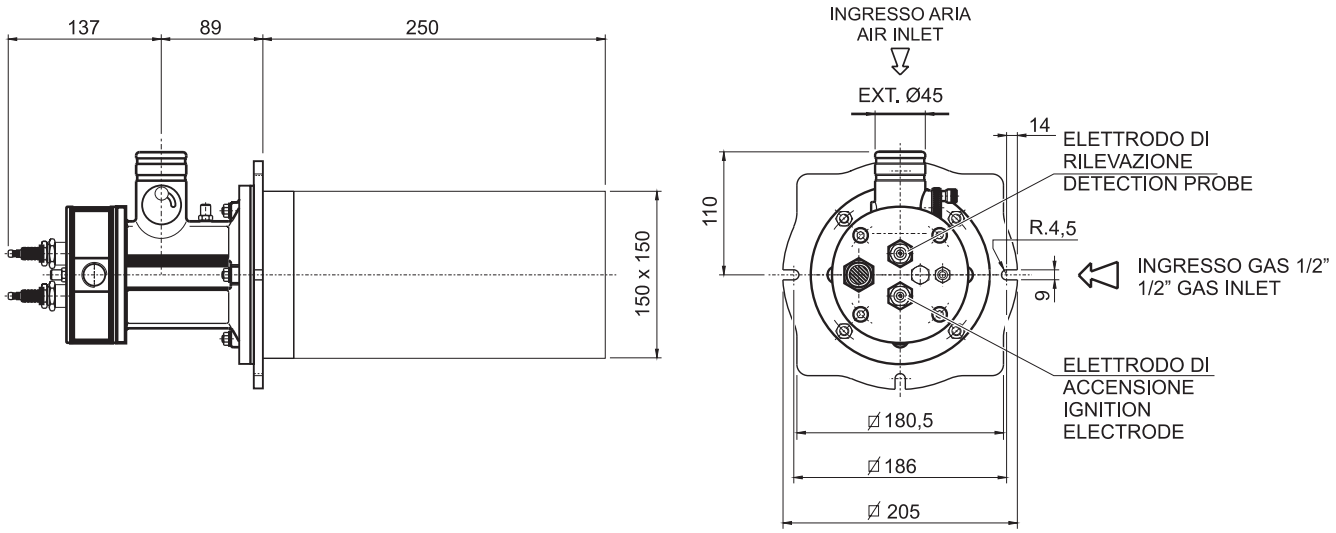
1) Manometer
2) Manual interception cock
6) High/Low flame adjusting valve
7) Gas adjusting motorized valve

Spalmatrici per Adesivi.

- Alimentare: Essiccatoi per Cereali, Tostatrici.
- Essiccazione Tabacco
- Inoltre tutte quelle applicazioni dove é richiesto un bruciatore di gas con ampio campo di regolazione a funzionamento automatico, con possibilità di essere utilizzato in forte depressione o forte contro-pressione.

- *Food: Cereal Dryers, Roasters.*
- *Drying Tobacco etc.*
- *And furthermore, for any application which requires a wide regulation automatic gas burner, capable of operating in a strong vacuum or with strong counter-pressure.*

Dimensioni d'ingombro (mm)
Overall dimensions (mm)



Dati Tecnici
Technical data

Modello - *Model*	**BPM 5 GV S/30.40**	**BPM 5 GV S/30.50**	**BPM 5 GV S/30.60**	**BPM 5 GV S/30.75**
Potenzialità Min. - *Output Min.*	5 kW (4.125 kcal/h)			
Potenzialità Max. - *Output Max.*	58 kW (50.000 kcal/h)			
Combustibile - *Fuel*	CH4 / G.P.L. - *CH4 / LPG*			
Mat. Camera Comb. - *Combustion Chamber Mat.*	Getto di calcestruzzo - *Concrete Casting*			
Diametro Uscita Cam. - *Chamber Outlet Diameter*	Ø40 mm	Ø50 mm	Ø60 mm	Ø75 mm
Eccesso aria Max. - *Max. excess of air*	100% a/*at* 29 kW (25.000 kcal/h)			
Eccesso gas Max. - *Max. excess of gas*	35% a/*at* 58 kW (50.000 kcal/h)			
* Diametro fiamma - *Flame diameter*	60 mm	70 mm	80 mm	90 mm
* Lunghezza fiamma - *Flame length*	500 mm	450 mm	400 mm	350 mm
Pressione alim. gas - *Gas supply pressure*	50 mbar	40 mbar	35 mbar	30 mbar
Pressione alim. aria - *Air supply pressure*	40 mbar	35 mbar	30 mbar	30 mbar
Peso - *Weight (Combustion Chamber Excluded)*	7,3 kg	7,3 kg	7,3 kg	7,3 kg

Le caratteristiche sopra descritte sono nelle condizioni di massima potenzialità. Le pressioni riportate sono indicative, quelle del gas sono riferite al **Metano** e al **GPL**.
*The above mentioned performance data are described at their maximum power. Pressure showed are guidelines only. Gas pressures are refer to **Methane** and **LPG**.*

* Condizione di stechiometrico - *Stoichiometric conditions*

Le caratteristiche tecniche e le misure d'ingombro non sono impegnative.
Performance data and dimensions are guidelines only.

RIELLO

BRUCIATORE AD ALTA / MEDIA VELOCITÀ INTENSIVO
INTENSIVE HIGH AND AVERAGE SPEED BURNER

BP N 7 GV

Generalità

Il bruciatore di gas **"BP N 7 GV"** é un bruciatore ad aria soffiata funzionante con gas naturale, G.P.L., manufatti e gas a basso potere calorico (a richiesta).

Il funzionamento di questo bruciatore può essere automatico o semiautomatico, ed é previsto di accensione e rilevazione tramite elettrodo.

E' un bruciatore propriamente classificato *"bruciatore di gas ad alta/media velocità"*, con velocità dei gas combusti in uscita dalla camera di combustione variante da pochi m/s fino a 100 m/s o velocità superiori in funzione della sezione di uscita del cono bruciatore.

La temperatura dell'aria comburente prevista su questo bruciatore può variare da temperatura ambiente fino a 100 °C.

La potenzialità termica massima é di 190 kW (165.000 kcal/h) mentre la potenzialità minima può arrivare fino a 10 kW (8.250 kcal/h).

Essendo questo bruciatore molto flessibile, può essere regolato con larga escursione di portata fino ad un rapporto di 20:1.

General Informations

The **"BP N 7 GV"** *gas burner is a blown-air burner which can operate with natural gas, LPG, lean gas and gas with low calorific power (on request).*

Burner operation may be automatic or semiautomatic, and burner is equipped with electric ignition and detection electrode.

This burner is classified as a "high/average speed gas burner", with exhaust gases speed coming out from the combustion chamber racing from few m/s to 100 m/s, or even higher speed according to the outlet diameter of the burner cone.

Combustion air temperature may range from room temperature to 100 °C.

Max. thermal power is 190 kW (165.000 kcal/h) and min. thermal power is 10 kW (8.250 kcal/h).

Because of its flexibility, this burner may be adjusted with a wide capacity range up to a 20:1 ratio.

Caratteristiche

- Accensione elettrica diretta con rilevazione a ionizzazione.
- Testa di combustione policombustibile per Metano e G.P.L.
- Rapporto max.-min. 20:1.
- Disponibile in versione completa, con rampa gas in accordo a EN 746-2 (o altre norme se richiesto), con orientamento destro o sinistro.
- Facile da installare, avviare, usare.

Features

- *Direct spark ignition, ionization flame detection electrode.*
- *Multifuel combustion head for Natural gas and LPG.*
- *Turn down ratio 20 to 1.*
- *Available as packaged execution, with gas train according to EN 746-2 (or other required), on right or left hand.*
- *Easy to install, to start, to operate.*

Settori di utilizzo

- Tutti i tipi di forni, sia che venga richiesta una combustione ossidante, stechiometrica o riducente.
- Ceramico, Laterizio, Refrattario:
  - Forni a rulli, Forni a Tunnel, Forni intermittenti, Forni Fusori.

Applications

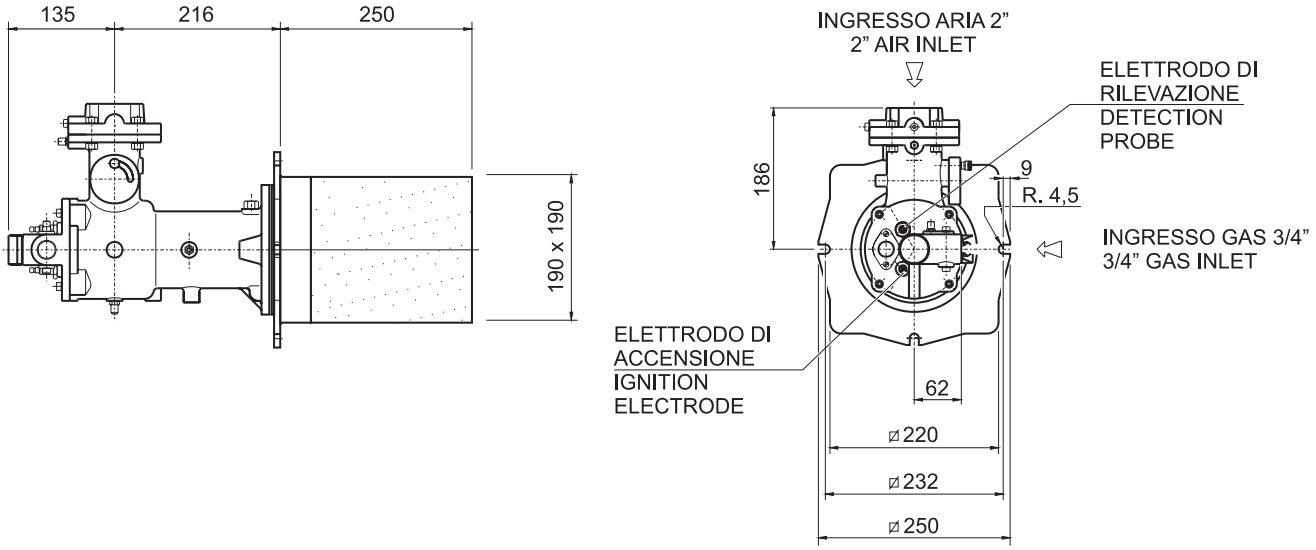
- *All types of kilns, suitable for oxidative, stoichiometric or reducing combustion.*
- *Ceramic, Bricks, Refractory:*
  - *Roller kilns, Tunnel kilns, Intermittent kilns, Melting kilns.*

Spalmatrici per Adesivi.

- Alimentare: Essiccatoi per Cereali, Tostatrici.
- Essiccazione Tabacco
- Inoltre tutte quelle applicazioni dove é richiesto un bruciatore di gas con ampio campo di regolazione a funzionamento automatico, con possibilità di essere utilizzato in forte depressione o forte contro-pressione.

- *Food: Cereal Dryers, Roasters.*
- *Drying Tobacco etc.*
- *And furthermore, for any application which requires a wide regulation automatic gas burner, capable of operating in a strong vacuum or with strong counter-pressure.*

Dimensioni d'ingombro (mm)
Overall dimensions (mm)



Dati Tecnici
Technical data

Modello - *Model*	**BP N 7 GV S/0.90**	**BP N 7 GV S/0.140**	**BP N 7 GV S/0.190**
Potenzialità Min. - *Output Min.*	10 kW (8.250 kcal/h)		
Potenzialità Max. - *Output Max.*	190 kW (165.000 kcal/h)		
Combustibile - *Fuel*	CH4 / G.P.L. - *CH4 / LPG*		
Mat. Camera Comb. - *Combustion Chamber Mat.*	Getto di calcestruzzo - *Concrete Casting*		
Diametro Uscita Cam. - *Chamber Outlet Diameter*	Ø90 mm	Ø140 mm	Ø190 mm
Eccesso aria Max. - *Max. excess of air*	100% a/*at* 95 kW (82.000 kcal/h)		
Eccesso gas Max. - *Max. excess of gas*	35% a/*at* 190 kW (164.000 kcal/h)		
* Diametro fiamma - *Flame diameter*	110 mm	160 mm	210 mm
* Lunghezza fiamma - *Flame length*	600 mm	500 mm	400 mm
Pressione alim. gas - *Gas supply pressure*	35 mbar	35 mbar	30 mbar
Pressione alim. aria - *Air supply pressure*	30 mbar	30 mbar	30 mbar
Peso - *Weight (Combustion Chamber Excluded)*	13 kg	13 kg	13 kg

Le caratteristiche sopra descritte sono nelle condizioni di massima potenzialità. Le pressioni riportate sono indicative, quelle del gas sono riferite al **Metano** e al **GPL**.
*The above mentioned performance data are described at their maximum power. Pressure showed are guidelines only. Gas pressures are refer to **Methane** and **LPG**.*

* Condizione di stechiometrico - *Stoichiometric conditions*

Le caratteristiche tecniche e le misure d'ingombro non sono impegnative.
Performance data and dimensions are guidelines only.

DESCRIPTION

BURNER mod.: BP N 7 GV S/0

SCHEDE No.

General Informations

The **"BP N 7 GV S/0"** gas burner is a blown-air burner which can operate with natural gas, LPG, lean gas and gas with low calorific power (on request).
Burner operation may be automatic or semiautomatic, and burner is equipped with electric ignition and detection electrode.
This burner is classified as a "high/average speed gas burner", with exhaust gases speed coming out from the combustion chamber racing from few m/s to 100 m/s, or even higher speed according to the outlet diameter of the burner combustion chamber.
Combustion air temperature may range from room temperature to 100 °C.
Max. thermal power is 190 kW (165.000 kcal/h) and min. thermal power is 10 kW (8.250 kcal/h).
Because of its flexibility, this burner may be adjusted with a wide capacity range up to a 20:1 ratio.

Features

- Direct spark ignition, ionization flame detection electrode.
- Combustion head for Natural gas or LPG.
- Turn down ratio 20 to 1.
- Available as packaged execution, with gas train valves according to EN 746-2 (or other required), on right or left hand.
- Easy to install, to start, to operate.

Applications

- All types of kilns, suitable for oxidative, stoichiometric or reducing combustion.
- Ceramic, Bricks, Refractory:
  - Roller kilns, Tunnel kilns, Intermittent kilns, Melting kilns.
  - Continuous and Intermittent Dryers.
- Iron metallurgic Industry.
- Surfaces Treatment.
- Glass: Hardening ovens.
- Printing and Packing: Air Heaters for Rotogravures, Flexographic and Coupling and adhesive coating Machines.
- Food: Cereal Dryers, Roasters.
- Drying Tobacco etc.
- And furthermore, for any application which requires a wide regulation automatic gas burner, capable of operating in a strong vacuum or with strong counter-pressure.

RIELLO

TECHNICAL SHEET

BURNER mod.: BP N 7 GV S/0

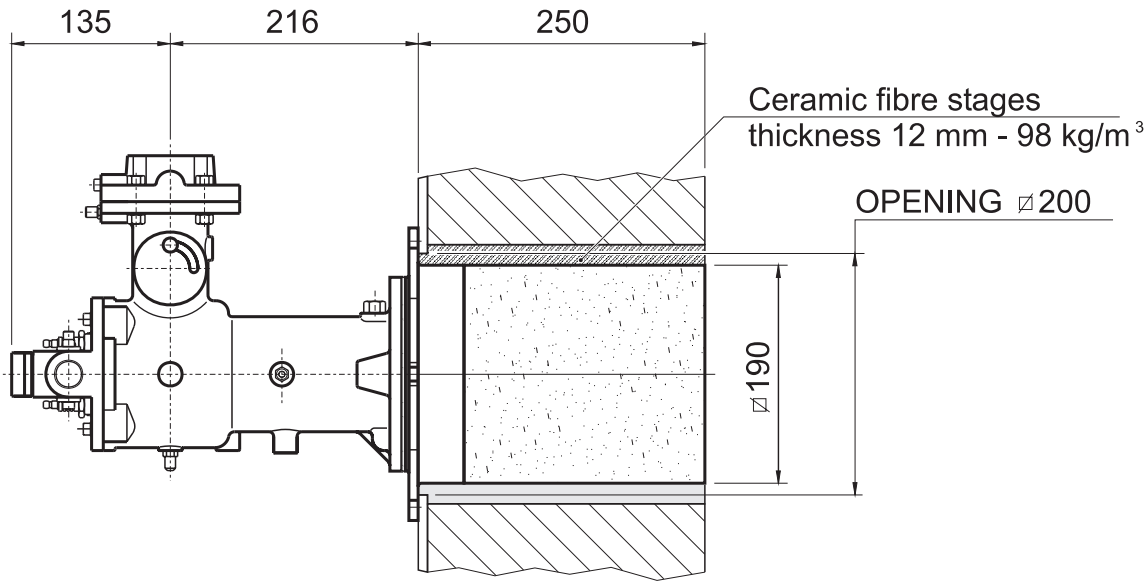
SCHEDE No.

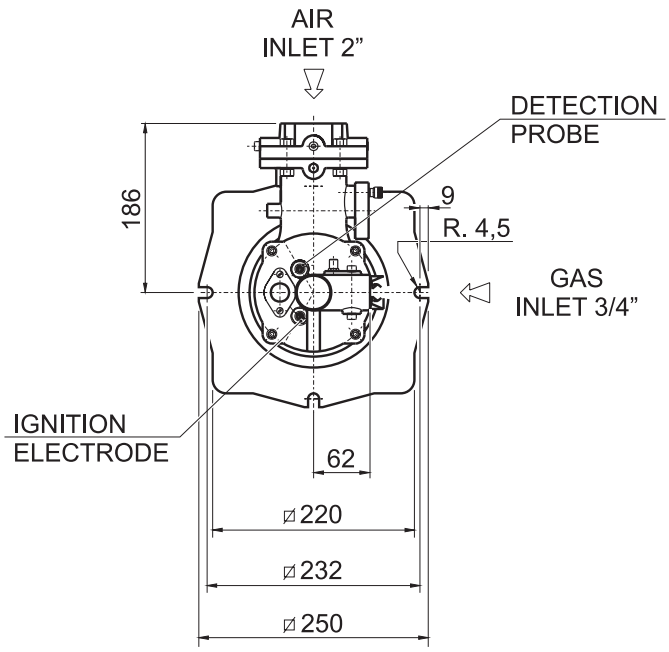
BURNER MOD.	*BP N 7 GV S/0.90*	*BP N 7 GV S/0.140*	*BP N 7 GV S/0.190*
MAXIMUM POWER	190 kW (165.000 kcal/h)	190 kW (165.000 kcal/h)	190 kW (165.000 kcal/h)
MINIMUM POWER (100% Excess of air)	10 kW (8.250 kcal/h)	10 kW (8.250 kcal/h)	10 kW (8.250 kcal/h)
BURNER COMB. CHAMBER MATERIAL	Concrete Casting	Concrete Casting	Concrete Casting
BURNER COMB. CHAMBER EXIT DIAM.	Ø90 mm	Ø140 mm	Ø190 mm
MAXIMUM EXCESS OF AIR	100% a 95 kW (82.000 kcal/h)	100% a 95 kW (82.000 kcal/h)	100% a 95 kW (82.000 kcal/h)
MAXIMUM EXCESS OF GAS	30% a 190 kW (164.000 kcal/h)	30% a 190 kW (164.000 kcal/h)	30% a 190 kW (164.000 kcal/h)
STOICHIOMETRIC EXIT SPEED	45 m/s	20 m/s	10 m/s
STOICHIOMETRIC FLAME DIAMETER	110 mm	160 mm	210 mm
STOICHIOMETRIC FLAME LENGTH	600 mm	500 mm	400 mm
GAS SUPPLY PRESSURE	35 mbar	35 mbar	30 mbar
AIR SUPPLY PRESSURE	30 mbar	30 mbar	30 mbar

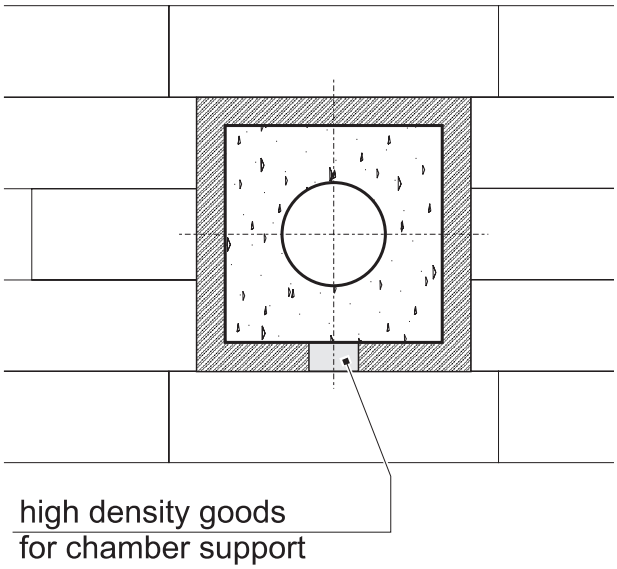
*The above mentioned performance data are described at their maximum power. Pressure showed are guideline only. Gas pressures are referred to **Methane** and **LPG**.*

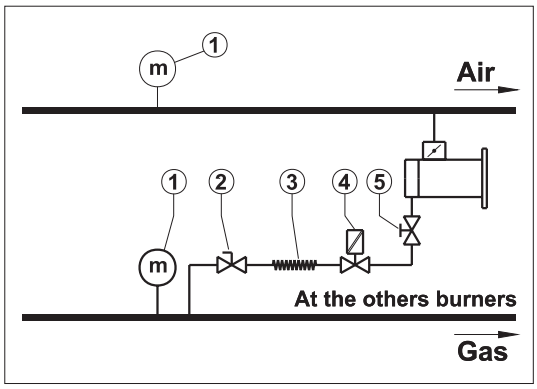
BURNER IGNITION	Recommended at low power
FLAME IGNITION	By ignition electrode with discharge 9.000 VAC 25 mA
FLAME MONITORING	By ionization electrode or UV cell
BURNER OPERATION	On / Off ; High / Low Flame ; Modulating
FUEL	NATURAL GAS . . . . . .(Data Sheet No.:)
	PROPANE / BUTANE . . . . . .(Data Sheet No.:)
	LEAN GAS . . . . . .(Contact NBP)
COMBUSTION AIR	CONDITIONS. . . . . .Filtered and Clean Air
	. . . . . .Room Temperature= 20 ÷ 25 °C
	. . . . . .Max. Temperature= 100 °C
WORKING CHAMBER MAX. TEMP.	1.250 ÷ 1.450 °C
BURNER POSITION	Horizontal / Vertical
BURNER INSTALLATION	See Data Sheet No.
BURNER WEIGHT	13 kg (Combustion Chamber Excluded)
CONSTRUCTION MATERIAL	Burner Housing . . . . . .CAST IRON
	Gas Adjusting Body. . . . . .CAST IRON
	Combustion Head. . . . . .CAST IRON
	Burner Combustion Chamber .CONCRETE CASTING

INSTALLATION EXAMPLE ON KILN

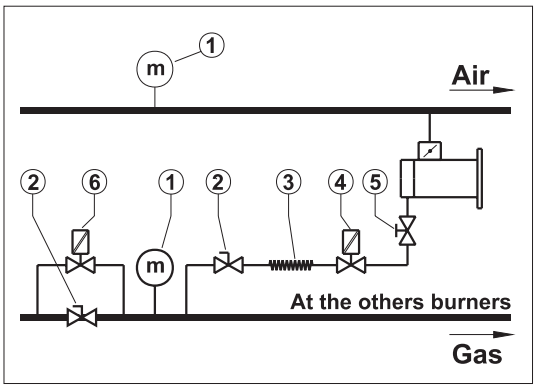




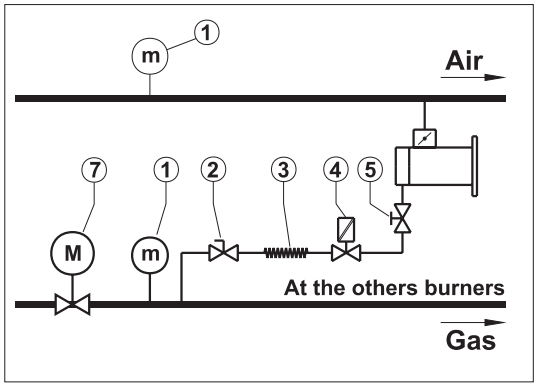




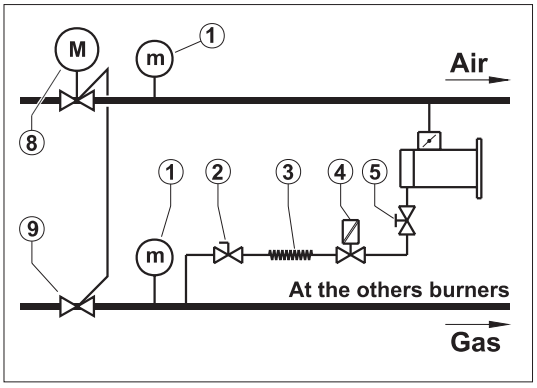
a) *On/Off adjusting.*



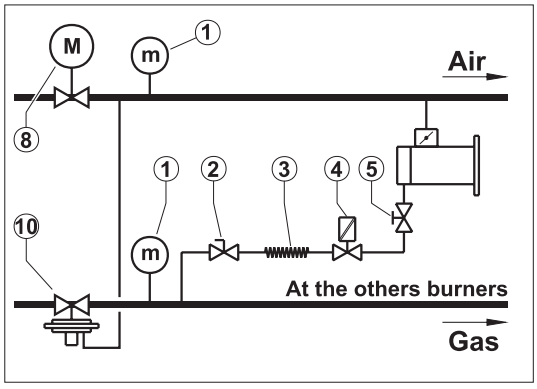
b) *High/Low with fix air adjusting.*



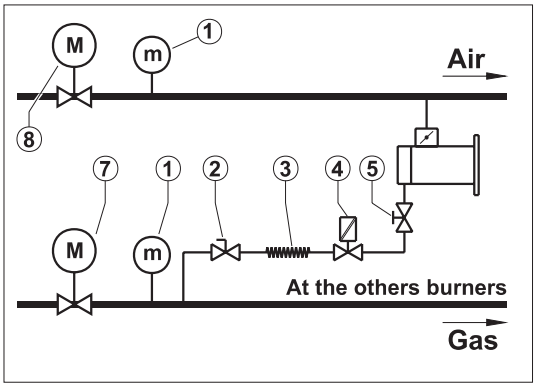
c) *Modulant with fix air adjusting.*



d) *Modulant adjusting by combined air/ gas valves.*



e) *Modulant adjusting by motorized gas ratio adjusting valve.*



f) *Ratio adjusting controlled by motorized valve on air and gas.*

1) Manometer
2) Manual interception cock
6) High/Low flame adjusting valve
7) Gas adjusting motorized valve

RIELLO

BRUCIATORE AD ALTA / MEDIA VELOCITÀ INTENSIVO
INTENSIVE HIGH AND AVERAGE SPEED BURNER

BP N 18 GV

Generalità

Il bruciatore di gas **"BP N 18 GV"** é un bruciatore ad aria soffiata funzionante con gas naturale, G.P.L., manufatti e gas a basso potere calorico (a richiesta).

Il funzionamento di questo bruciatore può essere automatico o semiautomatico, ed é previsto di accensione e rilevazione tramite elettrodo.

E' un bruciatore propriamente classificato *"bruciatore di gas ad alta/media velocità"*, con velocità dei gas combusti in uscita dalla camera di combustione variante da pochi m/s fino a 100 m/s o velocità superiori in funzione della sezione di uscita del cono bruciatore.

La temperatura dell'aria comburente prevista su questo bruciatore può variare da temperatura ambiente fino a 100 °C.

La potenzialità termica massima é di 400 kW (350.000 kcal/h) mentre la potenzialità minima può arrivare fino a 48 kW (41.000 kcal/h).

Essendo questo bruciatore molto flessibile, può essere regolato con larga escursione di portata fino ad un rapporto di 8:1.

General Informations

The **"BP N 18 GV"** *gas burner is a blown-air burner which can operate with natural gas, LPG, lean gas and gas with low calorific power (on request).*

Burner operation may be automatic or semiautomatic, and burner is equipped with electric ignition and detection electrode.

This burner is classified as a "high/average speed gas burner", with exhaust gases speed coming out from the combustion chamber racing from few m/s to 100 m/s, or even higher speed according to the outlet diameter of the burner cone.

Combustion air temperature may range from room temperature to 100 °C.

Max. thermal power is 400 kW (350.000 kcal/h) and min. thermal power is 48 kW (41.000 kcal/h).

Because of its flexibility, this burner may be adjusted with a wide capacity range up to a 8:1 ratio.

Caratteristiche

- Accensione elettrica diretta con rilevazione a ionizzazione.
- Testa di combustione policombustibile per Metano e G.P.L.
- Rapporto max.-min. 8:1.
- Disponibile in versione completa, con rampa gas in accordo a EN 746-2 (o altre norme se richiesto), con orientamento destro o sinistro.
- Facile da installare, avviare, usare.

Features

- *Direct spark ignition, ionization flame detection electrode.*
- *Multifuel combustion head for Natural gas and LPG.*
- *Turn down ratio 8 to 1.*
- *Available as packaged execution, with gas train according to EN 746-2 (or other required), on right or left hand.*
- *Easy to install, to start, to operate.*

Settori di utilizzo

- Tutti i tipi di forni, sia che venga richiesta una combustione ossidante, stechiometrica o riducente.
- Ceramico, Laterizio, Refrattario:
  - Forni a rulli, Forni a Tunnel, Forni intermittenti, Forni Fusori.

Applications

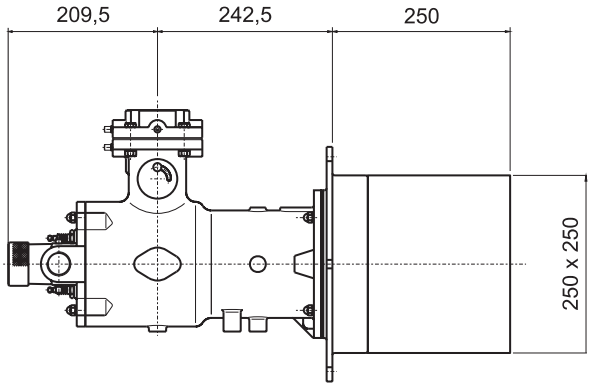
- *All types of kilns, suitable for oxidative, stoichiometric or reducing combustion.*
- *Ceramic, Bricks, Refractory:*
  - *Roller kilns, Tunnel kilns, Intermittent kilns, Melting kilns.*

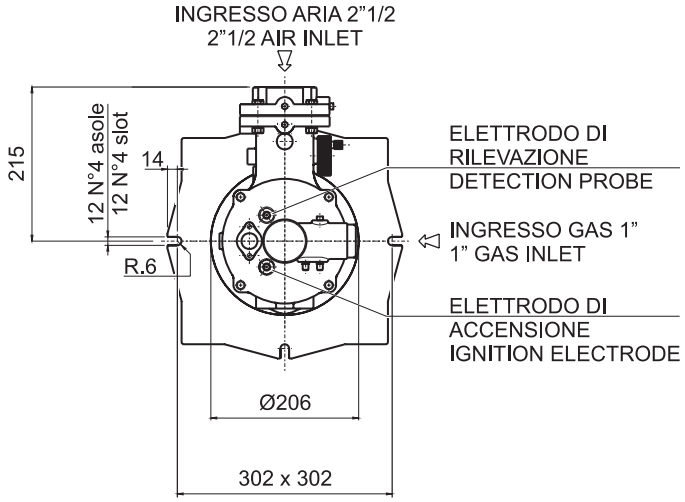
Spalmatrici per Adesivi.

- Alimentare: Essiccatoi per Cereali, Tostatrici.
- Essiccazione Tabacco
- Inoltre tutte quelle applicazioni dove é richiesto un bruciatore di gas con ampio campo di regolazione a funzionamento automatico, con possibilità di essere utilizzato in forte depressione o forte contro-pressione.

- *Food: Cereal Dryers, Roasters.*
- *Drying Tobacco etc.*
- *And furthermore, for any application which requires a wide regulation automatic gas burner, capable of operating in a strong vacuum or with strong counter-pressure.*

Dimensioni d'ingombro (mm)
Overall dimensions (mm)





Dati Tecnici
Technical data

Modello - *Model*	**BP N 18 GV S/0.110**	**BP N 18 GV S/0.170**	
Potenzialità Min. - *Output Min.*	48 kW (41.000 kcal/h)		
Potenzialità Max. - *Output Max.*	400 kW (350.000 kcal/h)		
Combustibile - *Fuel*	CH4 / G.P.L. - *CH4 / LPG*		
Mat. Camera Comb. - *Combustion Chamber Mat.*	Getto di calcestruzzo - *Concrete Casting*		
Diametro Uscita Cam. - *Chamber Outlet Diameter*	Ø110 mm	Ø170 mm	
Eccesso aria Max. - *Max. excess of air*	100% a/*at* 200 kW (175.000 kcal/h)		
Eccesso gas Max. - *Max. excess of gas*	35% a/*at* 400 kW (350.000 kcal/h)		
* Diametro fiamma - *Flame diameter*	130 mm	190 mm	
* Lunghezza fiamma - *Flame length*	700 mm	500 mm	
Pressione alim. gas - *Gas supply pressure*	35 mbar	35 mbar	
Pressione alim. aria - *Air supply pressure*	30 mbar	30 mbar	
Peso - *Weight (Combustion Chamber Excluded)*	20 kg	20 kg	

Le caratteristiche sopra descritte sono nelle condizioni di massima potenzialità. Le pressioni riportate sono indicative, quelle del gas sono riferite al **Metano** e al **GPL**.
*The above mentioned performance data are described at their maximum power. Pressure showed are guidelines only. Gas pressures are refer to **Methane** and **LPG**.*

* Condizione di stechiometrico - *Stoichiometric conditions*

Le caratteristiche tecniche e le misure d'ingombro non sono impegnative.
Performance data and dimensions are guidelines only.

DESCRIPTION

BURNER mod.: BP N 18 GV S/0

SCHEDE No.

General Informations

The **"BP N 18 GV S/0"** gas burner is a blown-air burner which can operate with natural gas, LPG, lean gas and gas with low calorific power (on request).
Burner operation may be automatic or semiautomatic, and burner is equipped with electric ignition and detection electrode.
This burner is classified as a "high/average speed gas burner", with exhaust gases speed coming out from the combustion chamber racing from few m/s to 100 m/s, or even higher speed according to the outlet diameter of the burner combustion chamber.
Combustion air temperature may range from room temperature to 100 °C.
Max. thermal power is 400 kW (350.000 kcal/h) and min. thermal power is 48 kW (41.000 kcal/h).
Because of its flexibility, this burner may be adjusted with a wide capacity range up to a 8:1 ratio.

Features

- Direct spark ignition, ionization flame detection electrode.
- Multifuel combustion head for Natural gas and LPG.
- Turn down ratio 8 to 1.
- Available as packaged execution, with gas train according to EN 746-2 (or other required), on right or left hand.
- Easy to install, to start, to operate.

Applications

- All types of kilns, suitable for oxidative, stoichiometric or reducing combustion.
- Ceramic, Bricks, Refractory:
  - Roller kilns, Tunnel kilns, Intermittent kilns, Melting kilns.
  - Continuous and Intermittent Dryers.
- Iron metallurgic Industry.
- Surfaces Treatment.
- Glass: Hardening ovens.
- Printing and Packing: Air Heaters for Rotogravures, Flexographic and Coupling and adhesive coating Machines.
- Food: Cereal Dryers, Roasters.
- Drying Tobacco etc.
- And furthermore, for any application which requires a wide regulation automatic gas burner, capable of operating in a strong vacuum or with strong counter-pressure.

RIELLO

TECHNICAL SHEET

BURNER mod.: BP N 18 GV S/0

SCHEDE No.

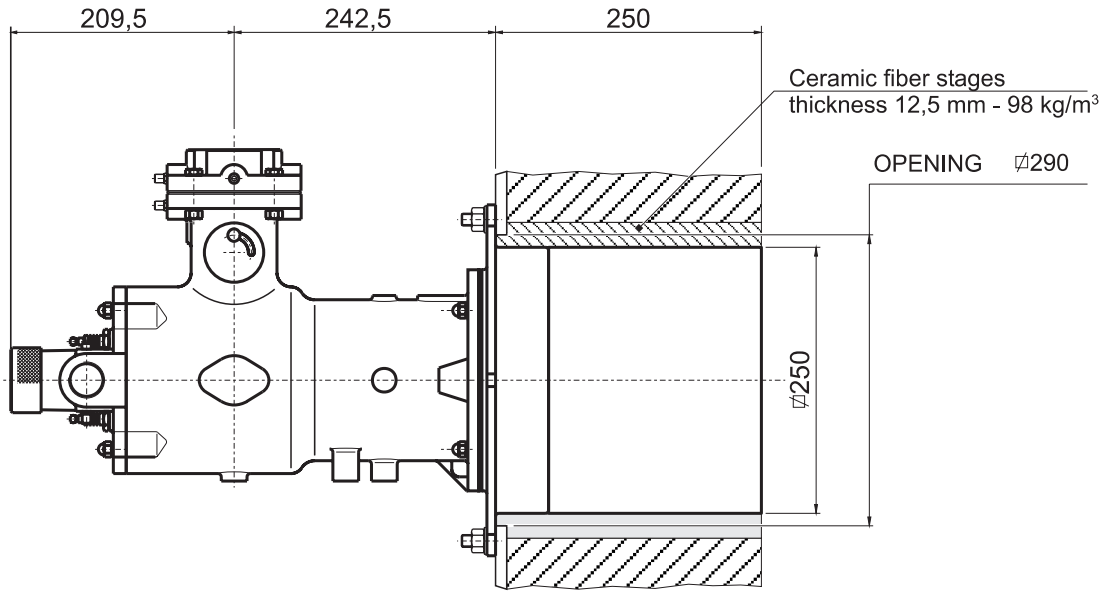
BURNER MOD.	*BP N 18 GV S/0.110*	*BP N 18 GV S/0.170*
MAXIMUM POWER	400 kW (350.000 kcal/h)	400 kW (350.000 kcal/h)
MINIMUM POWER (100% Excess of air)	48 kW (41.000 kcal/h)	48 kW (41.000 kcal/h)
BURNER COMB. CHAMBER MATERIAL	Concrete casting	Concrete casting
BURNER COMB. CHAMBER EXIT DIAM.	Ø110 mm	Ø170 mm
MAXIMUM EXCESS OF AIR	100% a 200 kW (175.000 kcal/h)	100% a 200 kW (175.000 kcal/h)
MAXIMUM EXCESS OF GAS	30% a 400 kW (350.000 kcal/h)	30% a 400 kW (350.000 kcal/h)
STOICHIOMETRIC EXIT SPEED	70 m/s	30 m/s
STOICHIOMETRIC FLAME DIAMETER	130 mm	190 mm
STOICHIOMETRIC FLAME LENGTH	700 mm	500 mm
GAS SUPPLY PRESSURE	35 mbar	35 mbar
AIR SUPPLY PRESSURE	30 mbar	30 mbar

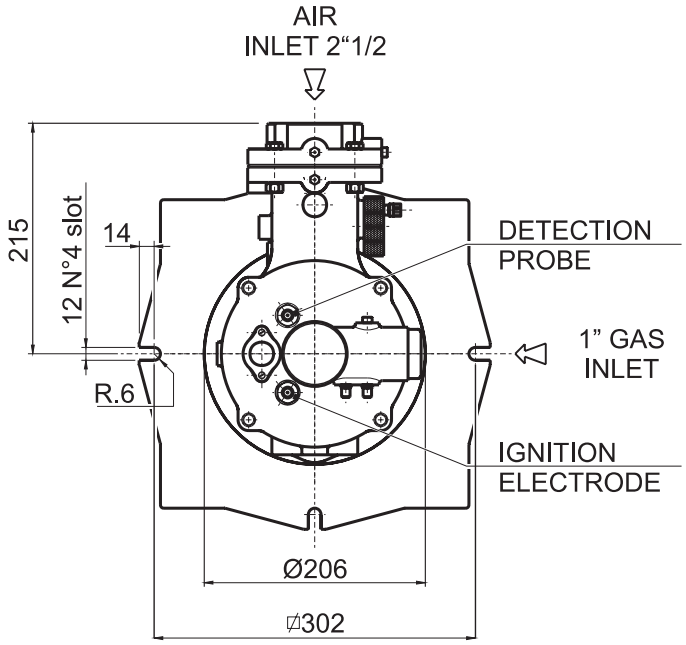
*The above mentioned performance data are described at their maximum power. Pressure showed are guideline only. Gas pressures are referred to **Methane** and **LPG**.*

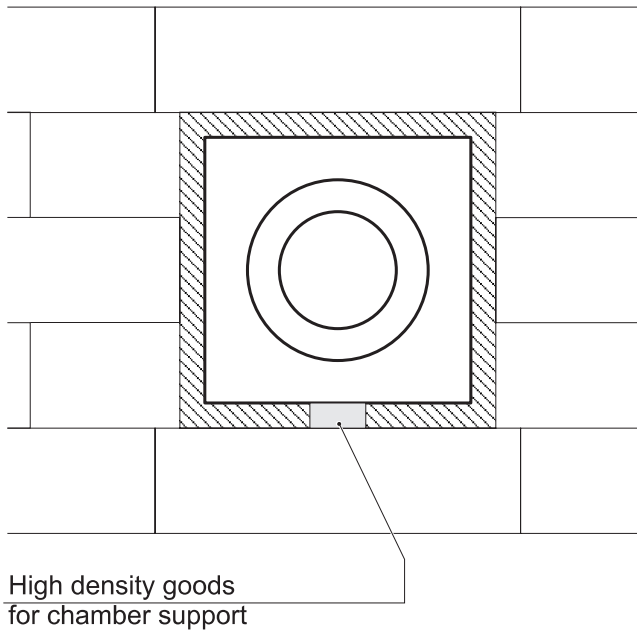
BURNER IGNITION	Recommended at low power
FLAME IGNITION	By ignition electrode with discharge 9.000 VAC 25 mA
FLAME MONITORING	By ionization electrode or UV cell
BURNER OPERATION	On / Off ; High / Low Flame ; Modulating
FUEL	NATURAL GAS . . . . . .(Data Sheet No.:)
	PROPANE / BUTANE . . . . . .(Data Sheet No.:)
	LEAN GAS . . . . . .(Contact NBP)
COMBUSTION AIR	CONDITIONS . . . . . .Filtered and Clean Air
	. . . . . .Room Temperature= 20 ÷ 25 °C
	. . . . . .Max. Temperature= 100 °C
WORKING CHAMBER MAX. TEMP.	1.250 ÷ 1.450 °C
BURNER POSITION	Horizontal / Vertical
BURNER INSTALLATION	See Data Sheet No.
BURNER WEIGHT	20 kg (Combustion Chamber Excluded)
CONSTRUCTION MATERIAL	Burner Housing . . . . . .CAST IRON
	Gas Adjusting Body. . . . . .CAST IRON
	Combustion Head. . . . . .CAST IRON
	Burner Combustion Chamber .CONCRETE CASTING

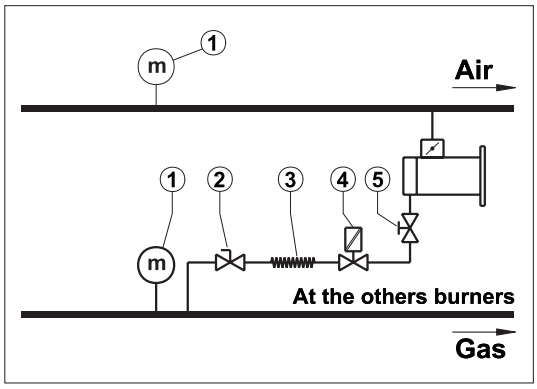
BURNER mod.: BP N 18 GV S/0

INSTALLATION EXAMPLE ON KILN

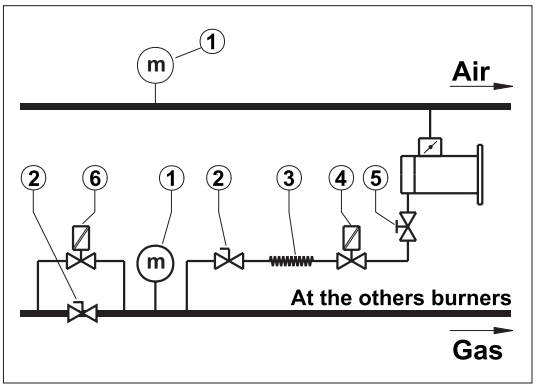




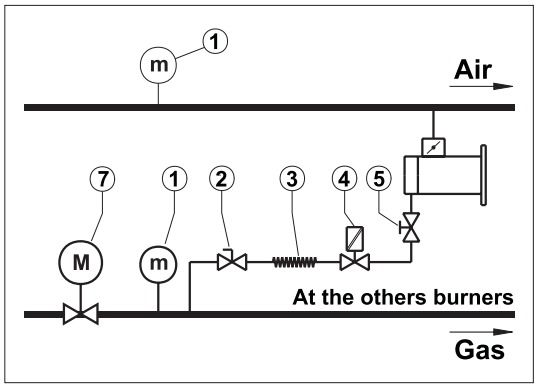




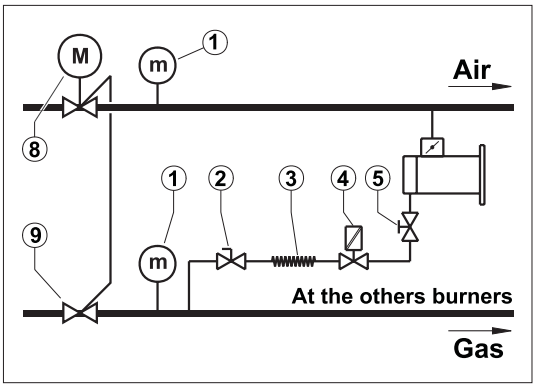
a) *On/Off adjusting.*



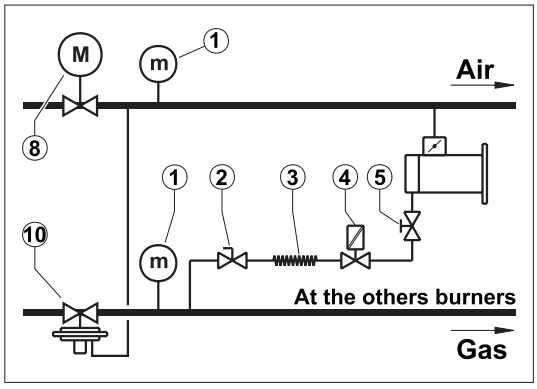
b) *High/Low with fix air adjusting.*



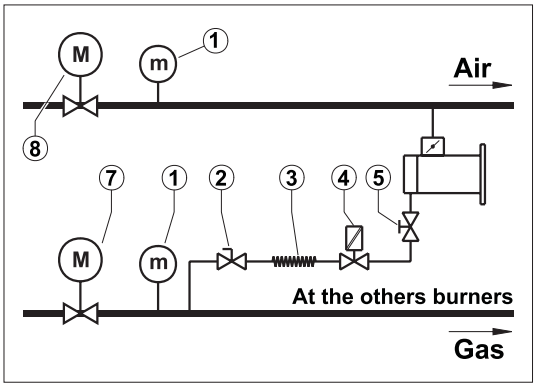
c) *Modulant with fix air adjusting.*



d) *Modulant adjusting by combined air/ gas valves.*



e) *Modulant adjusting by motorized gas ratio adjusting valve.*



f) *Ratio adjusting controlled by motorized valve on air and gas.*

1) Manometer
2) Manual interception cock
6) High/Low flame adjusting valve
7) Gas adjusting motorized valve

RIELLO

BRUCIATORE AD ALTA / MEDIA VELOCITÀ INTENSIVO
INTENSIVE HIGH AND AVERAGE SPEED BURNER

BP N 60 GV S/...

Generalità

Il bruciatore di gas **"BP N 60 GV S/..."** é un bruciatore ad aria soffiata funzionante con gas naturale, G.P.L., manufatti e gas a basso potere calorico (a richiesta).

Il funzionamento di questo bruciatore può essere automatico o semiautomatico, ed é previsto di accensione e rilevazione tramite elettrodo.

E' un bruciatore propriamente classificato *"bruciatore di gas ad alta/media velocità"*, con velocità dei gas combusti in uscita dalla camera di combustione variante da pochi m/s fino a 100 m/s o velocità superiori in funzione della sezione di uscita del cono bruciatore.

La temperatura dell'aria comburente prevista su questo bruciatore può variare da temperatura ambiente fino a 100 °C.

La potenzialità termica massima é di 700 kW (600 Mcal/h) mentre la potenzialità minima può arrivare fino a 20 kW (16,5 Mcal/h).

Essendo questo bruciatore molto flessibile, può essere regolato con larga escursione di portata fino ad un rapporto di 35:1.

General Informations

The **"BP N 60 GV S/..."** *gas burner is a blown-air burner which can operate with natural gas, LPG, lean gas and gas with low calorific power (on request).*

Burner operation may be automatic or semiautomatic, and burner is equipped with electric ignition and detection electrode.

This burner is classified as a "high/medium speed gas burner", with exhaust gases speed coming out from the combustion chamber racing from few m/s to 100 m/s, or even higher speed according to the outlet diameter of the burner cone.

Combustion air temperature may range from room temperature to 100 °C.

Max. thermal power is 700 kW (600 Mcal/h) and min. thermal power is 20 kW (16,5 Mcal/h).

Because of its flexibility, this burner may be adjusted with a wide capacity range up to a 35:1 ratio.

Caratteristiche

- Accensione elettrica diretta con rilevazione a ionizzazione.
- Testa di combustione policombustibile per Metano e G.P.L.
- Rapporto max.-min. 35:1.
- Disponibile in versione completa, con rampa gas in accordo a EN 746-2 (o altre norme se richiesto), con orientamento destro o sinistro.
- Facile da installare, avviare, usare.

Features

- *Direct spark ignition, ionization flame detection electrode.*
- *Multifuel combustion head for Natural gas and LPG.*
- *Turn down ratio 35 to 1.*
- *Available as packaged execution, with gas train according to EN 746-2 (or other required), on right or left hand.*
- *Easy to install, to start, to operate.*

Settori di utilizzo

- Tutti i tipi di forni, sia che venga richiesta una combustione ossidante, stechiometrica o riducente.
- Ceramico, Laterizio, Refrattario:
  - Forni a rulli, Forni a Tunnel, Forni intermittenti, Forni Fusori.

Applications

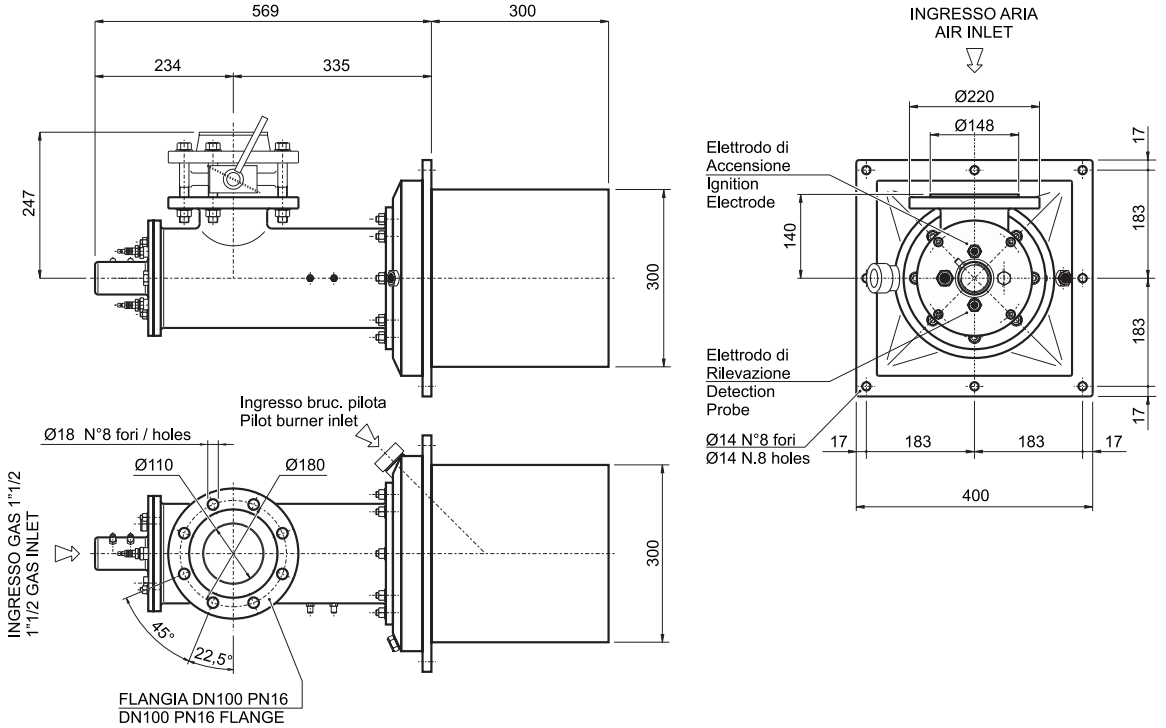
- *All types of kilns, suitable for oxidative, stoichiometri or reducing combustion.*
- *Ceramic, Bricks, Refractory:*
  - *Roller kilns, Tunnel kilns, Intermittent kilns, Melting kilns.*

Spalmatrici per Adesivi.

- Alimentare: Essiccatoi per Cereali, Tostatrici.
- Essiccazione Tabacco
- Inoltre tutte quelle applicazioni dove é richiesto un bruciatore di gas con ampio campo di regolazione a funzionamento automatico, con possibilità di essere utilizzato in forte depressione o forte contropressione.

- *Food: Cereal Dryers, Roasters.*
- *Drying Tobacco etc.*
- *And furthermore, for any application which requires a wide regulation automatic gas burner, capable of operating in a strong vacuum or with strong counter-pressure.*

Dimensioni d'ingombro (mm)
Overall dimensions (mm)



Dati Tecnici
Technical data

Modello - *Model*	□ **BP N 60 GV S/0.95** □ **BP N 60 GV S/60.95**	□ **BP N 60 GV S/0.115** □ **BP N 60 GV S/60.115**	**BP N 60 GV S/0.180** **BP N 60 GV S/60.180**
Potenzialità Min. - *Output Min.*	20 kW (16.500 kcal/h)		
Potenzialità Max. - *Output Max.*	700 kW (600.000 kcal/h)		
Combustibile - *Fuel*	CH4 / G.P.L. - *CH4 / LPG*		
Mat. Camera Comb. - *Combustion Chamber Mat.*	Getto di calcestruzzo - *Concrete Casting*		
Diametro Uscita Cam. - *Chamber Outlet Diameter*	Ø95 mm	Ø115 mm	Ø180 mm
Eccesso aria Max. - *Max. excess of air*	100% a/*at* 350 kW (300.000 kcal/h)		
Eccesso gas Max. - *Max. excess of gas*	35% a/*at* 700 kW (600.0000 kcal/h)		
* Diametro fiamma - *Flame diameter*	100 mm	120 mm	130 mm
* Lunghezza fiamma - *Flame length*	1200 mm	900 mm	700 mm
Pressione alim. gas - *Gas supply pressure*	70 mbar	60 mbar	40 mbar
Pressione alim. aria - *Air supply pressure*	70 mbar	60 mbar	40 mbar
Peso - *Weight (Combustion Chamber Excluded)*	70 kg	68 kg	66 kg

Le caratteristiche sopra descritte sono nelle condizioni di massima potenzialità. Le pressioni riportate sono indicative, quelle del gas sono riferite al **Metano** e al **GPL**.
*The above mentioned performance data are described at their maximum power. Pressure showed are guidelines only. Gas pressures are refer to **Methane** and **LPG**.*

* Condizione di stechiometrico - *Stoichiometric conditions*

□ Solo su richiesta - *Only on request*

Le caratteristiche tecniche e le misure d'ingombro non sono impegnative.
Performance data and dimensions are guidelines only.

DESCRIPTION

BURNER mod.: BP N 60 GV S/0

SCHEDE No.

General Informations

The **"BP N 60 GV S/0** gas burner is a blown-air burner which can operate with natural gas, LPG, lean gas and gas with low calorific power (on request).
Burner operation may be automatic or semiautomatic, and burner is equipped with electric ignition and detection electrode.
This burner is classified as a "high/medium speed gas burner", with exhaust gases speed coming out from the combustion chamber racing from few m/s to 100 m/s, or even higher speed according to the outlet diameter of the burner combustion chamber.
Combustion air temperature may range from room temperature to 100 °C.
Max. thermal power is 700 kW (600.000 kcal/h) and min. thermal power is 20 kW (16.500 kcal/h).
Because of its flexibility, this burner may be adjusted with a wide capacity range up to a 35:1 ratio.

Features

- Direct spark ignition, ionization flame detection electrode.
- Multifuel combustion head for Natural gas and LPG.
- Turn down ratio 35 to 1.
- Available as packaged execution, with gas train according to EN 746-2 (or other required), on right or left hand.
- Easy to install, to start, to operate.

Applications

- All types of kilns, suitable for oxidative, stoichiometric or reducing combustion.
- Ceramic, Bricks, Refractory:
  - Roller kilns, Tunnel kilns, Intermittent kilns, Melting kilns.
  - Continuous and Intermittent Dryers.
- Iron metallurgic Industry.
- Surfaces Treatment.
- Glass: Hardening ovens.
- Printing and Packing: Air Heaters for Rotogravures, Flexographic and Coupling and adhesive coating Machines.
- Food: Cereal Dryers, Roasters.
- Drying Tobacco etc.
- And furthermore, for any application which requires a wide regulation automatic gas burner, capable of operating in a strong vacuum or with strong counter-pressure.

RIELLO

TECHNICAL SHEET

BURNER mod.: BP N 60 GV S/0

SCHEDE No.

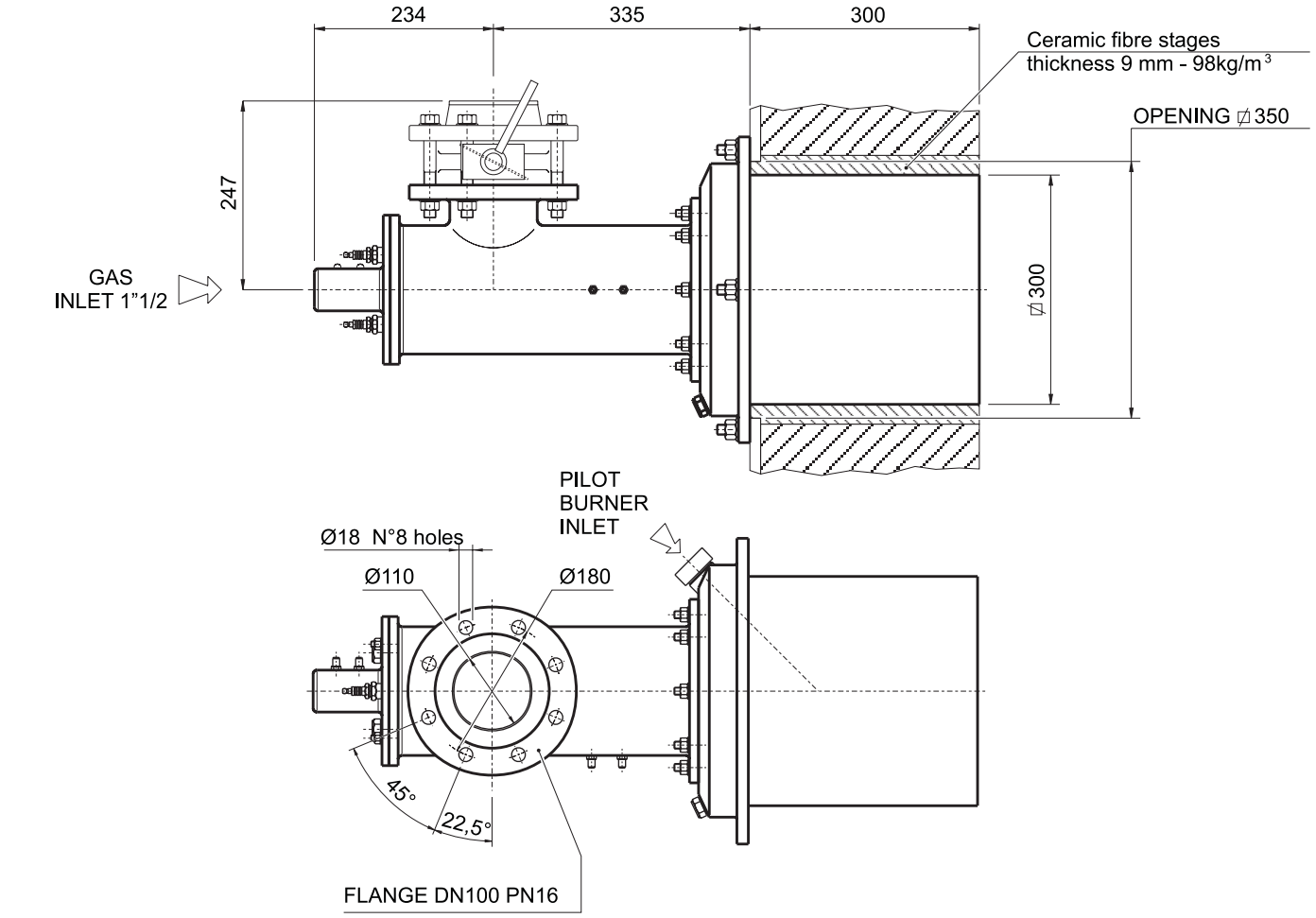
BURNER MOD.	□ *BP N 60 GV S/0.95*	□ *BP N 60 GV S/0.115*	*BP N 60 GV S/0.180*
MAXIMUM POWER	700 kW (600.000 kcal/h)	700 kW (600.000 kcal/h)	700 kW (600.000 kcal/h)
MINIMUM POWER (100% Excess of air)	17,5 kW (15.000 kcal/h)	20 kW (16.500 kcal/h)	20 kW (16.500 kcal/h)
BURNER CONE MATERIAL	Concrete casting	Concrete casting	Concrete casting
BURNER CONE EXIT DIAMETER	Ø95 mm	Ø115 mm	Ø180 mm
MAXIMUM EXCESS OF AIR	100% at 350 kW (300.000 kcal/h)	100% at 350 kW (300.000 kcal/h)	100% at 350 kW (300.000 kcal/h)
MAXIMUM EXCESS OF GAS	30% at 700 kW (600.000 kcal/h)	30% at 700 kW (600.000 kcal/h)	30% at 700 kW (600.000 kcal/h)
STOICHIOMETRIC EXIT SPEED	130 m/s	90 m/s	35 m/s
STOICHIOMETRIC FLAME DIAMETER	100 mm	120 mm	130 mm
STOICHIOMETRIC FLAME LENGTH	1200 mm	900 mm	700 mm
GAS SUPPLY PRESSURE	70 mbar	60 mbar	40 mbar
AIR SUPPLY PRESSURE	70 mbar	60 mbar	40 mbar

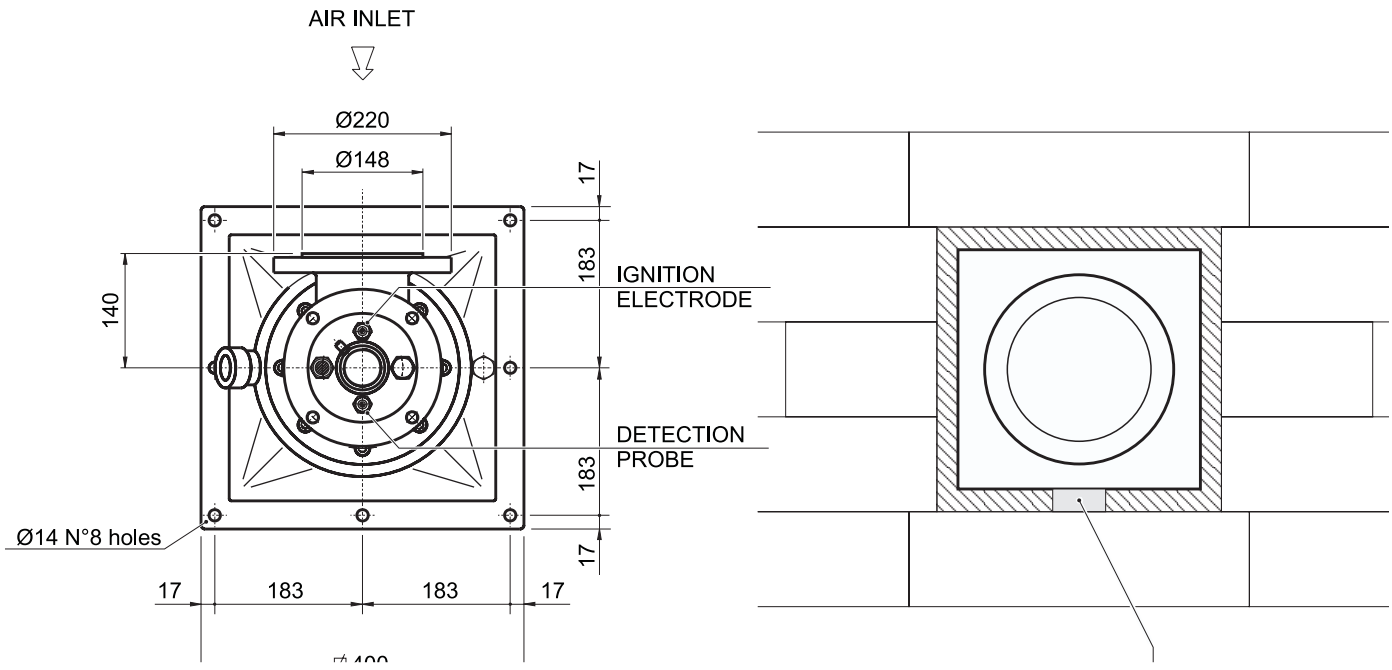
*The above mentioned performance data are described at their maximum power. Pressure showed are guideline only. Gas pressures are referred to **Methane** and **LPG**.* □ *Only on request.*

BURNER IGNITION	Recommended at low power
FLAME IGNITION	By ignition electrode with discharge 9.000 VAC 25 mA
FLAME MONITORING	By ionization electrode or UV cell
BURNER OPERATION	On / Off ; High / Low Flame ; Modulating
FUEL	NATURAL GAS . . . . . .(Data Sheet No.:)
	PROPANE / BUTANE . . . . . .(Data Sheet No.:)
	LEAN GAS . . . . . .(Contact NBP)
COMBUSTION AIR	CONDITIONS . . . . . .Filtered and Clean Air
	. . . . . .Room Temperature= 20 ÷ 25 °C
	. . . . . .Max. Temperature= 100 °C
WORKING CHAMBER MAX. TEMP.	1.250 ÷ 1.450 °C
BURNER POSITION	Horizontal / Vertical
BURNER INSTALLATION	See Data Sheet No.
BURNER WEIGHT	30 kg (Combustion Chamber Excluded)
CONSTRUCTION MATERIAL	Burner Housing . . . . . .STEEL
	Back Body . . . . . .STEEL
	Combustion Head. . . . . .CAST IRON
	Burner Combustion Chamber .CONCRETE CASTING

BURNER mod.: BP N 60 GV S/0

INSTALLATION EXAMPLE ON KILN

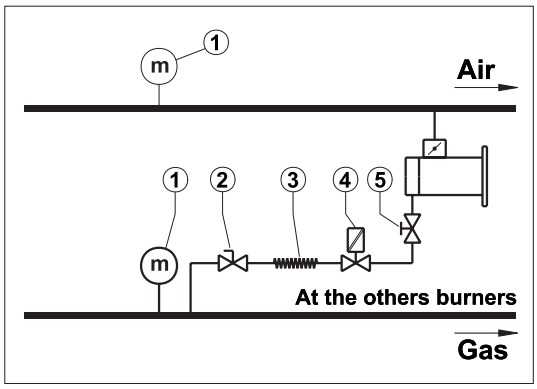




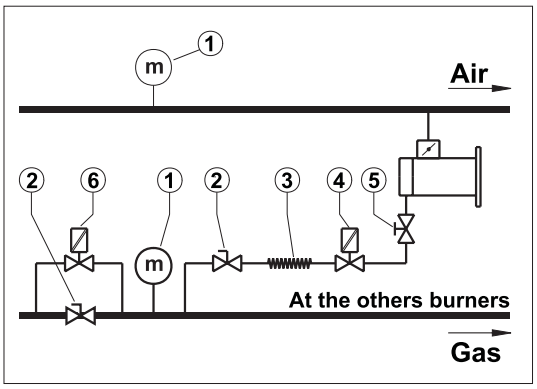
POSSIBLE KIND OF GAS TRAINS FOR BURNERS
CONTROL AND ADJUSTING

BURNER mod.: BP N 60 GV S/0

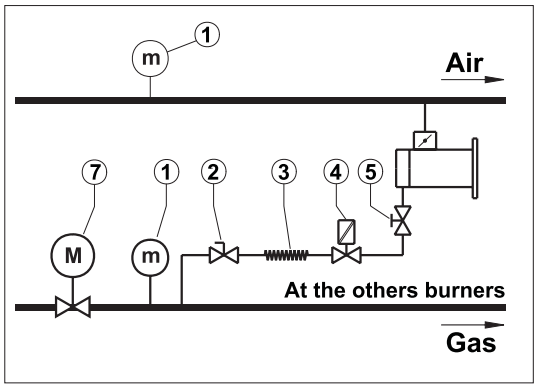
SCHEDE No.



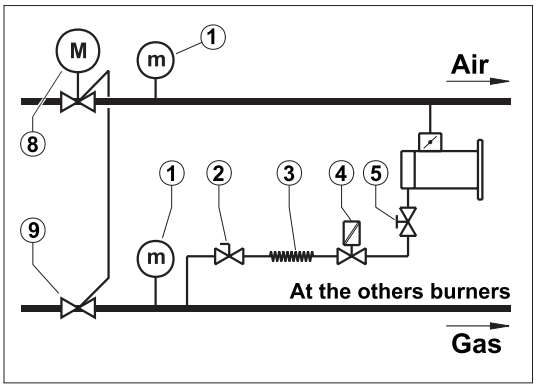
a) *On/Off adjusting.*



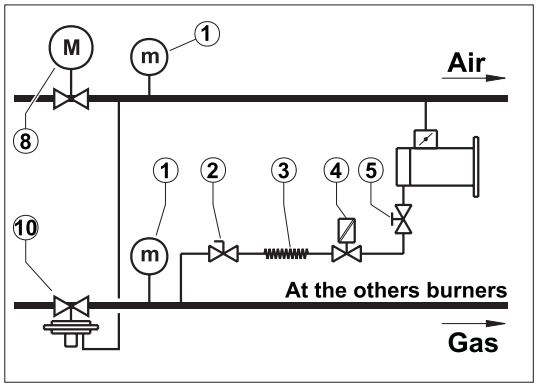
b) *High/Low with fix air adjusting.*



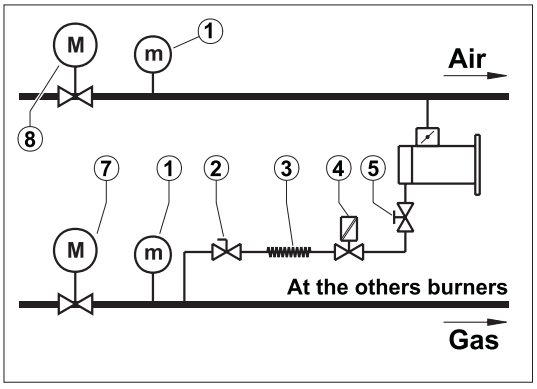
c) *Modulant with fix air adjusting.*



d) *Modulant adjusting by combined air/ gas valves.*



e) *Modulant adjusting by motorized gas ratio adjusting valve.*



f) *Ratio adjusting controlled by motorized valve on air and gas.*

1) Manometer
2) Manual interception cock

6) High/Low flame adjusting valve
7) Gas adjusting motorized valve

RIELLO

BRUCIATORE AD ALTA / MEDIA VELOCITÀ INTENSIVO

INTENSIVE HIGH AND AVERAGE SPEED BURNER

BP N 100 GV S/...

Generalità

Il bruciatore di gas **"BP N 100 GV S/..."** é un bruciatore ad aria soffiata funzionante con gas naturale, G.P.L., manufatti e gas a basso potere calorico (a richiesta).

Il funzionamento di questo bruciatore può essere automatico o semiautomatico, ed é previsto di accensione e rilevazione tramite elettrodo.

E' un bruciatore propriamente classificato *"bruciatore di gas ad alta/media velocità"*, con velocità dei gas combusti in uscita dalla camera di combustione variante da pochi m/s fino a 100 m/s o velocità superiori in funzione della sezione di uscita del cono bruciatore.

La temperatura dell'aria comburente prevista su questo bruciatore può variare da temperatura ambiente fino a 100 °C.

La potenzialità termica massima é di 1.160 kW (1.000 Mcal/h) mentre la potenzialità minima può arrivare fino a 58 kW (50 Mcal/h).

Essendo questo bruciatore molto flessibile, può essere regolato con larga escursione di portata fino ad un rapporto di 20:1.

General Informations

The **"BP N 100 GV S/..."** *gas burner is a blown-air burner which can operate with natural gas, LPG, lean gas and gas with low calorific power (on request).*

Burner operation may be automatic or semiautomatic, and burner is equipped with electric ignition and detection electrode.

This burner is classified as a "high/medium speed gas burner", with exhaust gases speed coming out from the combustion chamber racing from few m/s to 100 m/s, or even higher speed according to the outlet diameter of the burner cone.

Combustion air temperature may range from room temperature to 100 °C.

Max. thermal power is 1.160 kW (1.000 Mcal/h) and min. thermal power is 58 kW (50 Mcal/h).

Because of its flexibility, this burner may be adjusted with a wide capacity range up to a 20:1 ratio.

Caratteristiche

- Accensione elettrica diretta con rilevazione a ionizzazione.
- Testa di combustione policombustibile per Metano e G.P.L.
- Rapporto max.-min. 20:1.
- Disponibile in versione completa, con rampa gas in accordo a EN 746-2 (o altre norme se richiesto), con orientamento destro o sinistro.
- Facile da installare, avviare, usare.

Features

- *Direct spark ignition, ionization flame detection electrode.*
- *Multifuel combustion head for Natural gas and LPG.*
- *Turn down ratio 20 to 1.*
- *Available as packaged execution, with gas train according to EN 746-2 (or other required), on right or left hand.*
- *Easy to install, to start, to operate.*

Settori di utilizzo

- Tutti i tipi di forni, sia che venga richiesta una combustione ossidante, stechiometrica o riducente.
- Ceramico, Laterizio, Refrattario:
  - Forni a rulli, Forni a Tunnel, Forni intermittenti, Forni Fusori.

Applications

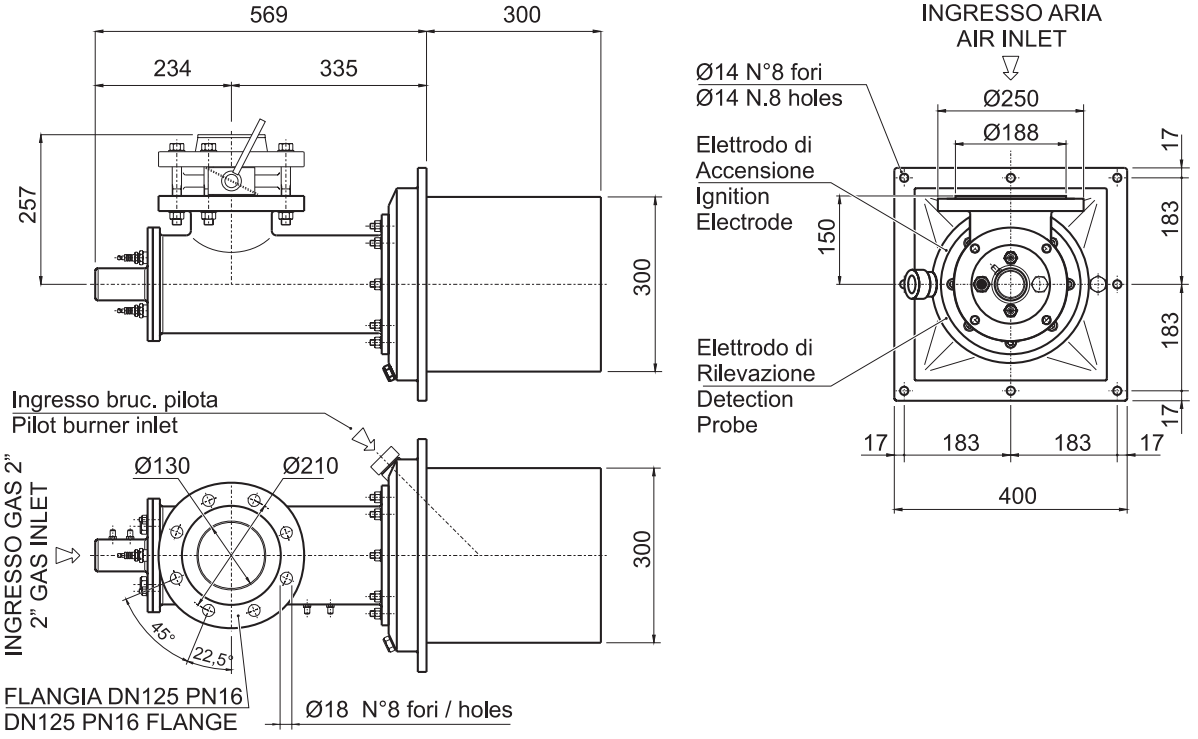
- *All types of kilns, suitable for oxidative, stoichiometric or reducing combustion.*
- *Ceramic, Bricks, Refractory:*
  - *Roller kilns, Tunnel kilns, Intermittent kilns, Melting kilns.*

Spalmatrici per Adesivi.

- Alimentare: Essiccatoi per Cereali, Tostatrici.
- Essiccazione Tabacco
- Inoltre tutte quelle applicazioni dove é richiesto un bruciatore di gas con ampio campo di regolazione a funzionamento automatico, con possibilità di essere utilizzato in forte depressione o forte contropressione.

- *Food: Cereal Dryers, Roasters.*
- *Drying Tobacco etc.*
- *And furthermore, for any application which requires a wide regulation automatic gas burner, capable of operating in a strong vacuum or with strong counter-pressure.*

Dimensioni d'ingombro (mm)
Overall dimensions (mm)



Dati Tecnici
Technical data

Modello - *Model*	**BP N 100 GV S/0** **BP N 100 GV S/60**	
Potenzialità Min. - *Output Min.*	58 kW (50 Mcal/h)	
Potenzialità Max. - *Output Max.*	1.160 kW (1.000 Mcal/h)	
Combustibile - *Fuel*	CH4 / G.P.L. - *CH4 / LPG*	
Mat. Camera Comb. - *Combustion Chamber Mat.*	Getto di calcestruzzo - *Concrete Casting*	
Diametro Uscita Cam. - *Chamber Outlet Diameter*	Ø200 mm	
Eccesso aria Max. - *Max. excess of air*	100% a/*at* 580 kW (500 Mcal/h)	
Eccesso gas Max. - *Max. excess of gas*	35% a/*at* 1.160 kW (1.000 Mcal/h)	
* Diametro fiamma - *Flame diameter*	300 mm	
* Lunghezza fiamma - *Flame length*	1200 mm	
Pressione alim. gas - *Gas supply pressure*	45 mbar	
Pressione alim. aria - *Air supply pressure*	45 mbar	
Peso - *Weight*	130 kg (Combustion Chamber Included)	

Le caratteristiche sopra descritte sono nelle condizioni di massima potenzialità. Le pressioni riportate sono indicative, quelle del gas sono riferite al **Metano** e al **GPL**.
*The above mentioned performance data are described at their maximum power. Pressure showed are guidelines only. Gas pressures are refer to **Methane** and **LPG**.*

* Condizione di stechiometrico - *Stoichiometric conditions*

Le caratteristiche tecniche e le misure d'ingombro non sono impegnative.
Performance data and dimensions are guidelines only.

DESCRIPTION

BURNER mod.: BP N 100 GV S/...

SCHEDE No.

General Informations

The **"BP N 100 GV S/..."** gas burner is a blown-air burner which can operate with natural gas, LPG, lean gas and gas with low calorific power (on request).
Burner operation may be automatic or semiautomatic, and burner is equipped with electric ignition and detection electrode.
This burner is classified as a "high/medium speed gas burner", with exhaust gases speed coming out from the combustion chamber racing from few m/s to 100 m/s, or even higher speed according to the outlet diameter of the burner combustion chamber.
Combustion air temperature may range from room temperature to 100 °C.
Max. thermal power is 1.160 kW (1.000.000 kcal/h) and min. thermal power is 58 kW (50.000 kcal/h).
Because of its flexibility, this burner may be adjusted with a wide capacity range up to a 20:1 ratio.

Features

- Direct spark ignition, ionization flame detection electrode.
- Multifuel combustion head for Natural gas and LPG.
- Turn down ratio 20 to 1.
- Available as packaged execution, with gas train according to EN 746-2 (or other required), on right or left hand.
- Easy to install, to start, to operate.

Applications

- All types of kilns, suitable for oxidative, stoichiometric or reducing combustion.
- Ceramic, Bricks, Refractory:
  - Roller kilns, Tunnel kilns, Intermittent kilns, Melting kilns.
  - Continuous and Intermittent Dryers.
- Iron metallurgic Industry.
- Surfaces Treatment.
- Glass: Hardening ovens.
- Printing and Packing: Air Heaters for Rotogravures, Flexographic and Coupling and adhesive coating Machines.
- Food: Cereal Dryers, Roasters.
- Drying Tobacco etc.
- And furthermore, for any application which requires a wide regulation automatic gas burner, capable of operating in a strong vacuum or with strong counter-pressure.

RIELLO

TECHNICAL SHEET

BURNER mod.: BP N 100 GV S/...

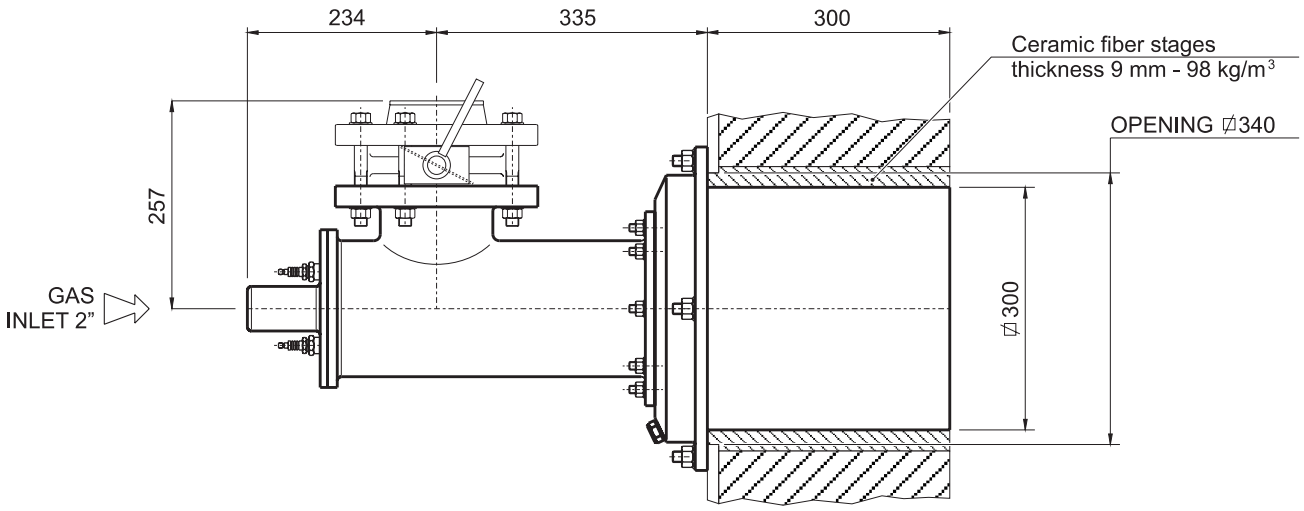
SCHEDE No.

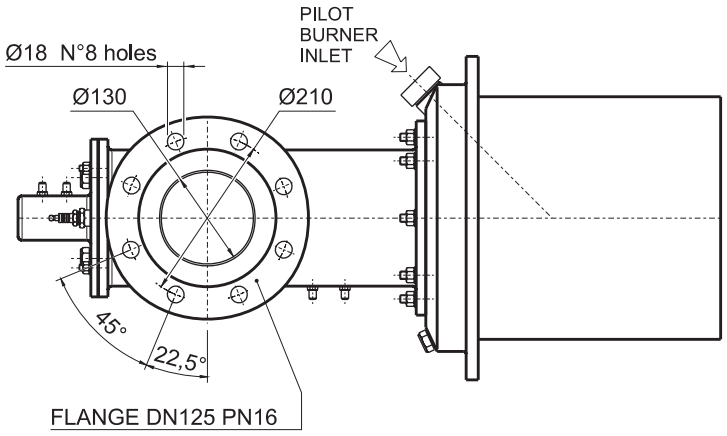
BURNER MOD.	*BP N 100 GV S/0.200* *BP N 100 GV S/60.200*	
MAXIMUM POWER	1.160 kW (1.000 Mcal/h)	
MINIMUM POWER (100% Excess of air)	58 kW (50 Mcal/h)	
BURNER COMB. CHAMBER MATERIAL	Concrete casting	
BURNER COMB. CHAMBER EXIT DIAM.	Ø200 mm	
MAXIMUM EXCESS OF AIR	100% a 580 kW (500 Mcal/h)	
MAXIMUM EXCESS OF GAS	35% a 1.160 kW (1.000 Mcal/h)	
STOICHIOMETRIC EXIT SPEED	50 m/s	
STOICHIOMETRIC FLAME DIAMETER	300 mm	
STOICHIOMETRIC FLAME LENGTH	1.200 mm	
GAS SUPPLY PRESSURE	45 mbar	
AIR SUPPLY PRESSURE	45 mbar	

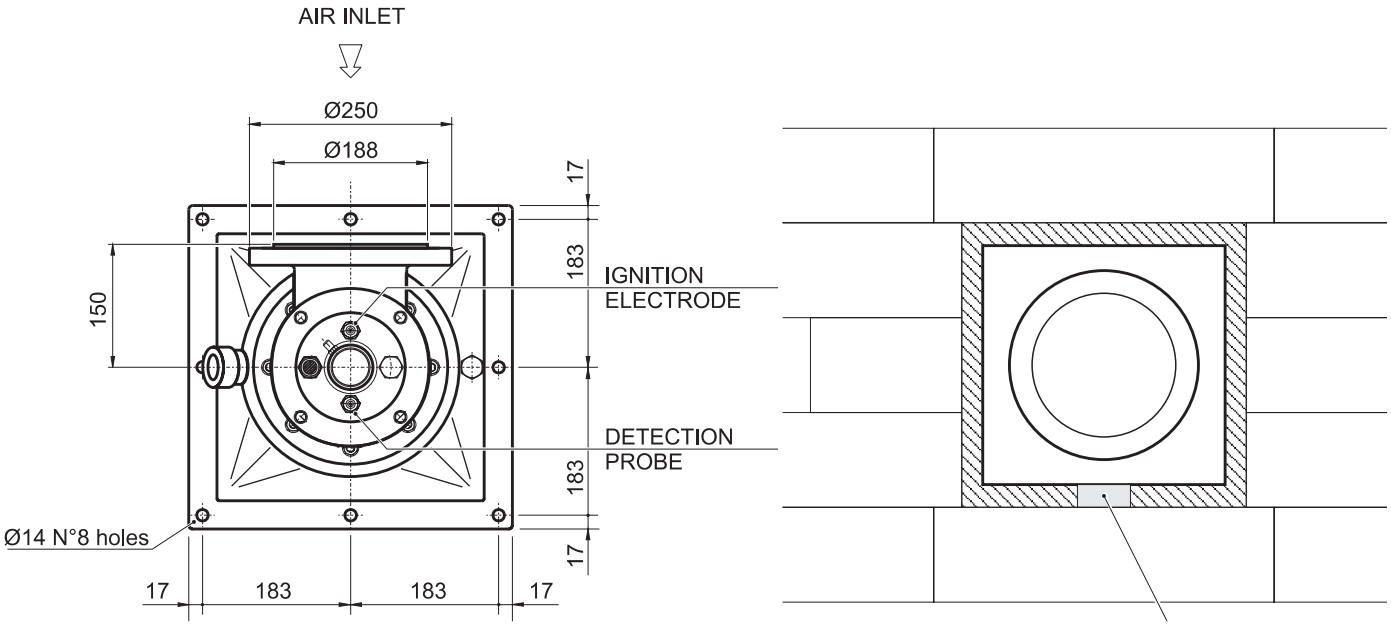
*The above mentioned performance data are described at their maximum power. Pressure showed are guideline only. Gas pressures are referred to **Methane** and **LPG**.*

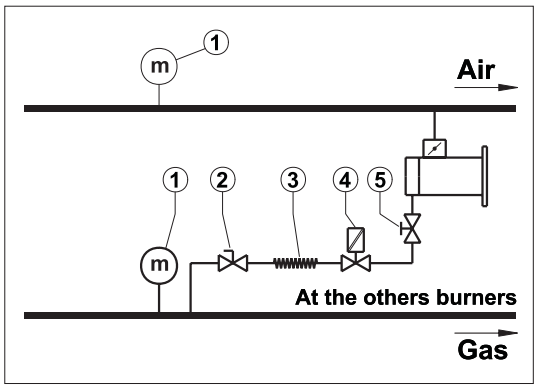
BURNER IGNITION	Recommended at low power
FLAME IGNITION	By ignition electrode with discharge 9.000 VAC 25 mA
FLAME MONITORING	By ionization electrode or UV cell
BURNER OPERATION	On / Off ; High / Low Flame ; Modulating
FUEL	NATURAL GAS . . . . . .(Data Sheet No.:)
	PROPANE / BUTANE . . . . . .(Data Sheet No.:)
	LEAN GAS . . . . . .(Contact NBP)
COMBUSTION AIR	CONDITIONS . . . . . .Filtered and Clean Air
	. . . . . .Room Temperature= 20 ÷ 25 °C
	. . . . . .Max. Temperature= 100 °C
WORKING CHAMBER MAX. TEMP.	1.250 ÷ 1.450 °C
BURNER POSITION	Horizontal / Vertical
BURNER INSTALLATION	See Data Sheet No.
BURNER WEIGHT	130 kg (Combustion Chamber Included)
CONSTRUCTION MATERIAL	Burner Housing . . . . . .STEEL
	Back Body . . . . . .STEEL
	Combustion Head. . . . . .CAST IRON
	Burner Combustion Chamber .CONCRETE CASTING

INSTALLATION EXAMPLE ON KILN

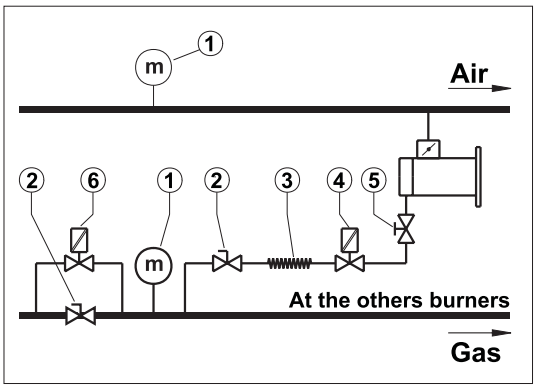




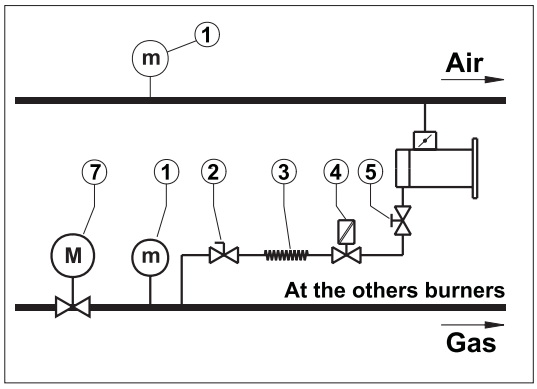




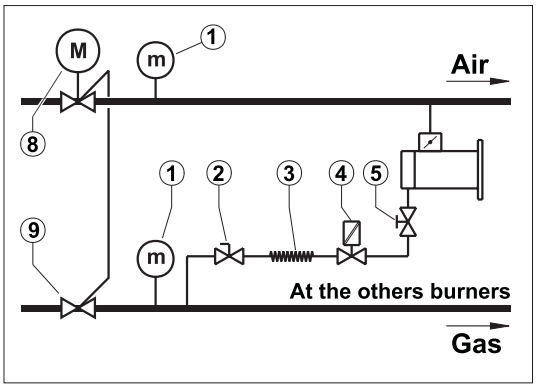
a) *On/Off adjusting.*



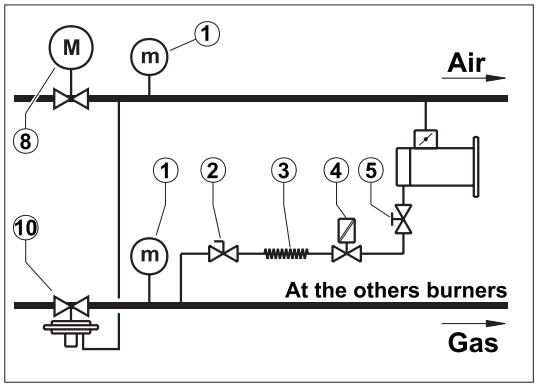
b) *High/Low with fix air adjusting.*



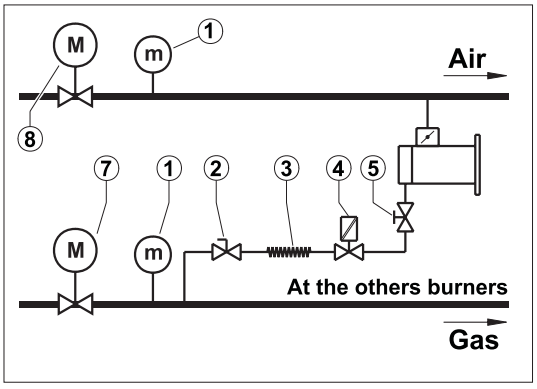
c) *Modulant with fix air adjusting.*



d) *Modulant adjusting by combined air/ gas valves.*



e) *Modulant adjusting by motorized gas ratio adjusting valve.*



f) *Ratio adjusting controlled by motorized valve on air and gas.*

1) Manometer
2) Manual interception cock
6) High/Low flame adjusting valve
7) Gas adjusting motorized valve

RIELLO

BRUCIATORE AD ALTA / MEDIA VELOCITÀ INTENSIVO
INTENSIVE HIGH AND AVERAGE SPEED BURNER

BP N 150 GV S/...

Generalità

Il bruciatore di gas **"BP N 150 GV S/..."** é un bruciatore ad aria soffiata funzionante con gas naturale, G.P.L., manufatti e gas a basso potere calorico (a richiesta).

Il funzionamento di questo bruciatore può essere automatico o semiautomatico, ed é previsto di accensione e rilevazione tramite elettrodo.

E' un bruciatore propriamente classificato *"bruciatore di gas ad alta/media velocità"*, con velocità dei gas combusti in uscita dalla camera di combustione variante da pochi m/s fino a 100 m/s o velocità superiori in funzione della sezione di uscita del cono bruciatore.

La temperatura dell'aria comburente prevista su questo bruciatore può variare da temperatura ambiente fino a 100 °C.

La potenzialità termica massima é di 1.750 kW (1.500 Mcal/h) mentre la potenzialità minima può arrivare fino a 88 kW (75 Mcal/h).

Essendo questo bruciatore molto flessibile, può essere regolato con larga escursione di portata fino ad un rapporto di 20:1.

General Informations

The **"BP N 150 GV S/..."** *gas burner is a blown-air burner which can operate with natural gas, LPG, lean gas and gas with low calorific power (on request).*

Burner operation may be automatic or semiautomatic, and burner is equipped with electric ignition and detection electrode.

This burner is classified as a "high/medium speed gas burner", with exhaust gases speed coming out from the combustion chamber racing from few m/s to 100 m/s, or even higher speed according to the outlet diameter of the burner cone.

Combustion air temperature may range from room temperature to 100 °C.

Max. thermal power is 1.750 kW (1.500 Mcal/h) and min. thermal power is 88 kW (75 Mcal/h).

Because of its flexibility, this burner may be adjusted with a wide capacity range up to a 20:1 ratio.

Caratteristiche

- Accensione elettrica diretta con rilevazione a ionizzazione.
- Testa di combustione policombustibile per Metano e G.P.L.
- Rapporto max.-min. 20:1.
- Disponibile in versione completa, con rampa gas in accordo a EN 746-2 (o altre norme se richiesto), con orientamento destro o sinistro.
- Facile da installare, avviare, usare.

Features

- *Direct spark ignition, ionization flame detection electrode.*
- *Multifuel combustion head for Natural gas and LPG.*
- *Turn down ratio 20 to 1.*
- *Available as packaged execution, with gas train according to EN 746-2 (or other required), on right or left hand.*
- *Easy to install, to start, to operate.*

Settori di utilizzo

- Tutti i tipi di forni, sia che venga richiesta una combustione ossidante, stechiometrica o riducente.
- Ceramico, Laterizio, Refrattario:
  - Forni a rulli, Forni a Tunnel, Forni intermittenti, Forni Fusori.

Applications

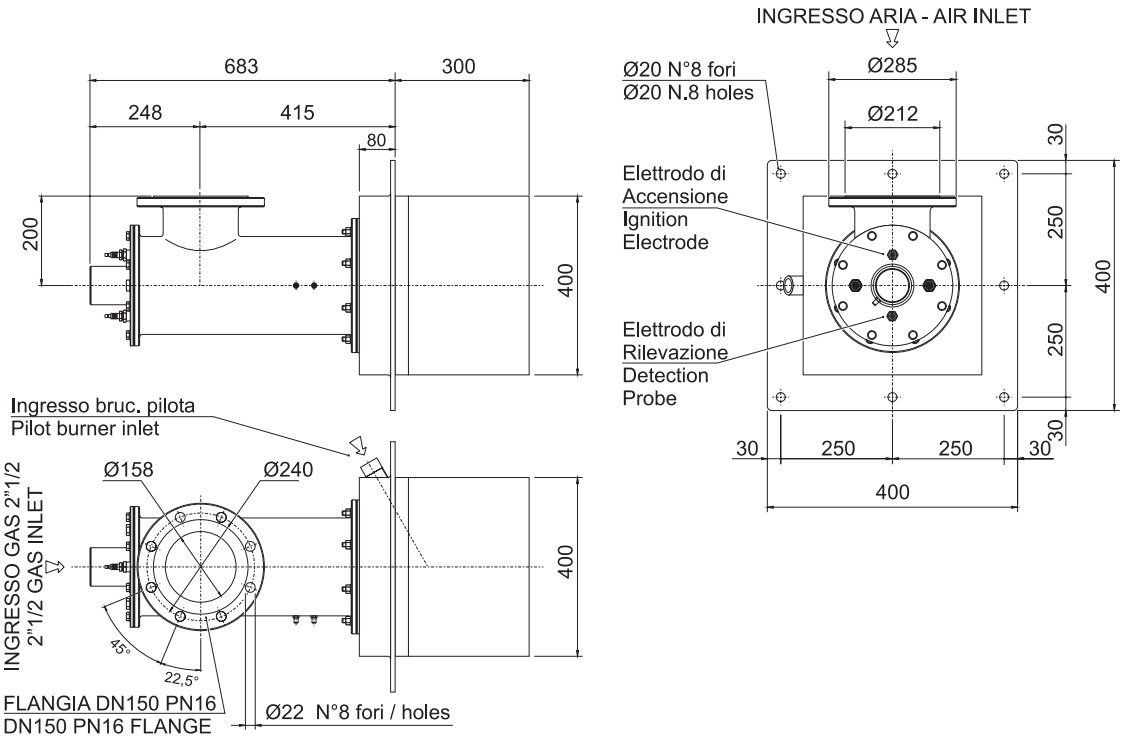
- *All types of kilns, suitable for oxidative, stoichiometric or reducing combustion.*
- *Ceramic, Bricks, Refractory:*
  - *Roller kilns, Tunnel kilns, Intermittent kilns, Melting kilns.*

Spalmatrici per Adesivi.

- Alimentare: Essiccatoi per Cereali, Tostatrici.
- Essiccazione Tabacco
- Inoltre tutte quelle applicazioni dove é richiesto un bruciatore di gas con ampio campo di regolazione a funzionamento automatico, con possibilità di essere utilizzato in forte depressione o forte contropressione.

- *Food: Cereal Dryers, Roasters.*
- *Drying Tobacco etc.*
- *And furthermore, for any application which requires a wide regulation automatic gas burner, capable of operating in a strong vacuum or with strong counter-pressure.*

Dimensioni d'ingombro (mm)
Overall dimensions (mm)



Dati Tecnici
Technical data

Modello - *Model*	**BP N 150 GV S/0** **BP N 150 GV S/60**	
Potenzialità Min. - *Output Min.*	88 kW (75 Mcal/h)	
Potenzialità Max. - *Output Max.*	1.750 kW (1.500 Mcal/h)	
Combustibile - *Fuel*	CH4 / G.P.L. - *CH4 / LPG*	
Mat. Camera Comb. - *Combustion Chamber Mat.*	Getto di calcestruzzo - *Concrete Casting*	
Diametro Uscita Cam. - *Chamber Outlet Diameter*	Ø250 mm	
Eccesso aria Max. - *Max. excess of air*	100% a/*at* 875 kW (750 Mcal/h)	
Eccesso gas Max. - *Max. excess of gas*	35% a/*at* 1.750 kW (1.500 Mcal/h)	
* Diametro fiamma - *Flame diameter*	400 mm	
* Lunghezza fiamma - *Flame length*	1800 mm	
Pressione alim. gas - *Gas supply pressure*	45 mbar	
Pressione alim. aria - *Air supply pressure*	45 mbar	
Peso - *Weight*	255 kg (Combustion Chamber Included)	

Le caratteristiche sopra descritte sono nelle condizioni di massima potenzialità. Le pressioni riportate sono indicative, quelle del gas sono riferite al **Metano** e al **GPL**.
*The above mentioned performance data are described at their maximum power. Pressure showed are guidelines only. Gas pressures are refer to **Methane** and **LPG**.*

* Condizione di stechiometrico - *Stoichiometric conditions*

Le caratteristiche tecniche e le misure d'ingombro non sono impegnative.
Performance data and dimensions are guidelines only.

DESCRIPTION

BURNER mod.: BP N 150 GV S/...

SCHEDE No.

General Informations

The **"BP N 150 GV S/..."** gas burner is a blown-air burner which can operate with natural gas, LPG, lean gas and gas with low calorific power (on request).
Burner operation may be automatic or semiautomatic, and burner is equipped with electric ignition and detection electrode.
This burner is classified as a "high/medium speed gas burner", with exhaust gases speed coming out from the combustion chamber racing from few m/s to 100 m/s, or even higher speed according to the outlet diameter of the burner combustion chamber.
Combustion air temperature may range from room temperature to 100 °C.
Max. thermal power is 1.750 kW (1.500.000 kcal/h) and min. thermal power is 88 kW (75.250 kcal/h).
Because of its flexibility, this burner may be adjusted with a wide capacity range up to a 20:1 ratio.

Features

- Direct spark ignition, ionization flame detection electrode.
- Multifuel combustion head for Natural gas and LPG.
- Turn down ratio 20 to 1.
- Available as packaged execution, with gas train according to EN 746-2 (or other required), on right or left hand.
- Easy to install, to start, to operate.

Applications

- All types of kilns, suitable for oxidative, stoichiometric or reducing combustion.
- Ceramic, Bricks, Refractory:
  - Roller kilns, Tunnel kilns, Intermittent kilns, Melting kilns.
  - Continuous and Intermittent Dryers.
- Iron metallurgic Industry.
- Surfaces Treatment.
- Glass: Hardening ovens.
- Printing and Packing: Air Heaters for Rotogravures, Flexographic and Coupling and adhesive coating Machines.
- Food: Cereal Dryers, Roasters.
- Drying Tobacco etc.
- And furthermore, for any application which requires a wide regulation automatic gas burner, capable of operating in a strong vacuum or with strong counter-pressure.

RIELLO

TECHNICAL SHEET

BURNER mod.: BP N 150 GV S/...

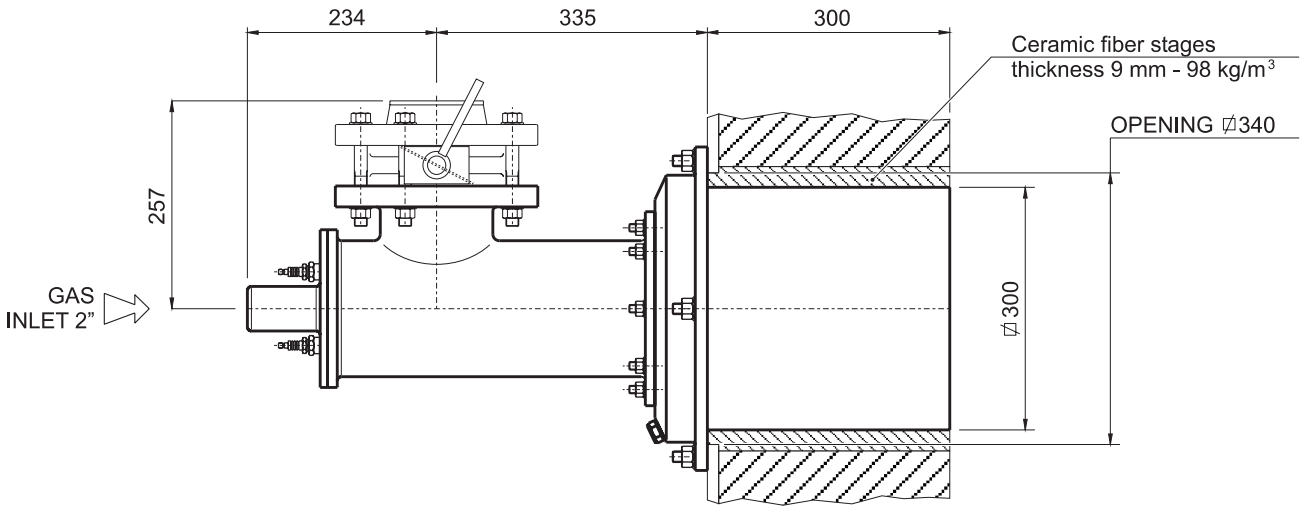
SCHEDE No.

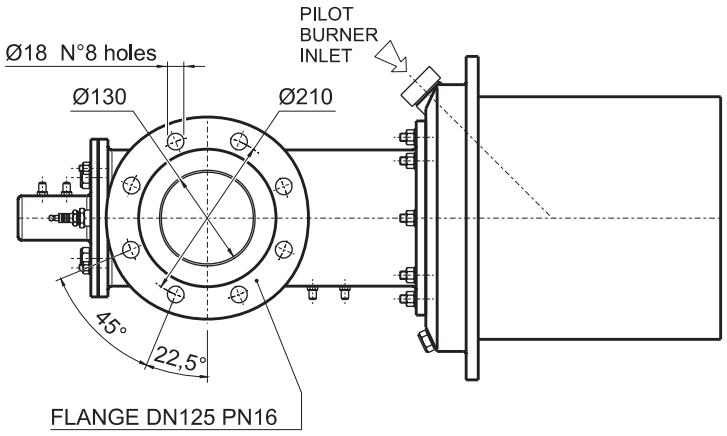
BURNER MOD.	*BP N 150 GV S/0.250* *BP N 150 GV S/60.250*	
MAXIMUM POWER	1.750 kW (1.500 Mcal/h)	
MINIMUM POWER (100% Excess of air)	88 kW (75 Mcal/h)	
BURNER COMB. CHAMBER MATERIAL	Concrete casting	
BURNER COMB. CHAMBER EXIT DIAM.	Ø250 mm	
MAXIMUM EXCESS OF AIR	100% at 875 kW (750 Mcal/h)	
MAXIMUM EXCESS OF GAS	35% at 1.750 kW (1.500 Mcal/h)	
STOICHIOMETRIC EXIT SPEED	50 m/s	
STOICHIOMETRIC FLAME DIAMETER	400 mm	
STOICHIOMETRIC FLAME LENGTH	1.800 mm	
GAS SUPPLY PRESSURE	45 mbar	
AIR SUPPLY PRESSURE	45 mbar	

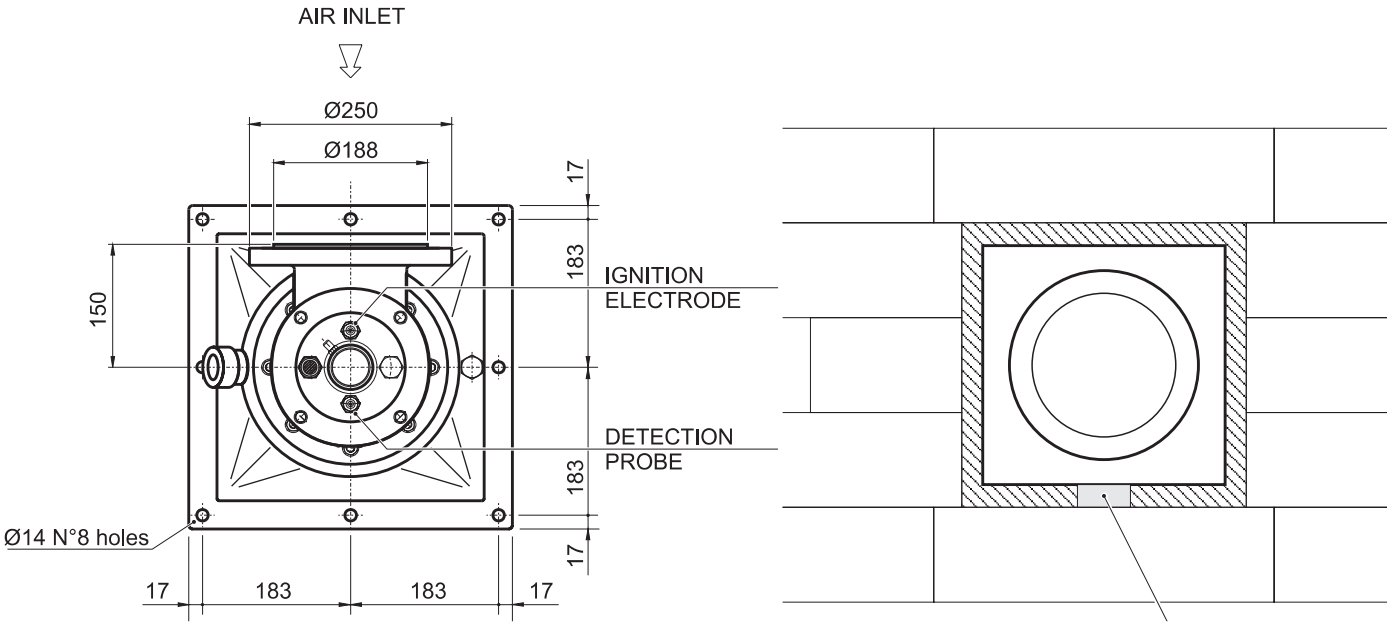
*The above mentioned performance data are described at their maximum power. Pressure showed are guideline only. Gas pressures are referred to **Methane** and **LPG**.*

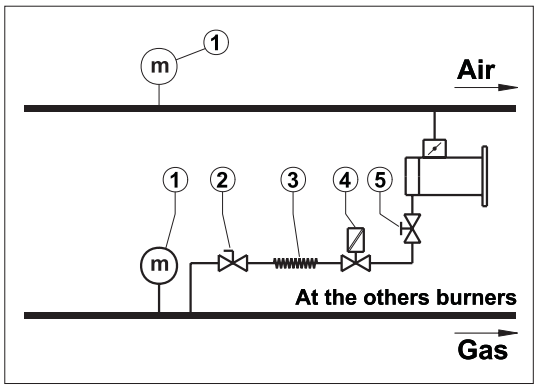
BURNER IGNITION	Recommended at low power
FLAME IGNITION	By ignition electrode with discharge 9.000 VAC 25 mA
FLAME MONITORING	By ionization electrode or UV cell
BURNER OPERATION	On / Off ; High / Low Flame ; Modulating
FUEL	NATURAL GAS . . . . . .(Data Sheet No.:)
	PROPANE / BUTANE . . . . . .(Data Sheet No.:)
	LEAN GAS . . . . . .(Contact NBP)
COMBUSTION AIR	CONDITIONS . . . . . .Filtered and Clean Air
	. . . . . .Room Temperature= 20 ÷ 25 °C
	. . . . . .Max. Temperature= 100 °C
WORKING CHAMBER MAX. TEMP.	1.250 ÷ 1.450 °C
BURNER POSITION	Horizontal / Vertical
BURNER INSTALLATION	See Data Sheet No.
BURNER WEIGHT	255 kg (Combustion Chamber Included)
CONSTRUCTION MATERIAL	Burner Housing . . . . . .STEEL
	Back Body . . . . . .STEEL
	Combustion Head. . . . . .CAST IRON
	Burner combustion chamber . .CONCRETE CASTING

INSTALLATION EXAMPLE ON KILN

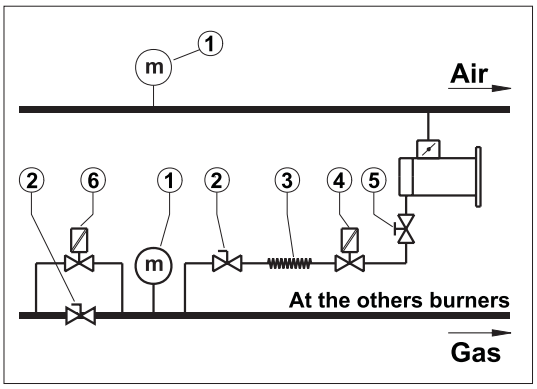




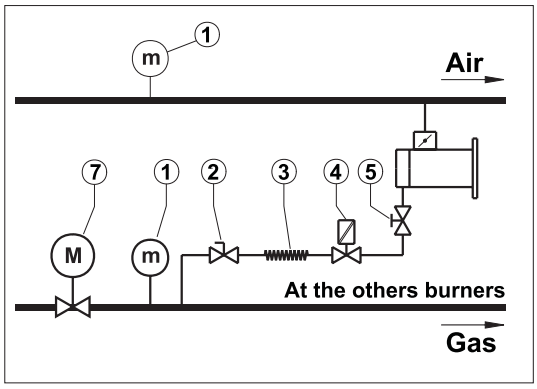




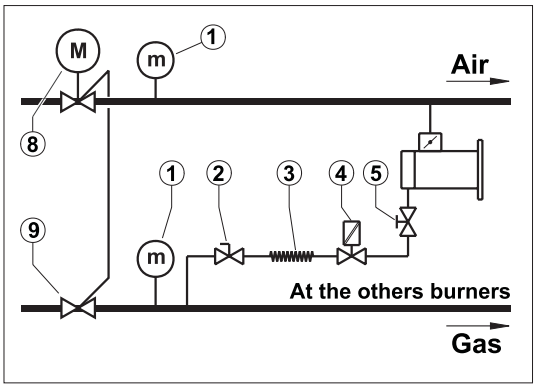
a) *On/Off adjusting.*



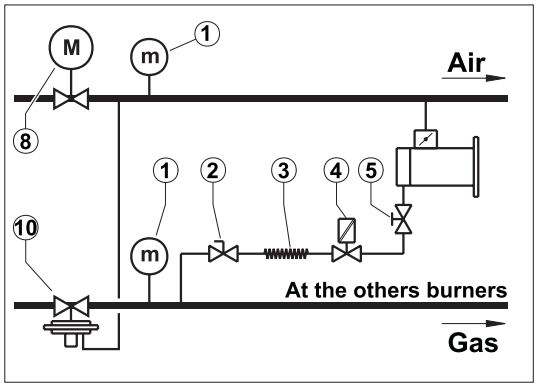
b) *High/Low with fix air adjusting.*



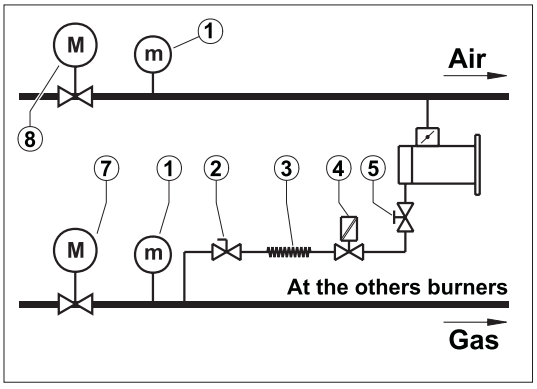
c) *Modulant with fix air adjusting.*



d) *Modulant adjusting by combined air/ gas valves.*



e) *Modulant adjusting by motorized gas ratio adjusting valve.*



f) *Ratio adjusting controlled by motorized valve on air and gas.*

1) Manometer
2) Manual interception cock

6) High/Low flame adjusting valve
7) Gas adjusting motorized valve

RIELLO

BRUCIATORE AD ALTA / MEDIA VELOCITÀ INTENSIVO
INTENSIVE HIGH AND AVERAGE SPEED BURNER

BP N 200 GV S/...

Generalità

Il bruciatore di gas **"BP N 200 GV S/..."** é un bruciatore ad aria soffiata funzionante con gas naturale, G.P.L., manufatti e gas a basso potere calorico (a richiesta).

Il funzionamento di questo bruciatore può essere automatico o semiautomatico, ed é previsto di accensione e rilevazione tramite elettrodo.

E' un bruciatore propriamente classificato *"bruciatore di gas ad alta/media velocità"*, con velocità dei gas combusti in uscita dalla camera di combustione variante da pochi m/s fino a 100 m/s o velocità superiori in funzione della sezione di uscita del cono bruciatore.

La temperatura dell'aria comburente prevista su questo bruciatore può variare da temperatura ambiente fino a 100 °C.

La potenzialità termica massima é di 2.325 kW (2.000 Mcal/h) mentre la potenzialità minima può arrivare fino a 116 kW (100 Mcal/h).

Essendo questo bruciatore molto flessibile, può essere regolato con larga escursione di portata fino ad un rapporto di 20:1.

General Informations

The **"BP N 200 GV S/..."** *gas burner is a blown-air burner which can operate with natural gas, LPG, lean gas and gas with low calorific power (on request).*

Burner operation may be automatic or semiautomatic, and burner is equipped with electric ignition and detection electrode.

This burner is classified as a "high/medium speed gas burner", with exhaust gases speed coming out from the combustion chamber racing from few m/s to 100 m/s, or even higher speed according to the outlet diameter of the burner cone.

Combustion air temperature may range from room temperature to 100 °C.

Max. thermal power is 2.325 kW (2.000 Mcal/h) and min. thermal power is 116 kW (100 Mcal/h).

Because of its flexibility, this burner may be adjusted with a wide capacity range up to a 20:1 ratio.

Caratteristiche

- Accensione elettrica diretta con rilevazione a ionizzazione.
- Testa di combustione policombustibile per Metano e G.P.L.
- Rapporto max.-min. 20:1.
- Disponibile in versione completa, con rampa gas in accordo a EN 746-2 (o altre norme se richiesto), con orientamento destro o sinistro.
- Facile da installare, avviare, usare.

Features

- *Direct spark ignition, ionization flame detection electrode.*
- *Multifuel combustion head for Natural gas and LPG.*
- *Turn down ratio 20 to 1.*
- *Available as packaged execution, with gas train according to EN 746-2 (or other required), on right or left hand.*
- *Easy to install, to start, to operate.*

Settori di utilizzo

- Tutti i tipi di forni, sia che venga richiesta una combustione ossidante, stechiometrica o riducente.
- Ceramico, Laterizio, Refrattario:
  - Forni a rulli, Forni a Tunnel, Forni intermittenti, Forni Fusori.

Applications

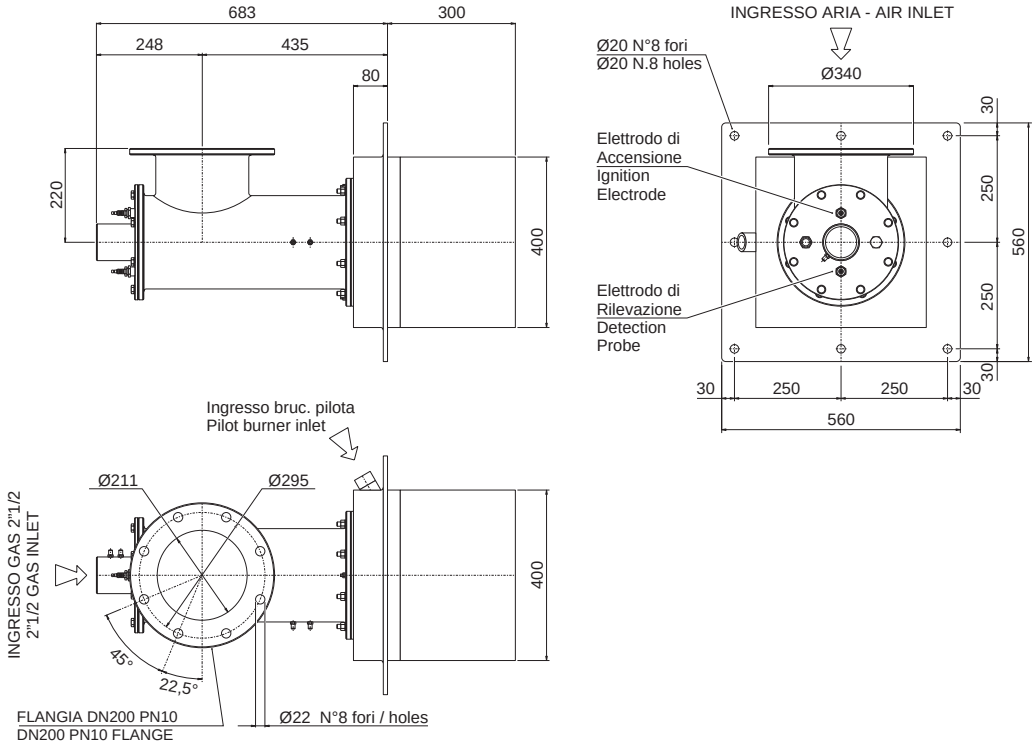
- *All types of kilns, suitable for oxidative, stoichiometric or reducing combustion.*
- *Ceramic, Bricks, Refractory:*
  - *Roller kilns, Tunnel kilns, Intermittent kilns, Melting kilns.*

per Adesivi.

- Alimentare: Essiccatoi per Cereali, Tostatrici.
- Essiccazione Tabacco
- Inoltre tutte quelle applicazioni dove é richiesto un bruciatore di gas con ampio campo di regolazione a funzionamento automatico, con possibilità di essere utilizzato in forte depressione o forte contro-pressione.

- *Food: Cereal Dryers, Roasters.*
- *Drying Tobacco etc.*
- *And furthermore, for any application which requires a wide regulation automatic gas burner, capable of operating in a strong vacuum or with strong counter-pressure.*

Dimensioni d'ingombro (mm)
Overall dimensions (mm)



Dati Tecnici
Technical data

Modello - *Model*	**BP N 200 GV S/0** **BP N 200 GV S/60**	
Potenzialità Min. - *Output Min.*	116 kW (100 Mcal/h)	
Potenzialità Max. - *Output Max.*	2.325 kW (2.000 Mcal/h)	
Combustibile - *Fuel*	CH4 / G.P.L. - *CH4 / LPG*	
Mat. Camera Comb. - *Combustion Chamber Mat.*	Getto di calcestruzzo - *Concrete Casting*	
Diametro Uscita Cam. - *Chamber Outlet Diameter*	Ø235 mm	
Eccesso aria Max. - *Max. excess of air*	100% a/*at* 1.163 kW (1.000 Mcal/h)	
Eccesso gas Max. - *Max. excess of gas*	35% a/*at* 2.325 kW (2.000 Mcal/h)	
* Diametro fiamma - *Flame diameter*	300 mm	
* Lunghezza fiamma - *Flame length*	1800 mm	
Pressione alim. gas - *Gas supply pressure*	50 mbar	
Pressione alim. aria - *Air supply pressure*	50 mbar	
Peso - *Weight*	270 kg (Combustion Chamber Included)	

Le caratteristiche sopra descritte sono nelle condizioni di massima potenzialità. Le pressioni riportate sono indicative, quelle del gas sono riferite al **Metano** e al **GPL**.
*The above mentioned performance data are described at their maximum power. Pressure showed are guidelines only. Gas pressures are refer to **Methane** and **LPG**.*

* Condizione di stechiometrico - *Stoichiometric conditions*

Le caratteristiche tecniche e le misure d'ingombro non sono impegnative.
Performance data and dimensions are guidelines only.

DESCRIPTION

BURNER mod.: BP N 200 GV S/...

SCHEDE No.

General Informations

The **"BP N 200 GV S/..."** gas burner is a blown-air burner which can operate with natural gas, LPG, lean gas and gas with low calorific power (on request).
Burner operation may be automatic or semiautomatic, and burner is equipped with electric ignition and detection electrode.

This burner is classified as a *"high/medium speed gas burner"*, with exhaust gases speed coming out from the combustion chamber racing from few m/s to 100 m/s, or even higher speed according to the outlet diameter of the burner combustion chamber.
Combustion air temperature may range from room temperature to 100 °C.
Max. thermal power is 2.325 kW (2.000 Mcal/h) and min. thermal power is 116 kW (100 Mcal/h).
Because of its flexibility, this burner may be adjusted with a wide capacity range up to a 20:1 ratio.

Features

- Direct spark ignition, ionization flame detection electrode.
- Multifuel combustion head for Natural gas and LPG.
- Turn down ratio 20 to 1.
- Available as packaged execution, with gas train according to EN 746-2 (or other required), on right or left hand.
- Easy to install, to start, to operate.

Applications

- All types of kilns, suitable for oxidative, stoichiometric or reducing combustion.
- Ceramic, Bricks, Refractory:
  - Roller kilns, Tunnel kilns, Intermittent kilns, Melting kilns.
  - Continuous and Intermittent Dryers.
- Iron metallurgic Industry.
- Surfaces Treatment.
- Glass: Hardening ovens.
- Printing and Packing: Air Heaters for Rotogravures, Flexographic and Coupling and adhesive coating Machines.
- Food: Cereal Dryers, Roasters.
- Drying Tobacco etc.
- And furthermore, for any application which requires a wide regulation automatic gas burner, capable of operating in a strong vacuum or with strong counter-pressure.

RIELLO

TECHNICAL SHEET

BURNER mod.: BP N 200 GV S/...

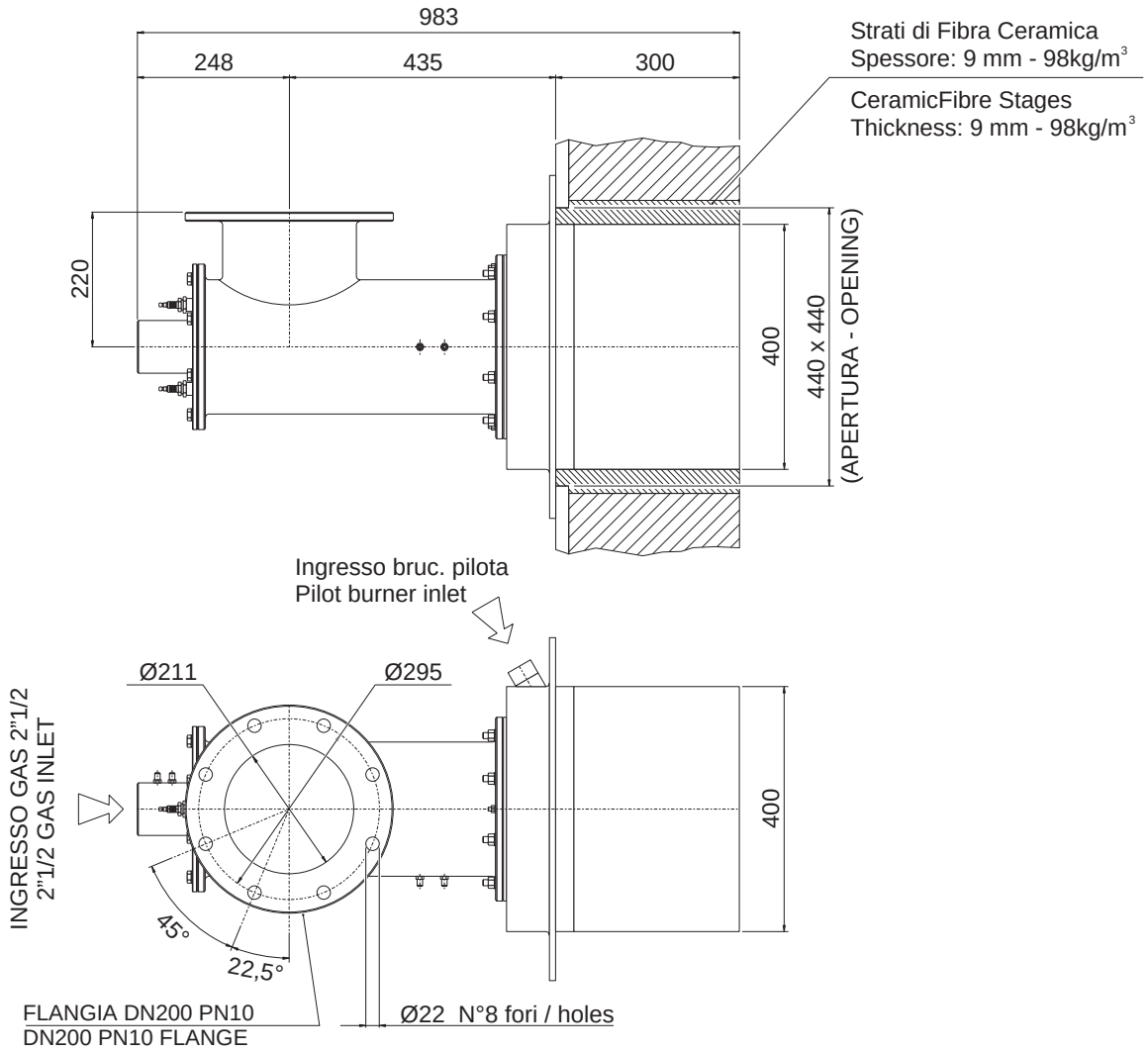
SCHEDE No.

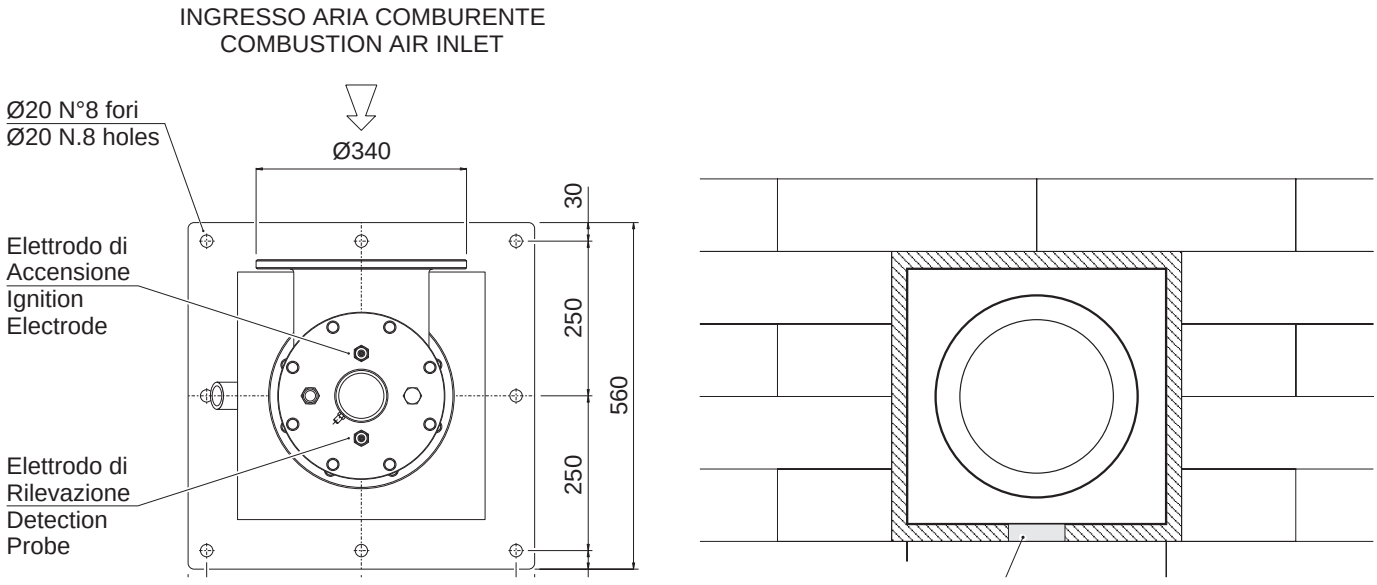
BURNER MOD.	*BP N 200 GV S/0...* *BP N 200 GV S/60...*	
MAXIMUM POWER	116 kW (100 Mcal/h)	
MINIMUM POWER (100% Excess of air)	2˙325 kW (2˙000 Mcal/h)	
BURNER COMB. CHAMBER MATERIAL	Concrete Casting	
BURNER COMB. CHAMBER EXIT DIAM.	Ø 235	
MAXIMUM EXCESS OF AIR	100% at 1˙163 kW (1˙000 Mcal/h)	
MAXIMUM EXCESS OF GAS	25% at 2˙325 kW (2˙000 Mcal/h)	
STOICHIOMETRIC EXIT SPEED	55 m/s	
STOICHIOMETRIC FLAME DIAMETER	300 mm	
STOICHIOMETRIC FLAME LENGTH	1.800 mm	
GAS SUPPLY PRESSURE	50 mbar	
AIR SUPPLY PRESSURE	50 mbar	

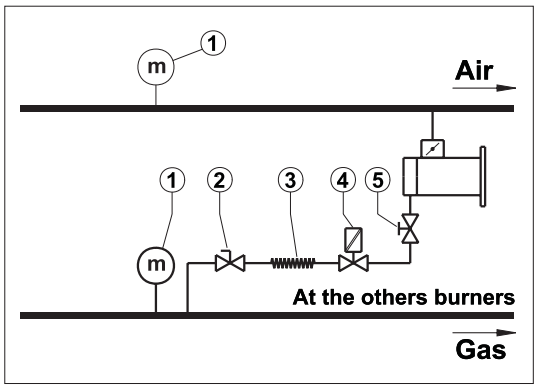
*The above mentioned performance data are described at their maximum power. Pressure showed are guideline only. Gas pressures are referred to **Methane** and **LPG**.*

BURNER IGNITION	Recommended at low power
FLAME IGNITION	By ignition electrode with discharge 9.000 VAC 25 mA
FLAME MONITORING	By ionization Electrode or UV cell
BURNER OPERATION	On / Off ; High / Low Flame ; Modulating
FUEL	NATURAL GAS . . . . . .(Data Sheet No.:)
	PROPANE / BUTANE . . . . . .(Data Sheet No.:)
	LEAN GAS . . . . . .(Contact NBP)
COMBUSTION AIR	CONDITIONS. . . . . .Filtered and Clean Air
	. . . . . .Room Temperature= 20 ÷ 25 °C
	. . . . . .Max. Temperature= 100 °C
WORKING CHAMBER MAX. TEMP.	1.250 ÷ 1.450 °C
BURNER POSITION	Horizontal / Vertical
BURNER INSTALLATION	See Data Sheet No
BURNER WEIGHT	270 kg (Combustion Chamber Included)
CONSTRUCTION MATERIAL	Burner Housing . . . . . .STEEL
	Back Body . . . . . .STEEL
	Combustion Head. . . . . .CAST IRON
	Burner Combustion Chamber .CONCRETE CASTING

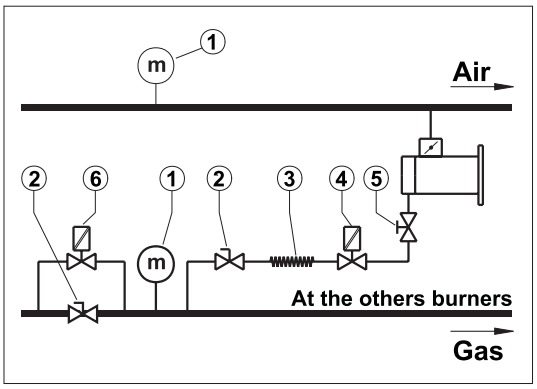
INSTALLATION EXAMPLE ON KILN *(mm)*



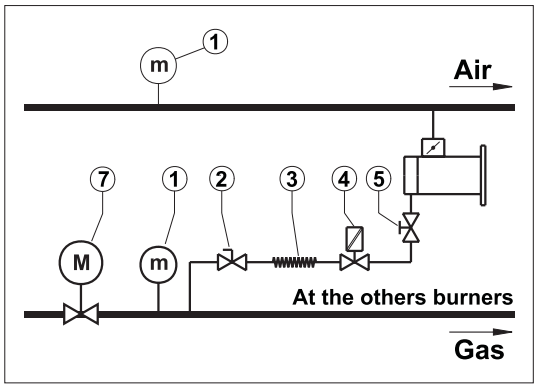




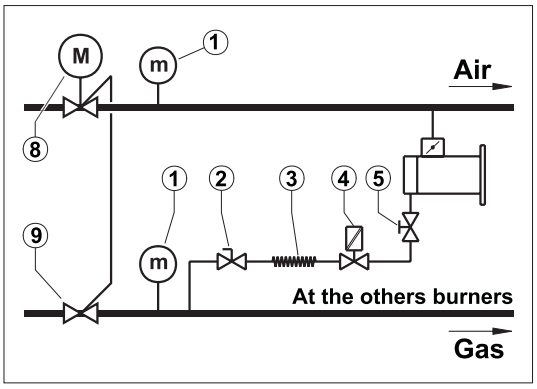
a) *On/Off adjusting.*



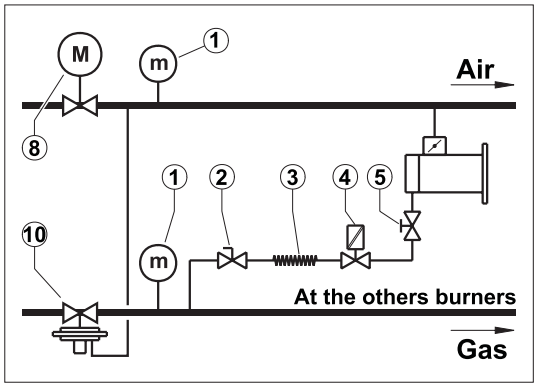
b) *High/Low with fix air adjusting.*



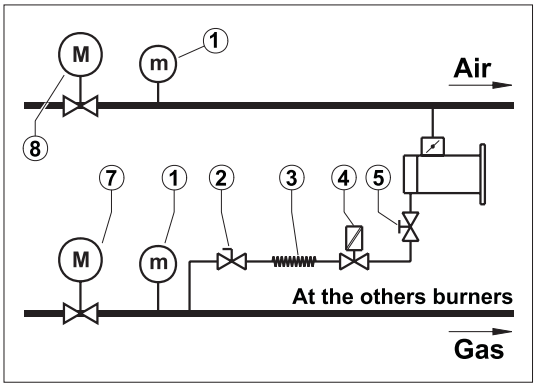
c) *Modulant with fix air adjusting.*



d) *Modulant adjusting by combined air/ gas valves.*



e) *Modulant adjusting by motorized gas ratio adjusting valve.*



f) *Ratio adjusting controlled by motorized valve on air and gas.*

1) Manometer
2) Manual interception cock
6) High/Low flame adjusting valve
7) Gas adjusting motorized valve

RIELLO

BRUCIATORE AD ALTA / MEDIA VELOCITÀ INTENSIVO
INTENSIVE HIGH AND AVERAGE SPEED BURNER

BP N 300 GV S/...

Generalità

Il bruciatore di gas **"BP N 300 GV S/..."** é un bruciatore ad aria soffiata funzionante con gas naturale, G.P.L., manufatti e gas a basso potere calorico (a richiesta).

Il funzionamento di questo bruciatore può essere automatico o semiautomatico, ed é previsto di accensione e rilevazione tramite elettrodo.

E' un bruciatore propriamente classificato *"bruciatore di gas ad alta/media velocità"*, con velocità dei gas combusti in uscita dalla camera di combustione variante da pochi m/s fino a 100 m/s o velocità superiori in funzione della sezione di uscita del cono bruciatore.

La temperatura dell'aria comburente prevista su questo bruciatore può variare da temperatura ambiente fino a 100 °C.

La potenzialità termica massima é di 3.500 kW (3.000 Mcal/h) mentre la potenzialità minima può arrivare fino a 175 kW (150 Mcal/h).

Essendo questo bruciatore molto flessibile, può essere regolato con larga escursione di portata fino ad un rapporto di 20:1.

General Informations

The **"BP N 300 GV S/..."** *gas burner is a blown-air burner which can operate with natural gas, LPG, lean gas and gas with low calorific power (on request).*

Burner operation may be automatic or semiautomatic, and burner is equipped with electric ignition and detection electrode.

This burner is classified as a "high/medium speed gas burner", with exhaust gases speed coming out from the combustion chamber racing from few m/s to 100 m/s, or even higher speed according to the outlet diameter of the burner cone.

Combustion air temperature may range from room temperature to 100 °C.

Max. thermal power is 3.500 kW (3.000 Mcal/h) and min. thermal power is 175 kW (150 Mcal/h).
Because of its flexibility, this burner may be adjusted with a wide capacity range up to a 20:1 ratio.

Caratteristiche

- Accensione elettrica diretta con rilevazione a ionizzazione.
- Testa di combustione policombustibile per Metano e G.P.L.
- Rapporto max.-min. 20 :1.
- Disponibile in versione completa, con rampa gas in accordo a EN 746-2 (o altre norme se richiesto), con orientamento destro o sinistro.
- Facile da installare, avviare, usare.

Features

- *Direct spark ignition, ionization flame detection electrode.*
- *Multifuel combustion head for Natural gas and LPG.*
- *Turn down ratio 20 to 1.*
- *Available as packaged execution, with gas train according to EN 746-2 (or other required), on right or left hand.*
- *Easy to install, to start, to operate.*

Settori di utilizzo

- Tutti i tipi di forni, sia che venga richiesta una combustione ossidante, stechiometrica o riducente.
- Ceramico, Laterizio, Refrattario:
  - Forni a rulli, Forni a Tunnel, Forni intermittenti, Forni Fusori.

Applications

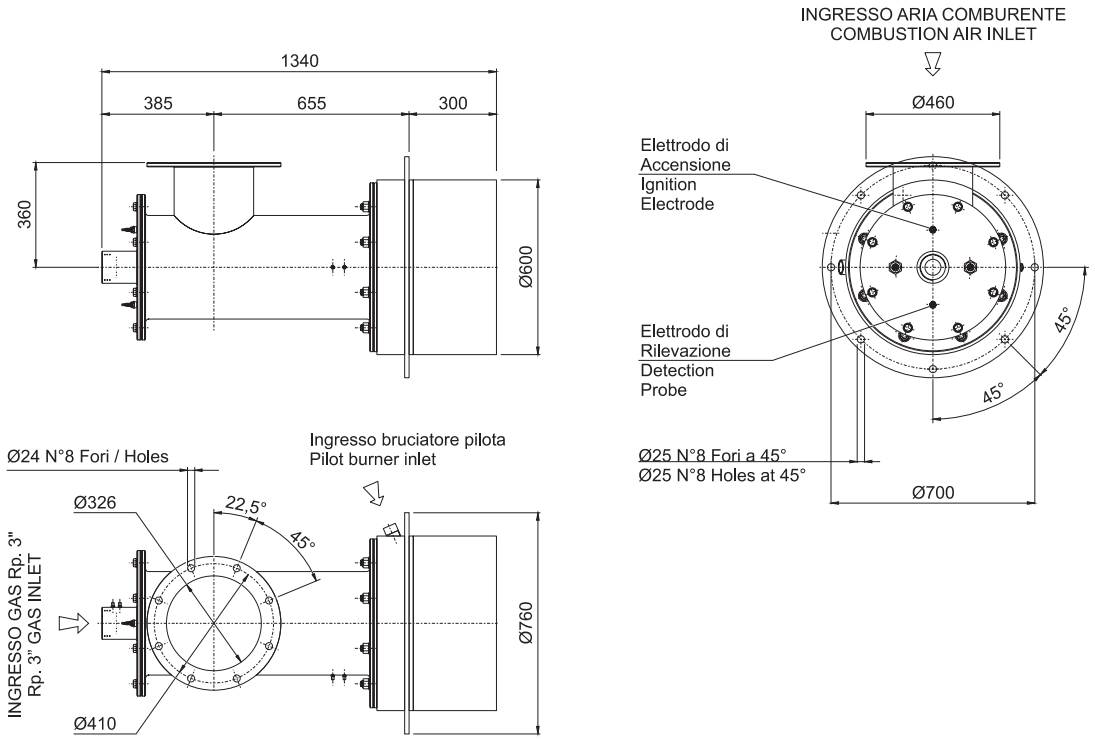
- *All types of kilns, suitable for oxidative, stoichiometric or reducing combustion.*
- *Ceramic, Bricks, Refractory:*
  - *Roller kilns, Tunnel kilns, Intermittent kilns, Melting kilns.*

Spalmatrici per Adesivi.

- Alimentare: Essiccatoi per Cereali, Tostatrici.
- Essiccazione Tabacco
- Inoltre tutte quelle applicazioni dove é richiesto un bruciatore di gas con ampio campo di regolazione a funzionamento automatico, con possibilità di essere utilizzato in forte depressione o forte contro-pressione.

- *Food: Cereal Dryers, Roasters.*
- *Drying Tobacco etc.*
- *And furthermore, for any application which requires a wide regulation automatic gas burner, capable of operating in a strong vacuum or with strong counter-pressure.*

Dimensioni d'ingombro (mm)
Overall dimensions (mm)



Dati Tecnici
Technical data

Modello - *Model*	**BP N 300 GV S/0.400** **BP N 300 GV S/60.400**	
Potenzialità Min. - *Output Min.*	175 kW (150 Mcal/h)	
Potenzialità Max. - *Output Max.*	3.500 kW (3.000 Mcal/h)	
Combustibile - *Fuel*	CH4 / G.P.L. - *CH4 / LPG*	
Mat. Camera Comb. - *Combustion Chamber Mat.*	Getto di calcestruzzo - *Concrete Casting*	
Diametro Uscita Cam. - *Chamber Outlet Diameter*	Ø400 mm	
Eccesso aria Max. - *Max. excess of air*	100% a/*at* 1.750 kW (1.500 Mcal/h)	
Eccesso gas Max. - *Max. excess of gas*	35% a/*at* 3.500 kW (3.000 Mcal/h)	
* Diametro fiamma - *Flame diameter*	500 mm	
* Lunghezza fiamma - *Flame length*	2.500 mm	
Pressione alim. gas - *Gas supply pressure*	45 mbar	
Pressione alim. aria - *Air supply pressure*	45 mbar	
Peso - *Weight*	350 kg (Combustion Chamber Included)	

Le caratteristiche sopra descritte sono nelle condizioni di massima potenzialità. Le pressioni riportate sono indicative, quelle del gas sono riferite al **Metano** e al **GPL**.
*The above mentioned performance data are described at their maximum power. Pressure showed are guidelines only. Gas pressures are refer to **Methane** and **LPG**.*

* Condizione di stechiometrico - *Stoichiometric conditions*

Le caratteristiche tecniche e le misure d'ingombro non sono impegnative.
Performance data and dimensions are guidelines only.

DESCRIPTION

BURNER mod.: BP N 300 GV S/...

SCHEDE No.

General Informations

The **"BP N 300 GV S/..."** gas burner is a blown-air burner which can operate with natural gas, LPG, lean gas and gas with low calorific power (on request).
Burner operation may be automatic or semiautomatic, and burner is equipped with electric ignition and detection electrode.
This burner is classified as a "high/medium speed gas burner", with exhaust gases speed coming out from the combustion chamber racing from few m/s to 100 m/s, or even higher speed according to the outlet diameter of the burner combustion chamber.
Combustion air temperature may range from room temperature to 100 °C.
Max. thermal power is 3.500 kW (3.000 Mcal/h) and min. thermal power is 175 kW (150 Mcal/h).
Because of its flexibility, this burner may be adjusted with a wide capacity range up to a 20:1 ratio.

Features

- Direct spark ignition, ionization flame detection electrode.
- Multi-fuel combustion head for Natural gas and LPG.
- Turn down ratio 20 to 1.
- Available as packaged execution, with gas train according to EN 746-2 (or other required), on right or left hand.
- Easy to install, to start, to operate.

Applications

- All types of kilns, suitable for oxidative, stoichiometric or reducing combustion.
- Ceramic, Bricks, Refractory:
  - Roller kilns, Tunnel kilns, Intermittent kilns, Melting kilns.
  - Continuous and Intermittent Dryers.
- Iron metallurgic Industry.
- Surfaces Treatment.
- Glass: Hardening ovens.
- Printing and Packing: Air Heaters for Rotogravures, Flexographic and Coupling and adhesive coating Machines.
- Food: Cereal Dryers, Roasters.
- Drying Tobacco etc.
- And furthermore, for any application which requires a wide regulation automatic gas burner, capable of operating in a strong vacuum or with strong counter-pressure.

RIELLO

TECHNICAL SHEET

BURNER mod.: BP N 300 GV S/...

SCHEDE No.

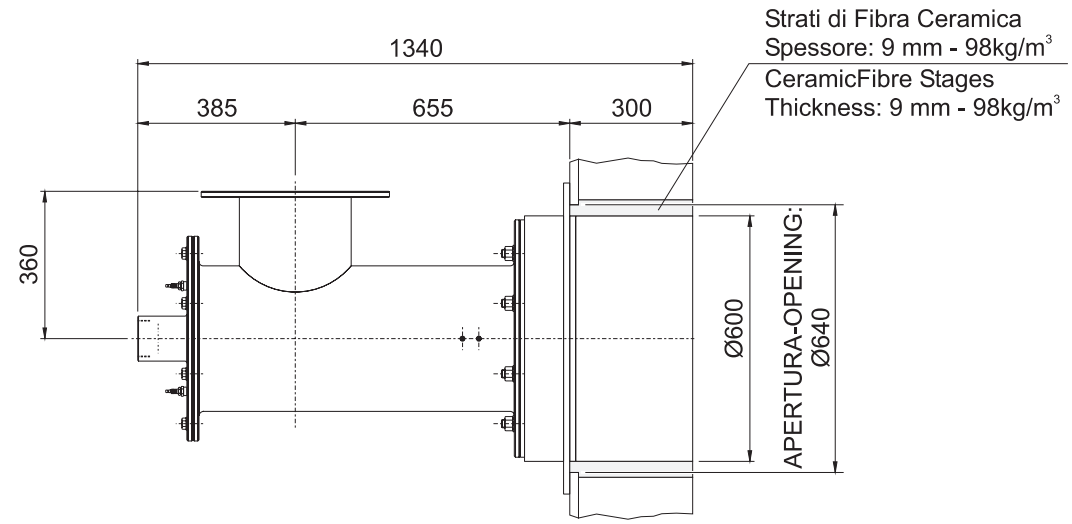
BURNER MOD.	*BP N 300 GV S/0.400* *BP N 300 GV S/60.400*	
MAXIMUM POWER	3.500 kW (3.000 Mcal/h)	
MINIMUM POWER (100% Excess of air)	175 kW (150 Mcal/h)	
BURNER COMB. CHAMBER MATERIAL	Concrete Casting	
BURNER COMB. CHAMBER EXIT DIAM.	Ø400 mm	
MAXIMUM EXCESS OF AIR	100% a 1.750 kW (1.500 Mcal/h)	
MAXIMUM EXCESS OF GAS	35% a 3.500 kW (3.000 Mcal/h)	
STOICHIOMETRIC EXIT SPEED	40 m/s	
STOICHIOMETRIC FLAME DIAMETER	500 mm	
STOICHIOMETRIC FLAME LENGTH	2.500 mm	
GAS SUPPLY PRESSURE	45 mbar	
AIR SUPPLY PRESSURE	45 mbar	

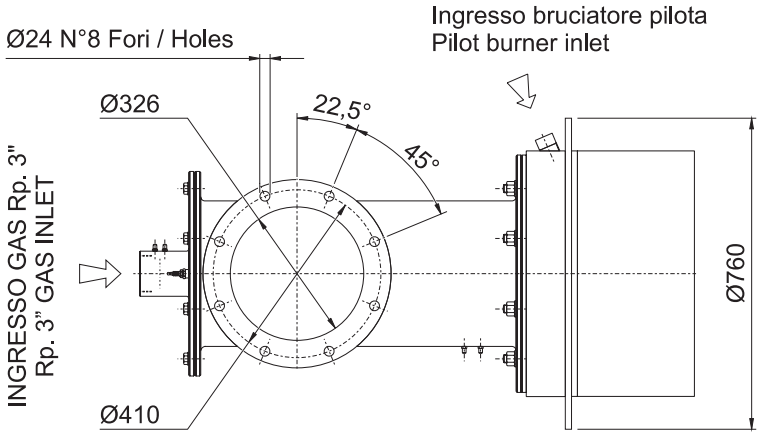
*The above mentioned performance data are described at their maximum power. Pressure showed are guideline only. Gas pressures are referred to **Methane** and **LPG.***

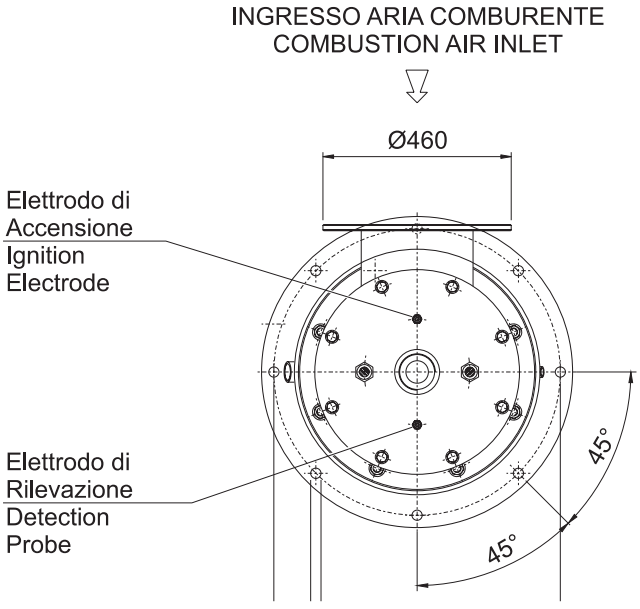
BURNER IGNITION	Recommended at low power
FLAME IGNITION	By ignition electrode with discharge 9.000 VAC 25 mA
FLAME MONITORING	By ionization electrode or UV cell
BURNER OPERATION	On / Off ; High / Low Flame ; Modulating
FUEL	NATURAL GAS . . . . . .(Data Sheet No.:)
	PROPANE / BUTANE . . . . . .(Data Sheet No.:)
	LEAN GAS . . . . . .(Contact NBP)
COMBUSTION AIR	CONDITIONS. . . . . .Filtered and Clean Air
	. . . . . .Room Temperature= 20 ÷ 25 °C
	. . . . . .Max. Temperature= 100 °C
WORKING CHAMBER MAX. TEMP.	1.250 ÷ 1.450 °C
BURNER POSITION	Horizontal / Vertical
BURNER INSTALLATION	See Data Sheet No.
BURNER WEIGHT	350 kg (Combustion Chamber Included)
CONSTRUCTION MATERIAL	Burner Housing . . . . . .STEEL
	Back Body . . . . . .STEEL
	Combustion Head. . . . . .CAST IRON
	Burner Combustion Chamber .CONCRETE CASTING

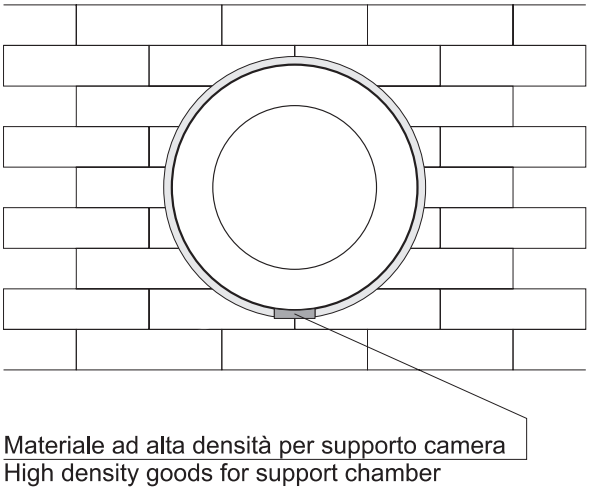
BURNER mod.: BP N 300 GV S/...

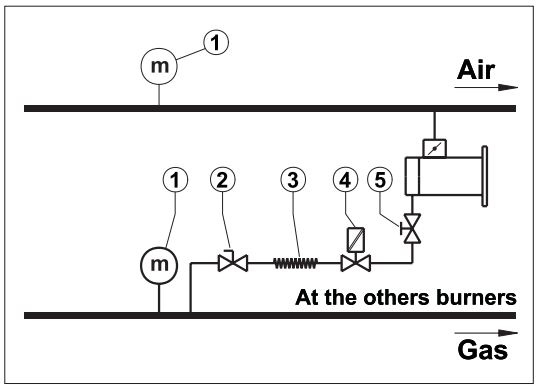
(mm)



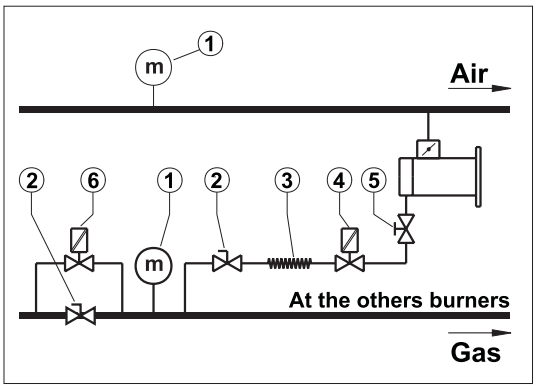




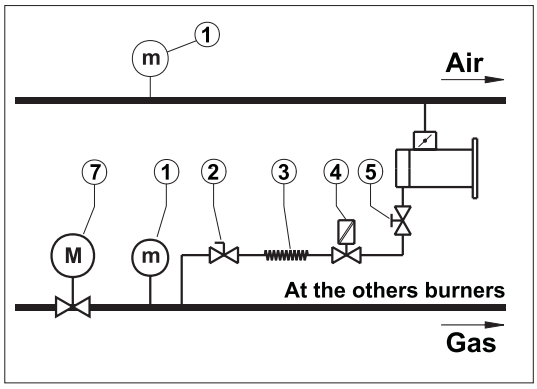




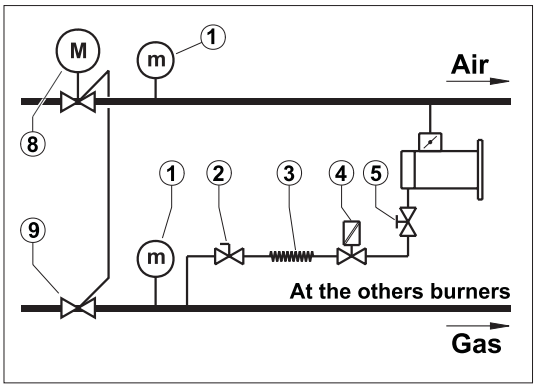
a) *On/Off adjusting.*



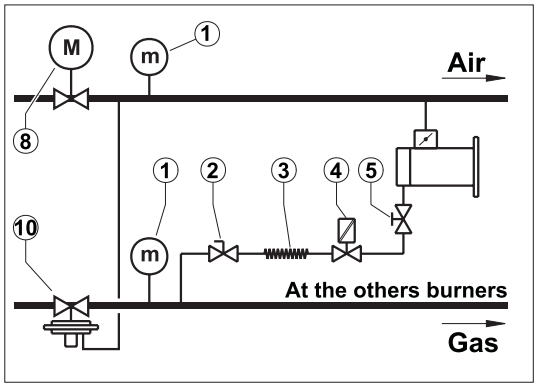
b) *High/Low with fix air adjusting.*



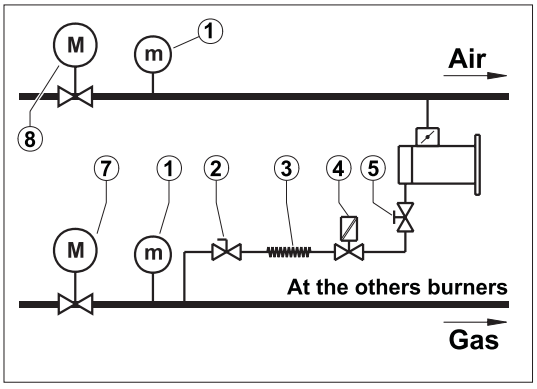
c) *Modulant with fix air adjusting.*



d) *Modulant adjusting by combined air/ gas valves.*



e) *Modulant adjusting by motorized gas ratio adjusting valve.*



f) *Ratio adjusting controlled by motorized valve on air and gas.*

1) Manometer
2) Manual interception cock
6) High/Low flame adjusting valve
7) Gas adjusting motorized valve