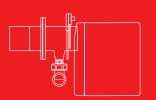


# Riello 40 GS Series

One Stage Gas Burners

GS3	11	÷	35	kW
GS5	18	÷	58	kW
GS10	42	÷	116	kW
GS20	81	÷	220	kW







The Riello 40 GS series of one stage gas burners, is a complete range of products developed to respond to any request for home heating. The Riello 40 GS series is available in four different models, with an output ranging from 11 to 220 kW, divided in four different structures.

All the models use the same components designed by Riello for the Riello 40 GS series. The high quality level guarantees safe working. The Riello 40 GS burners are fitted with a microprocessor based control box with diagnostic functions.

In developing these burners, special attention was paid to reducing noise, to the ease of installation and adjustment, to obtaining the smallest size possible to fit into any sort of boiler available on the market.

All the models are approved by the EN 676 European Standard and conform to European Directives for EMC, Low Voltage, Machinery and Boiler Efficiency.

All the Riello 40 GS burners are tested before leaving the factory.



## Technical Data

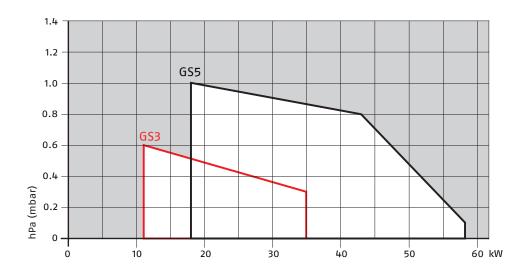
MODEL			GS3	GS5	GS10	GS20	
Burner operation mode			One stage				
Heat output (Hi)	min max.	kW	11 ÷ 35	18 ÷ 58	42 ÷ 116	81 ÷ 220	
(1)	IIIII. – IIIax.	kcal/h	9.500 ÷ 30.000	15.500 ÷ 50.000	36.000 ÷ 100.000	70.000 ÷ 189.000	
FUEL/AIR DATA							
Fuel		Family 2		8 ÷ 12 kWh/m³ -	7.000 ÷ 10.340 kca		
		Pressure	min. 5.2 mbar	min. 5.9 mbar	min. 6.9 mbar	min. 6.6 mbar	
			max. 200 mbar	max. 200 mbar	max. 360 mbar_	max. 360 mbar	
		Family 3			21.000 ÷ 29.300 kg		
		Pressure	min. 5.6 mbar	min. 7.6 mbar	min. 9.7 mbar	min. 14.1 mbar	
			max. 200 mbar	max. 200 mbar	max. 360 mbar	max. 360 mbar	
<u>Operation</u>					tent (FS1)		
Use		,			nd diathermic oil		
Ambient tempera		°C			50		
Combustion air te	emperature	°C max.		6	50		
ELECTRICAL DATA							
Electrical supply			1/230V/50Hz				
Fan motor		rpm - rad/s	2800 - 294 2750 - 288				
		V – Hz		230 - 50		230 - 50	
		W		90		150	
		A		0.75		1.3	
Ignition transforr	ner			y 230 V	Primary	Primary	
					230 V / 0.2A	230 V / 1.8A	
			18 KV /	/ 11 MA	Secondary 8 kV	Secondary 8 kV / 30mA	
Canacitar				2		5 6 KV / SUITIA	
Capacitor	Inquer	<u>μ</u> Ε	0.15	0.15	0.13	0.25	
Protection level	ed electrical power kW		0.15	-		0.25	
EMISSIONS			IP40				
Noise levels (2)	Coundproceure		53.8	59.4	63.1	66.8	
Noise levels (2)	Soundpressure	dB (A)					
APPROVAL	Sound power		65.0	70.4	74.1	78.5	
			2006#2	/FC 2016/1/26/1/F	201/-/20/115 20	11. /20/115	
Directive			2006/42		- 2014/30/UE - 20	14/30/UE	
Conforming to		EN 676 - EN 12100 CE-0476CT2714					
Certification				CE-047	0012/14		

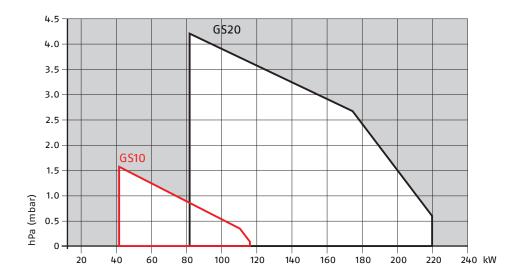
#### Reference conditions:

<sup>(1)</sup> Temperature: 20°C - Pressure: 1013.5 mbar - Altitude: 0 m a.s.l. - Noise measured at a distance of 1 meter.

<sup>(2)</sup> Sound pressure measured in manufacturer's combustion laboratory, with burner operating on test boiler and at maximum rated output. The sound power is measured with the "Free Field" method, as per EN 15036, and according to an "Accuracy: Category 3" measuring accuracy, as set out in EN ISO 3746.

## Firing Rates





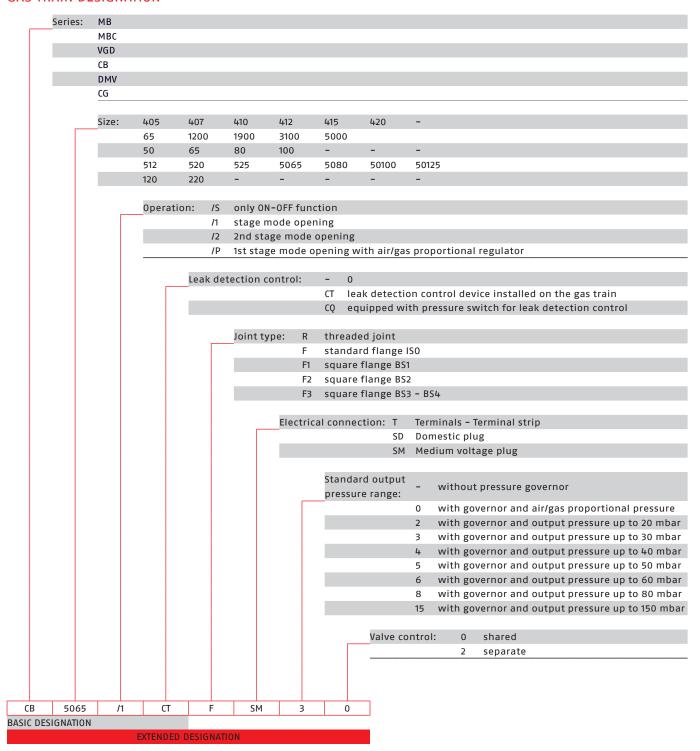
Useful working field for choosing the burner

Test conditions conforming to EN 676: Temperature: 20°C Pressure: 1013,5 mbar Altitude: 0 m a.s.l.



### Gas train

#### **GAS TRAIN DESIGNATION**

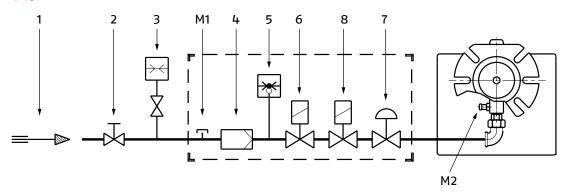


#### **GAS TRAINS**

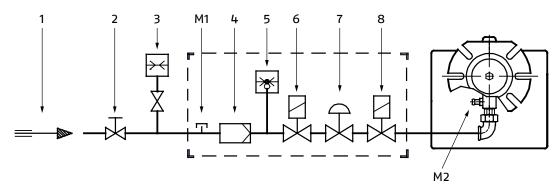
The burners are set for gas supply from either the right or left hand sides.

Depending on the fuel output and the available pressure in the supply line, you should check the correct gas train to be adapted to the system requirements. The gas train is Multibloc type, containing the main components in a single unit and it can be fitted with the valves seal control (as accessory).

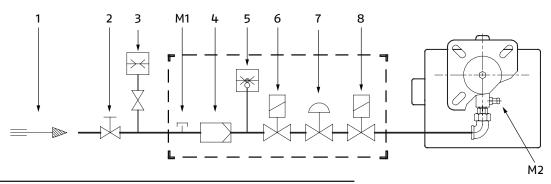
#### MBC 65/1



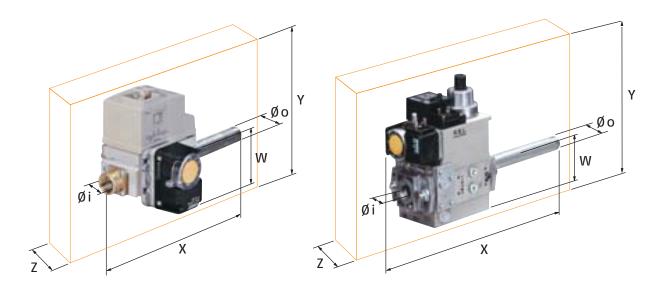
#### MBC 405-407/1



#### MBC 410/1



1	Gas input pipe
2	Manual gate (the responsibility of the installer)
3	Gas pressure gauge (the responsibility of the installer)
4	Filter
5	Gas pressure switch
6	Safety valve
7	Pressure stabiliser
8	Adjustment valve
M1	Gas-supply pressure test point on the pressure switch
M2	Pressure coupling test point



The dimensions of the gas trains vary depending on their construction features. The following table shows the dimensions of the gas trains that can be fitted to Riello 40 GS burners, intake and outlet diameters.

GAS TRAIN										
MODEL	CODE *	Ø in	Ø out	X mm	Y mm	W mm	Z mm	BUR	NER	NOTE
								NATURAL GAS	LPG	_
MBC 65/1	3970569	Rp 1/2"	Rp 1/2"	307	155	31	122	GS3 <b>-</b> GS5 GS10	GS3 <b>-</b> GS5 GS10	(1)
MB 405/1	3970530	Rp 1/2"	Rp 1/2"	321	186	46	120	GS3 <b>-</b> GS5 GS10	GS3 <b>-</b> GS5 GS10	(1) (4)
MB 407/1	3970531	Rp 3/4"	Rp 3/4"	371	186	46	120	GS3 <b>-</b> GS5 GS10 <b>-</b> GS20	GS10 - GS20	(1) (3)
MB 410/1	3970532	Rp 1"	Rp 3/4"	405	221	55	145	GS5 - GS10 - GS20	GS10 - GS20	(1)

Please see Designation of Gas Train Series in the page before the Catalogue index.

<sup>\*</sup> Gas train are 230V/50Hz - 220V/60Hz electrical supply

<sup>(1)</sup> With installed plug (if the plug is not necessary, remove it in accordance with gas train instruction manual indication)

<sup>(2)</sup> GS10  $\leq$  80 kW with natural gas

<sup>(3)</sup>  $GS20 \le 180$  kW with natural gas

<sup>(4)</sup> With 1/2" - 3/4" reduction nipple supplied

The valve seal control device is compulsory (conforming to EN 676) on gas trains to burners with a maximum output over 1200 kW.

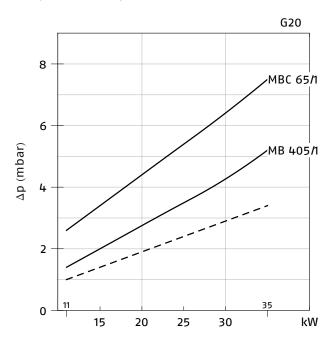
To select the gas train please refer to the technical data leaflet and/or instruction manual.

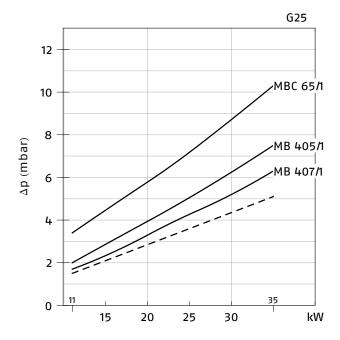
## Pressure Drop Diagram

The diagrams indicate the minimum pressure drop of the burners with the various gas trains that can be matched with them; at the value of these pressure drop add the combustion chamber pressure.

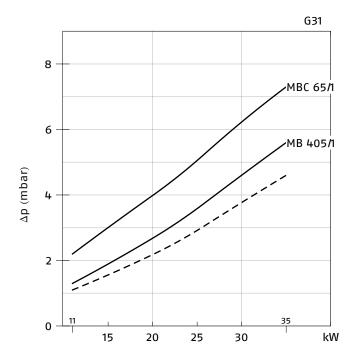
The value thus calculated represents the minimum required input pressure to the gas train.

#### **GS3 (NATURAL GAS)**





#### GS3 (LPG)

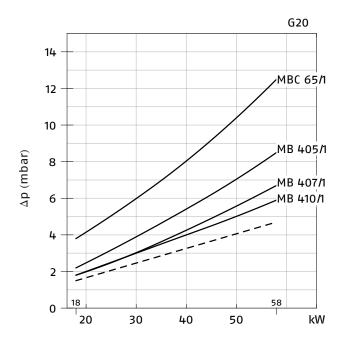


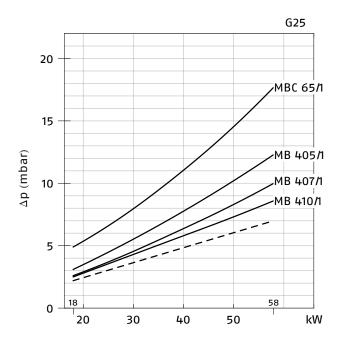
For pressure levels different from those indicated above, please contact Riello Burners Technical Office. In LPG plants, Multibloc gas trains do not operate below 0°C. They are only suitable for gaseous LPG (liquid hydrocarbons destroy the seal materials).

Combustion head + gas trainCombustion head

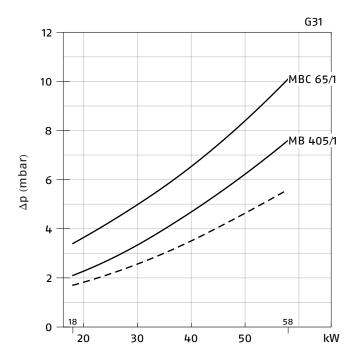
### **RIELLO**

#### **GS5 (NATURAL GAS)**





#### GS5 (LPG)

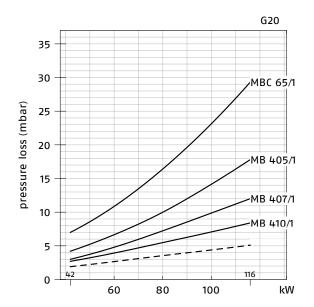


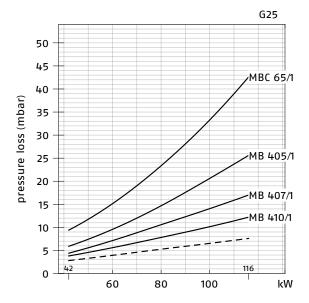
For pressure levels different from those indicated above, please contact Riello Burners Technical Office. In LPG plants, Multibloc gas trains do not operate below 0°C. They are only suitable for gaseous LPG (liquid hydrocarbons destroy the seal materials).

----- Combustion head + gas train

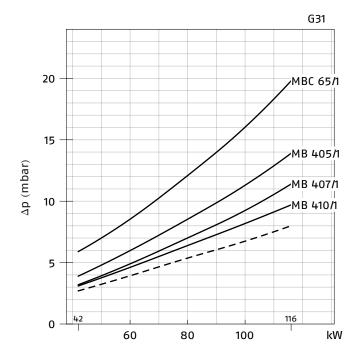
– Combustion head

#### **GS10 (NATURAL GAS)**





#### GS10 (LPG)



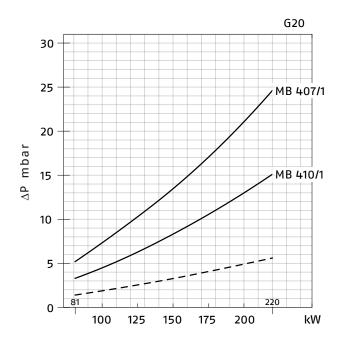
For pressure levels different from those indicated above, please contact Riello Burners Technical Office. In LPG plants, Multibloc gas trains do not operate below 0°C. They are only suitable for gaseous LPG (liquid hydrocarbons destroy the seal materials).

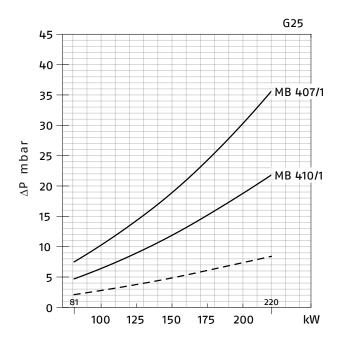
Combustion head + gas train

– Combustion head

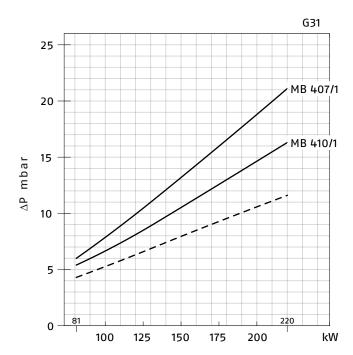
### **RIELLO**

#### **GS20 (NATURAL GAS)**





#### GS20 (LPG)



For pressure levels different from those indicated above, please contact Riello Burners Technical Office. In LPG plants, Multibloc gas trains do not operate below 0°C. They are only suitable for gaseous LPG (liquid hydrocarbons destroy the seal materials).

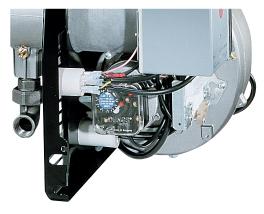
Combustion head + gas train

– Combustion head

### Ventilation

The different ventilation circuits always ensure low noise levels with high performance of pressure and air delivery, inspite of their compact size. The burners are fitted with an adjustable air pressure switch, conforming to EN 676 standards.





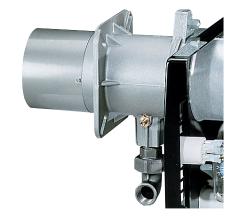
Air pressure switches

### **Combustion Head**

The combustion head in Riello 40 GS burners is the result of an innovative design, which allows combustion with low polluting emissions, while being easy to adapt to all the various types of boilers and combustion chambers.



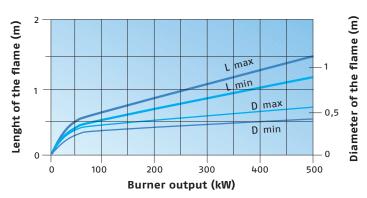
Combustion head

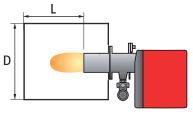


Mobile flange

Simple adjustment allows the internal geometry of the combustion head to be adapted to the burner output.

#### **DIMENSIONS OF THE FLAME**





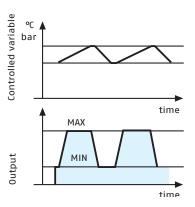
Example:
Burner thermal output = 350 kW;
L flame (m) = 1.2 m (medium value);
D flame (m) = 0.6 m (medium value)

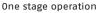


## **Operation**

#### **BURNER OPERATION MODE**

All these models are one stage operation.







Air damper partially open (GS3, GS5)



Air damper partially open (GS10, GS20)



Air damper completely open (GS10, GS20)

The GS3 and GS5 models are fitted with the new microprocessor control panel. For helping the commissioning and maintenance work, there are two main elements:

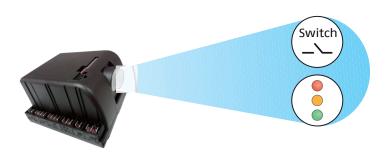


The lock-out reset button is the central **operating element** for resetting the burner control and for activating *I* deactivating the diagnostic functions.



The multi-color LED is the central **indication element** for visual diagnosis and interface diagnosis.

Both elements are located under the transparent cover of lock-out reset button, as showed below.



There are two diagnostic choices, for indication of operation and diagnosis of fault cause:





#### - interface diagnosis:



By the interface adapter and a PC with dedicated software.

#### Indication of operation:

In normal operation, the various statues are indicated in the form of colour codes according to the table below.

#### Color code table

Operation status	Color code	Color
Stand-by	0000000	Off
Pre-purging	* 0 * 0 * 0 * 0	Flashing orange
Ignition phase	* 0 * 0 * 0 * 0	Flashing green
Flame OK	******	Green
Undervoltage/overvoltage	**00**00	Low flashing orange
Fault, alarm	******	Red
Extraneous light	******	Green - Red



#### Diagnosis of fault causes:

After lock-out has occurred, the red signal lamp is steady on. In this status, the visual fault diagnosis is in according to the error code table below:

#### Error code table

Signal	Possible cause
Red <b>* * * * * *</b> * *	The flame does not stabilise at the end of the safety time: - faulty ionisation probe - faulty or soiled gas valves - neutral/phase exchange - faulty ignition transformer - poor burner regulation (insufficient gas)
Red - green	Min. air pressure switch does not close after the limit thermostat closed: - air pressure switch faulty - air pressure switch incorrectly regulated
Flashing red	Presence of flame: - in stand-by position after heat demand - during pre-purging
Slow flashing red	Loss air pressure: - during pre-purging - during safety time or operations
Fast flashing red	Loss of flame 4 times during operations after 3 attempts of re-cycle: - poor burner regulation (insufficient gas) - faulty or soiled gas valves - short circuit between ionisation probe and earth - faulty ionisation probe
Red - orange	Min. air pressure switch is already closed before the limit thermostat closed: - air pressure switch faulty - air pressure switch incorrectly regulated

The GS10 and GS20 models are fitted with the new microprocessor control panel for the supervision during intermittent operation.

For helping the commissioning and maintenance work, there are two main elements:



The lock-out reset button is the central operating element for resetting the burner control and for activating / deactivating the diagnostic functions.



The multi-color LED is the central indication element for visual diagnosis and interface diagnosis.

Both elements are located under the transparent cover of lock-out reset button, as showed below.

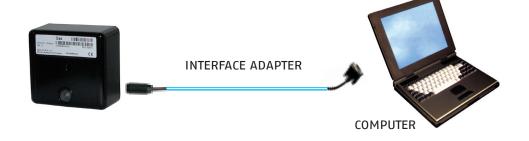


There are two diagnostic choices, for indication of operation and diagnosis of fault cause:

#### - visual diagnosis:



#### - interface diagnosis:



By the interface adapter and a PC with dedicated software.



#### Indication of operation:

In normal operation, the various status are indicated in the form of colour codes according to the table below. The interface diagnosis (with adapter) can be activated by pressing the lock-out button for > 3 seconds.

#### Color code table

Operation status	Color code	Color
Stand-by	0000000	Off
Pre-purging	*****	Yellow
Ignition phase	<b>*</b> ○ <b>*</b> ○ <b>*</b> ○ <b>*</b> ○	Flashing yellow
Flame 0K	*****	Green
Poor flame	* 0 * 0 * 0 * 0	Flashing green
Undervoltage/overvoltage	****	Yellow red
Fault, alarm	*****	Red
Extraneous light	*****	Green - Red

#### Diagnosis of fault causes:

After lock-out has occurred, the red signal lamp is steady on. In this status, the visual fault diagnosis according to the error code table can be activated by pressing the lock-out reset button for > 3 seconds. The interface diagnosis (with adapter) can be activated by pressing again the lock-out button for > 3 seconds. The flashes of red LED are a signal with this sequence:

(e.g. signal with n° 3 flashes – faulty air pressure monitor)

○ LED off

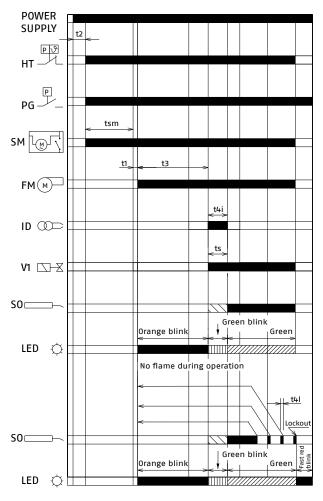


#### Error code table

Flash code	Possible cause of fault
2 flashes	No establishment of flame at the end of safety time: - faulty or soiled fuel valves - faulty or soiled flame detector - poor adjustment of burner, no fuel - faulty ignition equipment
3 flashes	Faulty air pressure switch
4 flashes	Simulation of flame on burner start up
7 flashes	Loss of flame during operation : - faulty or soiled fuel valves - faulty or soiled flame detector - poor adjustment of burner
10 flashes	Wiring error or internal fault

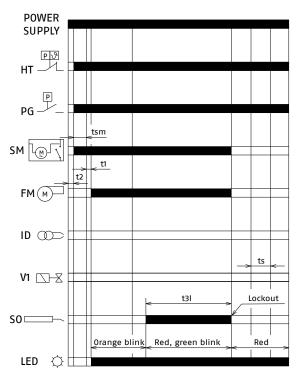
#### START UP CYCLE GS3-5

#### Normal operation



Signal not requested

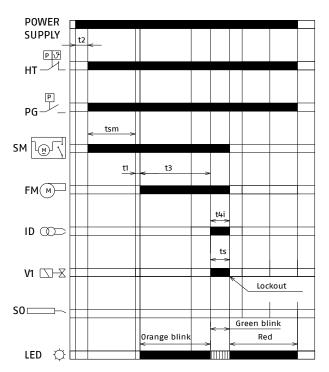
#### Lockout due to extraneous light during pre-purging



KEY	
FM	Fan motor
HT	Heat request
ID	Ignition device
LED	LED colour inside the button
PG	Low gas pressure switch
SM	Electric servomotor damper opener
S0	Ionisation probe
tsm	Standby time for servomotor opening of the electric damper opener
t1	Standby time
t2	Initialisation time for checking
t3	Pre-purging time
t3l	Checks for presence of extraneous light during pre-purging phase
t4i	Total ignition time
t4l	Reaction time to achieve safety lockout due to lack of failure
ts	Safety time
V1	Gas valve



#### Lockout due to ignition failure



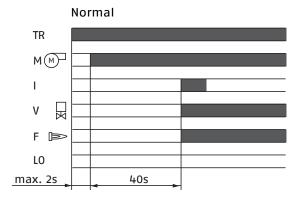
KEY	
FM	Fan motor
HT	Heat request
ID	Ignition device
LED	LED colour inside the button
PG	Low gas pressure switch
SM	Electric servomotor damper opener
S0	lonisation probe
tsm	Standby time for servomotor opening of the electric damper opener
t1	Standby time
t2	Initialisation time for checking
t3	Pre-purging time
t3l	Checks for presence of extraneous light during pre-purging phase
t4i	Total ignition time
t4l	Reaction time to achieve safety lockout due to lack of failure
ts	Safety time
V1	Gas valve

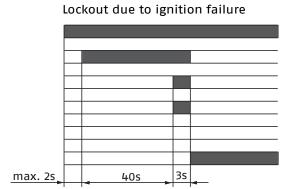
### Operating times (seconds)

t1	t2	t3	t3l, t4l	t4i	ts	tsm
max	max	-	max	-	-	-
2	4.5	40	1	3	3	4

#### START UP CYCLE GS10-20

#### Operation sequence of the burner





KEY	
F	Flame
F2	2nd stage flame
LO	Lockout
М	Fan motor
TL	Limit thermostat
V	Valves

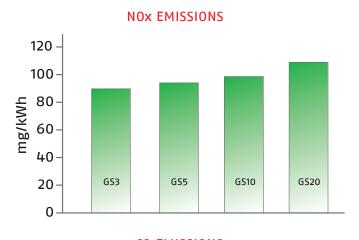
#### Lock-out due to ignition failure

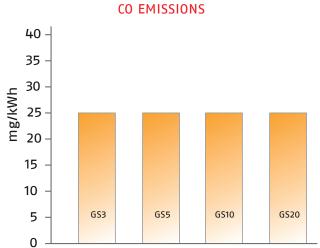
If the flame goes out while running, the burner goes into lockout within one second.

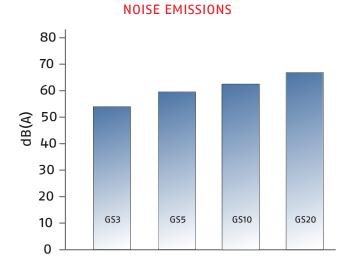


## **Emissions**

The emission data have been measured in the various models at maximum output, in conformity with EN 676 standard.









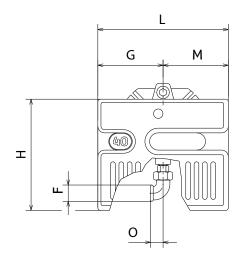
Special attention has been paid to noise reduction. All models are fitted with sound-proofing material inside the cover.

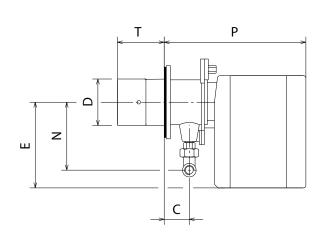
## Overall Dimensions (mm)

These models are distinguished by their reduced size, in relation to the outputs achieved, which means they can be fitted to any boiler on the market.

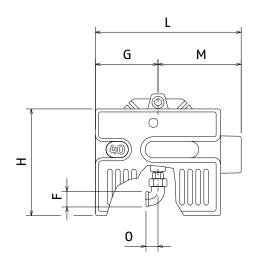
#### **BURNER**

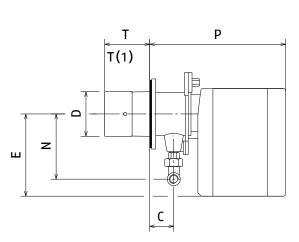
#### GS3 - GS5 - GS10\*\*\* - GS20\*\*\*





#### GS10 - GS20





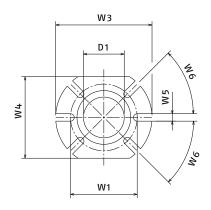
MODEL	L	G	М	Н	Р	T - T(1)	D	Е	С	N	0
GS3	252	126	126	215	230	100	91	165	37	132	25
GS5	272	136	136	233	295	100	91	180	48	138	28
GS10	341	152.5	188.5	262	346	110	105	204	61	142	33
GS10***	305	152.5	152.5	262	346	110 - 170	105	204	61	142	33
GS20	387	175	212	298	389	120 - 280	125	230	67	152	33
GS20***	350	175	175	298	389	120	125	230	67	152	33

- \* With reduction nipple
- \*\* Standard equipment on R40 GS3
- \*\*\* Versions with air damper opening motor inside the cover
- (1) Dimension with extended head

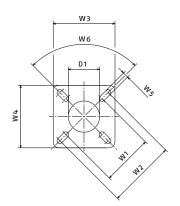


#### **BURNER - BOILER MOUNTING FLANGE**

GS3 - GS5

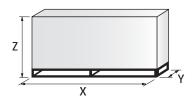


GS10 - GS20



MODEL	D1	W1	W2	W3	W4	W5	W6
GS3	104	130	-	170	140	10	45°
GS5	104	130	-	170	140	10	45°
GS10	114	130	-	185	160	11	45°
GS20	125	155	200	170	170	11	45°

#### **PACKAGING**



MODEL	X	Υ	Z	kg
GS3	375	335	310	11
GS5	445	355	325	11
GS10	483	423	330	15
GS20	535	463	375	21

## **Installation Description**

Installation, start up and maintenance must be carried out by qualified and skilled personnel. The burner is set in factory on standard calibration (minimum output), if necessary adjustments can be made on the basis of the maximum output of the boiler. All operations must be performed as described in the technical handbook supplied with the burner.

#### **BURNER SETTING**

The air damper position can be easily adjusted removing the burner cover.



Head setting is easy and aided by a graduated scale, a test point allows reading the air pressure in the combustion head.

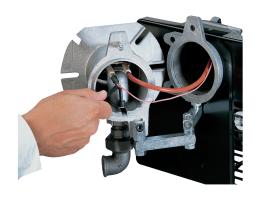


Riello 40 GS burners are fitted with an air pressure switch which, in accordance with EN 676 standards, can be adjusted by the installer using a graduated selector, on the basis of the effective working conditions.



#### **MAINTENANCE**

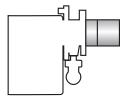
Maintenance is easily solved because the combustion head can be disassemblied without having to remove the burner from the boiler.





### Burner accessories

#### **EXTENDED HEAD KIT**



"Standard head" burners can be transformed into "extended head" versions by using the special kit. Below the KITS available for the various burners are listed, showing the original and the extended lengths.

BURNER	STANDARD HEAD LENGTH (mm)	EXTENDED HEAD LENGTH (mm)	CODE
GS3 - GS5	100	125	3000820
GS10	110	170	3001064
GS20	120	280	3000873

#### REMOTE RESET CONTROL KIT FOR THE MG 557 CONTROL BOX

The MG 557 control box can be remotely released using an electric command kit. This kit must be installed in conformity with the local authority.

BURNER	CODE
GS3 - GS5	3002750

#### **LPG KIT**



For burning LPG gas, a special kit is available to be fitted to the combustion head on the burner, as shown in the following table.

BURNER	STANDARD HEAD CODE	EXTENDED HEAD CODE
GS3	3000881	3000881
GS5	3000882	3000882
GS10	3000884	3000884
GS20	3000886	3000886

#### **TOWN GAS KIT**



BURNER	CODE
GS3	3000888
GS5	3000889
GS10	3000891
GS20	3000893

#### **GROUND FAULT INTERRUPTER KIT**



A "Ground fault interrupter kit" is available as a safety device in case of electrical system fault. It is supplied with burners with pin plug.

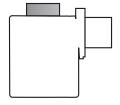
BURNER	CODE
GS3 - GS5 - GS10 - GS20	3001180

#### 7-PIN PLUG KIT

If necessary a 7-pin plug kit is available (in packaging of n. 5 pieces).

BURNER	CODE
GS3 - GS5 - GS10 - GS20	3000945

#### **INLET AIR ASPIRATION KIT**



This kit allows to channel the external air directly into the burner and is available as accessory for models.

BURNER	CODE
GS3	20027571
GS5	20027576
GS10	20027578
GS20	20027581

#### **END CONE WITH TURBULATOR DISK**



The end cone turbolator disk reduces the flame lenght. It is suitable for hoven application (CO emissions) and short boiler chamber.

BURNER	PROJECTION (mm)	CODE
GS5	+15	3000916
GS10	+18	3000918
GS20	+23	3000919

#### **CONTINUOUS VENTILATION KIT FOR RMG CONTROL BOX**

If the burner requires continuous ventilation in the stages without flame, a special kit is available as given in the following table.

BURNER	CODE
GS10 - GS20	3010094

#### **PC INTERFACE KIT**



To connect the control box to a personal computer for the transmission of operation, fault signals and detailed service information, an interface adapter with PC software are available.

BURNER	CODE
GS10 - GS20	3002719



## Gas train accessories

#### **SEAL CONTROL KIT**



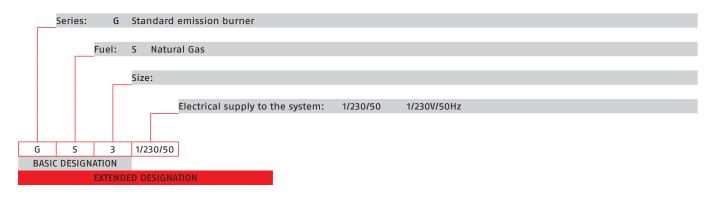
To test the valve seals on the gas train, (except for the model with Multibloc MBC 65 DLE) a special "seal control kit" is available.

GAS TRAIN	CODE	CODE	
UAS IRAIN	for 50Hz operation	for 60Hz operation	
MB/1 type	3010123	20050030	

## Specification

#### **DESIGNATION OF SERIES**

A specific index guides your choice of burner from the various models available in the GS series. Below is a clear and detailed specification description of the product.



#### **AVAILABLE BURNER MODELS**

BURNER MODELS	ELECTRICAL - SUPPLY	HEAT OUTPUT		TOTAL ELECTRICAL		
		(kW)	NATURAL GAS (Nm³/h)	POWER (kW)	CERTIFICATION	NOTE
GS3	1/230/50	11 - 35	1,1 - 3,5	0,100	CE-0476CT2714	(1) (5)
GS5	1/230/50	18 - 58	1,8 - 5,8	0,110	CE-0476CT2714	(1) (5)
GS5	1/220/60	23 -65	2,3 - 6,5	0,180	_	(2) (4) (5)
GS10	1/230/50	42 - 116	4,2 - 11,6	0,130	CE-0476CT2714	(1)
GS10	1/220/60	42 - 116	4,2 - 11,6	0,200	_	(2) (4)
GS10	1/220/60	42 - 116	4,2 - 11,6	0,200	_	(1) (4) (5)
GS20	1/230/50	81 - 220	8,1 - 22	0,250	CE-0476CT2714	(1)
GS20 TL	1/230/50	81 - 220	8,1 - 22	0,250	CE-0476CT2714	(1)
GS20	1/220/60	81 - 220	8,1 - 22	0,430	-	(2) (4) (5)

Net calorific value G20: 10 kWh/Nm $^{3}$  - Density: 0,71 kg/Nm $^{3}$ 

The burners of GS series are in according to EN 676

- (1) With plug and socket
- (2) With terminal block
- (3) Belgium version
- (4) Korea version
- (5) With air damper opening motor inside the cover



#### **SPECIFICATION**

#### STATE OF SUPPLY

#### **Burner**

Monoblock, gas burners, completely automatic, with one stage settings fitted with:

- Fan with forward curve blades
- Cover lined with sound-proofing material
- Air damper, completely closed in stand by, with adjustment inside the cover
- Single phase electric motor 230 V, 50 Hz
- Combustion head fitted with:
  - stainless steel head cone, resistant to high temperatures
  - ignition electrodes
  - ionisation probe
  - gas distributor
  - flame stability disk
- Adjustable air pressure switch, with graduated selector, to guarantee burner lock out in the case of insufficient combustible air
- Microprocessor-based burner safety control box (with diagnostic, remote reset, continuous purge integrated, recycle, post-purge)
- IP XOD (IP 40) electric protection level

#### Standard equipment:

- Flange insulation screen
- Screws and nuts for fixing the flange to the boiler
- 7-pole socket
- Hinge
- Reduction nipple Rp 1/2" Rp 3/8" (for R40 GS3 only)
- Grommet
- Instruction handbook for installation, use and maintenance
- Spare parts catalogue

#### Conforming to:

- 2014/30 EU Directive (electromagnetic compatibility)
- 2014/35 EU Directive (low voltage)
- 2016/426 EU Gas Appliances Regulation
- 2006/42 CE Directive (machine)
- EN 676 (gas burners)

#### Available accessories to be ordered separately:

- Extended head kit
- Remote reset control kit for MG 557 control box
- LPG kit
- Town gas kit
- Ground fault interrupter kit
- 7-pin plug kit
- Inlet air aspiration kit
- End cone with turbulator disk
- Continuous ventilation kit for control box
- PC interface kit

### Riello Burners a world of experience in every burner we sell.



[1]



[2]

- [1] BURNERS PRODUCTION PLANT S. PIETRO, LEGNAGO (VERONA) - ITALIA
- [2] HEADQUARTER BURNERS DIVISION S. PIETRO, LEGNAGO (VERONA) ITALIA

Across the world, Riello sets the standard in reliable and high efficiency burner technology.

With burner capacity from 5 kW to 48 MW, Riello gas, oil, dual fuel and Low Nox burners deliver unbeatable performance across the full range of residential and commercial heating applications, as well as in industrial processes.

With headquarter in Legnago, Italy, Riello has been manufacturing premium quality burners for over 90 year. The manufacturing plant is equipped with the most innovative systems of assembling lines and modern manufacturing cells for a quick and flexible response to the market.

Besides, the Riello Combustion Research Centre, located in Angiari, Italy, represents one of the most modern facility in Europe and one of the most advanced in the world for the development of the combustion technology.

Today, the company's presence on worldwide markets is distinguished by a well-constructed and efficient sales network, alongside many important Training Centres located in various countries to meet its customers' needs. Riello has 13 operational branches abroad (in Europe, America and Asia), with customers in over 60 countries.

RIELLO S.p.A. – 37045 Legnago (VR) – Italy tel. +39 0442 630111 – fax: +39 0442 21980 www.riello.com

