



# BURNERS

**baltur** **75**   
Energy for People 1950 - 2025



DUAL FUEL  
GAS/LIGHT OIL BURNERS

### TBML 2000 ME

### TBML 2000 ME V

Alternating natural gas/light oil burner according to european regulation EN676 and EN267. Two-stage progressive control. Modulating mode is available for both fuels by the modulation kit (supplied separately)

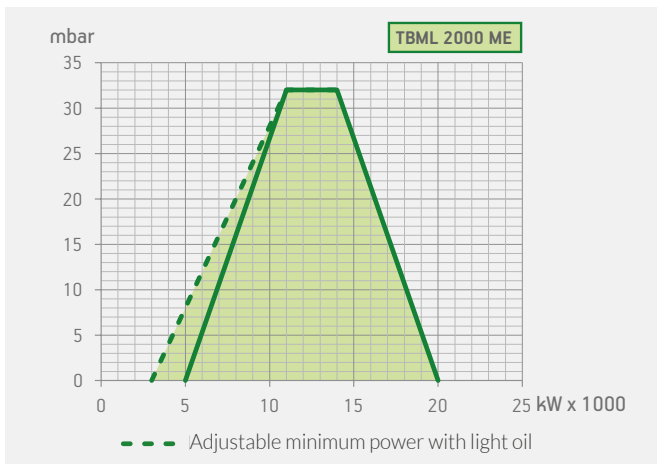
electronic modulation

electronic modulation

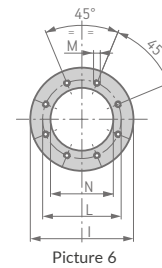
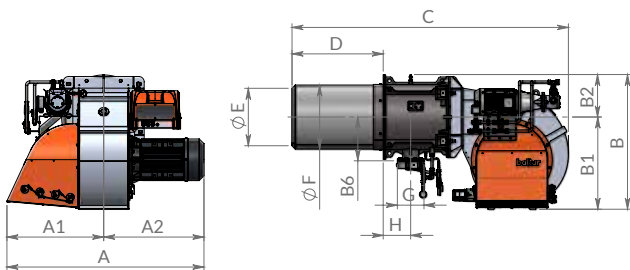
P.I.D. controller and signal receiver (0÷10V / 4÷20 mA) integrated in burner control panel	○	●
Modulation ratio:	natural gas: 1:6 light oil: 1:4	natural gas: 1:6 light oil: 1:4
Burner with Low NOx and CO emissions on gas according to European standard EN676:	class 2	class 2
Burner with Low NOx and CO emissions on light oil according to European standard EN267:	class 2	class 2
Adjusting the combustion head.	●	●
Maintenance facilitated by the possibility of removing the mixing unit and combustion head without having to remove the burner from the boiler	●	●
Fixed boiler coupling flange.	●	●
Easy maintenance thanks to the two-sides hinge which allows the removal of the combustion head without having to remove the burner from the boiler.	●	●
Combustion air intake with butterfly valve. Air flow adjustment:	electric cam	electric cam
Fully closing air damper on shutdown to avoid loss of heat through the chimney.	●	●
Adjustment of fan revolutions according to working stage by means of a frequency converter in order to reduce noise and electric consumption		●
CE version gas train is complete with butterfly valve, operation and safety valve with electromagnetic drive, valve tightness control, minimum and maximum pressure switch, pressure regulator and gas filter	●	●
Fail proof connectors for burner/gas train connection.	●	●
Gas train outlet:	down	down
Electric motor for pump drive	●	●
Fuel supply circuit made of gear pump with pressure adjustment, control flow valve, shut-off valves and safety valve, safety pressure switch	●	●
Fuel switch device:	manual	manual
Flame detection by UV photocell	●	●
Control panel equipped either with display showing the working process and with the keyboard for the burner adjustment	●	●
Electric protection rating:	IP54	IP54

#### LEGEND:

○ Optional, ● As standard



Model	Size of packaging			Weight kg
	L	P	H	
TBML 2000 ME	2750	2050	1520	1380
TBML 2000 ME V	2750	2050	1520	1395



Flange dimensions and boiler drilling template.

DUAL FUEL  
GAS/LIGHT OIL BURNERS

Model	A mm	A1 mm	A2 mm	B mm	B1 mm	B2 mm	B6 mm	C mm	D mm	E mm	F mm	G	H mm	I mm	L mm	M	N mm	Pic.
TBML 2000 ME	1855	913	942	1265	870	395	482	2595	856	600	612	DN125	258	790	730	M20	640	4
TBML 2000 ME V	1855	913	942	1265	870	395	482	2595	856	600	612	DN125	258	790	730	M20	640	4

	O2 Kit	CO Kit	Emissions class	Thermal output kW	Model	Part no.	Max visc. °E at 20°C	Electrical supply	Motor kW	Note
Frequency 50 Hz										
			see page 246	3200(5000)* ÷ 20000	<b>TBML 2000 ME</b>	<b>67550010</b>	1,5	3N AC 50Hz 400V	45,0+7,5	4) 19)
•	○	○	see page 246	3200(5000)* ÷ 20000	<b>TBML 2000 ME V</b>	<b>67550015</b>	1,5	3N AC 50Hz 400V	45,0+7,5	4) 19)
Frequency 60 Hz										
			see page 246	3200(5000)* ÷ 20000	<b>TBML 2000 ME</b>	<b>67555410</b>	1,5	3N AC 60Hz 380V	45,0+7,5	4) 19)
•	○	○	see page 246	3200(5000)* ÷ 20000	<b>TBML 2000 ME V</b>	<b>67555415</b>	1,5	3N AC 60Hz 380V	45,0+7,5	4) 19)

○ Optional, • As standard

### TO COMPLETE THE BURNER

DESCRIPTION	PART NO.
Modulation kit (see page 5)	98000059
Modulating probe for LCM 100 (see page 5)	

### ACCESSORIES AVAILABLE ON REQUEST

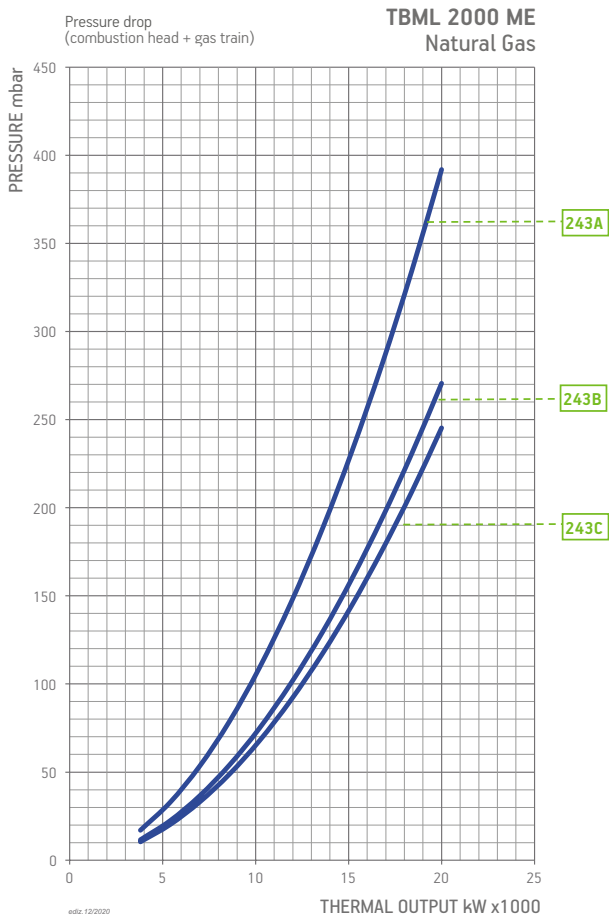
DESCRIPTION	PART NO.
O2 control kit <b>NEW</b>	98000460
CO control kit <b>NEW</b>	98000461
Soundproof burner cover (see page 10)	97980063

### BURNER ACCESSORIES

Line filter, flex hoses, boiler coupling kit.

### NOTE

4 Equipped with automatic air closure device.  
 19 For applications on flame-reversing boilers, please get in contact with our commercial department.  
 Net calorific value:  
 Natural gas: Hi = 35,80 MJ/m<sup>3</sup> = 8550 kcal/m<sup>3</sup>, at reference conditions 0°C, 1013mbar.  
 LPG: Hi = 92 MJ/m<sup>3</sup> = 22000 kcal/m<sup>3</sup>, at reference conditions 0°C, 1013mbar.  
 Light oil: Hi = 42,70 MJ/kg = 10200 kcal/kg.  
 For different type of gas and pressure values, please get in contact with our commercial department.



Burner model	Gas type	Curve on graph	Version	P.Max** mbar	Execution	Gas train	Regulator with incorporated filter	Burner/gas train adapter	Valve tightness control kit	Pic.	Notes
						Part no.	Part no.	Part no.	Part no.		
TBML 2000 ME TBML 2000 ME V	Natural gas	243A	CE/EXP	500	CTV	19990648	Included		Included	D4	
			CE/EXP	500	CTV	19990689	Included		Included	D4	
		243B	CE/EXP	500	CTV	19990649	Included		Included	D4	
			CE/EXP	500	CTV	19990690	Included		Included	D4	
		243C	CE/EXP	500	CTV	19990650	Included		Included	D4	
			CE/EXP	500	CTV	19990691	Included		Included	D4	

To choose the correct gas train please refer to the information on page 17 of the Burners Catalogue.  
For information on the structure, composition, and size of the gas train please refer to the diagrams on page 11.

### NOTE

CTV Gas train with Valve Tightness Control.

\*\* Maximum gas inlet pressure at pressure regulator.

## MODULATION

The two stage progressive burners, by installing the PID load controller and related modulating kit, can operate as modulating burners with the ability to adjust the thermic load according to boiler needs. The load adjustment is possible between the minimum and maximum burner's operating point.

### How to choose the modulating kit components:

According to the parameter that it's necessary to control: temperature (°C) or pressure (bar) it's necessary to choose the range kit according to boiler operating range.

In case the value is included in two ranges it's necessary to select the lower range.

### Example:

In case the required hot water boiler set point is 100°C it's necessary to select the temperature probe kit with operating range between 0 ÷ 130°C.

In case the steam boiler must operate with 8bar outlet steam pressure it's necessary to select the pressure probe kit with operating range between 0 ÷ 10 bar.



### Automatic proportional modulation regulator PID

Part no.	Kit	Burners
98000055	Modulation kit LC3	TBG 450 ÷ 2000 MC
98000056	Modulation kit LC3	TBG 35 MC
98000057	Modulation kit LC3	TBML 80 ÷ 360 MC
98000058	Modulation kit LC3	TBG 45 ÷ 60 MC
98000059	Modulation kit LCM 100	ME models
98000065	Modulation kit LC4	TBG 80 ÷ 360 MC

### Temperature probe for LC3 modulation

Part no.	Temperature	Type robe	Probe length	Male coupling
98000023	0 °C ÷ 130 °C	PT 1000	85 <sup>1)</sup>	R 1/2"
98000021	0 °C ÷ 500 °C	PT 1000	200 <sup>1)</sup>	G 1/2"
98000022	0 °C ÷ 1100 °C	Thermocouple	425 <sup>1)</sup>	R 1/2"



### Temperature probe for LCM 100 modulation

Part no.	Temperature	Type robe	Probe length	Male coupling
98000023	0 °C ÷ 130 °C	PT 1000	85 <sup>1)</sup>	R 1/2"
98000021	0 °C ÷ 500 °C	PT 1000	200 <sup>1)</sup>	G 1/2"

### Temperature probe for ETAMATIC OEM control box

Part no.	Temperature	Type robe	Probe length	Male coupling
98000035	0 °C ÷ 500 °C	PT 100	100 <sup>1)</sup>	G 1/2"

### Steam pressure probe (for all types of automatic regulator)\*

Part no.	Pressure steam	Signal output	Male coupling
98000045	0 ÷ 1 bar	4 ÷ 20 mA	G 1/2"
98000046	0 ÷ 10 bar	4 ÷ 20 mA	G 1/2"
98000047	0 ÷ 16 bar	4 ÷ 20 mA	G 1/2"
98000048	0 ÷ 25 bar	4 ÷ 20 mA	G 1/2"
98000049	0 ÷ 40 bar	4 ÷ 20 mA	G 1/2"

\*) In the case of using applications where temperatures exceed 90°C you need to match the kit codes: 98000062

**NOTE: In combination with the LC4 modulation kit for MC models, a 12V power supply kit is mandatory.**

98000482	12V power supply kit
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### External climate regulation

Part no.	Description	Temperature
85060070	Temperature probe PT100	-50 °C ÷ 90 °C
98000061	Interface module for LC3	

### Power signal converter (TBG 45÷360 MC / LX MC)

Part no.	Description
98000063	Converter kit 0 ÷ 10 V / 4 ÷ 20 mA

### UV safe kit

Part no.	Description
98000443	UV SAFE KIT TBG 80-360 FGR
98000444	UV SAFE KIT TBG 450-750 FGR
98000445	UV SAFE KIT TBG 800 FGR
98000446	UV SAFE KIT TBG 1200 FGR

**Note:** For different modulation values please contact our Technical Assistance Service.

1) Different lengths on request.

## RETURN NOZZLES

Nozzle with fuel return for diesel and mixed series two-stage progressive / modulating and modulating burners. This kind of nozzle, while keeping the pump pressure constant, varies the amount of

fuel supplied according to the return pressure of the nozzle. To be ordered together with the burner when placing the order according to the power required by the application.

### Nozzles for light oil (ratio 1÷3) excluded burners: TBML 800

Part no.	Rated flow-rate kg/h	Flow-rate angle	Part no.	Rated flow-rate kg/h	Flow-rate angle
98000201	50	45°	98000218	400	45°
98000202	60	45°	98000219	425	45°
98000203	70	45°	98000220	450	45°
98000204	80	45°	98000221	475	45°
98000205	90	45°	98000222	500	45°
98000206	100	45°	98000223	525	45°
98000207	125	45°	98000224	550	45°
98000208	150	45°	98000225	575	45°
98000209	175	45°	98000226	600	45°
98000210	200	45°	98000227	650	45°
98000211	225	45°	98000228	700	45°
98000212	250	45°	98000229	750	45°
98000213	275	45°	98000230	800	45°
98000214	300	45°	98000231	850	45°
98000215	325	45°	98000232	900	45°
98000216	350	45°	98000233	1000	45°
98000217	375	45°			



### Nozzles for light oil (ratio 1÷4) for burners TBML 450÷900 - TBL 450÷750 - TBL 1000

Part no.	Rated flow-rate kg/h	Flow-rate angle	Part no.	Rated flow-rate kg/h	Flow-rate angle
98000264	200	45°	98000277	550	45°
98000265	225	45°	98000278	600	45°
98000266	250	45°	98000279	650	45°
98000267	275	45°	98000271	700	45°
98000268	300	45°	98000273	750	45°
98000269	330	45°	98000276	800	45°
98000270	360	45°	98000286	800	50°
98000272	400	45°	98000287	850	50°
98000274	450	45°	98000288	900	50°
98000275	500	45°			



### Nozzles for light oil (ratio 1÷5) for burners TBML 800 - TBL 1000

Part no.	Rated flow-rate kg/h	Flow-rate angle	Part no.	Rated flow-rate kg/h	Flow-rate angle
98000238	200	45°	98000249	475	45°
98000239	225	45°	98000250	500	45°
98000240	250	45°	98000251	525	45°
98000241	275	45°	98000252	550	45°
98000242	300	45°	98000253	575	45°
98000243	325	45°	98000254	600	45°
98000244	350	45°	98000255	650	45°
98000245	375	45°	98000256	700	45°
98000246	400	45°	98000257	750	45°
98000247	425	45°	98000258	800	45°
98000248	450	45°	98000259	850	45°
			98000260	900	45°

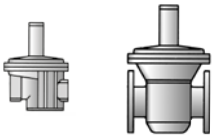


### Nozzles for heavy oil (ratio 1÷5) - Type W4

Part no.	Rated flow-rate kg/h	Flow-rate angle	Part no.	Rated flow-rate kg/h	Flow-rate angle
98000500	300	45°	98000508	500	45°
98000501	325	45°	98000509	525	45°
98000502	350	45°	98000510	550	45°
98000503	375	45°	98000511	600	45°
98000504	400	45°	98000512	650	45°
98000505	425	45°	98000513	700	45°
98000506	450	45°	98000514	750	45°
98000507	475	45°			

## Gas pressure regulator with incorporated filter approved CE\*

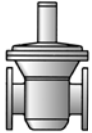
Control closing , pressure taps upstream side - the side valley , safety diaphragm.  
Max inlet pressure : 1 bar.



Part no.	Model	Outlet pressure mbar	Gas connection
97392010	BTFR/1	40 ÷ 110	1/2"
97392020	BTFR/1	40 ÷ 110	3/4"
97392030	BTFR/1	40 ÷ 110	1"
97392040	BTFR/1	90 ÷ 190	1"1/4
97392050	BTFR/1	90 ÷ 190	1"1/2
97392060	BTFR/1	90 ÷ 190	2"
97392070	BTFR/1	110 ÷ 200	DN65 - PN16
97392080	BTFR/1	110 ÷ 200	DN80 - PN16
97392090	BTFR/1	130 ÷ 200	DN100 - PN16

## CE gas pressure regulator CE\*

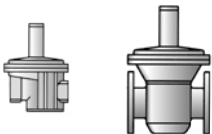
Control closing , pressure taps upstream side - the side valley , safety diaphragm.  
Max inlet pressure : 1 bar.



Part no.	Model	Outlet pressure mbar	Gas connection
97392100	BTR/1	100 ÷ 250	DN125 - PN16
97392110	BTR/1	100 ÷ 250	DN150 - PN16

## Gas pressure regulator with incorporated filter approved CE\*

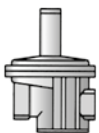
Control closing , pressure taps upstream side - the side valley , safety diaphragm.  
Max inlet pressure : 2 bar.



Part no.	Model	Outlet pressure mbar	Gas connection
97392210	BTFR/2	40 ÷ 110	1/2"
97392220	BTFR/2	40 ÷ 110	3/4"
97392230	BTFR/2	40 ÷ 110	1"
97392240	BTFR/2	90 ÷ 190	1"1/4
97392250	BTFR/2	90 ÷ 190	1"1/2
97392260	BTFR/2	90 ÷ 190	2"
97392270	BTFR/2	110 ÷ 200	DN65 - PN16
97392280	BTFR/2	110 ÷ 200	DN80 - PN16
97392290	BTFR/2	130 ÷ 200	DN100 - PN16

## Gas pressure regulator with incorporated filter approved CE\*

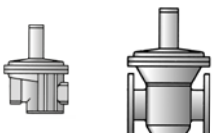
Control closing , pressure taps upstream side - the side valley , safety diaphragm.  
Max inlet pressure : 6 bar.



Part no.	Model	Outlet pressure mbar	Gas connection
97392310	BTFR/6	30 ÷ 90	1/2"
97392320	BTFR/6	30 ÷ 90	3/4"
97392330	BTFR/6	30 ÷ 90	1"

## CE gas pressure regulator CE\*

Control closing , pressure taps upstream side - the side valley , safety diaphragm.  
Max inlet pressure : 6 bar.



Part no.	Model	Outlet pressure mbar	Gas connection
97392340	BTR/6	85 ÷ 180	1"1/4
97392350	BTR/6	85 ÷ 180	1"1/2
97392360	BTR/6	85 ÷ 180	2"
97392370	BTR/6	110 ÷ 200	DN65 - PN16
97392380	BTR/6	110 ÷ 200	DN80 - PN16
97392390	BTR/6	110 ÷ 200	DN100 - PN16

\*) All the pressure regulators in these pages have a standard spring with its own adjustment field. For different delivery pressures, the table below shows the regulation field that must be used, as well as the corresponding spring to replace the standard one with.

# ACCESSORIES FOR CONNECTION OF BURNERS TO GAS MAINS

## PRESSURE REGULATOR SPRINGS

		1/2"	3/4"	1"	1"1/4	1"1/2	2"	DN 65	DN 80	DN 100	DN 125	DN 150							
PRESSURE INPUT 1bar	regulator code	97392010	97392020	97392030	97392040	97392050	97392060	97392070	97392080	97392090	97392100	97392110							
	code spring	97399002	97399005	97399007	97399008	97399009	97399010	97399011	97399012	97399013	97399014	97399015	97399016	97399017	97399018	97399019	97399020	97399021	97399022
		9 ÷ 28	9 ÷ 28	9 ÷ 28															
		18 ÷ 40	18 ÷ 40	18 ÷ 40															
					13 ÷ 23	13 ÷ 23	13 ÷ 23												
		<b>40 ÷ 110*</b>	<b>40 ÷ 110*</b>	<b>40 ÷ 110*</b>															
					20 ÷ 36	20 ÷ 36	20 ÷ 36												
		110 ÷ 150	110 ÷ 150	110 ÷ 150															
		150 ÷ 200	150 ÷ 200	150 ÷ 200	33 ÷ 58	33 ÷ 58	33 ÷ 58												
					55 ÷ 100	55 ÷ 100	55 ÷ 100												
									13 ÷ 27	13 ÷ 27	15 ÷ 27								
									22 ÷ 50	22 ÷ 50	22 ÷ 55								
		200 ÷ 600	200 ÷ 600	200 ÷ 600															
					<b>90 ÷ 190*</b>	<b>90 ÷ 190*</b>	<b>90 ÷ 190*</b>												
									50 ÷ 130	50 ÷ 130	55 ÷ 130								
								<b>110 ÷ 200*</b>	<b>110 ÷ 200*</b>	<b>130 ÷ 200*</b>									
											20 ÷ 150	20 ÷ 150							
											<b>100 ÷ 250*</b>	<b>100 ÷ 250*</b>							
											230 ÷ 350	230 ÷ 350							
											300 ÷ 450	300 ÷ 450							
PRESSURE INPUT 2 bar	regulator code	97392210	97392220	97392230	97392240	97392250	97392260	97392270	97392280	97392290									
	code spring	97399001	97399005	97399008	97399010	97399011	97399012	97399013	97399014	97399015	97399016	97399017	97399018						
		9 ÷ 22	9 ÷ 22	9 ÷ 22															
		20 ÷ 40	20 ÷ 40	20 ÷ 40															
		<b>40 ÷ 110*</b>	<b>40 ÷ 110*</b>	<b>40 ÷ 110*</b>	12 ÷ 35	12 ÷ 35	12 ÷ 35												
		110 ÷ 150	110 ÷ 150	110 ÷ 150	30 ÷ 50	30 ÷ 50	30 ÷ 50												
		150 ÷ 200	150 ÷ 200	150 ÷ 200	40 ÷ 60	40 ÷ 60	40 ÷ 60												
					60 ÷ 95	60 ÷ 95	60 ÷ 95												
									13 ÷ 27	13 ÷ 27	15 ÷ 27								
									22 ÷ 50	22 ÷ 50	27 ÷ 55								
	200 ÷ 600	200 ÷ 600	200 ÷ 600																
				<b>90 ÷ 190*</b>	<b>90 ÷ 190*</b>	<b>90 ÷ 190*</b>													
								50 ÷ 130	50 ÷ 130	55 ÷ 130									
								<b>110 ÷ 200*</b>	<b>110 ÷ 200*</b>	<b>130 ÷ 200*</b>									
PRESSURE INPUT 6 bar	regulator code	97392310	97392320	97392330	97392340	97382350	97392360	97392370	97392380	97392390									
	code spring	97399003	97399004	97399006	97399009	97399011	97399012	97399013	97399014	97399016	97399017	97399018							
		20 ÷ 30	20 ÷ 30	20 ÷ 30															
		<b>30 ÷ 90*</b>	<b>30 ÷ 90*</b>	<b>30 ÷ 90*</b>															
		90 ÷ 170	90 ÷ 170	90 ÷ 170															
					15 ÷ 33	15 ÷ 33	15 ÷ 33												
					32 ÷ 60	32 ÷ 60	32 ÷ 60												
					50 ÷ 95	50 ÷ 95	50 ÷ 95												
									13 ÷ 27	13 ÷ 27	13 ÷ 22								
									22 ÷ 58	22 ÷ 58	18 ÷ 40								
				<b>85 ÷ 180*</b>	<b>85 ÷ 180*</b>	<b>85 ÷ 180*</b>													
								50 ÷ 130	50 ÷ 130	25 ÷ 120									
								<b>110 ÷ 200*</b>	<b>110 ÷ 200*</b>	<b>110 ÷ 200*</b>									

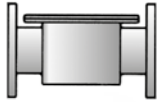
\*) of series.

## ACCESSORIES FOR CONNECTION OF BURNERS TO GAS MAINS

### Gas filters approved CE

With pressure.

Max inlet pressure: 2 bar.

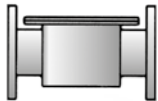


Part no.	Model	Gas connection
97410001	BTF	1/2" FF
97410002	BTF	3/4" FF
97410003	BTF	1" FF
97410004	BTF	1"1/4 FF
97410005	BTF	1"1/2 FF
97410006	BTF	2" FF
97419999	BTF	DN65 - PN16
97429999	BTF	DN80 - PN16
97439999	BTF	DN100 - PN16
97459999	BTF	DN125 - PN16
97449999	BTF	DN150 - PN16

### Gas filters approved CE

With pressure.

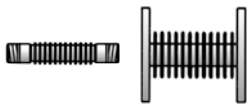
Max inlet pressure: 6 bar.



Part no.	Model	Gas connection
97410010	BTF/6	1" 1/4" FF
97410011	BTF/6	1" 1/2" FF
97410012	BTF/6	2" FF
97410013	BTF/6	DN65 - PN16
97410014	BTF/6	DN80 - PN16
97410015	BTF/6	DN100 - PN16

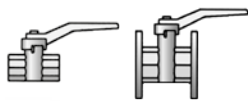
### Anti-vibration and compensation joints approved CE

DIN 30681 stainless steel.



Part no.	Model	Gas connection
97029999	BTGA	1/2" MM
97039999	BTGA	3/4" MM
97049999	BTGA	1" MM
97059999	BTGA	1" 1/4" MM
97069999	BTGA	1" 1/2" MM
97079999	BTGA	2" MM
97089999	BTGA	DN65 - PN16
97099999	BTGA	DN80 - PN16
97109999	BTGA	DN100 - PN16
97119999	BTGA	DN125 - PN16
97129999	BTGA	DN150 - PN16

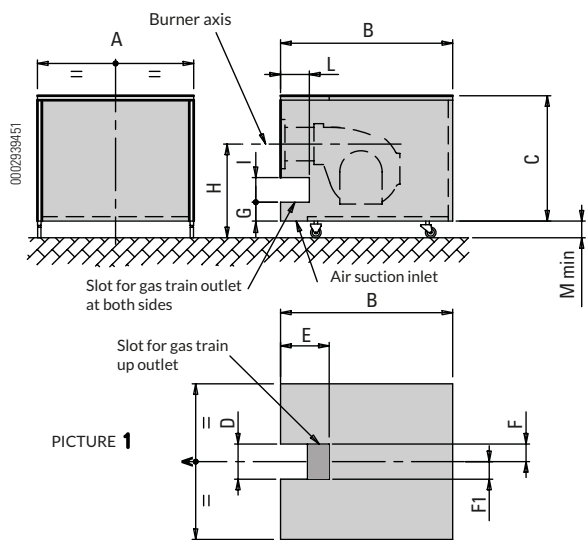
### Ball valves approved CE



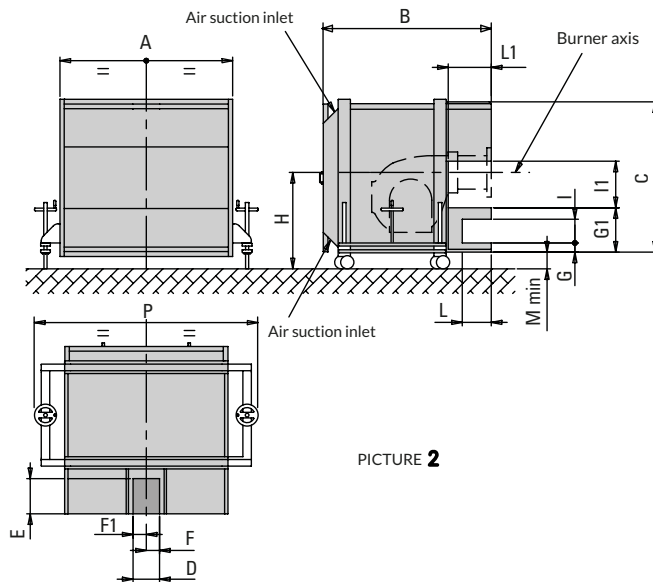
Part no.	Model	Gas connection
97679999	BTVS	3/8" FF
97689999	BTVS	1/2" FF
97699999	BTVS	3/4" FF
97709999	BTVS	1" FF
97719999	BTVS	1" 1/4" FF
97729999	BTVS	1" 1/2" FF
97739999	BTVS	2" FF
97749999	BTVS	DN65 - PN16
97759999	BTVS	DN80 - PN16
97769999	BTVS	DN100 - PN16
97179999	BTVS	DN125 - PN16
97189999	BTVS	DN150 - PN16

# SOUNDPROOF BURNER

Average sound pressure reduction of about 10 dB(A) measured in a laboratory with 1 meter microphone from the burner.



PICTURE 1



PICTURE 2

Model	Sound pressure	Pic.	A	B	C	D	E	F	F1	G	G1	H mm		I	I1	L	L1	M min	P
			mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	min	max	mm	mm	mm	mm
97980053*	-10 dB(A)	1	1100	1340	860	85	500	42,5	42,5	207	-	660	1350	85	-	500	-	190	-
97980054	-10 dB(A)	1	750	1080	650	85	380	42,5	42,5	157	-	560	1060	85	-	355	-	190	-
97980055	-10 dB(A)	1	1100	1340	860	85	440	42,5	42,5	-	-	650	1300	-	-	-	-	190	-
97980057	-10 dB(A)	1	1335	1655	1130	210	495	47,5	162,5	-	-	900	1700	-	-	-	-	190	-
97980058*	-10 dB(A)	1	1610	1740	1190	500	380	37,5	462,5	24,5	-	950	1700	210	-	380	-	190	-
97980059	-20 dB(A)	1	1560	1645	1190	500	380	37,5	462,5	245	-	950	1700	210	-	380	-	190	-
97980061	-20 dB(A)	2	1956	1945	1740	300	400	150	150	104	504	1450	1700	270	530	330	490	180	2540
97980063	-20 dB(A)	2	2180	1950	1830	350	410	175	175	85	480	1400	1200	310	580	345	505	195	2765

Note:

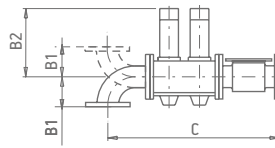
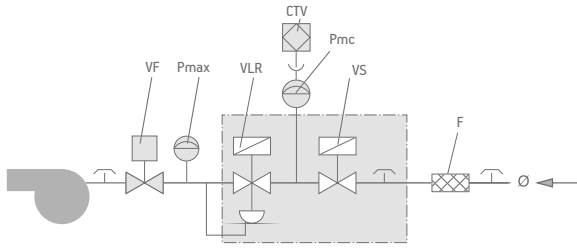
For gas burners in case of gas train up outlet it is necessary to install a 200 mm long cilindric extension.

\*) To decrease the sound pressure by 20 dB(A) please contact our sales office.

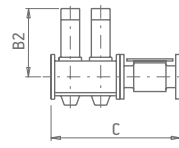
### ATTENTION:

It's customer responsibility to check the correct matching of soundproof according to the height of the boiler.

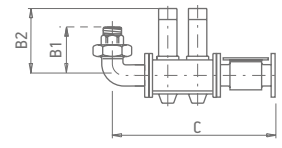
# GAS TRAIN STRUCTURE AND COMPOSITION



Pic. 1



Pic. 2



Pic. 3

Gas train Part no.	Position								Gas train dimensions mm			Size of packaging mm	Weight	Pic.
	CTV	F	Pmax	Pmc	VF	VLR	VS	Ø	B1	B2	C	L x P x H	kg	
19990541 (VGD20.503 - 2")	●	2"	●	●	◆	●	●	2"	145	285	890	990 x 300 x 500	23	1
19990542 (VGD40.065 - 2"1/2)	●	DN65	●	●	◆	●	●	DN65	135	320	970	1380 x 430 x 700	36	1
19990543 (VGD40.080 - 3")	●	DN80	●	●	◆	●	●	DN80	135	325	1010	1380 x 430 x 700	38	1
19990544 (VGD40.100 - 4")	●	DN100	●	●	◆	●	●	DN100	175	330	1100	1380 x 430 x 700	44	1
19990588 (VGD40.065 - 2"1/2)	●	DN65	●	●	◆	●	●	DN65	-	320	580	830 x 430 x 640	26	2
19990589 (VGD40.080 - 3")	●	DN80	●	●	◆	●	●	DN80	-	325	630	830 x 430 x 640	29	2
19990590 (VGD40.100 - 4")	●	DN100	●	●	◆	●	●	DN100	-	330	730	830 x 430 x 640	40	2
19990606 (VGD40.080 - 3")	●	DN80	●	●	◆	●	●	DN80	165	325	1015	1380 x 430 x 700	38	1
19990607 (VGD40.100 - 4")	●	DN100	●	●	◆	●	●	DN100	175	330	1100	1380 x 430 x 700	44	1
19990608 (VGD40.125 - 5")	●	DN125	●	●	◆	●	●	DN125	170	350	1275	1580 x 430 x 720	60	1
19990618 (VGD40.100 - 4")	●	DN100	●	●	◆	●	●	DN100	200	330	1260	1380 x 430 x 710	45	1
19990619 (VGD40.125 - 5")	●	DN125	●	●	◆	●	●	DN125	209	350	1410	1580 x 430 x 740	83	1
19990620 (VGD40.150 - 6")	●	DN150	●	●	◆	●	●	DN150	200	370	1490	1580 x 430 x 740	95	1
19990626 (VGD40.150 - 6")	●	DN150	●	●	◆	●	●	DN150	170	370	1280	1580 x 430 x 720	95	1
19990633 (VGD40.080)	●	DN80	●	●	◆	●	●	DN80	132	314	1006	1380 x 430 x 600	17	1
19990634 (VGD40.100)	●	DN100	●	●	◆	●	●	DN100	163	331	1096	1380 x 430 x 610	30	1
19990640 (VGD40.100 - 4")	●	DN100	●	●	◆	●	●	DN100	175	330	1100	1380 x 430 x 700	44	1
19990641 (VGD40.125 - 5")	●	DN125	●	●	◆	●	●	DN125	170	350	1275	1580 x 430 x 720	60	1
19990648 (VGD40.100 - 4")	●	DN100	●	●	◆	●	●	DN100	200	330	1260	1380 x 430 x 710	45	1
19990649 (VGD40.125 - 5")	●	DN125	●	●	◆	●	●	DN125	207	350	1312	1580 x 430 x 740	83	1
19990650 (VGD40.150 - 6")	●	DN150	●	●	◆	●	●	DN150	200	370	1485	1580 x 430 x 740	95	1
19990666 (VGD20.065 - 2"1/2)	●	DN65	●	●	◆	●	●	DN65	135	285	1120	1380 x 430 x 700	45	1
19990674 (VGD40.125)	●	DN125	●	●	◆	●	●	DN125	163	349	1173	1580 x 430 x 630	42	1
19990679 (MBE 050)	●	2"	●	●	◆	●	●	2"	135	311	880	990 x 300 x 500	22	1
19990680 (MBE 065)	●	DN65	●	●	◆	●	●	DN65	105	380	970	1380 x 430 x 700	38	1
19990681 (MBE 080)	●	DN80	●	●	◆	●	●	DN80	105	380	1005	1380 x 430 x 700	40	1
19990682 (MBE 100)	●	DN100	●	●	◆	●	●	DN100	110	380	1100	1380 x 430 x 700	45	1
19990683 (MBE 080)	●	DN80	●	●	◆	●	●	DN80	105	380	1005	1380 x 430 x 700	40	1
19990684 (MBE 100)	●	DN100	●	●	◆	●	●	DN100	110	380	1100	1380 x 430 x 700	45	1
19990685 (MBE 125)	●	DN125	●	●	◆	●	●	DN125	130	380	1175	1580 x 430 x 720	58	1
19990686 (MBE 080)	●	DN80	●	●	◆	●	●	DN80	105	380	1015	1370 x 420 x 710	47	1
19990687 (MBE 100)	●	DN100	●	●	◆	●	●	DN100	110	380	1100	1380 x 430 x 700	55	1
19990688 (MBE 125)	●	DN125	●	●	◆	●	●	DN125	128	380	1280	1580 x 430 x 720	58	1
19990689 (MBE 100)	●	DN100	●	●	◆	●	●	DN100	110	380	1135	1380 x 430 x 710	46	1
19990690 (MBE 125)	●	DN125	●	●	◆	●	●	DN125	128	380	1285	1580 x 430 x 740	81	1
19990691 (MBE 150)	●	DN150	●	●	◆	●	●	DN150	142	380	1355	1580 x 430 x 740	93	1
19990725 (MBE 050)	●	2"	●	●	◆	●	●	2"	99	311	878	990 x 300 x 500	13	3
19990726 (MBE 065)	●	DN65	●	●	◆	●	●	DN65	105	380	1118	1380 x 430 x 700	28	3
19990727 (MBE 080)	●	DN80	●	●	◆	●	●	DN80	105	380	1190	1380 x 430 x 700	30	3
19990728 (MBE 065)	●	DN65	●	●	◆	●	●	DN65	125	380	760	1030 x 430 x 650	52	1
19990729 (MBE 080)	●	DN80	●	●	◆	●	●	DN80	105	380	850	1030 x 430 x 650	59	1
19990743 (MBE 065)	●	DN65	●	●	◆	●	●	DN65	105	380	582	830 x 430 x 640	28	1
19990744 (MBE 080)	●	DN80	●	●	◆	●	●	DN80	105	380	622	830 x 430 x 640	31	1
19990745 (MBE 100)	●	DN100	●	●	◆	●	●	DN100	105	380	702	830 x 430 x 640	41	1
19990751 (VGD20.050)	●	2"	●	●	◆	●	●	2"	114	255	890	990 x 300 x 500	14	3
19990752 (VGD40.065)	●	DN65	●	●	◆	●	●	DN65	114	318	1090	1380 x 430 x 700	26	3
19990753 (VGD40.080)	●	DN80	●	●	◆	●	●	DN80	114	325	1175	1380 x 430 x 700	28	3

- CTV Valve tightness control.
- F Filter.
- LDU LDU valve tightness control.
- Pct Pressure switch for gas control.
- Pmax Maximum pressure switch.
- Pmc Minimum and control pressure switch gas leaks.
- Pmin Minimum pressure switch.
- R Pressure regulator.
- RF Pressure regulator with filter.

- RFP Pressure regulator with filter for pilot gas train.
- RM Manual flow rate regulator.
- RP Pneumatic regulator.
- VF Regulator throttle valve.
- VL Operating valve.
- VL2 Two-stage operating valve.
- VLP Operating pilot valve.
- VLR Operating valve with pressure regulator.

- VP Pilot valve.
- VPS VPS valve tightness control.
- VS Safety valve.
- VSP Safety pilot valve.
- Ø Gas train diameter.
- Ø1 Main gas train diameter.
- Ø2 Pilot gas train diameter.

- As Standard.
- ▲ As standard for burners with an output of more than 1200 kW, on request for burners with an output of less than 1200 kW.
- On request.
- ◆ Mounted on burner.



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**Baltur S.p.A.**  
Via Ferrarese, 10  
44042 Cento (FE) - Italy  
Tel. +39 051 684.37.11  
[info@baltur.it](mailto:info@baltur.it)

**Quality System Certified**  
UNI-EN ISO 9001 I.C.I.M. n° 202

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