



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



TBG 650 LX MC

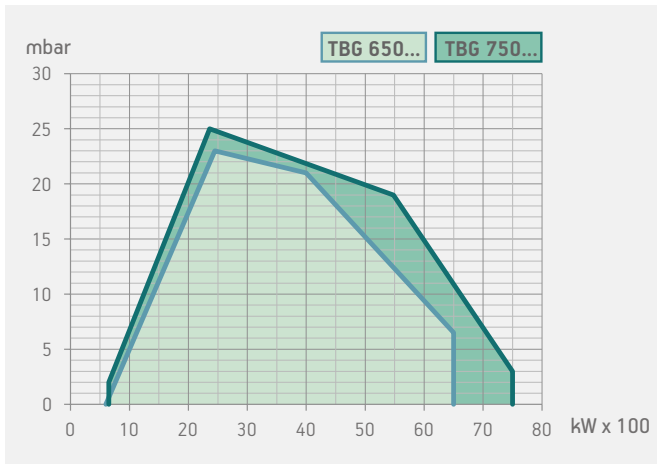


TBG 650 LX ME

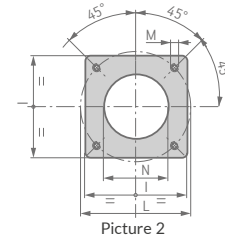
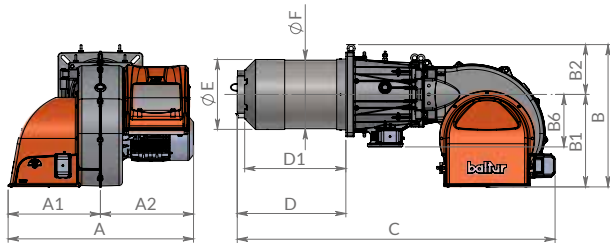
	TBG 650 LX MC	TBG 650 LX ME	TBG 650 LX ME V
Gas burner compliant with European standard EN676. Operation:	mechanical two-stage progressive	electronic modulation	electronic modulation
P.I.D. controller and signal receiver (0÷10V / 4÷20 mA) integrated in burner control panel	○	○	●
Modulation ratio:	1:11	1:11	1:11
Low NOx and CO emissions gas burner according to European standard EN676:	class 3	class 3	class 3
Adjusting the combustion head	●	●	●
Maintenance facilitated by the possibility of removing the mixing unit 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:	mechanical cam	electric servomotor	electric servomotor
Fully closing air damper on shutdown to avoid loss of heat through the chimney	●	●	●
Device made of sound-absorbing material to reduce fan noise	●	●	●
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 operation and safety valve with electromagnetic drive, valve tightness control, minimum pressure switch, pressure regulator and gas filter	●	●	●
Fail proof connectors for burner/gas train connection	●	●	●
Gas train outlet:	up/down	up/down	up/down
Flame detection by ionisation electrode with connector for microamperometer	●	●	●
Control panel with display diagram for working mode with indication lights	●		
Control panel equipped either with display showing the working process and with the keyboard for the burner adjustment		●	●
Electric protection rating:	IP54	IP54	IP54

LEGEND:

○ Optional, ● As standard



Model	Size of packaging			Weight kg
	L	P	H	
TBG 650 LX MC	1500	1320	970	272
TBG 650 LX ME	1500	1320	970	265
TBG 650 LX ME V	1950	1510	1210	295



Flange dimensions and boiler drilling template.

Model	A mm	A1 mm	A2 mm	B mm	B1 mm	B2 mm	B6 mm	C mm	D mm	D1 mm	E mm	F mm	I mm	L mm	M	N mm	Pic.
TBG 650 LX MC	1110	580	530	810	525	285	295	1800	650	547 ÷ 597	397	410	480	520 ÷ 600	M20	415	2
TBG 650 LX ME	1110	580	530	810	525	285	295	1850	650	547 ÷ 597	397	410	480	520 ÷ 600	M20	415	2
TBG 650 LX ME V	1110	580	530	810	525	285	295	1850	650	547 ÷ 597	397	410	480	520 ÷ 600	M20	415	2

	O2 Kit	CO Kit	Emissions class	Thermal output kW	Model	Part no.	Electrical supply	Motor kW	Note
Frequency 50 Hz									
			class 3	600 ÷ 6500	TBG 650 LX MC	18160010	3N AC 50Hz 400V	15	4)
			class 3	600 ÷ 6500	TBG 650 LX ME	18170010	3N AC 50Hz 400V	15	4)
•	○	○	class 3	600 ÷ 6500	TBG 650 LX ME V	18170015	3N AC 50Hz 400V	15	4) 10)
Frequency 60 Hz									
			class 3	600 ÷ 6500	TBG 650 LX MC	18165410	3N AC 60Hz 380V	15	4)
			class 3	600 ÷ 6500	TBG 650 LX ME	18175410	3N AC 60Hz 380V	15	4)
•	○	○	class 3	600 ÷ 6500	TBG 650 LX ME V	18175415	3N AC 60Hz 380V	15	4) 10)

○ Optional, • As standard

MODULATING MODE

DESCRIPTION	PART NO.
TBG 650 LX MC: modulation kit	98000055
TBG 650 LX ME: modulation kit (Included in the ME V version)	98000059
TBG 650 LX MC/650 LX ME: modulating probe (see page 5)	

ACCESSORIES AVAILABLE ON REQUEST

DESCRIPTION	PART NO.
O2 control kit NEW	98000460
CO control kit NEW	98000461
Reversing nozzle kit 19)	98000436
Soundproof burner cover (see page 9)	97980058

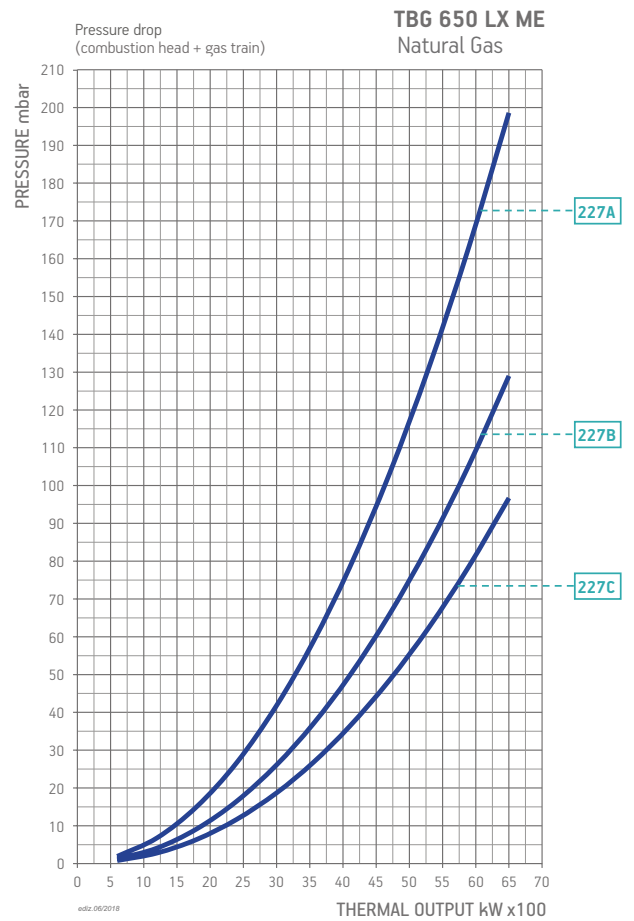
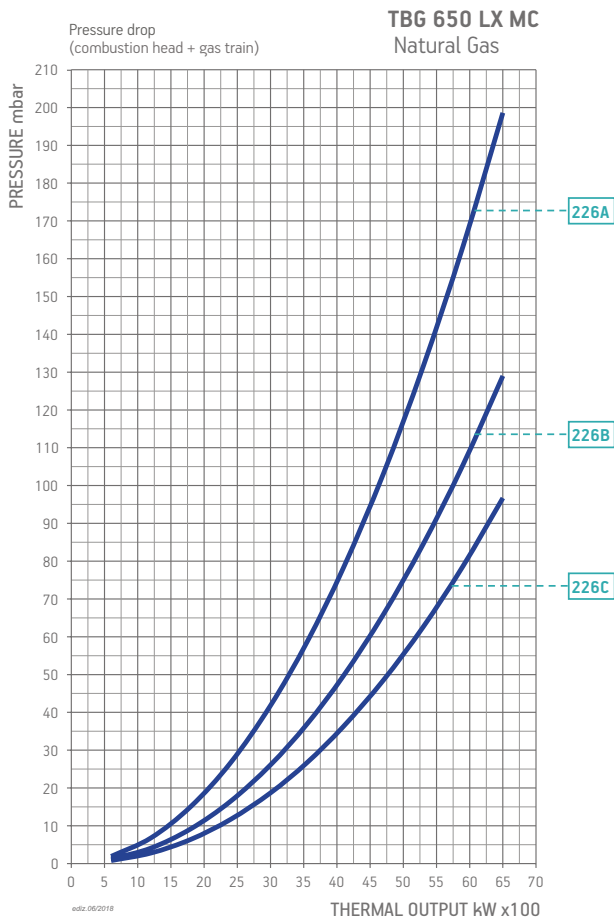
BURNER ACCESSORIES

Boiler coupling kit.

NOTE

- 4 Equipped with automatic air closure device.
 - 10 Inverter supplied separately, not included on the machine.
 - 19 For applications on flame-reversing boilers, please get in contact with our commercial department.
- Net calorific value at reference conditions of 0°C, 1013mbar:
 Natural gas: Hi = 35,80 MJ/m³ = 8550 kcal/m³.
 For different type of gas and pressure values, please get in contact with our commercial department.

BURNER/GAS TRAIN MATCH



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.	Note
						Part no.	Part no.	Part no.	Part no.		
TBG 650 LX MC	Natural gas	226A	CE/EXP	500	CTV	19990600	Included	-	Included	D8	
			CE/EXP	500	CTV	19990759	Included	-	Included	D8	
		226B	CE/EXP	500	CTV	19990601	Included	-	Included	D8	
			CE/EXP	500	CTV	19990760	Included	-	Included	D8	
		226C	CE/EXP	500	CTV	19990602	Included	-	Included	D8	
			CE/EXP	500	CTV	19990761	Included	-	Included	D8	
TBG 650 LX ME/ME V	Natural gas	227A	CE/EXP	500	CTV	19990542	Included	-	Included	D4	
			CE/EXP	500	CTV	19990680	Included	-	Included	D4	
		227B	CE/EXP	500	CTV	19990543	Included	-	Included	D4	
			CE/EXP	500	CTV	19990681	Included	-	Included	D4	
		227C	CE/EXP	500	CTV	19990544	Included	-	Included	D4	
			CE/EXP	500	CTV	19990682	Included	-	Included	D4	

Burner model	Gas type	Version	P.Max ** mbar	Execution	Gas train	Regulator with incorporated filter	Burner/gas train adapter	Valve tightness control kit	LPG kit	Pic.	Note
					Part no.	Part no.	Part no.	Part no.	Part no.		
TBG 650 LX MC	LPG	CE/EXP	500	CTV	19990600	Included	-	Included	98000487	D8	
TBG 650 LX ME/ME V	LPG	CE/EXP	500	CTV	19990542	Included	-	Included	98000487	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 10.

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 ¹⁾	R 1/2"
98000021	0 °C ÷ 500 °C	PT 1000	200 ¹⁾	G 1/2"
98000022	0 °C ÷ 1100 °C	Thermocouple	425 ¹⁾	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 ¹⁾	R 1/2"
98000021	0 °C ÷ 500 °C	PT 1000	200 ¹⁾	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 ¹⁾	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

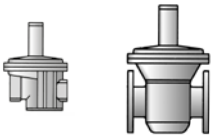
Note: For different modulation values please contact our Technical Assistance Service.

1) Different lengths on request.

Gas pressure regulator with incorporated filter approved CE*

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

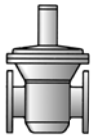
Part no.	Model	Outlet pressure mbar	Gas connection
97392010	BTFR/1	40 ÷ 110	1/2"
97392020	BTFR/1	40 ÷ 110	3/4"
97392030	BTFR/1	40 ÷ 110	1"
97392040	BTFR/1	90 ÷ 190	1"1/4
97392050	BTFR/1	90 ÷ 190	1"1/2
97392060	BTFR/1	90 ÷ 190	2"
97392070	BTFR/1	110 ÷ 200	DN65 - PN16
97392080	BTFR/1	110 ÷ 200	DN80 - PN16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

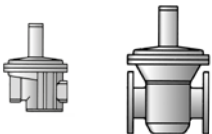
Part no.	Model	Outlet pressure mbar	Gas connection
97392100	BTR/1	100 ÷ 250	DN125 - PN16
97392110	BTR/1	100 ÷ 250	DN150 - PN16



Gas pressure regulator with incorporated filter approved CE*

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

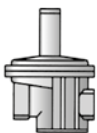
Part no.	Model	Outlet pressure mbar	Gas connection
97392210	BTFR/2	40 ÷ 110	1/2"
97392220	BTFR/2	40 ÷ 110	3/4"
97392230	BTFR/2	40 ÷ 110	1"
97392240	BTFR/2	90 ÷ 190	1"1/4
97392250	BTFR/2	90 ÷ 190	1"1/2
97392260	BTFR/2	90 ÷ 190	2"
97392270	BTFR/2	110 ÷ 200	DN65 - PN16
97392280	BTFR/2	110 ÷ 200	DN80 - PN16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

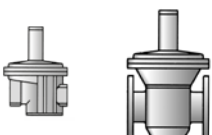
Part no.	Model	Outlet pressure mbar	Gas connection
97392310	BTFR/6	30 ÷ 90	1/2"
97392320	BTFR/6	30 ÷ 90	3/4"
97392330	BTFR/6	30 ÷ 90	1"



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 able 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

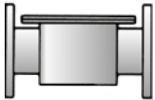
		1/2"	3/4"	1"	1"1/4	1"1/2	2"	DN 65	DN 80	DN 100	DN 125	DN 150							
PRESSURE INPUT 1bar	regulator code	97392010	97392020	97392030	97392040	97392050	97392060	97392070	97392080	97392090	97392100	97392110							
	code spring	97399002	97399005	97399007	97399008	97399009	97399010	97399011	97399012	97399013	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											
		40 ÷ 110*	40 ÷ 110*	40 ÷ 110*															
						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															
						90 ÷ 190*	90 ÷ 190*	90 ÷ 190*											
									50 ÷ 130	50 ÷ 130	55 ÷ 130								
								110 ÷ 200*	110 ÷ 200*	130 ÷ 200*									
											20 ÷ 150	20 ÷ 150							
											100 ÷ 250*	100 ÷ 250*							
											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															
		40 ÷ 110*	40 ÷ 110*	40 ÷ 110*	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																
					90 ÷ 190*	90 ÷ 190*	90 ÷ 190*												
								50 ÷ 130	50 ÷ 130	55 ÷ 130									
								110 ÷ 200*	110 ÷ 200*	130 ÷ 200*									
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															
		30 ÷ 90*	30 ÷ 90*	30 ÷ 90*															
		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									
					85 ÷ 180*	85 ÷ 180*	85 ÷ 180*												
							50 ÷ 130	50 ÷ 130	25 ÷ 120										
							110 ÷ 200*	110 ÷ 200*	110 ÷ 200*										

*) of series.

Gas filters approved CE

With pressure.

Max inlet pressure: 2 bar.

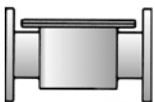


Part no.	Model	Gas connection
97410001	BTF	1/2" FF
97410002	BTF	3/4" FF
97410003	BTF	1" FF
97410004	BTF	1"1/4 FF
97410005	BTF	1"1/2 FF
97410006	BTF	2" FF
97419999	BTF	DN65 - PN16
97429999	BTF	DN80 - PN16
97439999	BTF	DN100 - PN16
97459999	BTF	DN125 - PN16
97449999	BTF	DN150 - PN16

Gas filters approved CE

With pressure.

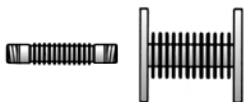
Max inlet pressure: 6 bar.



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

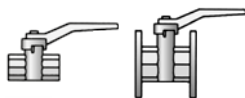
Anti-vibration and compensation joints approved CE

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

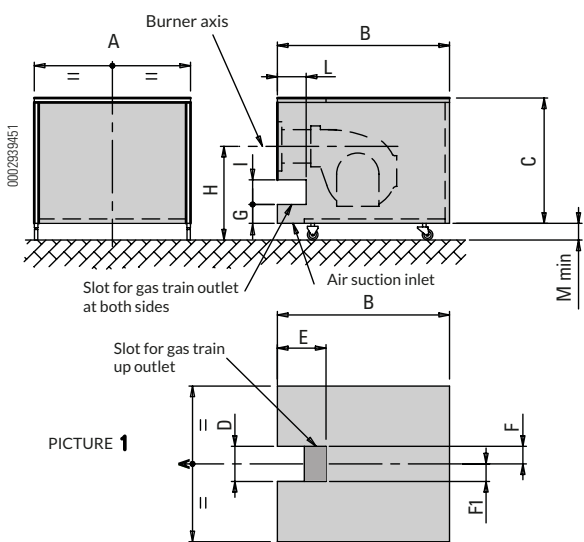
Ball valves approved CE



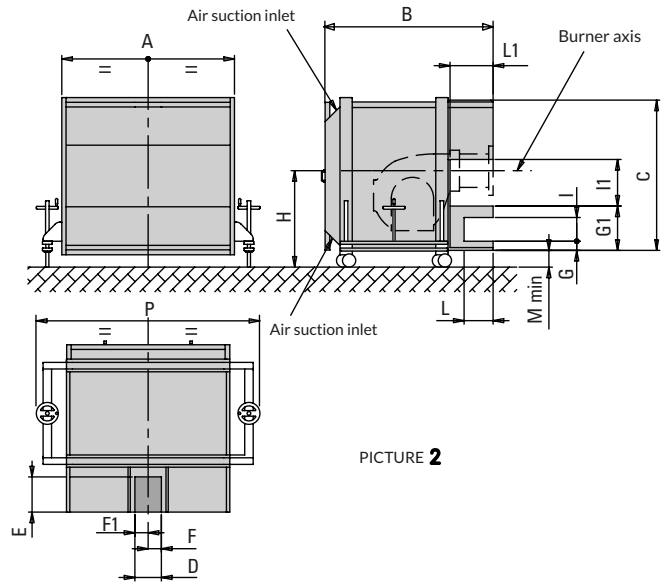
Part no.	Model	Gas connection
97679999	BTVS	3/8" FF
97689999	BTVS	1/2" FF
97699999	BTVS	3/4" FF
97709999	BTVS	1" FF
97719999	BTVS	1" 1/4" FF
97729999	BTVS	1" 1/2" FF
97739999	BTVS	2" FF
97749999	BTVS	DN65 - PN16
97759999	BTVS	DN80 - PN16
97769999	BTVS	DN100 - PN16
97179999	BTVS	DN125 - PN16
97189999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

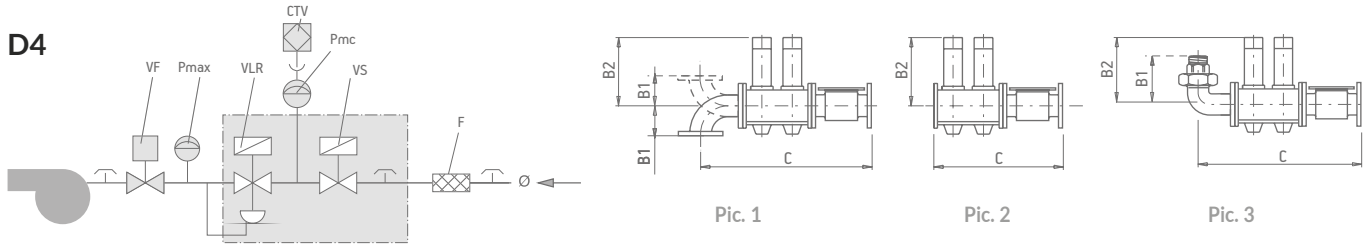
For gas burners in case of gas train up outlet it is necessary to install a 200 mm long cilindric extension.

*) 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

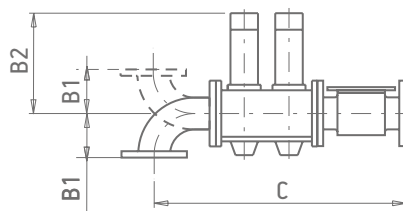
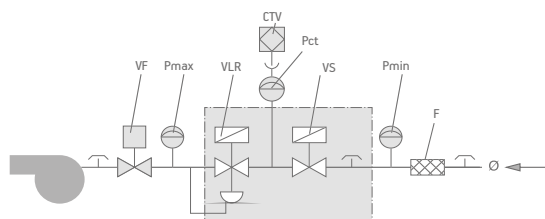


Gas train Part no.	Position							Gas train dimensions mm			Size of packaging mm	Weight	Pic.	
	CTV	F	Pmax	Pmc	VF	VLR	VS	Ø	B1	B2	C	L x P x H		kg
19990541 (VGD20.503 - 2")	●	2"	●	●	◆	●	●	2"	145	285	890	990 x 300 x 500	23	1
19990542 (VGD40.065 - 2"1/2)	●	DN65	●	●	◆	●	●	DN65	135	320	970	1380 x 430 x 700	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.

GAS TRAIN STRUCTURE AND COMPOSITION

D8



Gas train Part no.	Position									Gas train dimensions mm			Size of packagingmm	Weight kg
	CTV	F	Pct	Pmax	Pmin	VF	VLR	VS	Ø	B1	B2	C	L x P x H	
19990599 (VGD20.503 - 2")	●	2"	●	●	●	◆	●	●	2"	145	285	890	990 x 300 x 500	23
19990600 (VGD40.065 - 2"1/2)	●	DN65	●	●	●	◆	●	●	DN65	135	320	970	1380 x 430 x 700	36
19990601 (VGD40.080 - 3")	●	DN80	●	●	●	◆	●	●	DN80	135	325	1010	1380 x 430 x 700	38
19990602 (VGD40.100 - 4")	●	DN100	●	●	●	◆	●	●	DN100	175	330	1100	1380 x 430 x 700	44
19990615 (VGD40.080 - 3")	●	DN80	●	●	●	◆	●	●	DN80	165	325	1015	1380 x 430 x 700	38
19990616 (VGD40.100 - 4")	●	DN100	●	●	●	◆	●	●	DN100	175	330	1100	1380 x 430 x 700	44
19990617 (VGD40.125 - 5")	●	DN125	●	●	●	◆	●	●	DN125	170	350	1275	1580 x 430 x 720	60
19990627 (VGD40.150 - 6")	●	DN150	●	●	●	◆	●	●	DN150	170	370	1280	1580 x 430 x 720	95
19990665 (VGD20.065 - 2"1/2)	●	DN65	●	●	●	◆	●	●	DN65	135	285	1120	1380 x 430 x 700	45
19990683 (MBE 080)	●	DN80	●	●	●	◆	●	●	DN80	105	380	1005	1380 x 430 x 700	40
19990684 (MBE 100)	●	DN100	●	●	●	◆	●	●	DN100	110	380	1100	1380 x 430 x 700	45
19990685 (MBE 125)	●	DN125	●	●	●	◆	●	●	DN125	130	380	1175	1580 x 430 x 720	58
19990758 (MBE 050)	●	2"	●	●	●	◆	●	●	2"	145	311	890	990 x 300 x 500	22
19990759 (MBE 065)	●	DN65	●	●	●	◆	●	●	DN65	105	380	970	1380 x 430 x 700	38
19990760 (MBE 080)	●	DN80	●	●	●	◆	●	●	DN80	105	380	1005	1380 x 430 x 700	40
19990761 (MBE 100)	●	DN100	●	●	●	◆	●	●	DN100	110	380	1100	1380 x 430 x 700	45
19990793 (VGD40.100 - 4")	●	DN125	●	●	●	◆	●	●	DN100	205	330	1135	1380 x 430 x 710	45
19990794 (VGD40.125 - 5")	●	DN125	●	●	●	◆	●	●	DN125	210	350	1285	1580 x 430 x 740	83
19990795 (VGD40.150 - 6")	●	DN125	●	●	●	◆	●	●	DN150	205	370	1360	1580 x 430 x 740	95
19990796 (MBE 100)	●	DN125	●	●	●	◆	●	●	DN100	205	380	1135	1380 x 430 x 710	49
19990797 (MBE 125)	●	DN125	●	●	●	◆	●	●	DN125	210	380	1285	1580 x 430 x 740	84
19990798 (MBE 150)	●	DN125	●	●	●	◆	●	●	DN150	205	380	1360	1580 x 430 x 740	90

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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Energy for People
www.baltur.com
1950 - 2025

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

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

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