



BTG 20 - 20 P



BTG 20 LX



BTG 20 ME

Gas burner compliant with European standard EN676.
Operation:

Continuous modulation operation by installing P.I.D. controller in the control panel (to be ordered separately with modulation probe).

Modulation ratio:

Low NOx and CO emissions gas burner according to European standard EN676:

Adjusting the combustion head.

Maintenance facilitated by the possibility of removing the mixing unit without having to remove the burner from the boiler.

Sliding boiler coupling flange to adapt the blast-pipe to the various types of boilers.

Combustion air intake with butterfly valve. Air flow adjustment:

Fully closing air damper on shutdown to avoid loss of heat through the chimney.

CE version gas train is complete with operation and safety valve with electromagnetic drive, minimum pressure switch, pressure regulator and gas filter.

CE version gas train is complete with operation and safety valve with pneumatic drive, minimum pressure switch, pressure regulator and gas filter.

CE version gas train is complete with butterfly valve, operation and safety valve with electromagnetic drive, valve tightness control, minimum pressure switch, pressure regulator and gas filter.

Possibility to choose gas train with valve tightness control.

Fail proof connectors for burner/gas train connection.

Gas train outlet:

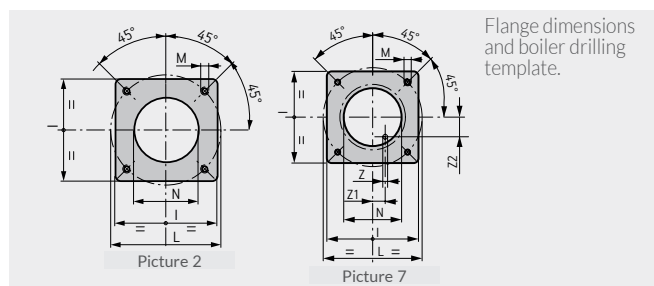
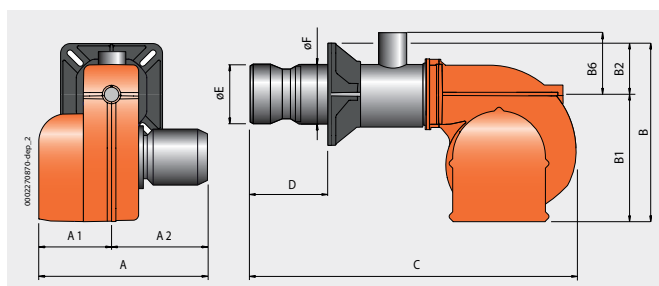
Flame detection by ionisation electrode with connector for microamperometer.

Control panel equipped either with display showing the working process and with the keyboard for the burner adjustment.

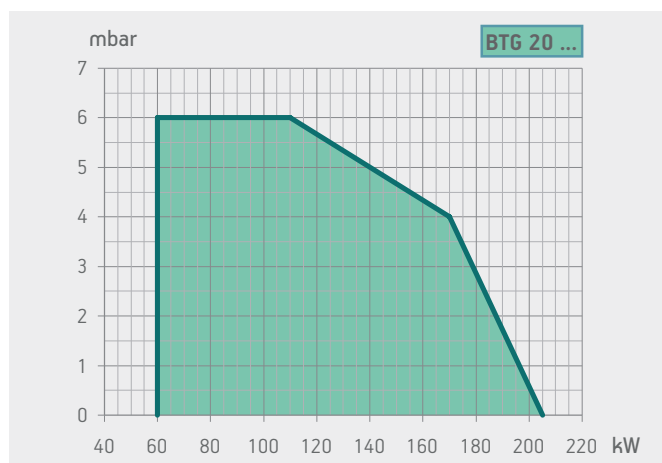
Electric protection rating:

Sound-proof plastic protective cover.

	BTG 20	BTG 20 P	BTG 20 LX	BTG 20 ME
	single-stage	two-stage	pneumatic two-stage progressive	electronic two-stage progressive
Continuous modulation operation by installing P.I.D. controller in the control panel (to be ordered separately with modulation probe).			•	•
Modulation ratio:			1:3	1:3
Low NOx and CO emissions gas burner according to European standard EN676:	class 3	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.	•	•	•	•
Sliding boiler coupling flange to adapt the blast-pipe to the various types of boilers.	•	•	•	•
Combustion air intake with butterfly valve. Air flow adjustment:	manual	electric servomotor	electric servomotor	electric servomotor
Fully closing air damper on shutdown to avoid loss of heat through the chimney.	•	•	•	•
CE version gas train is complete with operation and safety valve with electromagnetic drive, minimum pressure switch, pressure regulator and gas filter.	•	•		
CE version gas train is complete with operation and safety valve with pneumatic drive, minimum pressure switch, pressure regulator and gas filter.			•	
CE version gas train is complete with butterfly valve, operation and safety valve with electromagnetic drive, valve tightness control, minimum pressure switch, pressure regulator and gas filter.				•
Possibility to choose gas train with valve tightness control.	•	•	•	
Fail proof connectors for burner/gas train connection.	•	•	•	•
Gas train outlet:	up	up	up	up
Flame detection by ionisation electrode with connector for microamperometer.	•	•	•	•
Control panel equipped either with display showing the working process and with the keyboard for the burner adjustment.				•
Electric protection rating:	IP40	IP40	IP40	IP40
Sound-proof plastic protective cover.	•	•	•	•



Model	A mm	A1 mm	A2 mm	B mm	B1 mm	B2 mm	B6 mm	C mm	D mm	E mm	F mm	I mm	L mm	M mm	N mm	Z mm	Z1 mm	Z2 mm	Pic.
BTG 20	303	158	145	368	275	93	70	695	150 ÷ 300	127	114	185	170 ÷ 210	M10	135	-	-	-	2
BTG 20 P	303	158	145	368	275	93	70	695	150 ÷ 300	127	114	185	170 ÷ 210	M10	135	-	-	-	2
BTG 20 LX	303	158	145	368	275	93	70	695	150 ÷ 300	127	114	185	170 ÷ 210	M10	135	12	30,2	68,4	7
BTG 20 ME	303	158	145	368	275	93	70	695	150 ÷ 300	127	114	185	170 ÷ 210	M10	135	-	-	-	2



Model	Size of packaging			Weight kg
	L	P mm	H	
BTG 20	780	370	410	18
BTG 20 P	780	370	410	18
BTG 20 LX	780	370	410	18
BTG 20 ME	780	370	410	18

	Emissions class	Thermal output kW	Model	Part no.	Electrical supply	Motor kW	Notes
Frequency 50 Hz							
	class 3	60 ÷ 205	BTG 20	17100010	1N AC 50Hz 230V	0,18	1)
	class 3	60 ÷ 205	BTG 20 P	17110010	1N AC 50Hz 230V	0,18	1)
	class 3	60 ÷ 205	BTG 20 LX	15100010	1N AC 50Hz 230V	0,18	1)
	class 3	60 ÷ 205	BTG 20 ME	17120020	1N AC 50Hz 230V	0,18	4)
Frequency 60 Hz							
	class 3	60 ÷ 205	BTG 20	17100010	1N AC 60Hz 220V	0,18	1)
	class 3	60 ÷ 205	BTG 20 P	17110010	1N AC 60Hz 220V	0,18	1)
	class 3	60 ÷ 205	BTG 20 LX	15100010	1N AC 60Hz 220V	0,18	1)
	class 3	60 ÷ 205	BTG 20 ME	17120020	1N AC 60Hz 220V	0,18	4)

The working field of the burner, as expressed in the "Thermal output kW" column, depends on the characteristics of the gas train it works with (see burner/train match diagram).

MODULATING MODE

DESCRIPTION	PART NO.
BTG 20 LX: modulation kit	98000056
BTG 20 ME: modulation kit	98000059
BTG 20 LX/20 ME: modulating probe (see page 294)	

GAS BURNERS ACCESSORIES

Boiler coupling kit, plug for wiring.

NOTES

1 Equipped with air closure device.

4 Equipped with air closure device.

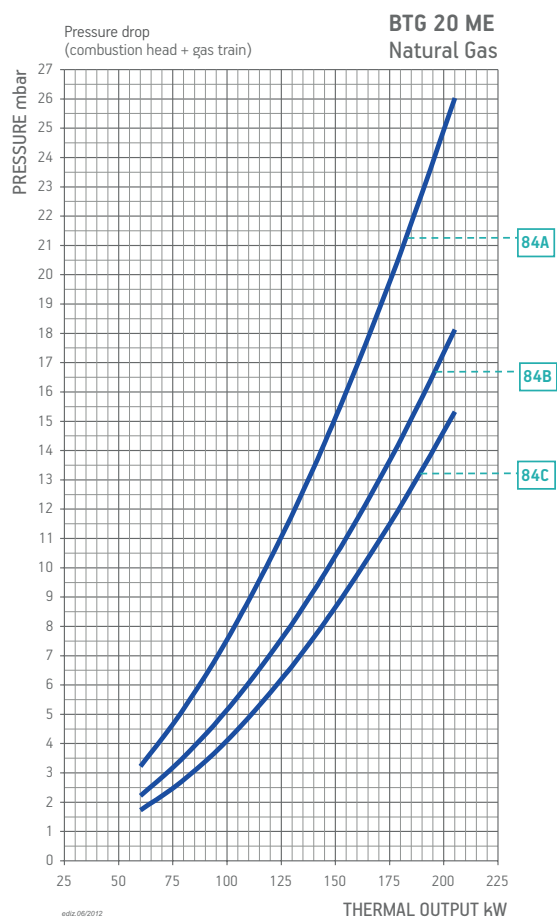
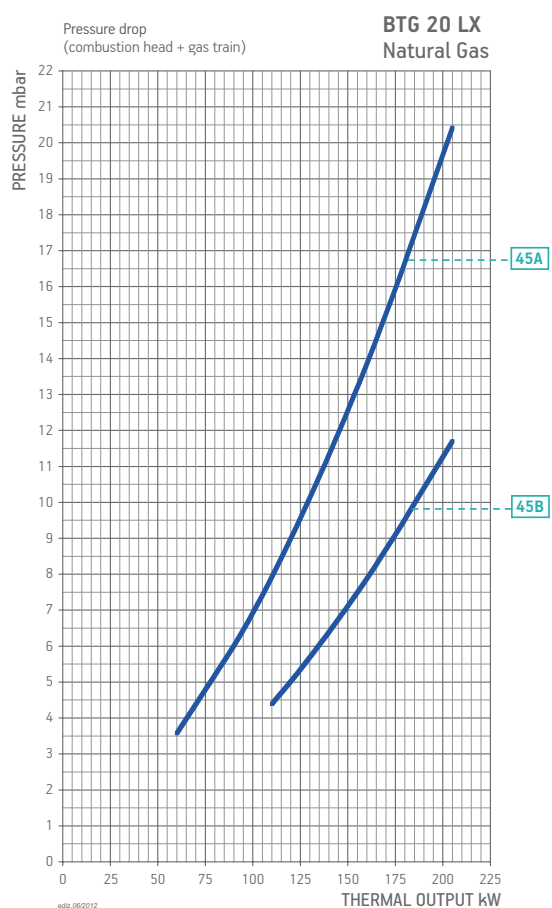
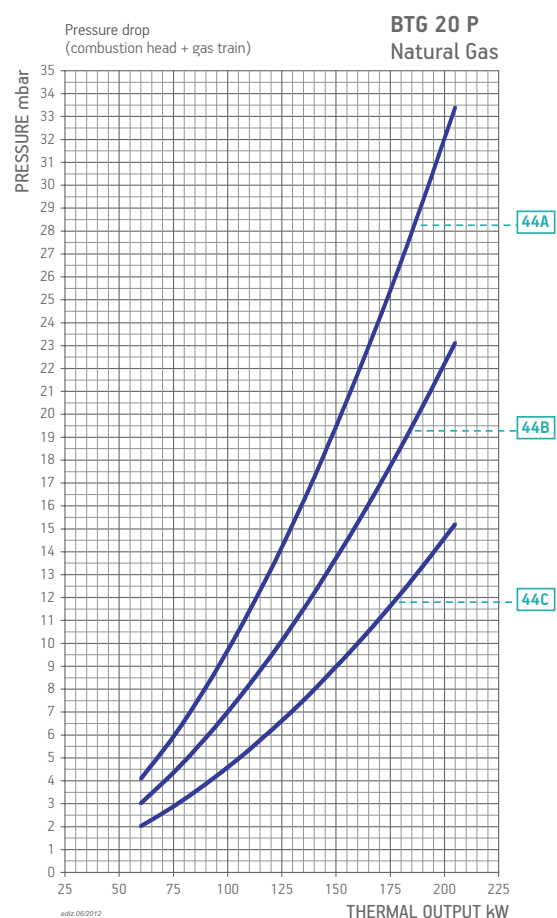
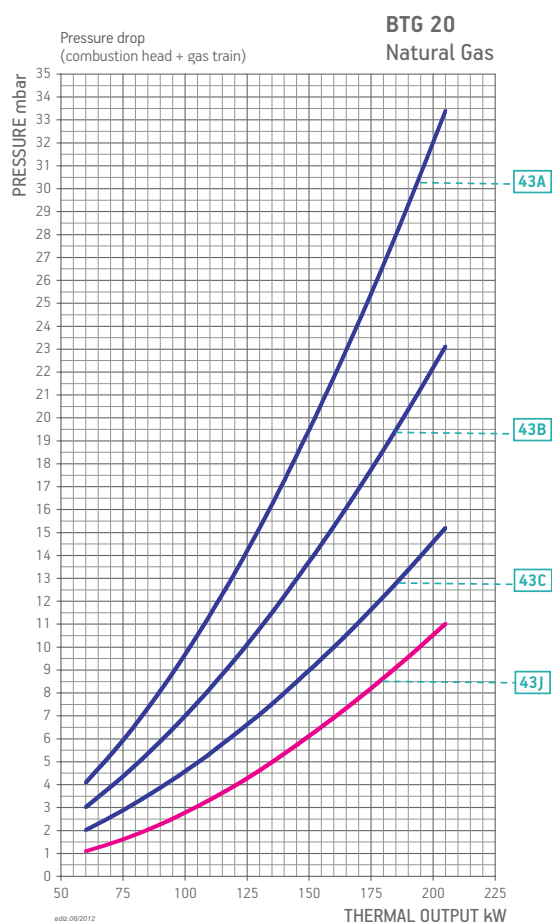
Net calorific value at reference conditions of 0°C, 1013mbar:

Natural gas: Hi = 35,80 MJ/m³ = 8550 kcal/m³,

LPG: Hi = 92 MJ/m³ = 22000 kcal/m³.

For different type of gas and pressure values, please get in contact with our commercial department.

BURNER/GAS TRAIN MATCH



BURNER/GAS TRAIN MATCH

CE gas train version complies with EN676, EXP gas train version is for extra-European markets

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.		
BTG 20	Natural gas	43A	CE/EXP	360		19990002	Included	-	-	M2	
					CTV	19990002	Included	-	98000100	M2	12)
		43B	CE/EXP	360		19990005	Included	-	-	M2	
					CTV	19990005	Included	-	98000100	M2	12)
		43C	CE/EXP	360		19990008	Included	96000031	-	M2	
					CTV	19990008	Included	96000031	98000100	M2	12)
		43J	EXP	40		19990004	-	-	-	ME1	
BTG 20 P	Natural gas	44A	CE/EXP	360		19990016	Included	-	-	B2	
					CTV	19990016	Included	-	98000100	B2	12)
		44B	CE/EXP	360		19990020	Included	-	-	B2	
					CTV	19990020	Included	-	98000100	B2	12)
		44C	CE/EXP	360		19990024	Included	96000031	-	B2	
					CTV	19990024	Included	96000031	98000100	B2	12)
BTG 20 LX	Natural gas	45A	CE/EXP	100		19990440	Included	-	-	D3	
					CTV	19990440	Included	-	98000100	D3	12)
				360		19990447	Included	-	-	D3	9)
					CTV	19990447	Included	-	98000100	D3	9) 12)
		45B	CE/EXP	100		19990441	Included	96000031	-	D3	
					CTV	19990441	Included	96000031	98000100	D3	12)
BTG 20 ME	Natural gas	84A	CE/EXP	360	CTV	19990573	Included	-	Included	D2	
		84B	CE/EXP	360	CTV	19990574	Included	-	Included	D2	
		84C	CE/EXP	360	CTV	19990575	Included	-	Included	D2	

Burner model	Gas type	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.		
BTG 20	LPG	CE/EXP	360		19990002	Included	-	-	M2	
				CTV	19990002	Included	-	98000100	M2	12)
BTG 20 P	LPG	CE/EXP	360		19990016	Included	-	-	B2	
				CTV	19990016	Included	-	98000100	B2	12)
BTG 20 ME	LPG	CE/EXP	360	CTV	19990573	Included	-	Included	D2	

To choose the correct gas train please refer to the information on page 20.

For information on the structure, composition, and size of the gas train please refer to the diagrams on page 300.

NOTES

9) The min feeding gas pressure at the inlet of the gas train can not be lower than 100 mbar.

12) Valve tightness control not required by EN676.

CTV Gas train with Valve Tightness Control.

**) Maximum gas inlet pressure at pressure regulator.