

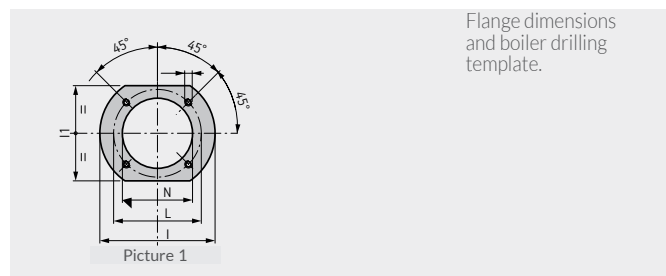
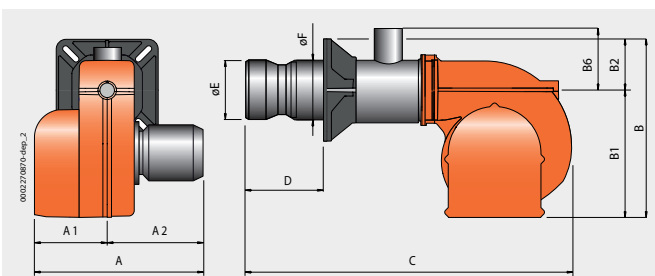


GAS BURNERS
BTG 11 - 11 P - 12



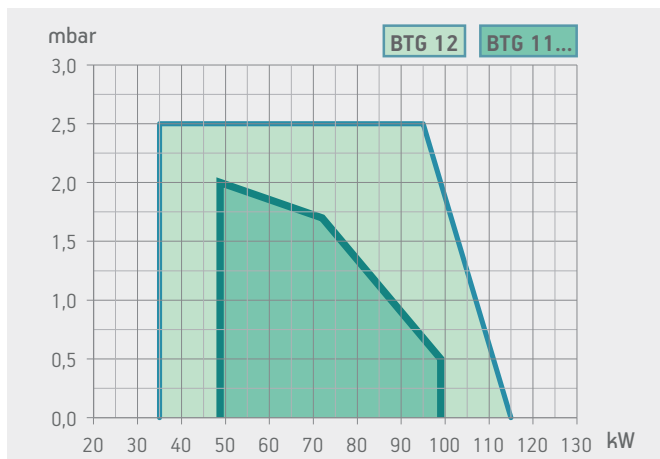


	BTG 11	BTG 11 P	BTG 12
Gas burner compliant with European standard EN676. Operation:	single-stage	two-stage	single-stage
Low NOx and CO emissions gas burner according to European standard EN676:	class 2	class 2	class 2
Adjusting the combustion head.	•	•	•
Maintenance facilitated by the possibility of 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	manual
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.	•	•	•
Possibility to choose gas train with valve tightness control.	•	•	•
Fail proof connectors for burner/gas train connection.	•	•	•
Gas train outlet:	up	up	up
Flame detection by ionisation electrode with connector for microamperometer.	•	•	•
Electric protection rating:	IP40	IP40	IP40
Sound-proof plastic protective cover.	•	•	•



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	E mm	F mm	I mm	I1 mm	L mm	M mm	N mm	Pic.
BTG 11	246	123	123	289	219	70	53	475	90 ÷ 150	108	90	170	140	130 ÷ 155	M8	95	1
BTG 11 P	246	123	123	289	219	70	53	475	90 ÷ 150	108	90	170	140	130 ÷ 155	M8	95	1
BTG 12	246	123	123	289	219	70	53	450	70 ÷ 150	90	90	170	140	130 ÷ 155	M8	95	1



Model	Size of packaging			Weight kg
	L	P	H	
BTG 11	560	310	350	12
BTG 11 P	560	310	350	12
BTG 12	560	310	350	12

	Emissions class	Thermal output kW	Model	Part no.	Electrical supply	Motor kW	Notes
Frequency 50 Hz							
	class 2	48,8 ÷ 99,0	BTG 11	17060010	1N AC 50Hz 230V	0,1	1)
	class 2	48,8 ÷ 99,0	BTG 11 P	17070010	1N AC 50Hz 230V	0,1	1)
	class 2	35,0 ÷ 115,0	BTG 12	17170010	1N AC 50Hz 230V	0,1	1)
Frequency 60 Hz							
	class 2	48,8 ÷ 99,0	BTG 11	17060010	1N AC 60Hz 220V	0,1	1)
	class 2	48,8 ÷ 99,0	BTG 11 P	17070010	1N AC 60Hz 220V	0,1	1)
	class 2	35,0 ÷ 115,0	BTG 12	17170010	1N AC 60Hz 220V	0,1	1)

OPTIONALS

DESCRIPTION

300 mm long combustion head

GAS BURNER ACCESSORIES

Boiler coupling kit, plug for wiring.

NOTES

1 Equipped with air closure device.

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

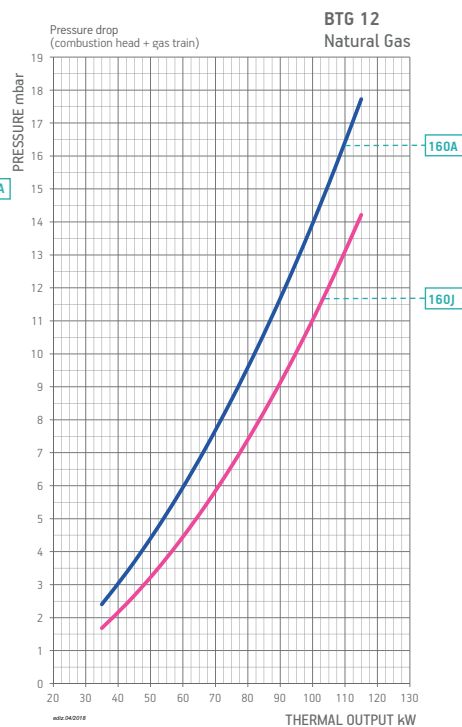
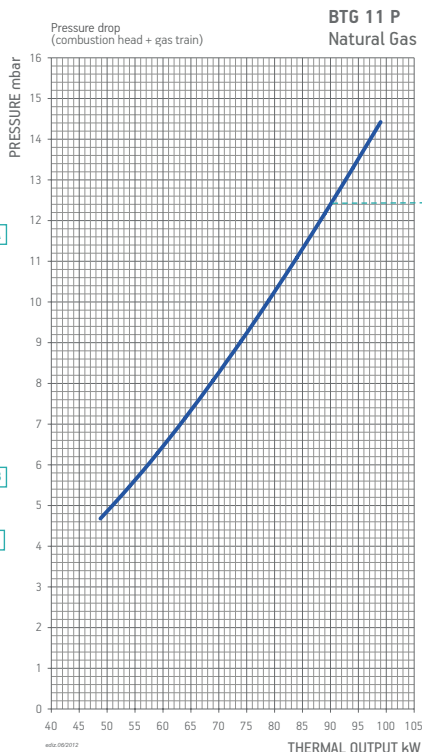
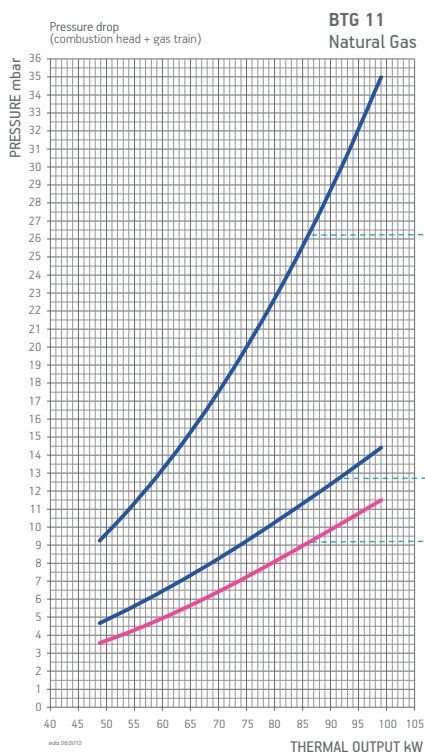
Natural Gas: $Hi = 35,80 \text{ MJ/m}^3 = 8550 \text{ kcal/m}^3$.

LPG: $Hi = 92 \text{ MJ/m}^3 = 22000 \text{ kcal/m}^3$.

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

BURNER/GAS TRAIN MATCH

GAS



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 11	Natural gas	4A	CE/EXP	65	CTV	19990466	Included	96000001	-	M2	
		4B	CE/EXP	360		19990002	Included	-	-	M2	12)
		4J	EXP	40		19990235	-	-	-	ME1	
BTG 11 P	Natural gas	11A	CE/EXP	360	CTV	19990016	Included	-	-	B2	12)
BTG 12	Natural gas	160A	CE/EXP	360	CTV	19990002	Included	-	-	M2	
		160J	EXP	40		19990235	-	-	-	ME1	

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 11	LPG	CE	65		19990466	Included	96000001	-	M2	
		EXP	40		19990235	-	-	-	ME1	
BTG 11 P	LPG	CE/EXP	360	CTV	19990016	Included	-	-	B2	
					19990016	Included	-	98000100	B2	12)
BTG 12	LPG	CE	65		19990466	Included	96000001	-	M2	
		EXP	40		19990235	-	-	-	ME1	

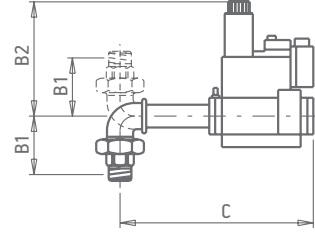
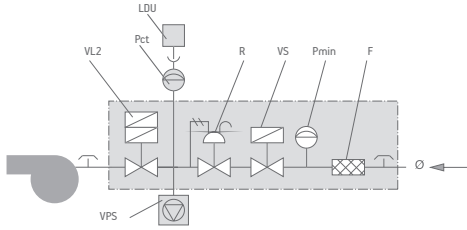
To choose the correct gas train please refer to the information on Burners Catalogue.

NOTES

- 12 Valve tightness control not required by EN676.
- CTV Gas train with Valve Tightness Control.
- **) Maximum gas inlet pressure at pressure regulator.

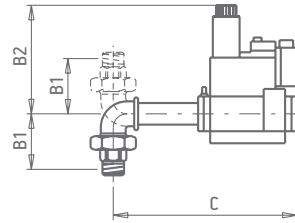
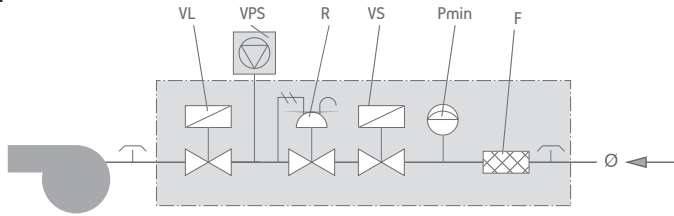
GAS TRAIN STRUCTURE AND COMPOSITION

B2



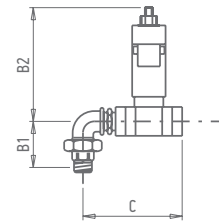
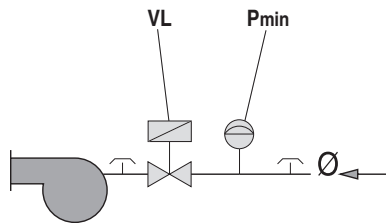
Gas train Part no.	Position									Gas train dimensions mm			Size of packaging mm	Weight
	F	LDU	Pct	Pmin	R	VL2	VPS	VS	Ø	B1	B2	C	L x P x H	kg
19990016 (MB... 405 - 1/2")	●			●	●	●	■	●	3/4"	72	210	204	300 x 210 x 300	5

M2



Gas train Part no.	Position							Gas train dimensions mm			Size of packaging mm	Weight
	F	Pmin	R	VL	VPS	VS	Ø	B1	B2	C	L x P x H	kg
19990466 (MBC... 65 - 1/2")	●	●	●	●		●	1/2"	67	150	198	240 x 220 x 210	2
19990002 (MB... 405 - 1/2")	●	●	●	●	■	●	3/4"	72	140	204	310 x 210 x 250	4

ME1



Gas train Part no.	Position			Gas train dimensions mm			Size of packaging mm	Weight
	Pmin	VL	Ø	B1	B2	C	L x P x H	kg
19990235	●	1/2"	1/2"	72	151	110	240 x 220 x 210	2

- 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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