



GAS BURNERS

TBG 210 P



kW 400 - 2100

SERIES TBG

CONFORM TO: GAS DIRECTIVE EU/2016/426 | E.M.C. DIRECTIVE 2014/30/UE | L.V. DIRECTIVE 2014/35/UE | MACHINERY DIRECTIVE 2006/42/CE | REFERENCE STANDARD EN676.



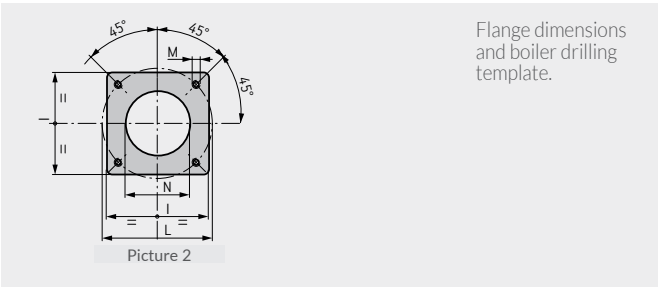
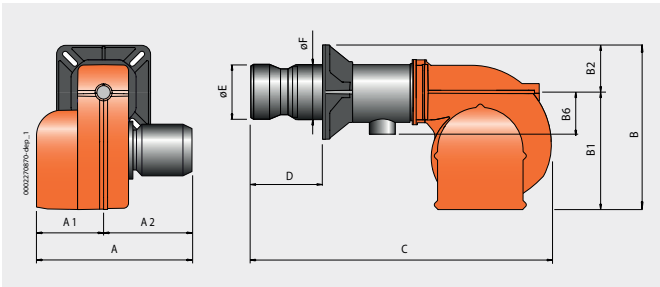
TBG 210 P

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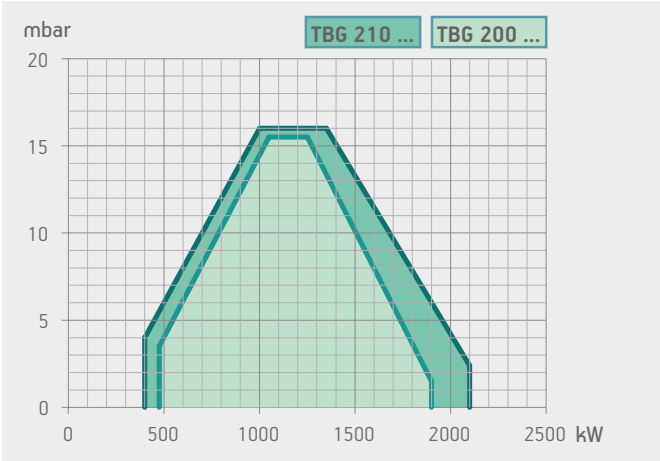
Gas burner compliant with European standard EN676. Operation:

two-stage

Low NOx and CO emissions gas burner according to European standard EN676:	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	•
High ventilation efficiency, low electrical input, low noise	•
Sliding boiler coupling flange to adapt the blast-pipe to the various types of boilers	•
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
Fully closing air damper on shutdown to avoid loss of heat through the chimney	•
Combustion air intake designed to achieve optimum linearity of the air gate opening	•
Device made of sound-absorbing material to reduce fan noise	•
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	•
Fail proof connectors for burner/gas train connection	•
Gas train outlet:	down
Flame detection by ionisation electrode with connector for microamperometer	•
Control panel with display diagram for working mode with indication lights	•
Electric protection rating:	IP44



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	N mm	Z mm	Z1 mm	Z2 mm	Pic.
TBG 210 P	690	320	370	550	380	170	200	1280	200 ÷ 450	250	219	320	280 ÷ 370	M12	255	-	-	-	2



Model	Size of packaging			Weight kg
	L	P mm	H	
TBG 210 P	1070	800	700	94

GAS

	Emissions class	Thermal output kW	Model	Part no.	Electrical supply	Motor kW	Note
			Frequency 50 Hz				
	class 2	400 ÷ 2100	TBG 210 P	17690030	3N AC 50Hz 400V	3,0	3) 4)
			Frequency 60 Hz				
	class 2	400 ÷ 2100	TBG 210 P	17695430	3N AC 60Hz 380V	3,5	3) 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).

ACCESSORIES AVAILABLE ON REQUEST

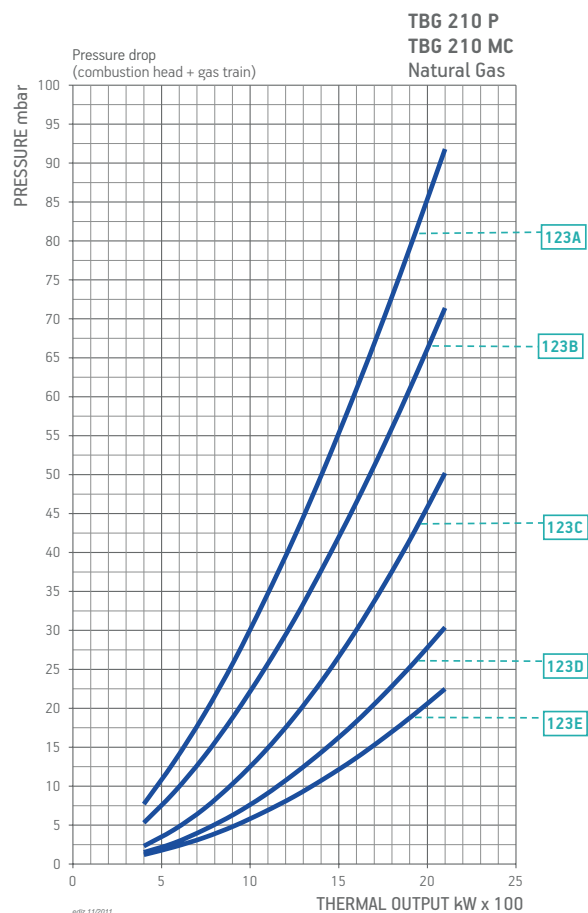
DESCRIPTION	PART NO.
Soundproof burner cover	97980053

GAS BURNERS ACCESSORIES

Boiler coupling kit, plug for wiring.

NOTE

3 Sound proof lid on burner air intake.
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.



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.				
TBG 210 P	Natural gas	123A	CE	360	CTV	19990548	Included	96000007	98000101	B7	11)		
			EXP	360	CTV	19990548	Included	96000007	-	BE7			
		123B	CE	360	CTV	19990549	Included	-	98000101	B7	11)		
			EXP	360	CTV	19990549	Included	-	98000101	BE7			
		123C	CE	500	CTV	19990550	Included	-	98000102	B7	11)		
			EXP	500	CTV	19990550	Included	-	98000102	BE7			
		123D	CE	500	CTV	19990563	Included	-	98000101	B7	11)		
			EXP	500	CTV	19990563	Included	-	98000101	BE7			
		123E	CE	500	CTV	19990564	Included	-	98000101	B7	11)		
			EXP	500	CTV	19990564	Included	-	98000101	BE7			

Burner model	Gas type	Version	P.Max ** mbar	Execution	Gas train		Regulator with incorporated filter	Burner/gas train adapter	Valve tightness control kit	Kit LPG	Pic.	Notes
					Part no.	Part no.	Part no.	Part no.	Part no.	Part no.		
TBG 210 P	LPG	CE	360	CTV	19990549	Included	-	-	98000101	98000359	B7	11)
		EXP	360	CTV	19990549	Included	-	-	-	98000359	BE7	
					19990549	Included	-	-	98000101	98000359	BE7	

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

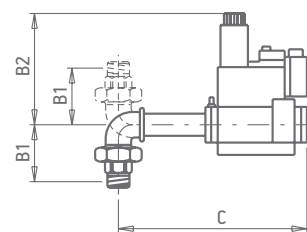
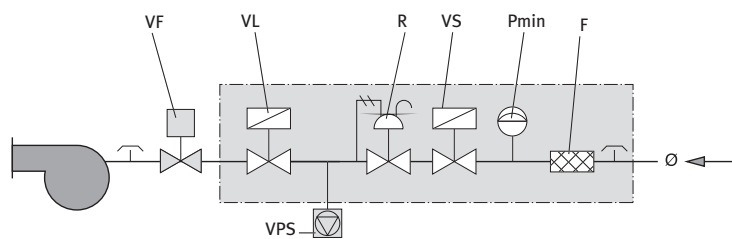
NOTES

11 The train must be always completed with the VPS kit to comply with the EN676 regulations.

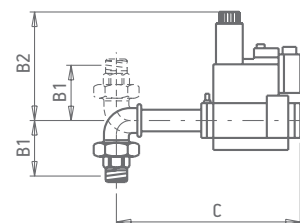
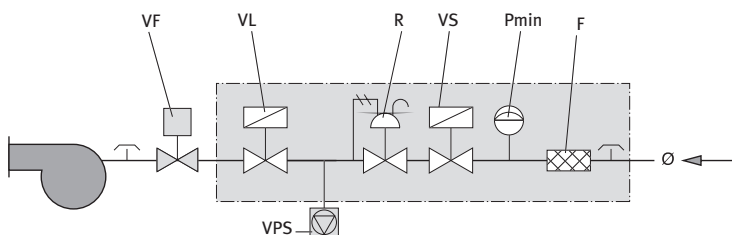
CTV Gas train with Valve Tightness Control.

**) Maximum gas inlet pressure at pressure regulator.

B7



BE7



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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