



GAS BURNERS

TBG 85 P





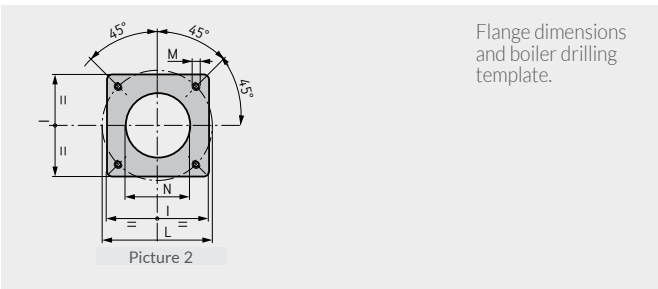
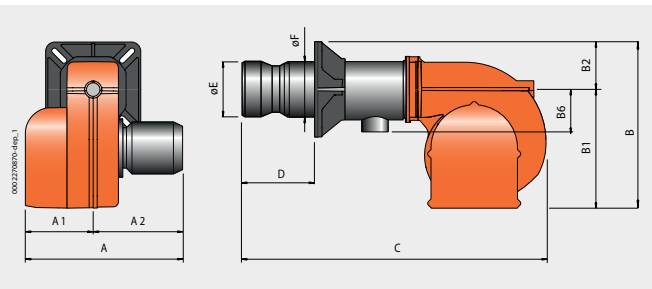
TBG 85 P

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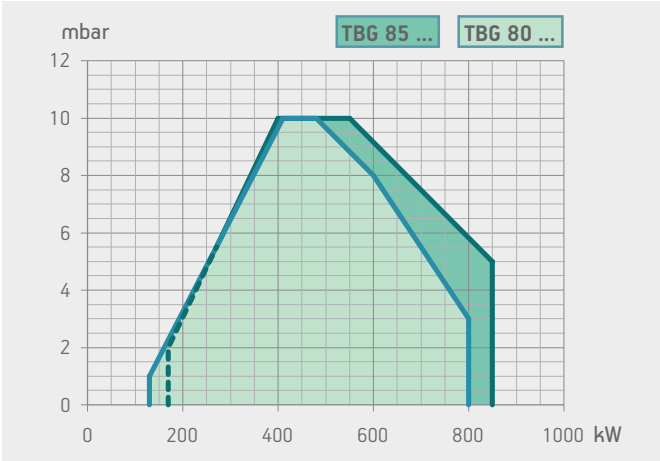
Gas burner compliant with European standard EN676. Operation:

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:	electric servomotor
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 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/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 85 P	645	275	370	520	380	140	160	1230	175 ÷ 400	180	178	280	250 ÷ 325	M12	190	-	-	-	2



Model	Size of packaging			Weight
	L	P	H	
		mm		kg
TBG 85 P	1070	800	700	78

	Emissions class	Thermal output kW	Model	Part no.	Electrical supply	Motor kW	Note
			Frequency 50 Hz				
	class 2	170 ÷ 850	TBG 85 P	17480010	3N AC 50Hz 400V	1,1	3) 4)
			Frequency 60 Hz				
	class 2	170 ÷ 850	TBG 85 P	17485410	3N AC 60Hz 380V	1,1	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

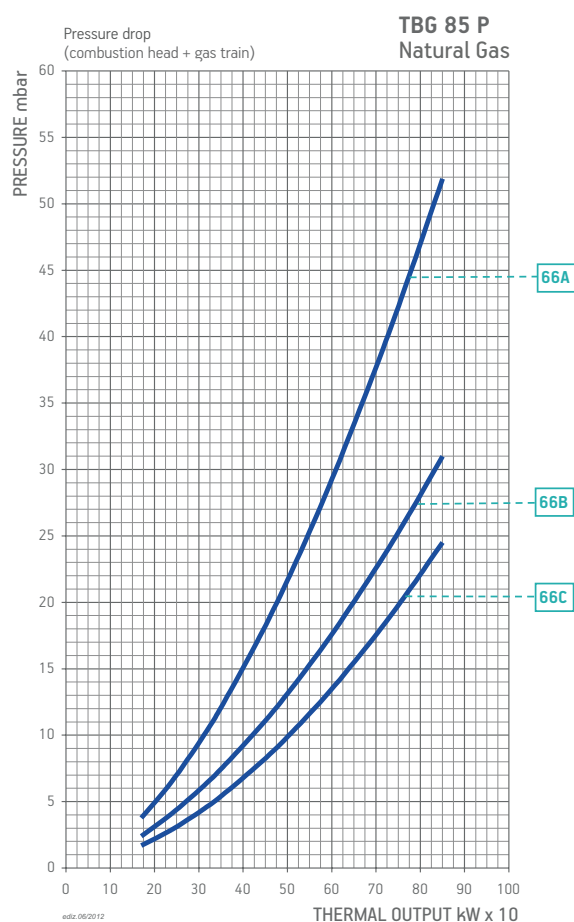
GAS BURNERS ACCESSORIES

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.

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.		
TBG 85 P	Natural gas	66A	CE/EXP	360		19990512	Included	96000032	-	B2	
					CTV	19990512	Included	96000032	98000101	B2	12)
		66B	CE/EXP	360		19990513	Included	96000007	-	B2	
					CTV	19990513	Included	96000007	98000101	B2	12)
		66C	CE/EXP	360		19990514	Included	-	-	B2	
					CTV	19990514	Included	-	98000101	B2	12)

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.		
TBG 85 P	LPG	CE/EXP	360		19990513	Included	96000007	-	98000357	B2	
				CTV	19990513	Included	96000007	98000101	98000357	B2	12)

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

NOTES

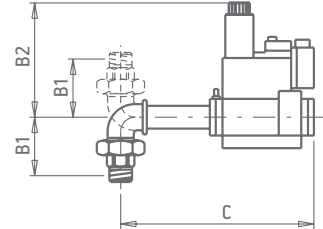
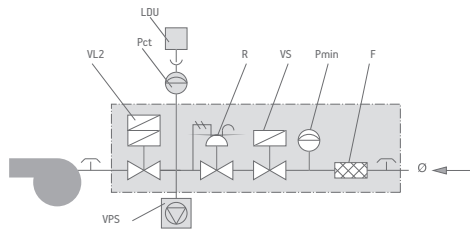
12 Valve tightness control not required by EN676.

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 kg
	F	LDU	Pct	Pmin	R	VL2	VPS	VS	Ø	B1	B2	C	L x P x H	
19990512 (MB... 412 - 1"1/4)	●			●	●	●	■	●	1"1/4	95	260	410	300 x 210 x 300	8
19990513 (MB... 415 - 1"1/2)	●			●	●	●	■	●	1"1/2	103	270	500	460 x 250 x 460	11
19990514 (MB... 420 - 2")	●			●	●	●	■	●	2"	114	330	500	520 x 410 x 410	13

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 regualtor.
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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