



GAS BURNERS TBG 900 MC - ME



baltur
Energy for People

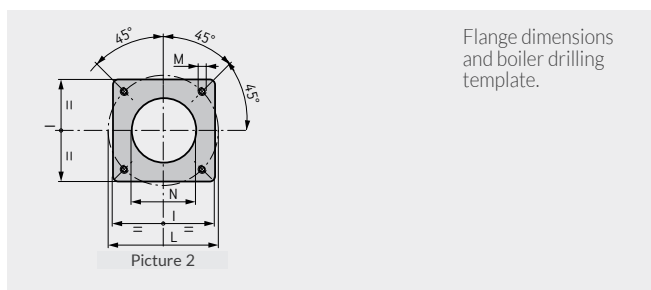
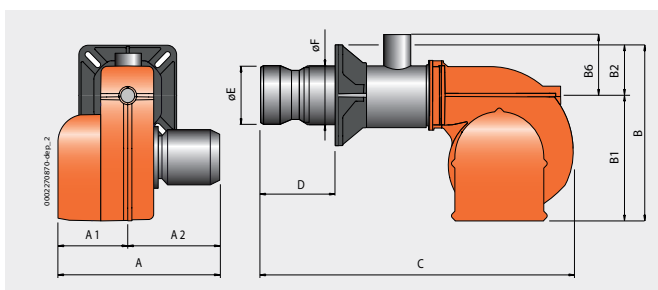
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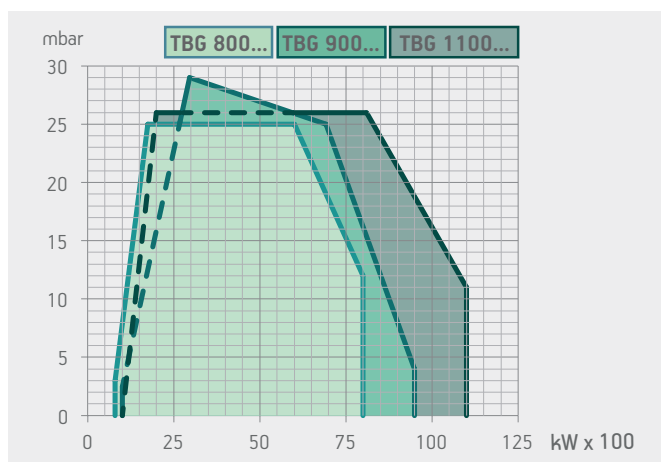
АНКАС

**Gas burner compliant with European standard EN676. Operation:**

	TBG 900 MC	TBG 900 ME
	mechanical two-stage progressive	electronic modulation
P.I.D. controller and signal receiver (0÷10V / 4÷20 mA) integrated in burner control panel	optional	optional
Modulation ratio:	1:9	1:9
Low NOx and CO emissions gas burner according to European standard EN676:	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	•	•
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
Fully closing air damper on shutdown to avoid loss of heat through the chimney	•	•
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 and maximum pressure switch, pressure regulator and gas filter	•	•
Fail proof connectors for burner/gas train connection	•	•
Gas train outlet:	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

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	L mm	M mm	N mm	Pic.
TBG 900 MC	1230	570	660	1030	740	290	310	1950	640	426	432	520	594	M20	462	2
TBG 900 ME	1230	570	660	1030	740	290	310	1950	640	426	432	520	594	M20	462	2



Model	Size of packaging			Weight kg
	L	P	H	
	mm			
TBG 900 MC	1950	1510	1210	460
TBG 900 ME	1950	1510	1210	460

	Emissions class	Thermal output kW	Model	Part no.	Electrical supply kW	Motor	Note
Frequency 50 Hz							
	class 2	1000 ÷ 9500	TBG 900 MC	67430010	3N AC 50Hz 400V	15,0	4)
	class 2	1000 ÷ 9500	TBG 900 ME	67420010	3N AC 50Hz 400V	15,0	4)
	class 2	1000 ÷ 9500	TBG 900 ME V	6 7420015	3N AC 50Hz 400V	15,0	4)
	class 2	1000 ÷ 9500	TBG 900 ME V O2	6 7420016	3N AC 50Hz 400V	15,0	4)
	class 2	1000 ÷ 9500	TBG 900 ME V CO	6 7420017	3N AC 50Hz 400V	15,0	4)
Frequency 60 Hz							
	class 2	1000 ÷ 9500	TBG 900 MC	67435410	3N AC 60Hz 380V	18,5	4)
	class 2	1000 ÷ 9500	TBG 900 ME	67425410	3N AC 60Hz 380V	18,5	4)
	class 2	1000 ÷ 9500	TBG 900 ME V	6 7425415	3N AC 60Hz 380V	18,5	4)
	class 2	1000 ÷ 9500	TBG 900 ME V O2	on request	3N AC 60Hz 380V	18,5	4)
	class 2	1000 ÷ 9500	TBG 900 ME V CO	on request	3N AC 60Hz 380V	18,5	4)

MODULATING MODE

DESCRIPTION	PART NO.
TBG 900 MC: modulation kit	98000055
TBG 900 ME: modulation kit	98000059
Modulating probe (see Burners Catalogue)	

ACCESSORIES AVAILABLE ON REQUEST

DESCRIPTION	PART NO.
Soundproof burner cover (see Burners Catalogue)	97980058

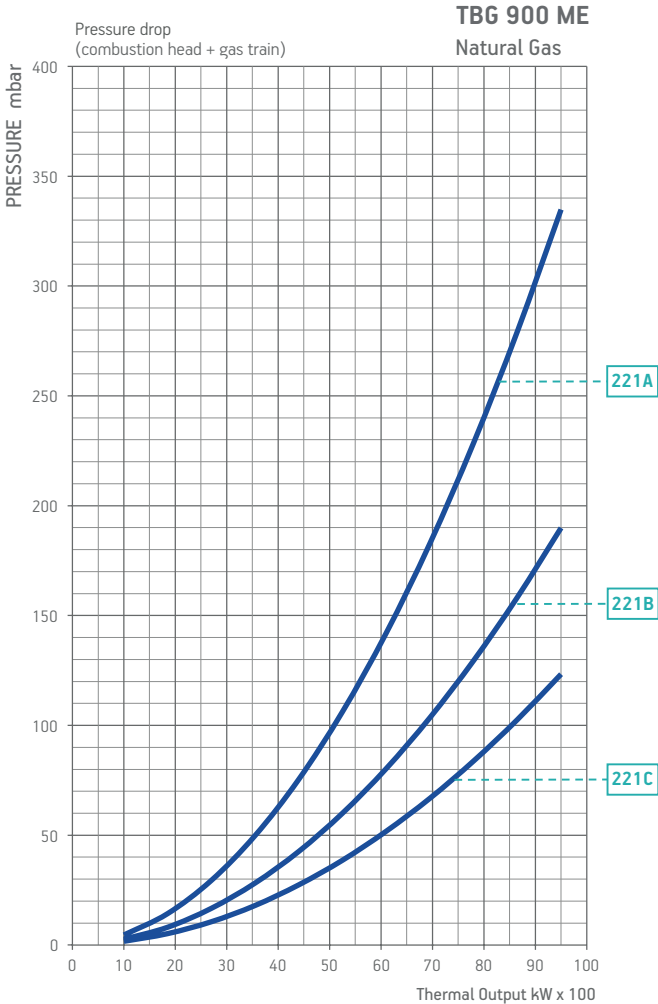
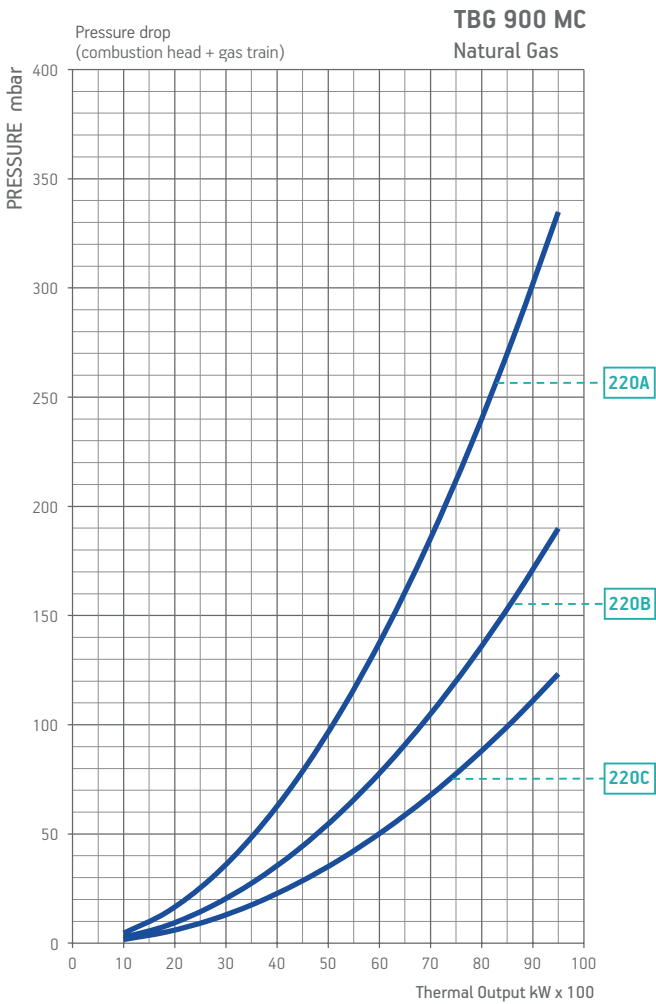
GAS BURNERS ACCESSORIES

Boiler coupling kit.

NOTES

- 4 Equipped with automatic air closure device.
 Net calorific value at reference conditions of 0°C, 1013mbar:
 Natural gas: $H_i = 35,80 \text{ MJ/m}^3 = 8550 \text{ kcal/m}^3$,
 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.	Note
						Part no.	Part no.	Part no.	Part no.		
TBG 900 MC	Natural gas	220A	CE/EXP	500	CTV	19990600	Included	-	Included	D8	
		220B	CE/EXP	500	CTV	19990601	Included	-	Included	D8	
		220C	CE/EXP	500	CTV	19990602	Included	-	Included	D8	
TBG 900 ME/ME V	Natural gas	221A	CE/EXP	500	CTV	19990542	Included	-	Included	D4	
TBG 900 ME V O2		221B	CE/EXP	500	CTV	19990543	Included	-	Included	D4	
TBG 900 ME V CO		221C	CE/EXP	500	CTV	19990544	Included	-	Included	D4	

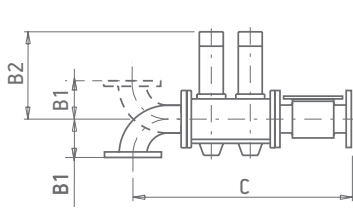
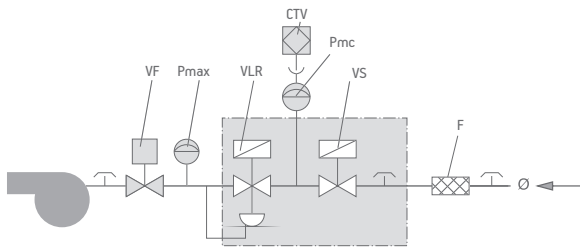
To choose the correct gas train please refer to the information on page 17.
For information on the structure, composition, and size of the gas train please refer to the diagrams on page 256.

NOTE

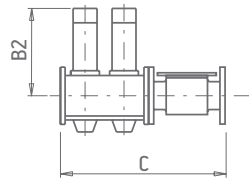
CTV Gas train with Valve Tightness Control.
** Maximum gas inlet pressure at pressure regulator.

GAS TRAIN STRUCTURE AND COMPOSITION

D4



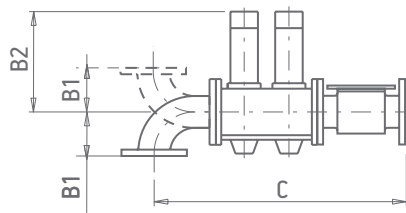
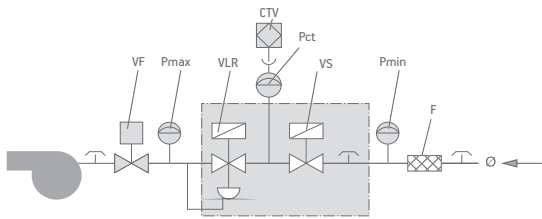
Pic. 1



Pic. 2

Gas train Part no.	Position								Gas train dimensions mm			Size of packaging mm L x P x H	Weight kg	Pic.
	CTV	F	Pmax	Pmc	VF	VLR	VS	Ø	B1	B2	C			
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

D8



Gas train Part no.	Position									Gas train dimensions mm			Size of packaging mm L x P x H	Weight kg
	CTV	F	Pct	Pmax	Pmin	VF	VLR	VS	Ø	B1	B2	C		
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

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.