

07 | 2020





SERIES BTG

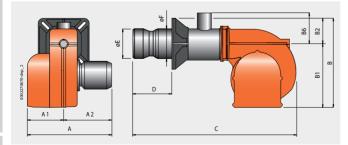
CONFORM TO: GAS DIRECTIVE 2009/142/CE | E.M.C. DIRECTIVE 2014/30/UE | L.V. DIRECTIVE 2014/35/UE | MACHINERY DIRECTIVE 2006/42/CE | COMMISSION REGULATION ErP 2013/811/UE AND ErP 2013/813/UE | REFERENCE STANDARD EN676.

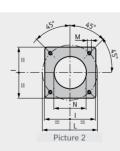




BTG 28 ME

	BTG 28	BTG 28 P	BTG 28 ME
Gas burner compliant with European standard EN676. Operation:	single-stage	two-stage	electronic two- stage progressive
Continuous modulation operation by installing P.I.D. controller in the control panel (to be ordered separately with modulation probe).			٠
Modulation ratio:			1:3
Low NOx and CO emissions gas burner according to European standard EN676:	class 2	class 2	class 2
Adjusting the combustion head.	٠	٠	٠
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.	٠	•	٠
Combustion air intake with butterfly valve. Air flow adjustment:	manual	electric servomotor	electric servomotor
Fully closing air damper on shutdown to avoid loss of heat through the chimney.	٠	•	٠
CE version gas train is complete with operation and safety valve with electromagnetic drive, minimum pressure switch, pressure regulator and gas filter.	٠	٠	
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.			٠
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.	•	•	•
Control panel equipped either with display showing the working process and with the keyboard for the burner adjustment.			٠
Electric protection rating:	IP40	IP40	IP40
Sound-proof plastic protective cover.	٠	•	•





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	l mm	L mm	M mm	N mm	Pic.
BTG 28	303	158	145	368	275	93	70	695	150 ÷ 300	135	114	185	170 ÷ 210	M10	145	2
BTG 28 P	303	158	145	368	275	93	70	695	150 ÷ 300	135	114	185	170 ÷ 210	M10	145	2
BTG 28 ME	303	158	145	368	275	93	70	695	150 ÷ 300	135	114	185	170 ÷ 210	M10	145	2

SERIES **BTG**

mbar			BTG 28	BTG 28 P/	ME
7					
6					
5					
4					
3					
2					
1					
0					
50	100	150	200	250	300 kW

Model	Size L	e of packa P mm	ging H	Weight kg
BTG 28	780	370	410	18
BTG 28 P	780	370	410	18
BTG 28 ME	780	370	410	18

Emissions class	Thermal output kW	Model	Part no.	Electrical supply	Motor kW	Notes
		Frequency 50 Hz				
class 2	100 ÷ 280	BTG 28	17140010	1N AC 50Hz 230V	0,18	1)
class 2	80 ÷ 280	BTG 28 P	17150010	1N AC 50Hz 230V	0,18	1)
class 2	80 ÷ 280	BTG 28 ME	17160020	1N AC 50Hz 230V	0,18	4)
		Frequency 60 Hz				
class 2	100 ÷ 280	BTG 28	17145410	1N AC 60Hz 220V	0,25	1)
class 2	80 ÷ 280	BTG 28 P	17155410	1N AC 60Hz 220V	0,25	1)
class 2	80 ÷ 280	BTG 28 ME	17165420	1N AC 60Hz 220V	0,25	4)

MODULATING MODE	
DESCRIPTION	PART NO.
BTG 28 ME: modulation kit	98000059
BTG 28 ME: modulating probe (see page 294 Burners Catalogue)	

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,

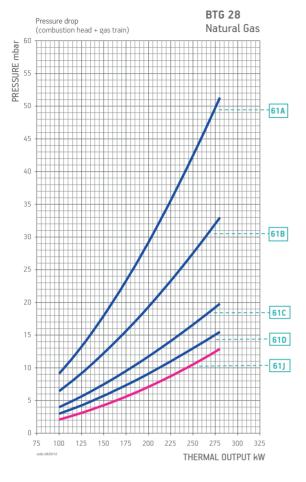
LPG: Hi = 92 MJ/m³ = 22000 kcal/m³.

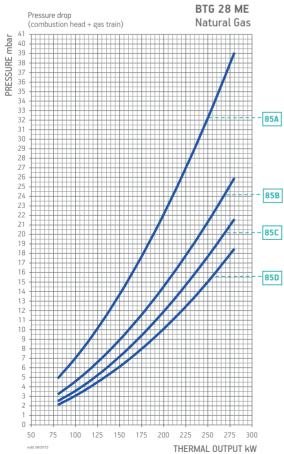
For different type of gas and pressure values, please get in contact with our commercial department.

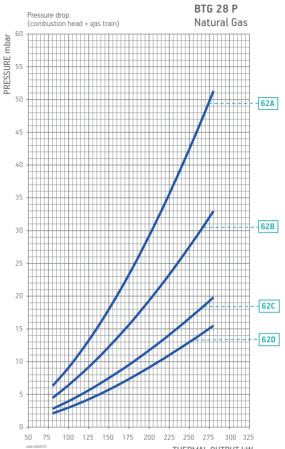
CE0085

SERIES BTG

BURNER/GAS TRAIN MATCH









SERIES BTG

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
moder	line	graph		mbai		Part no.	Part no.	Part no.	Part no.		
		61A	CE/EXP	360		19990002	Included	-	-	M2	
		AIO	CE/EAP	300	CTV	19990002	Included	-	98000100	M2	12)
		61B	CE/EXP	360		19990005	Included	-	-	M2	
		OID	CE/EXP	300	CTV	19990005	Included	-	98000100	M2	12)
BTG 28	Natural gas	61C	CE/EXP	360		19990008	Included	96000031	-	M2	
	843	010	CE/EAP	300	CTV	19990008	Included	96000031	98000100	M2	12)
		61D	CE/EXP	360		19990166	Included	96000031	-	M2	
		010	CE/EAP	300	CTV	19990166	Included	96000031	98000100	M2	12)
		61J	EXP	40		19990134	-	96000028	-	ME1	
		62A	CE/EXP	360		19990016	Included	-	-	B2	
		OZA	CE/EAP	300	CTV	19990016	Included	-	98000100	B2	12)
		62B	CE/EXP	360		19990020	Included	-	-	B2	
BTG 28 P	Natural	OZD	CE/EAP	300	CTV	19990020	Included	-	98000100	B2	12)
DIGZOP	gas	62C	CE/EXP	360		19990024	Included	96000031	-	B2	
		OZC	CE/EAP	300	CTV	19990024	Included	96000031	98000100	B2	12)
		62D	CE/EXP	360		19990168	Included	96000031	-	B2	
		020	CE/EAP	300	CTV	19990168	Included	96000031	98000100	B2	12)
		85A	CE/EXP	360	CTV	19990573	Included	-	Included	D2	
BTG 28 ME	Natural	85B	CE/EXP	360	CTV	19990574	Included	-	Included	D2	
DIGZOME	gas	85C	CE/EXP	360	CTV	19990575	Included	-	Included	D2	
		85D	CE/EXP	360	CTV	19990576	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
mouer	line		IIIDai		Part no.	Part no.	Part no.	Part no.		
BTG 28	LPG	CE/EXP	2/0		19990002	Included	-	-	M2	
BIGZO	LPG	CE/EAP	360	CTV	19990002	Included	-	98000100	M2	12)
BTG 28 P		CE/EXP	2/0		19990016	Included	-	-	B2	
BIGZOP	LPG	CE/EAP	360	CTV	19990016	Included	-	98000100	B2	12)
BTG 28 ME	LPG	CE/EXP	360	CTV	19990573	Included	-	Included	D2	

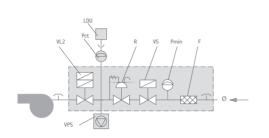
To choose the correct gas train please refer to the information on page 20 Burners Catalogue.

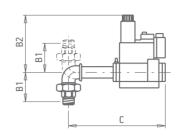
NOTES

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

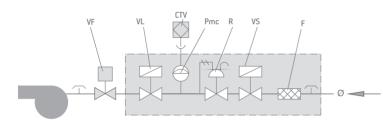
GAS

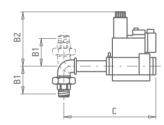




Gas train Part no.				Р	ositio	on			Gas tr	ain dime mm	ensions	Size of packaging mm	Weight	
	F	LDU	Pct	Pmin	R	VL2	VPS	VS	Ø	B1	B2	С	LxPxH	kg
19990016 (MB 405 - 1/2")	۲			•	٠	•		٠	3/4"	72	210	204	300 x 210 x 300	5
19990020 (MB 407 - 3/4")	۲			۲	•	٠		•	3/4"	72	210	204	300 x 210 x 300	5
19990024 (MB 410 - 1")	۲			٠	•	٠		٠	1"1/4	95	260	249	300 x 210 x 300	8
19990168 (MB 412 - 1"1/4)	٠			٠	•	٠		•	1"1/4	95	260	249	300 x 210 x 300	8

D2





Gas train Part no.				Po	osition		Gas trai mensio mm		Size of packaging mm	Weight			
	СТУ	F	Pmc	R	VF	VL	VS	Ø	B1	B2	С	LxPxH	kg
19990573 (MB 407 - 3/4")	•	٠	•	٠	DN20	٠	•	3/4"	72	160	305	400 x 300 x 280	12
19990574 (MB 410 - 1")	٠	٠	٠	٠	DN20	•	•	1"1/4	95	160	355	400 x 300 x 280	15
19990575 (MB 412 - 1"1/4)	٠	•	٠	٠	DN20	•	٠	1"1/4	95	160	355	400 x 300 x 280	15
19990576 (MB 415 - 1"1/2)	٠	•	•	•	DN20	•	•	1"1/2	103	170	445	520 x 410 x 410	18

CTV Valve tightness control. **F** Filter.

- LDU LDU valve tightness control.
- Pct Pressure switch for gas control. PmaxMaximum pressure switch. Pmc Minimum and control pressure switch gas leaks.
- Pmin Minimum pressure switch. Pressure regulator. Pressure regulator with filter. R RF

Pressure regulator with filter for pilot gas train. RFP

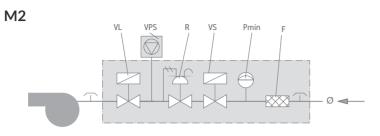
- RM Manual flow rate regulator.
- RP VF
 - Pneumatic regualtor. Regulator throttle valve.
- Operating valve. Two-stage operating valve. Operating pilot valve. VL
- VL2
- VLP
- VLR Operating valve with pressure regulator.

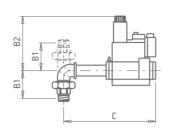
- VP Pilot valve.VPS valve tightness control.
- VS Safety valve.
- VSP
- Ø õ1
- Safety valve. Safety pilot valve. Gas train diameter. Main gas train diameter. Pilot gas train diameter. ø2

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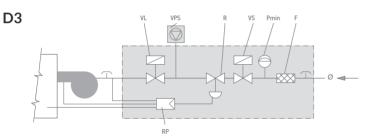
- As standard. As standard for burners with an output of more than 1200 kW, on request for burners with an output of less than 1200 kW. On request.
- Mounted on burner. ٠

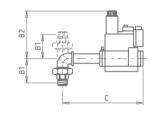
GAS TRAIN STRUCTURE AND COMPOSITION





Gas train Part no.				Positi	on				Gas trai mensio mm		Size of packaging mm	Weight
	F	Pmin	R	VL	VPS	VS	ø	B1	B2	С	L x P x H	kg
19990002 (MB 405 - 1/2")	•	•	•	٠		•	3/4"	72	140	204	310 x 210 x 250	4
19990005 (MB 407 - 3/4")	٠	•	٠	٠		٠	3/4"	72	140	204	310 x 210 x 250	4
19990008 (MB 410 - 1")	•	•	٠	٠		•	1"1/4	95	160	249	310 x 210 x 250	7
19990166 (MB 412 - 1"1/4)	٠	•	٠	٠		•	1"1/4	95	160	249	310 x 210 x 250	7





Gas train Part no.			Pos	ition				Gas train mensior mm		Size of packaging mm	Weight		
	F	Pmin	R	RP	VL	VPS	VS	Ø	B1	B2	С	LxPxH	kg
19990440 (MB 407 - 3/4")	٠	•	٠	•	•		•	3/4"	72	160	455	540 x 300 x 320	6
19990441 (MB 412 - 1"1/4)	٠	•	٠	٠	٠		•	1"1/4	95	175	500	520 x 410 x 410	9
19990447 (MB 407 - 3/4")	•	٠	•	•	•		•	3/4"	72	160	455	540 x 300 x 320	6



Gas train Part no.	Position			Gas train dimensions mm		Size of packaging mm	Weight	
	Pmin	VL	ø	B1	B2	С	LxPxH	kg
19990134	•	1"	1"	83	177	160	240 x 220 x 210	4

- **CTV** Valve tightness control. **F** Filter.
- LDU LDU valve tightness control.
- Pct Pressure switch for gas control. PmaxMaximum pressure switch. Pmc Minimum and control pressure
- switch gas leaks.
- Pmin Minimum pressure switch. R RF
- Pressure regulator. Pressure regulator with filter.
- Pressure regulator with filter for pilot gas train. RFP
- Manual flow rate regulator. Pneumatic regulator. Regulator throttle valve. RM
- RP VF
- VL Operating valve. VL2 Two-stage operating valve. VLP Operating pilot valve. VLR Operating valve with pressure
- regulator.
- VP Pilot valve.VPS valve tightness control.
- VS Safety valve.
- VSP
- Ø
- Safety valve. Safety pilot valve. Gas train diameter. Main gas train diameter. Pilot gas train diameter. õ1 ø2

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- 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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