

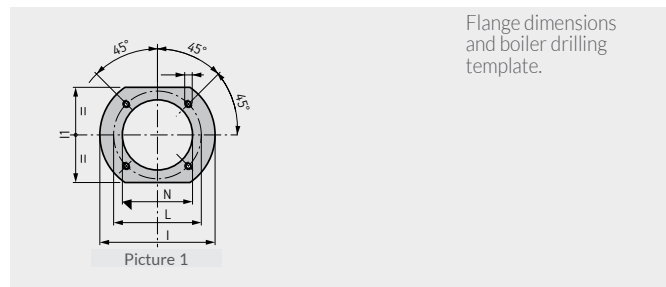
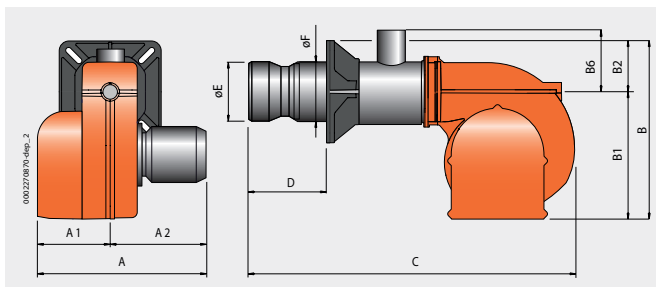


GAS BURNERS
BTG 6 - 6 P



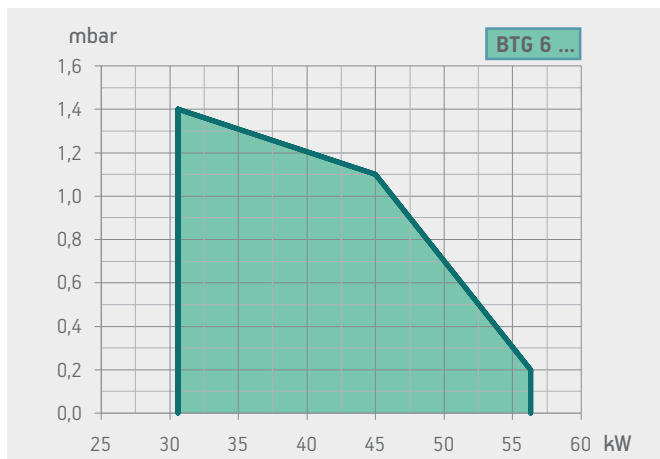


| | BTG 6 | BTG 6 P |
|--|---------------------|---------------------|
| Gas burner compliant with European standard EN676. Operation: | single-stage | two-stage |
| Low NOx and CO emissions gas burner according to European standard EN676: | class 2 | class 2 |
| Adjusting the combustion head. | • | • |
| Maintenance facilitated by the possibility of removing the mixing unit without having to remove the burner from the boiler. | • | • |
| 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 |
| 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 |
| Flame detection by ionisation electrode with connector for microamperometer. | • | • |
| Electric protection rating: | 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 6 | 246 | 123 | 123 | 289 | 219 | 70 | 53 | 410 | 50 ÷ 105 | 90 | 90 | 170 | 140 | 130 ÷ 155 | M8 | 95 | 1 |
| BTG 6 P | 246 | 123 | 123 | 289 | 219 | 70 | 53 | 410 | 50 ÷ 105 | 90 | 90 | 170 | 140 | 130 ÷ 155 | M8 | 95 | 1 |



| Model | Size of packaging | | | Weight kg |
|---------|-------------------|-----|-----|--------------|
| | L | P | H | |
| BTG 6 | 560 | 310 | 350 | 12 |
| BTG 6 P | 560 | 310 | 350 | 12 |

GAS

| | Emissions class | Thermal output kW | Model | Part no. | Electrical supply | Motor kW | Notes |
|-----------------|-----------------|-------------------|----------------|-----------------|-------------------|----------|-------|
| Frequency 50 Hz | | | | | | | |
| | class 2 | 30,6 ÷ 56,3 | BTG 6 | 17040010 | 1N AC 50Hz 230V | 0,1 | 1) |
| | class 2 | 30,6 ÷ 56,3 | BTG 6 P | 17050010 | 1N AC 50Hz 230V | 0,1 | 1) |
| Frequency 60 Hz | | | | | | | |
| | class 2 | 30,6 ÷ 56,3 | BTG 6 | 17040010 | 1N AC 60Hz 220V | 0,1 | 1) |
| | class 2 | 30,6 ÷ 56,3 | BTG 6 P | 17050010 | 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:

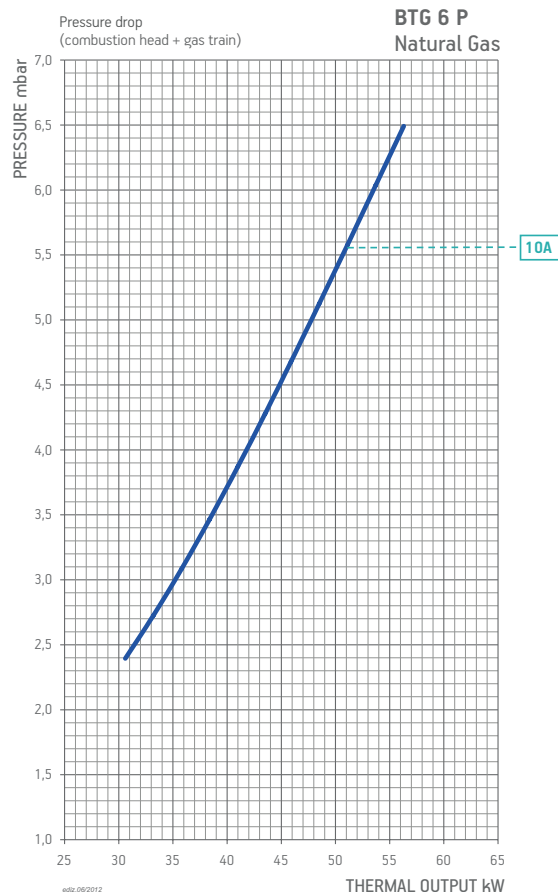
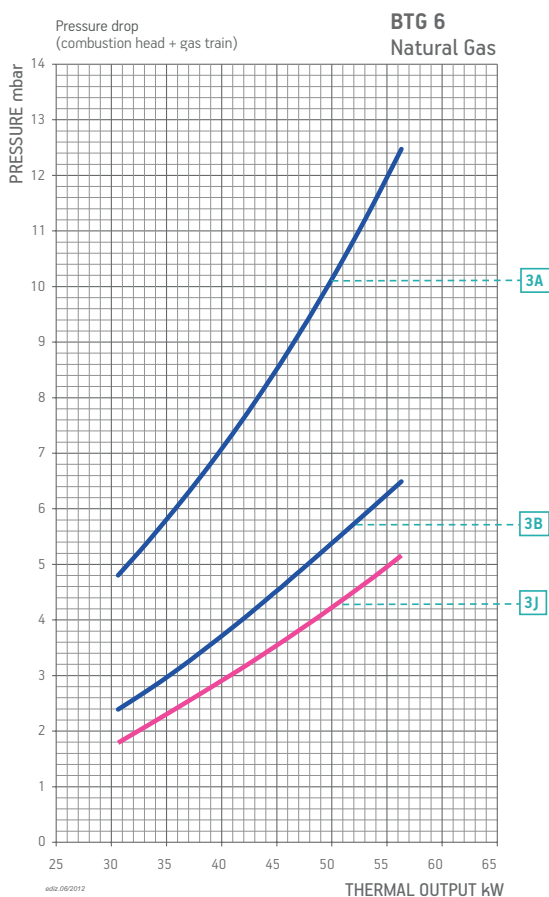
Natural Gas: $Hi = 35,80 \text{ MJ/m}^3 = 8550 \text{ kcal/m}^3$.

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 6 | Natural gas | 3A | CE/EXP | 65 | CTV | 19990466 | Included | 96000001 | - | M2 | |
| | | 3B | CE/EXP | 360 | | 19990002 | Included | - | - | M2 | |
| | | 3J | EXP | 40 | 19990235 | - | - | 98000100 | M2 | 12) | |
| BTG 6 P | Natural gas | 10A | CE/EXP | 360 | CTV | 19990016 | Included | - | - | B2 | |
| | | | | | | 19990016 | Included | - | 98000100 | 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 | Pic. | Notes |
|--------------|----------|---------|---------------|-----------|-----------|------------------------------------|--------------------------|-----------------------------|------|-------|
| | | | | | Part no. | Part no. | Part no. | Part no. | | |
| BTG 6 | LPG | CE | 65 | CTV | 19990466 | Included | 96000001 | - | M2 | |
| | | EXP | 40 | | 19990235 | - | - | - | ME1 | |
| BTG 6 P | LPG | CE/EXP | 360 | CTV | 19990016 | Included | - | - | B2 | |
| | | | | | 19990016 | Included | - | 98000100 | B2 | 12) |

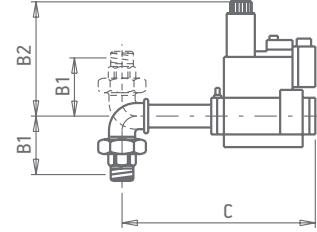
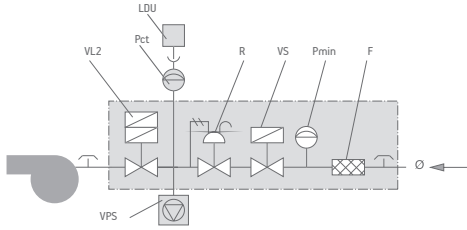
To choose the correct gas train please refer to the information on Burners Catalogue.

NOTES

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

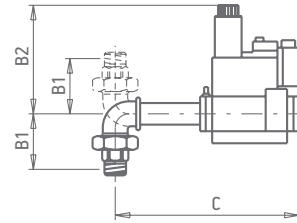
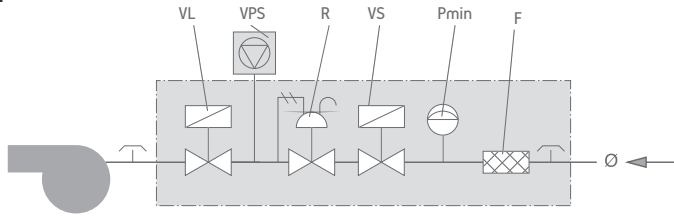
GAS TRAIN STRUCTURE AND COMPOSITION

B2



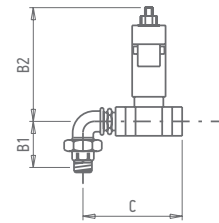
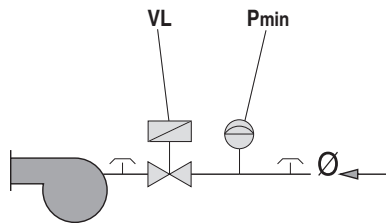
| Gas train Part no. | Position | | | | | | | | | Gas train dimensions mm | | | Size of packaging mm | Weight |
|-----------------------------|----------|-----|-----|------|---|-----|-----|----|------|-------------------------|-----|-----|----------------------|--------|
| | F | LDU | Pct | Pmin | R | 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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