



# GAS BURNERS TBG 360 MC-ME



**baltur**  
Energy for People

ООО Промэлектроника  
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АНКАС

kW **500 - 3600**SERIES **TBG**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 | REFERENCE STANDARD EN676.

CE 0085



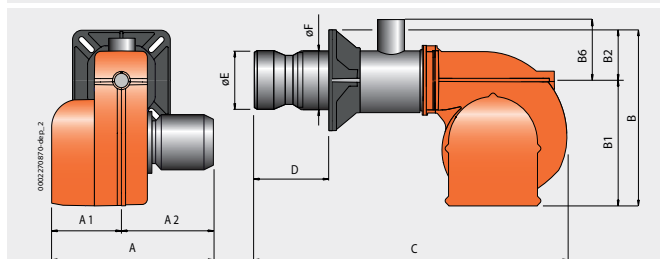
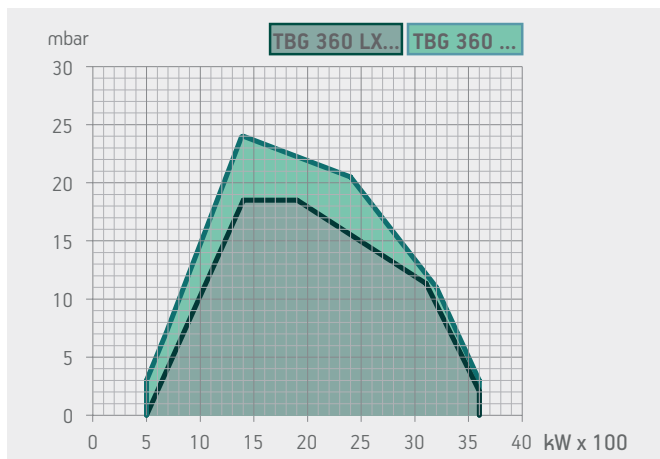
TBG 360 MC



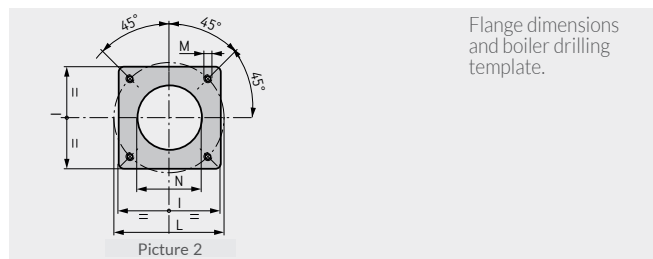
TBG 360 ME

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

|                                                                                                                                                                                                    | TBG 360 MC                       | TBG 360 ME                       | TBG 360 ME V          | TBG 360 ME V O2       | TBG 360 ME V CO       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------|-----------------------|-----------------------|-----------------------|
|                                                                                                                                                                                                    | mechanical two-stage progressive | electronic two-stage progressive | modulating electronic | modulating electronic | modulating electronic |
| Continuous modulation operation by installing P.I.D. controller in the control panel (to be ordered separately with modulation probe).                                                             | •                                | •                                |                       |                       |                       |
| Modulation ratio:                                                                                                                                                                                  | 1:7                              | 1:7                              | 1:7                   | 1:7                   | 1:7                   |
| Low NOx and CO emissions gas burner according to European standard EN676:                                                                                                                          | class 2                          | class 2                          | class 2               | 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.                                                                        | •                                | •                                | •                     | •                     | •                     |
| 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                   | electric servomotor              | electric servomotor   | electric servomotor   | 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.                                                                                                                                       | •                                | •                                | •                     | •                     | •                     |
| Adjustment of fan revolutions according to working stage by means of a frequency converter in order to reduce noise and electric consumption.                                                      |                                  |                                  | •                     | •                     | •                     |
| Residual oxygen (O <sub>2</sub> ) monitoring in the fumes in order to maintain an optimal air/fuel ratio and ensure increased performance.                                                         |                                  |                                  |                       | •                     |                       |
| Residual oxygen (O <sub>2</sub> ) and carbon monoxide (CO) and monitoring of oxidizing components (H <sub>2</sub> ) in fumes to ensure increased performance and less atmospheric pollution.       |                                  |                                  |                       |                       | •                     |
| 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:                                                                                                                                                                                  | up                               | up/down                          | up/down               | up/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:                                                                                                                                                                        | IP44                             | IP40                             | IP40                  | IP40                  | IP40                  |



| Model           | Size of packaging |      |     | Weight<br>kg |
|-----------------|-------------------|------|-----|--------------|
|                 | L                 | P    | H   |              |
|                 | mm                |      |     |              |
| TBG 360 MC      | 1070              | 870  | 810 | 118          |
| TBG 360 ME      | 1070              | 870  | 810 | 118          |
| TBG 360 ME V    | 1730              | 1030 | 880 | 135          |
| TBG 360 ME V O2 | 1730              | 1030 | 880 | 147          |
| TBG 360 ME V CO | 1730              | 1030 | 880 | 159          |



| Model           | A<br>mm | A1<br>mm | A2<br>mm | B<br>mm | B1<br>mm | B2<br>mm | B6<br>mm | C<br>mm | D<br>mm   | E<br>mm | F<br>mm | I<br>mm | L<br>mm   | M<br>mm | N<br>mm | Pic. |
|-----------------|---------|----------|----------|---------|----------|----------|----------|---------|-----------|---------|---------|---------|-----------|---------|---------|------|
| TBG 360 MC      | 820     | 400      | 420      | 610     | 390      | 220      | 200      | 1250    | 200 ÷ 450 | 270     | 219     | 320     | 310 ÷ 370 | M12     | 275     | 2    |
| TBG 360 ME      | 820     | 400      | 420      | 590     | 390      | 160      | 200      | 1350    | 200 ÷ 450 | 270     | 219     | 320     | 310 ÷ 370 | M12     | 275     | 2    |
| TBG 360 ME V    | 850     | 400      | 450      | 590     | 390      | 160      | 200      | 1350    | 200 ÷ 450 | 270     | 219     | 320     | 310 ÷ 370 | M12     | 275     | 2    |
| TBG 360 ME V O2 | 850     | 400      | 450      | 590     | 390      | 160      | 200      | 1350    | 200 ÷ 450 | 270     | 219     | 320     | 310 ÷ 370 | M12     | 275     | 2    |
| TBG 360 ME V CO | 850     | 400      | 450      | 590     | 390      | 160      | 200      | 1350    | 200 ÷ 450 | 270     | 219     | 320     | 310 ÷ 370 | M12     | 275     | 2    |

|                 |  | O <sub>2</sub> | CO | Emissions class | Thermal output kW | Model                  | Part no.          | Electrical supply | Motor kW | Note  |
|-----------------|--|----------------|----|-----------------|-------------------|------------------------|-------------------|-------------------|----------|-------|
| Frequency 50 Hz |  |                |    |                 |                   |                        |                   |                   |          |       |
|                 |  |                |    | class 2         | 500 ÷ 3600        | <b>TBG 360 MC</b>      | <b>17790010</b>   | 3N AC 50Hz 400V   | 7,5      | 3) 4) |
|                 |  |                |    | class 2         | 500 ÷ 3600        | <b>TBG 360 ME</b>      | <b>17800010</b>   | 3N AC 50Hz 400V   | 7,5      | 3) 4) |
|                 |  |                |    | class 2         | 500 ÷ 3600        | <b>TBG 360 ME V</b>    | <b>17800015</b>   | 3N AC 50Hz 400V   | 7,5      | 3) 4) |
|                 |  |                |    | class 2         | 500 ÷ 3600        | <b>TBG 360 ME V O2</b> | <b>17800016</b>   | 3N AC 50Hz 400V   | 7,5      | 3) 4) |
|                 |  |                |    | class 2         | 500 ÷ 3600        | <b>TBG 360 ME V CO</b> | <b>17800017</b>   | 3N AC 50Hz 400V   | 7,5      | 3) 4) |
| Frequency 60 Hz |  |                |    |                 |                   |                        |                   |                   |          |       |
|                 |  |                |    | class 2         | 500 ÷ 3600        | <b>TBG 360 MC</b>      | <b>17795410</b>   | 3N AC 60Hz 380V   | 9,0      | 3) 4) |
|                 |  |                |    | class 2         | 500 ÷ 3600        | <b>TBG 360 ME</b>      | <b>17805410</b>   | 3N AC 60Hz 380V   | 9,0      | 3) 4) |
|                 |  |                |    | class 2         | 500 ÷ 3600        | <b>TBG 360 ME V</b>    | <b>on request</b> | 3N AC 60Hz 380V   | 9,0      | 3) 4) |
|                 |  |                |    | class 2         | 500 ÷ 3600        | <b>TBG 360 ME V O2</b> | <b>on request</b> | 3N AC 60Hz 380V   | 9,0      | 3) 4) |
|                 |  |                |    | class 2         | 500 ÷ 3600        | <b>TBG 360 ME V CO</b> | <b>on request</b> | 3N AC 60Hz 380V   | 9,0      | 3) 4) |

## TO COMPLETE THE BURNER

## DESCRIPTION

TBG 360 ME V: modulating probe for LCM 100

## MODULATING MODE

| DESCRIPTION                         | PART NO. |
|-------------------------------------|----------|
| TBG 360 MC: modulation kit          | 98000057 |
| TBG 360 ME: modulation kit          | 98000059 |
| TBG 360 MC/360 ME: modulating probe |          |

## NOTES

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/m<sup>3</sup> = 8550 kcal/m<sup>3</sup>,LPG: Hi = 92 MJ/m<sup>3</sup> = 22000 kcal/m<sup>3</sup>.

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

## ACCESSORIES AVAILABLE ON REQUEST

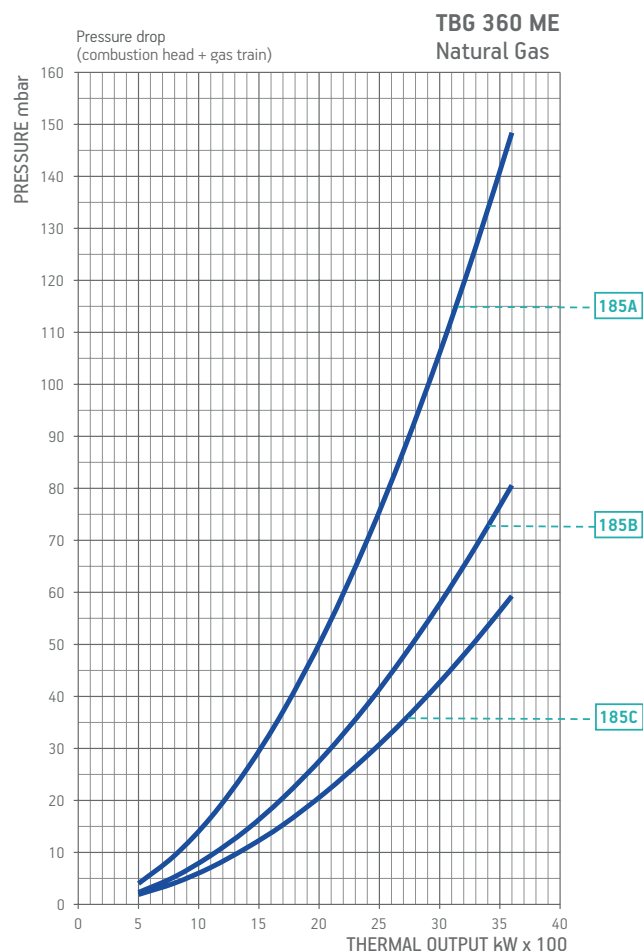
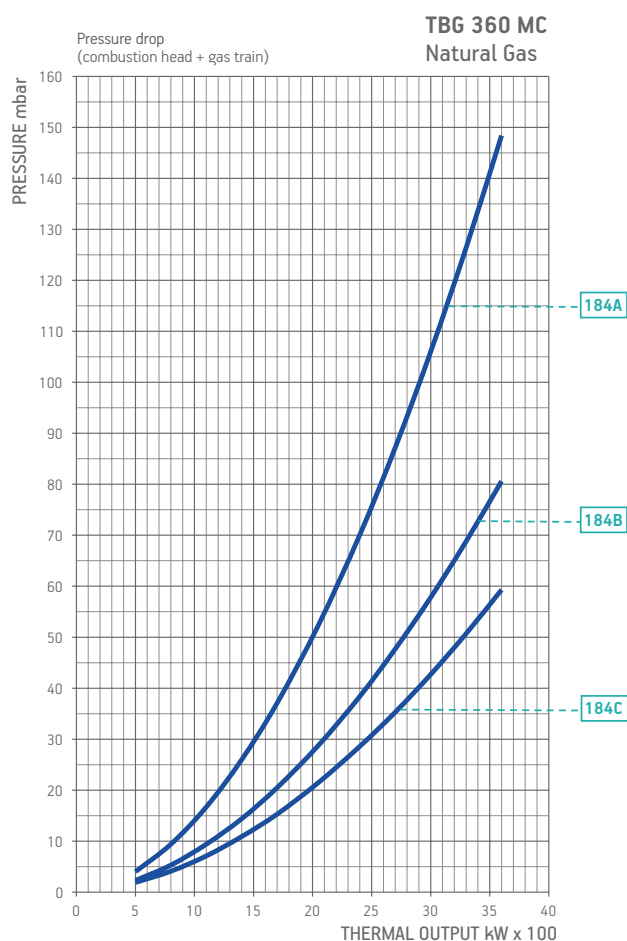
| DESCRIPTION             | PART NO. |
|-------------------------|----------|
| Soundproof burner cover | 97980053 |

## GAS BURNERS ACCESSORIES

Boiler coupling kit, plug for wiring.

## 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.                    |      |       |
| TBG 360 MC      | Natural gas | 184A           | CE      | 500           | CTV       | 19990550  | Included                           | -                        | 98000102                    | B7   | 11)   |
|                 |             |                | EXP     | 500           | CTV       | 19990550  | Included                           | -                        | -                           | BE7  |       |
|                 |             | 184B           | CE      | 500           | CTV       | 19990563  | Included                           | -                        | 98000101                    | B7   | 11)   |
|                 |             |                | EXP     | 500           | CTV       | 19990563  | Included                           | -                        | -                           | BE7  |       |
|                 |             | 184C           | CE      | 500           | CTV       | 19990564  | Included                           | -                        | 98000101                    | B7   | 11)   |
|                 |             |                | EXP     | 500           | CTV       | 19990564  | Included                           | -                        | -                           | BE7  |       |
| TBG 360 ME/ME V | Natural gas | 185A           | CE/EXP  | 500           | CTV       | 19990524  | Included                           | -                        | Included                    | D2   |       |
| TBG 360 ME V O2 |             | 185B           | CE/EXP  | 500           | CTV       | 19990525  | Included                           | -                        | Included                    | D2   |       |
| TBG 360 ME V CO |             | 185C           | CE/EXP  | 500           | CTV       | 19990526  | 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 | Kit LPG  | Pic. | Notes |
|-----------------|----------|---------|---------------|-----------|-----------|------------------------------------|--------------------------|-----------------------------|----------|------|-------|
|                 |          |         |               |           | Part no.  | Part no.                           | Part no.                 | Part no.                    | Part no. |      |       |
| TBG 360 MC      | LPG      | CE      | 500           | CTV       | 19990550  | Included                           | -                        | 98000102                    | 98000366 | B7   | 11)   |
|                 |          | EXP     | 500           | CTV       | 19990550  | Included                           | -                        | -                           | 98000366 | BE7  |       |
|                 |          |         |               |           | 19990550  | Included                           | -                        | 98000102                    | 98000366 | BE7  |       |
| TBG 360 ME/ME V | LPG      | CE/EXP  | 500           | CTV       | 19990524  | Included                           | -                        | Included                    | 98000366 | D2   |       |

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.



