Pillard LoNOxFlam™ G2
Gas burner, windbox version

Best Available Technique (according European standard) ensuring the lowest NOx emissions in gas firing

- Fitted for industrial water tubes boilers (front and tangential)
- Very low NOx and CO emissions (2010/75/UE Compliant in NG and DO firing)
- High thermal efficiency operation (very low excess air)
- All type of fuels fired : liquids (DO,HFO) and gaseous : NG, biogas, hydrogen, process gases
- No refractory quarl needed
The Pillard LoNOxflam™ G2 burner is Fives’ latest generation of GRC burner

Pillard LoNOxflam™ G2 has very low NOx properties for fuel gas (50 - 90mg/Nm³ - 3% O₂ dry), enabling between 50 and 75% NOx emissions reduction in heating plants, sugar plants, utility boilers and refineries.

**ULTIMATE AND PROVEN TECHNOLOGY**
The patented Pillard LoNOxFlam™ technology is based on internal Flue Gas Recirculation (FGR). It is described as the Best Available Technique (BAT) by the European Commission.

**EASY TO OPERATE**
The burner’s swirl and impulse are set according to the choice of combustion head which allows the flame shape to fit any furnace whilst maintaining a stable flame and a very low excess.

**OPTIMIZED UPTIME RATE**
Thanks to its ultimate design including no moving parts, the burner provides a high level of availability, ensuring safe operations and keeping the uptime rate as its best level.

### Key features

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<tr>
<th>Feature</th>
<th>Details</th>
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<tr>
<td><strong>Fuels</strong></td>
<td>Natural Gas, LPG, biogas, refinery gas, syngas, process gas up to 80% H₂, CO, diesel oil, heavy fuel oil</td>
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<td><strong>Combustion air temperature</strong></td>
<td>Up to 400°C</td>
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<td><strong>Burner pressure drop</strong></td>
<td>150 to 250 DaPa</td>
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<td><strong>Gas pressure</strong></td>
<td>1 to 2 barg ( ≤ 500 mb on demand)</td>
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<td><strong>Range of heat release</strong></td>
<td>6 to 120 MW per burner</td>
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<td><strong>Turn down ratio</strong></td>
<td>1 to 6 or more (on demand)</td>
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<td><strong>Excess air</strong></td>
<td>≤ 10% at MCR</td>
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### Main references

- **CPCU Paris (France)**: Heating plants - 9x170t/h Boilers, 62 burners
- **Sugar Plants (Tereos, Cristal Union, Saint Louis Sucre)**: 10 sites in France: 17 boilers, 49 burners 10 to 40MW each
- **Total Lacq (France)**: 2x100t/h Steam Boilers fitted with 8+4 burners
- **COFELY Velizy (France)**: 3 boilers (1x26.7 + 2x9.8 MW), 3x2 burners
- **Samsung (Corea)**: 20 boilers 10 to 40 t/h fitted with 9 to 35 MW burners
- **Kwebeast Shanghai (China)**: 2x70t/h Boiler fitted with 2x25MW burners (NG, H₂, CO firing)
- **Koweit Petroleum and BP in Rotterdam (NL)**: 2x100t/h Steam Boilers (2x4 burners)
- **Ruien and Awirs PowerStations (Belgium)**: 2x900t/h Boilers (2x12 burners of 71MW each)
- **Kadaka PowerStations (Estonia)**: 2x160t/h Boilers (2x3 burners of 40MW each)