

## Installation and operating instructions

### Application requirements

#### View port

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A view port to inspect burner flame is essential to inspect flame aspect. It is recommended to install the view port downstream the burner on the opposite side of the process air duct.

#### Required ancillary equipment

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Ensure that all required ancillary equipment for safe operation and correct performance of the LVDT/HC-pilot burner is installed, as described in the applicable local codes and/or process-related instructions. Proper adjustment of air- and gas pressures is essential for optimal operation of the burner.

#### Positioning of the LVDT/HC-pilotburner.

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The LVDT/HC-burner is designed to be used on AIRFLO® "HC", "LV", COMBUSTIFUME® and DELTA-TE™ burners. They shall only be mounted on these burners on the special mounting plates foreseen. Refer to literature on above mentioned MAXON burners.

## Installation

#### Storage

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LVDT/HC-pilot burners should be stored dry (inside). Prevent that water and/or dust can penetrate into the burner parts during storage.

#### Handling

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Handle burner with care during unpacking, transport, lifting and installation. Use proper equipment. Any impact on the burner could result in damage.



**Pay special attention when handling QRTZ type spark ignitors since these are very fragile.**

#### Flange the pilot burner to the installation

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Each pilot burner is equipped with a mounting plate that fits the mounting plate of the main burner. Bolt this mounting plate to the main burner. Use proper gasket, included with the pilot burner. Tighten the four flange bolts with the correct torque. Retighten all bolts after first firing and regularly after commissioning. Refer to main burner specification sheets for correct mounting position.

#### Orientation

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**The orientation of the pilot burner on the main burner shall always ensure that the spark ignitor is mounted "upstream" (= closest to the burner body) of the UV-scanner. Pilots should be mounted horizontally or vertically facing down. Vertical mounted pilot burners are possible but special attention is required to avoid accumulation of foreign material in the scanner tube.**

## Start-up instructions

Instructions provided by the company or individual responsible for the manufacture and/or overall installation of a complete system incorporating MAXON burners take precedence over the installation and operating instructions provided by MAXON. If any of the instructions provided by MAXON are in conflict with local codes or regulations, please contact MAXON before initial start-up of equipment.



**Read the combustion system manual carefully before initiating the start-up and adjustment procedure. Verify that all of the equipment associated with and necessary to the safe operation of the burner system has been installed correctly, that all pre-commissioning checks have been carried out successfully and that all safety related aspects of the installation are properly addressed. Initial adjustment and light-off should be undertaken only by a trained commissioning engineer.**

### Safety interlocks

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Guarantee that all the required safety locks as described in the applicable local codes or regulations, or supplementary safety interlocks required for safe operation of the overall installation, are working properly and resulting in a positive safety-lock of the burner. Do not bypass any of these safety interlocks, this will result in unsafe operation.

### Checks during and after start-up

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During and after start-up, check the integrity of the system. Check all bolted connections after first firing (first time on temperature) and retighten if necessary.

### Purge

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For safety-reasons, it is required to purge the installation sufficiently long to ensure that all possible combustibles are evacuated before ignition. Refer to the applicable local codes and your specific application requirements to determine the purge time.

### Pilot ignition

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Pilot burner does not require adjusting thanks to its fixed gas and air orifices. Refer to table page 4-22.4-4 for correct differential pressures.

## Maintenance and inspection

### Safety requirements

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Regular inspection, testing and recalibration of combustion equipment according to the installation's manual is an integral part of its safety. Inspections activities and frequencies shall be carried out as specified in the installation's manual.

Perform the following activities at least annually as part of a recommended preventative maintenance routing:

- Inspect burner internal parts for wear and oxidation, paying special attention to the spark ignitor tip
- Inspect associated control instruments and devices for function with particular attention to all safety permissive switches

### Visual inspections

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Regular visual inspection of all connections (air and gas piping to the burner, bolting of the burner mounting flange, burner support in the duct) and burner flame shape and aspect are essential for safe operation.

### Recommended spare parts

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Keep local stock of spark ignitor and holder. It is not recommended to keep local stock of other pilot burner parts.