

Standard instructions for Series "MG" mixing tubes



Always consult and use the combustion system's manual for any activity on the combustion system including the mixing tube – in case of any conflicting information, contact the system supplier.

These standard instructions should be considered as the absolute minimum requirements for the correct and safe use of these mixing tubes – specific installations might impose other instructions in their manual.

Storage and handling instructions

Keep Series "MG" mixing tubes dry and clean until final assembly in the combustion system's piping.

Mounting instructions

Series "MG" mixing tubes can be mounted in any orientation.

For critical applications, allow 3 diameters of straight pipe with same diameter, up-stream and down-stream of the mixing tube. Do not locate valves, reducers or orifices, directly on the air inlet of the mixing tube. The inlet of the mixing tube shall be connected to piping of the same diameter as the mixing tube inlet. Orifices, reducers or valves directly mounted on the mixing tube's inlet will disturb the mixing. Wafer type butterfly valves mounted directly on the mixing tube's inlet flange will not be able to open (the inlet of the mixing tube is blocked by the swirler).

An arrow, located in the middle of the mixing tube, indicates correct flow direction. Make sure the orientation of the tube in the system's piping is correct. For ease of connection, Series "MG" mixing tubes are standard supplied with a flexible hose on the fuel gas inlet. The use of this hose is not mandatory. In case the mixing tube fuel inlet is rigidly piped to the fuel gas supply (the hose is not used), use unions or flanged connections in the fuel gas piping to the mixer to allow removal of the nozzle insert.

Gaskets, bolts and sealing paste used to connect the mixing tube to gas, air and mixture piping shall be in accordance with the requirements of the applicable code(s) of the combustion application.

The mixture, at the outlet of the mixing tube will have some swirl. The use of the mixing tubes directly mounted on the inlet of certain types of premix burners (as Maxon Sticktite nozzles) will require a straightener at the inlet of these burners (the mixture swirl will influence flame shape, combustion quality and stability of these burners).

Commissioning, start-up, maintenance and service instructions

Start-up, commissioning, maintenance and service of installations using Series "MG" mixing tubes shall be done in accordance with the specifications of the manual of these combustion systems.

Regular visual inspections of the installation and minimally one thorough check every year is advised to verify the soundness of the gas and mixture piping and cleanliness of the Series "MG" mixing tube.

The nozzle insert has provisions to make sure it can only be mounted in the correct orientation (gas drillings facing up-stream to the air inlet of the mixer).

