

FLAME JETS

FOR AGILENT TECHNOLOGIES (HP) GAS CHROMATOGRAPHS



SGE's continual testing of capillary columns and our work in producing extremely inert capillary columns has led to the development of inert glass lined FID and NPD jets for Hewlett Packard gas chromatographs. These jets eliminate sample contact with metal and enable non-critical positioning of the capillary column in the jet. The all glass lined jet preserves the inert character of the installation.

COMPARISON OF SGE'S GLASS LINED FLAME JETS WITH CONVENTIONAL METAL FLAME JETS

Using the standard all metal jets provided with the GC, it was found that the positioning of the capillary relative to the top of the flame jet was critical if system activity was to be avoided.

Chromatographic tests show that for sensitive compounds such as 4-Chlorophenol, n-Decylamine and Undecanol which are used to evaluate activity of the column and chromatographic system, peak tailing is considerably reduced with the glass-lined SGE flame jets.

The reduction in peak tailing observed with the glass lined flame jets is independent of the position of the capillary tubing in the jet. Tests show no noticeable tailing using the SGE flame jet even if the capillary is positioned 50mm back from the flame tip.

ORDERING INFORMATION

Description	Part No.
FJKHP Flame Jet Kit HP	103474

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REPLACEMENT OF EXISTING HP FLAME JETS

The SGE jets are directly interchangeable with all existing jets in HP Model 5890 chromatographs. The jets also suit earlier HP chromatographs that use a 65mm long jet. Viz. Models 5710/30/90 and 5830/40A.

The SGE flame jets are supplied with an 0.8mm ID for use with all capillary columns.

