

## Use of an MTI Analytical Technology Modified Probe in Analyzer Hydrocarbon Catalytic Convertors

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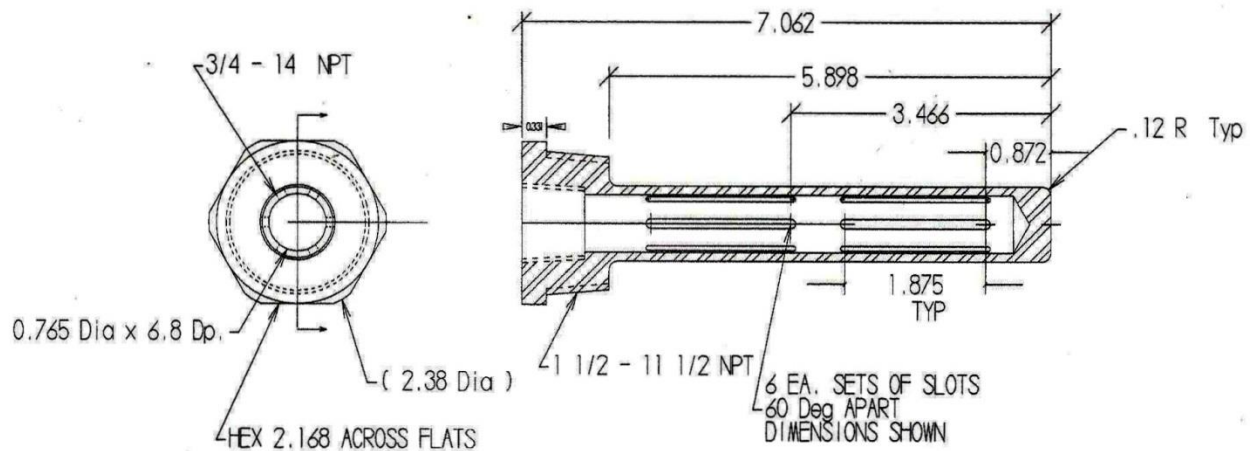
Analyzer manufacturers have historically utilized inert gases as the carrier gas in gas chromatography for analyzing chemical properties. This practice is now changing, with manufacturers choosing hydrogen as the carrier.

The standard **Analyzer Hydrocarbon Catalytic Convertor** employs a sintered (porous) stainless steel probe through which the gases from the analyzer are diffused into the catalyst cartridge. As hydrogen is very volatile and flammable, deterioration of the standard internal probe in catalytic convertor units has been reported.

**MTI Analytical Technology** designed and manufactures a patented probe machined of

Alloy 20 bar stock to provide a more robust configuration with numerous perforations providing vent gas exposure to the catalyst cartridge. The modified probe has been evaluated by petrochemical companies and has greatly increased operational life with no significant deterioration from exposure to the higher temperatures and flammability of the hydrogen carrier gas. The modified probe is easily and quickly changed in existing units. Catalytic Convertor units may also be ordered from **MTI Analytical Technology** with the modified probe installed.

Dimensional information for the modified probe is indicated below. Production dimensions and details may have been modified.



Patent #9,162,181 B1