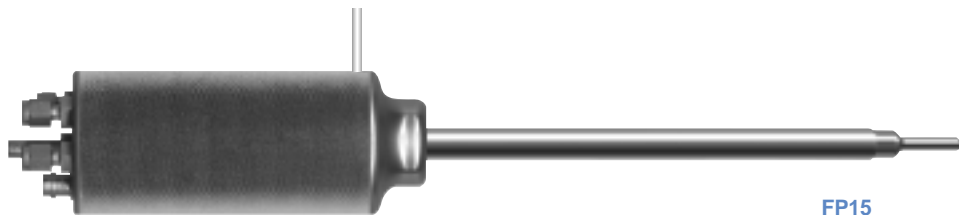


High Temperature Direct Probe

- Maximum temperature 800°C
- Fast ramp rates
- For use on Thermo MAT TSQ mass spectrometers
- Direct heating of sample
- Strong, easy to use flared sample vials



FP15

Scientific Instrument Services™ has developed a new High Temperature Direct Insertion Probe (HT-DIP). The probes can be used from ambient temperature up to 800°C with ballistic temperature ramp of over 700°C/min.

Applications include polymers, pharmaceuticals, natural products as well as other solid or liquid samples.

The high temperature DIP is designed for use on the TSQ mass spectrometer and other instruments which use a 1/2" probe inlet. The high temperature DIP has a maximum use temperature of 800°C. The probe will ballistically heat from room temperature to 800 in about one minute. It is designed such that the probe must have cooling gas, such as compressed air, circulating through

the probe at all times during the analysis. This keeps the probe shaft cool even when the probe is used at high temperatures. This eliminates potential damage to the probe inlet seals. A temperature sensor in the shaft of the probe monitors the shaft temperature and acts as a safety shut-off, if the shaft becomes too hot. The probe must be used with the S.I.S. Model PC-2F temperature controller.

The S.I.S. Model PC-2F temperature controller is specifically designed to be used with the S.I.S. high temperature DIP. The controller can be programmed to perform controlled ramping of the probe



temperature at rates up to 200°C/min. The digital display shows both the final set temperature of the probe as well as the actual probe temperature. Data system remote start capabilities are included.

Part No.	Description	Price
FP15	High Temperature DIP for TSQ	
PC2F	High Temperature DIP Controller for Thermo TSQ®	
S17A	Sample Vials, Pkg. of 100	

Calibration Gas Probe

- For the direct introduction of calibration fluids into the Mass Spec source
- Also for the direct analysis of liquid samples
- For Thermo MAT TSQ® mass spectrometers
- Microfine needle valve for regulation of sample flow into MS source
- Removable glass sample vial for liquid samples

This new Calibration Gas Probe was designed for the quick and accurate introduction of liquid or gas samples directly into the Mass Spec source via the probe inlet. The calibration gas or fluid (or any liquid sample) is placed in the removable glass vial in the handle of the probe. The calibration vials can be quickly and easily changed to permit the analysis of multiple liquid samples. The vials hold approx. 2.0 mL of liquid or custom size vials can be ordered on special request. The rate of flow of the sample into the mass spec source is regulated via the microfine metering valve on the end of the probe handle.



CAL2

Typical applications are as follows:

- Introduction of multiple calibration fluids such as Perfluorokerosene (PFK) or per fluorotributylamine (FC-43) into the mass spec source for Mass Spectrometer calibration.
- Introduction of a constant low level of mass marker ions into the source over a period of time for accurate mass calculation or sample quantification
- Analysis of liquid samples via direct bleeding of the sample into the mass spec source

Part No.	Description	Price
CAL2	Cal Gas Probe for TSQ	
CV1	Cal Gas Vial	

*When "Thermo" is indicated, it is intended to imply "Thermo Fisher Scientific Corp"