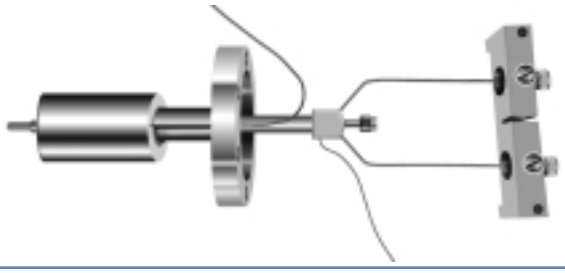
Mass Spectrometer Probe Repair

Scientific Instrument Services™ has the facilities equipment, and staff to repair, modify or manufacture most direct exposure probes for mass spectrometers. Our equipment includes Tungsten Inert Gas (TIG) welding for precision vacuum tight welds of the stainless steel parts. Our machine shop also contains lathes, milling machines, drill presses, coil winders, cut-off saws, and other machine shop tools and equipment to enable us to manufacture and repair a wide variety of mass spec probes. A description of our facilities is expanded upon in the front section of this catalog. As a part of all repairs or manufacture of mass spec probes, we helium-leak check all assemblies on a helium leak tester to assure good vacuum seals of all joints and welds. Call for more information on the various Thermo probes routinely repaired by SIS.

Transfer Line Repair

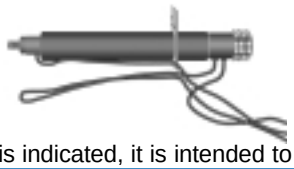
Transfer lines for the Thermo mass spectrometers can be repaired or modified by S.I.S. Repair of broken, damaged or clogged parts can be effected to improve the performance of the assembly according to your requirements. All repaired assemblies are helium leak tested to assure vacuum tight seals and welds on all parts of the movable transfer line assembly.

Custom modifications or redesign of the movable transfer line is available from S.I.S.to suit your particular requirements. Modifications can include, (1) replacement of arms or fittings, (2) sealing off of arms or fittings, (3) changing dimensions or relative position of parts, (4) extension of the center fitting and, (5) custom mounting brackets. For a quotation, call S.I.S. or send a sketch of your requirements.



Thermo GC Injection Port Repair

The injection port assembly for the Thermo 5100 GC and 9610 GC, as well as other model GC injection ports, can be repaired. S.I.S. will reweld all broken or leaking stainless steel capillary lines or replace them with new 1/16" stainless steel capillary tubing if required. After repair all assemblies are helium leak checked. Call SIS for more information on your particular repair.



Thermo MAT Vacuum Flange Repairs

A variety of repairs and modifications can be performed on Thermo MAT mass spectrometer flanges. The repair shops of S.I.S. have a wide range of equipment which enable us to perform custom machining, welding, and leak checking of mass spectrometer parts. Our services for vacuum flanges include replacing broken, damaged, or leaking electrical feedthroughs, adding additional feedthroughs, gas Lines, or fittings to flanges, repairing damaged knife edges, and other custom modifications and additions. We also have the capabilities to custom manufacture flanges to your specifications. For repairs, modifications, or manufacture of flanges not listed below, send us a description of your requirements along with a sketch for a quotation. See the beginning of this catalog for additional information on our shop manufacturing and repair facilities.

Thermo Jet Separator Repair

All models of jet separators can be repaired if the side arms become damaged or broken. Jets to be repaired must have at least 5/8" glass arm extending past the main body in order to be repaired. Jets repaired with less than 5/8" cannot be guaranteed. We can also clean most clogged jets. S.I.S. assumes no responsibility for jets damaged during the unclogging procedure.

Part No.	Description	Price ea.
REP71	Repair One Jet Separator Arm	
REP72	Repair Two Jet Separator Arms	
REP73	Repair Three Jet Separator Arms	
REP7C	Clean Jet Separator-price per Jet	

Incos™ 50B Transfer Line Repair

The long transfer lines between the GC and the Incos 50B mass spectrometers can be repaired by S.I.S. The heater, thermocouple and fittings can be repaired or replaced. Please send in your transfer line for evaluation. We will examine it quickly, call you with a price for repair and then in a minimum turnaround time repair it for you.

OWA/3000 Ion Volume Repair

Part No.	Description	Price / pkg
REP53	Ion Volume Repair & Cleaning	

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