

## Needles for the AutoDesorb System

In the AutoDesorb™ System, the needle serves as the transfer line for the introduction of the sample into the Gas Chromatograph. This “short path” for sample transmission is the key advantage of the Short Path Thermal Desorption technology which minimizes sample decomposition, eliminates system contamination and provides for the maximum delivery of samples to the GC.

This 2 piece needle has been specifically designed for the AutoDesorb system. The new design will permit the sealing of the needles and connecting tube to the desorption tube with just a finger tight twist connection. Vespel™ seals (sold separately) are used to make the leak tight seal. Double seals are not needed as in TD3 and TD4 systems. The needles are of the side port design to eliminate coring of the GC septa and are 35 mm long. The needles are available in plain stainless steel and now also in Silco™ coated steel to eliminate any metal surface in contact with your samples.

These needles and seals can also be used in the Older models of the Thermal Desorption system ( Models TD3 and TD-4) as well as the most current version, TD5.

Part No.	Description	Price ea.
786035	AutoDesorb Needle, 35 mm	
786135	AutoDesorb Needle, 35 mm, Silco	

## Seals for the AutoDesorb™ System

A single one-piece Vespel™ seal is used to make the leak tight seal between the desorption tube and the needle as well as the desorption tube and the connecting tube. These seals permit the finger tight sealing of the desorption tube to the system. Wrenches and tools are not required. Seals can be used up to 450°C. The double seals used in the TD5 are not used in the AutoDesorb system

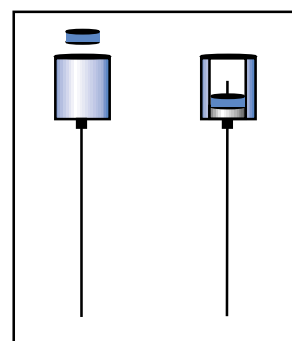
Part No.	Description	Price ea.
786018	Vespel Seal for AutoDesorb tubes	
786017	Vespel Seal with Cartridge	
786910	Seal Removal Tool	

## Connecting Tubes and ‘O’ Rings for the AutoDesorb System

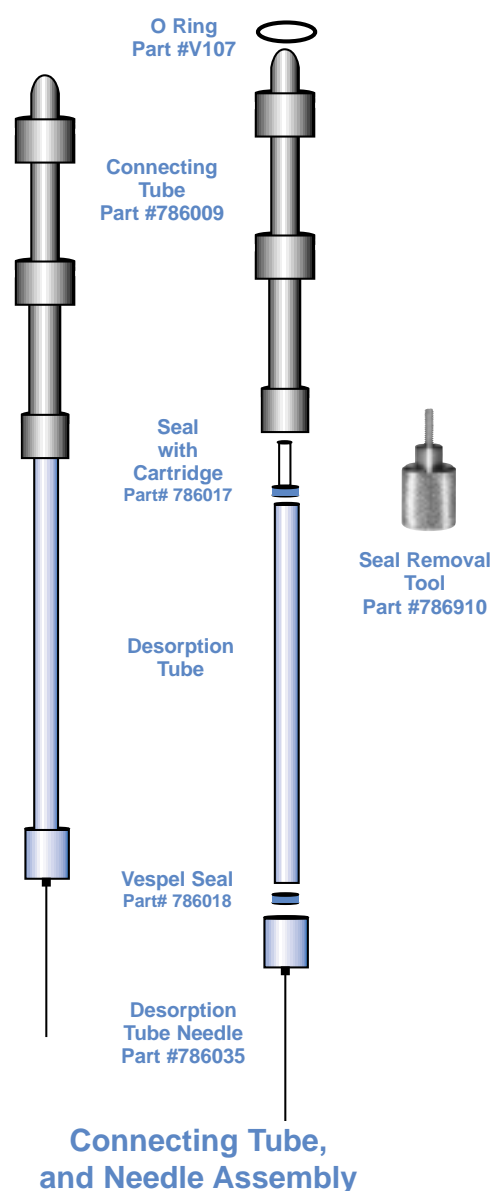
The AutoDesorb™ System is shipped with 12 Connecting tubes, however the user may wish to obtain additional spare connecting tubes. These connecting tubes are designed exclusively for the AutoDesorb system and require both an ‘O’ Ring (purchased separately below) and a Vespel Seal (purchased separately as listed above).

Built into each connecting tube is a trap filter. This filter is packed with 40 milligrams of Carbotrap and is used as a final filter to assure clean carrier gas is passed through you sample. The trap filter can be cleaned by baking out in the tube conditioning oven

Part No.	Description	Price ea.
786009	AutoDesorb Connecting Tube	
V107	Viton™ O Ring for Connecting Tube	



2 Piece Desorption Tube Needle and Cross Section Showing placement of the needle and seal.



Connecting Tube, and Needle Assembly