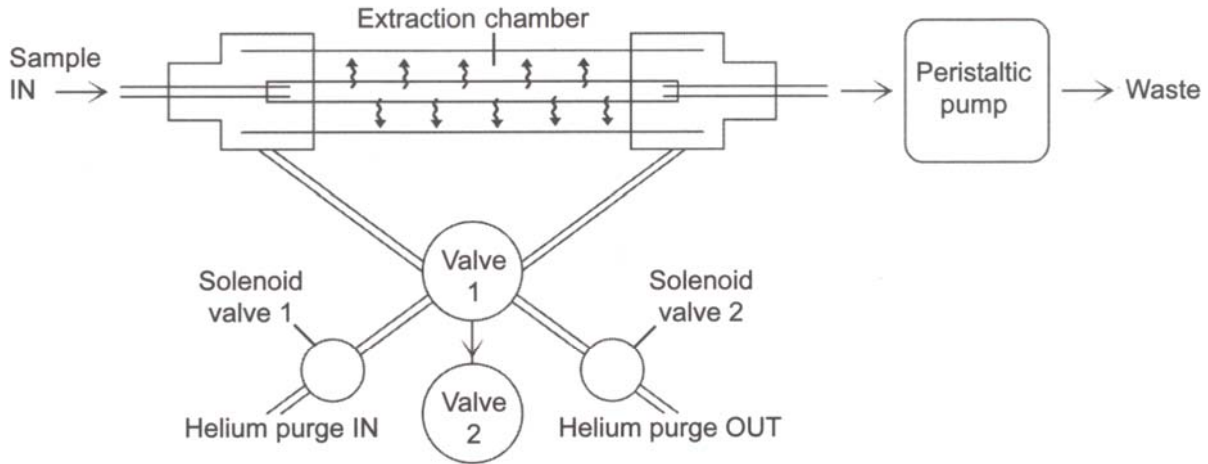


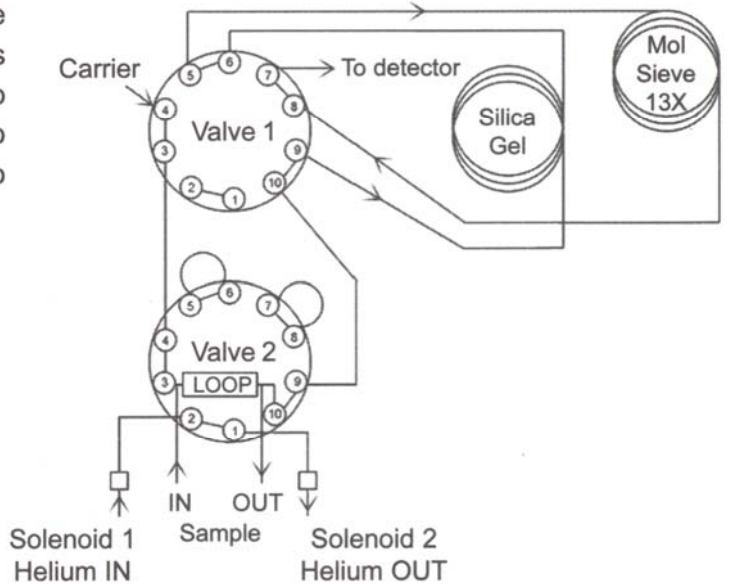
Transformer Oil Gas Analyzer (TOGA) GC System

In the TOGA GC, the sample is injected by peristaltic pump through a unique gas extraction loop. The gas extraction loop consists of permeation membrane tubing encapsulated in a trap-heated glass tube. The permeation tubing is plumbed to the sample inlet, the dual 10-port valves and the waste/sample outlet. Solenoid valves are included for purging the gas extraction chamber with helium between runs.



While the transformer oil is being pumped through the gas extraction loop, the 10-port electrically actuated valves are in the LOAD position. During this time, the dissolved gases in the transformer oil permeate through the membrane, into the extraction chamber. When the valves are switched to the INJECT position, the contents of the loop are swept into the Silica Gel and Molecular Sieve 13X columns.

TOGA valves in the INJECT position



TOGA GC in standards preparation mode

By reconnecting a few tubing lines, the TOGA GC can be configured to prepare dissolved gas standards. A Tedlar bag, or other container, filled with gas standard is connected to the standard pump. The standards preparation vessel is filled with sample liquid, such as water or transformer oil. The standard pump bubbles gas standard into the standards preparation vessel, equilibrating the liquid over time to a known concentration.

- 8610-0031 TOGA GC System with HID Detector & 1 channel data system
- 8610-0032 TOGA GC System with TCD & HID Detectors, & 4 channel data system



OPTIONS & UPGRADES: additional detectors, 6 channel USB PeakSimple data system.
(VOLTAGE: for 110VAC, use 8610-5405-1; for 220VAC, use 8610-5405-2)