



Taha Kimia Tajhiz Co.



Core Lab

# Fluid Transfer Vessels & Accumulators Datasheet

Accessories

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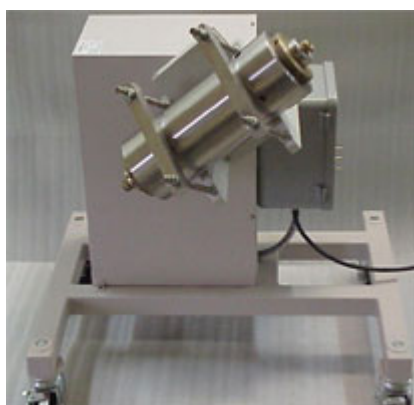


## Fluid Transfer Vessels & Accumulators



We offer a complete line of floating piston and rodded transfer vessels. These vessels can be used for a variety of purposes and applications. These vessels have been used for Petroleum Core Flooding experiments, Supercritical Carbon Dioxide, PVT experiments, Catalysis, Polymerization, Oxidation, Hydrogenations, and other Reactor studies. In an experiment where multiple fluids or phases are to be injected into the system, a series of accumulators are installed into the system and then only one metering pump is required to inject the fluids in sequence. These vessels also protect the metering pumps from highly corrosive or high brine liquids, so that the precision metering pump is not damaged.

These vessels have several unique features. The bronze end caps are used to prevent galling between similar metals. The seal and end plug design allow for hand tight operation of the vessel. This feature allows easy assembly and disassembly of the vessel for cleaning and inspection. As the end plug is inserted into the vessel, the end plug will not rotate and perhaps damage the seal or sealing surface area. The piston material can be Teflon, which prevents any galling from occurring between the piston and the honed cylinder wall.





For high pressure gas and rodded transfer vessels, the Teflon piston is replaced with a metal piston. The metal pistons are used for Teflon seals or Viton seals, and have guide rings to prevent galling between the piston and the inner diameter of the cylinder. When a rod is attached to the piston, the rod will indicate the position of the piston. A liner transducer can be attached to the rod to measure the fluid or gas volume within the vessel, or displaced from the vessel.

For special applications, please contact the Engineering Department at Core Lab Instruments.