

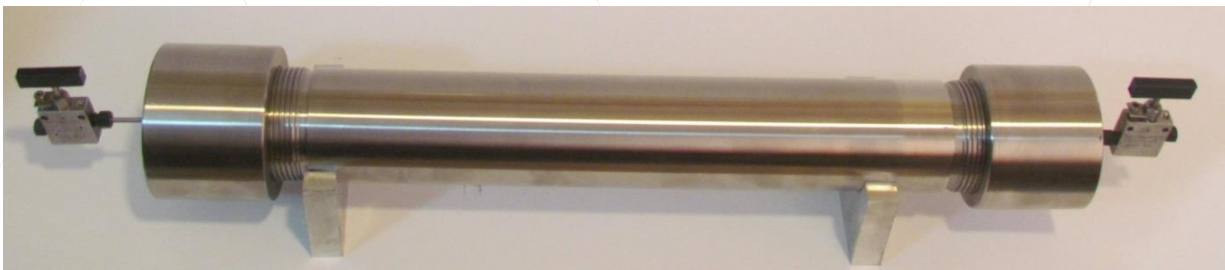


Apex technologies co., manufactured a newly designed compact and medium and low weights double phase sampling cylinders rated for pressures and temperature up to 15000 psi and 150 °C for transportation and storage of pressurized hydrocarbon samples. Those samples might have been obtained through bottom hole or surface PVT sampling. These new compact and low weight sample cylinders are a double end type equipped with a floating piston in order to separate the sample from the secondary driving/transfer fluid.

The piston has a single packing seal and a guide ring and is designed to minimize friction and reduce pressure load. A mixing ring is incorporated and designed in a way that minimum possible dead volume existed. In addition, the two end caps are sealed with double O-ring seals with changed position of installation that allow long term storage. Both end caps are held in place by screwing them into

the body. Cylinders are equipped with a single inlet needle valve for the hydraulic driving fluid and the fluid sample. On the sample side, the piston incorporates a canonical groove to accommodate a stainless steel ball exactly machined based on the canonical part for efficient agitation and optimize the dead volume.

Valves are also protected by end-caps from handling and transportation related damage using PTFE casing. A carrying case can be provided to facilitate transportation. In addition, the sampling cylinders are equipped with two installed stands on their bodies enable the operator to safely put them horizontally on the Lab benches. Basically the sampling cylinders are made of stainless steel 316 L while it can be made by any other alloys including Hastelloy C-276 or Titanium Gr. 5 upon request for low weight or transportation of corrosive fluids purposes.





### *Technical Specification:*

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| New design which is applicable even for high pressure gases such as carbon dioxide destructively penetrate and attack to the sealing O-rings and packing |
| Standard volume: 650 cc (Any volume from 200 cc to 800 cc is available)  |
| Certificate of pressure test is available for each cylinder if client required   |
| Steady standing even on the Lab benches using required clamps  |
| Stainless steel rings for better and efficient agitation   |
| Wetted parts material: Ti Gr. 5  |
| Piston and mixing ring: Stainless steel 316L   |
| Valves and connections: Autoclave/BuTech/HIP   |
| Test pressure: 1.3 working pressure  |
| Wooden Package for easy handling   |
| Max. working temperature: 150 °C   |
| Max. working pressure: 1000 bar  |
| Two protection caps for valves   |
| Weight: 10 Kg  |
| HP Valves × 2  |

