

# Cvi

Global Challenges, Innovative Solutions.

model

# FCS 3001

**FRESH AIR.** Breathe easy knowing the Cvi Fined Cryogenic Sampler will take representative samples of liquid cryogenics such as LOX, LN<sub>2</sub>, and Argon and convert them to a high pressure gas. A form suitable for both storage and transport for infrared spectroscopic analysis.



SERIAL NO. 0372  
CONTRACT NO. F32319A005  
Cvi INTERNATIONAL, INC.  
FINED  
CRYGENIC SAMPLER SYSTEM  
MAX WORKING PRESSURE 1800 PSI  
MFG CODE  
PART NO.  
NSN

US  
**FCS-3001 USAF Configuration**

NSN 6695-01-671-1487

Cvi P/N: 600544

[www.cvintl.com](http://www.cvintl.com)

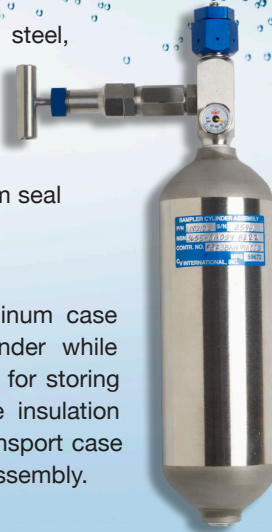
# AGILE INNOVATIVE





**The Finned Double-Cup Sampler** - This all stainless steel, machined and welded assembly contains a threaded double cup, a Burst Plug providing overpressure protection and a Charging Valve to trap the liquid sample once the system is cooled down. The finned design of this sampler provides improved vaporization (heat transfer) characteristics so as to enable 10-12 minute average sample time.

**Sample Cylinder Assembly** - A one liter stainless steel, USA manufactured, UN-ISO pressure receptacle, 1800 psig gas cylinder with a special Sample Cylinder Valve assembly. The sample valve is a stainless steel raising stem plug type providing a bubble-tight, long time seal at storage pressures of 1600-1800 psig and a leak proof stem seal operation for the critical, cryogenic vaporization mode.



**Storage and Handling Case** - Is a unique aluminum case designed to hold and position the Sampler and Cylinder while sampling and vaporizing as well as securing the sampler for storing and transporting. Included in the case is a replaceable insulation liner which aids in rapid Sampler cool down. Optional transport case available for entire sampler and/or for cylinder with valve assembly.

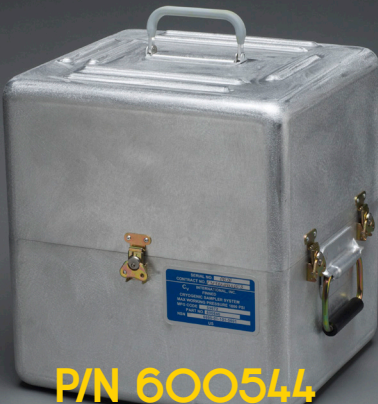
**FCS 3001 USAF CONFIGURATION**

The USAF, FCS 3001 Sampler System includes: One additional UN/ISO sample cylinder assembly with case, two 6-foot stainless steel, braided, flexible hose assemblies, each having a 1/2" stainless steel female AN nut hose ends. Necessary ordnance couplings are furnished to permit tank hookup. One sample cylinder interconnect port adaptor. Spares kit & full Mil-Spec Technical Operating manual.

All hardware to US standards and no special tools required.



**UN/ISO sample cylinder assembly with case. P/N: 600543**



**P/N 600544**  
NSN: 6695-01-671-1487



**System Includes**

Complete FCS 3001 Sampler with Dual Rated Cylinder  
Additional Sample Cylinder Assembly [Cylinder & Valve Assembly] and Transport Case

**FCS 3001 Specifications**

Part Number: 600646  
NSN: 6695-01-600-4986  
Width: 136 inches wide  
Depth: 150 inches deep  
Height: 165 inches high  
Weight: 40 lbs.

**Sample Cylinder Specifications**

Weight: 11 pounds  
Cyl. Capacity: 1.72 cubic feet  
Cyl. Pressure: 1800 psig  
Part Number: 600210  
NSN: 3655-01-600-3170

**Transport Case**

Part Number: 600542

