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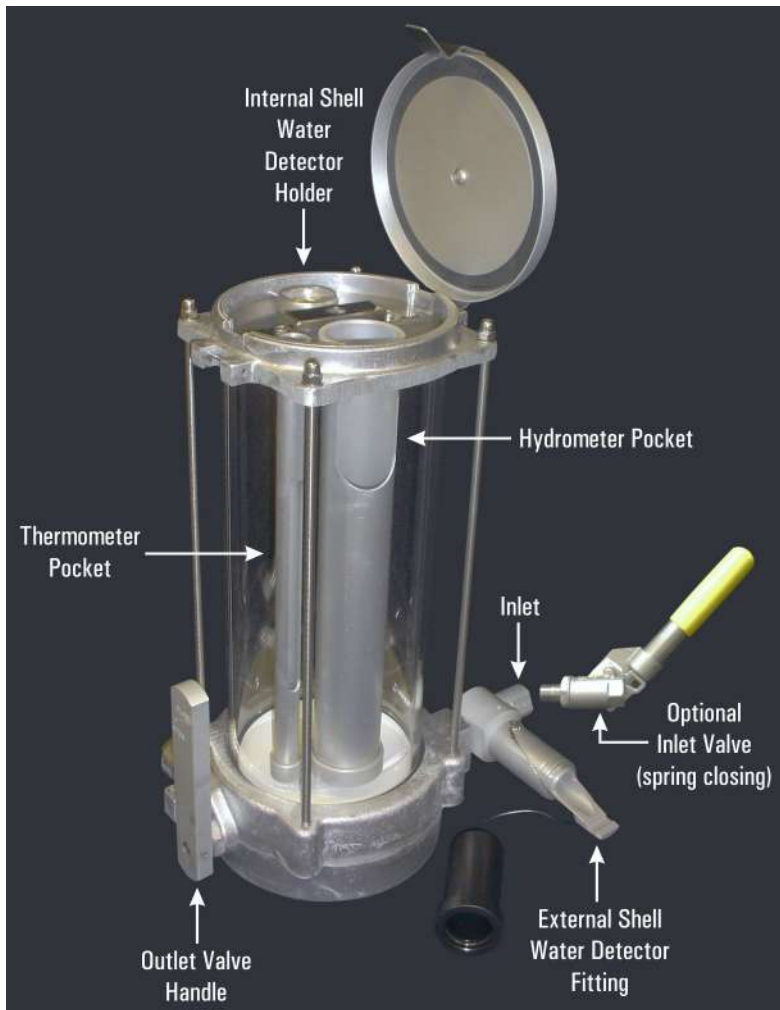
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**CLOSED  
CIRCUIT  
SAMPLER**

**BULLETIN 138  
(09-12)**

## ALJAC CLOSED CIRCUIT SAMPLER

Over 1,000 in service worldwide, 1 US gallon (4 liter) capacity



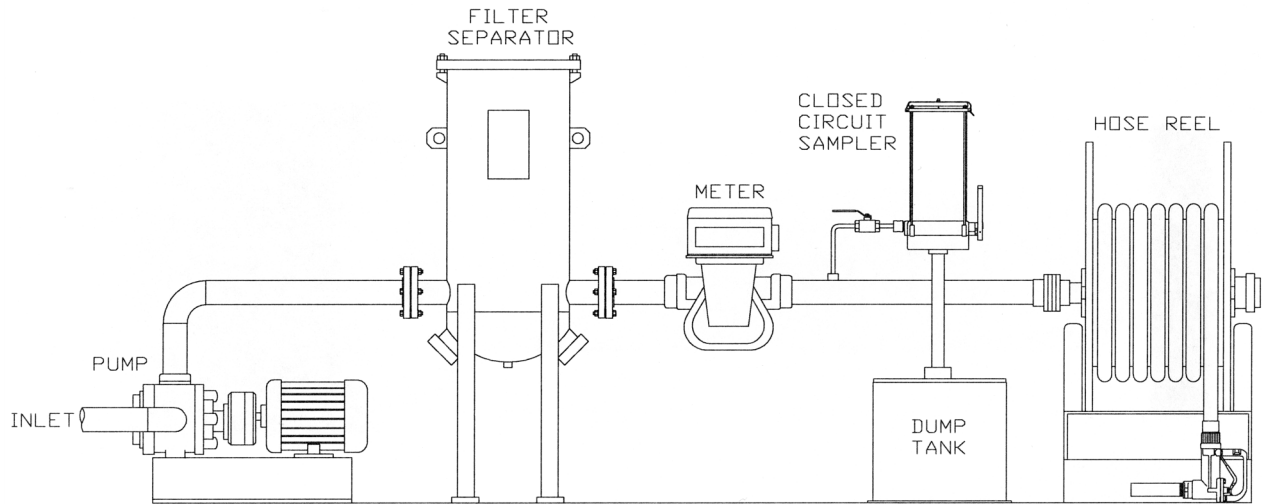
### INSTALLATION

In most sampler installations, the sample is taken directly from the flow stream after the filter separator or monitor. A light located behind the sampler is very useful at night. The condition of the fuel just before it enters the aircraft provides the operator with immediate information. Alternatively, some operations may prefer to check a sample of fuel from the filter separator sump to learn immediately if any water or particulate contamination was in the fuel supply.

- When fueling aircraft, there is no substitute for a visual inspection of the delivered product using the closed circuit sampler. Periodic tests of fuel cleanliness tell you nothing about the condition of the fuel at any moment.
- The Aljac 4-liter closed circuit sampler solves that problem. Take a visual inspection of the fuel entering the airplane at any time.
- Test the water content of the fuel with either the Shell water detector or the Velcon Hydro-Kit at the same time that you make a visual inspection.
- Read the fuel gravity (weight or density) and temperature while fueling the aircraft.
- Cleaning is made simple. Lift the vented top cover one quarter turn to remove the internal apparatus (hydrometer and temperature pockets).

When drawing a visual sample of fuel from the filter separator sump, you learn immediately whether or not there was any water in the fuel supply. If the fuel is hazy, the filter separator is not functioning properly. If it is clear and bright but liquid water is found in the closed circuit sampler, you can reason that the filter separator is coalescing the water, but you surely will want to check the source of the supply. Dirt particles indicate that the coalescers are not filtering properly.

**Also available:** Internal or external Hydro-Kit adapters.



Fuel enters the sampler tangentially at the bottom, creating a clockwise swirl to force particles and water to the center of the coned-down, white epoxy chamber bottom. Any contaminants are then easily seen. After inspection or testing, simply open the outlet valve to release the contents to the dump or slop tank. but the range has been reduced so they will fit in the Aljac sampler.

## SPECIFICATIONS

BODY: Aluminum  
 CYLINDER: Borosilicate glass  
 SEALS: Viton A  
 OUTLET BALL VALVE: Stainless steel  
 TEMPERATURE: 50°C maximum  
 PRESSURE RATING: None, this is a container only  
 CAPACITY: Standard model - 4 liters (1 US gallon)  
 Optional - 20 liters (5.25 US gallons)

## INSTALLATION

INLET: 3/8" NPT  
 OUTLET: 1" NPT (3/8" BSP adapter included)  
 MOUNTING: 2 3/8" - 16 bolts

## HYDROMETERS AND THERMOMETERS FOR CLOSED CIRCUIT SAMPLERS

Standard length ASTM hydrometers and thermometers are too long to fit the holders if it is desire to leave these instruments in place with the lid closed. For customers who want to leave them in place, we offer special short models as follows.

These hydrometers have shorter scales than are required for standard ASTM models. For example, in the metric models, the graduations are 2.14 mm apart for 1 kg instead of 2.59 mm for standard hydrometers. These thermometers have the same graduation spacings as for standard ASTM thermometers such as 12°C and 12°F but the range has been reduced so they will fit in the Aljac sampler.

See Bulletin 61 for product information.

## HOW TO ORDER

MODEL No.	DESCRIPTION
JM-3001	Basic model - includes outlet drain valve only
JM-3001-2	Same as JM-3001 but includes internal fitting for Velcon Hydro-Kit test
JM-3001-3	Same as JM-3001 but includes internal fitting for Shell water detector syringe
JM-3001-4	Same as JM-3001-2 but includes thermometer and hydrometer holders
JM-3001-5	Same as JM-3001-3 but includes thermometer and hydrometer holders
JM-3001-16	Same as JM-3001 but includes thermometer and hydrometer holders
JM-3170	Adds external Shell water detector fitting. Not available with JM-3204.
JM-3204	Adds external Velcon Hydro-Kit fitting. Not available with JM-3170.
JM-3175	Adds 3/8" spring closing fill valve at inlet to any model number starting with JM-3001

NOTE: Above listed options are also available to retrofit existing equipment. Please call for details.