



CINRG Systems Inc.

Innovation in Automation

CS-APC-2 Sensor Cleaning Procedure

Possible Flow Restriction Sites

In-line Filter

- 1 In-line 200 μ m filter**
 - Remove the filter
 - Open the filter at the o-ring
 - Remove the fine metal mesh screen and soak in toluene for 30 minutes
 - Rinse the screen with your system solvent, and reinstall
- 2 Replacement Filter**
 - Filter can be purchased from any RCA hobby shop.
 - GreatPlanes.com P/N GPMQ4150



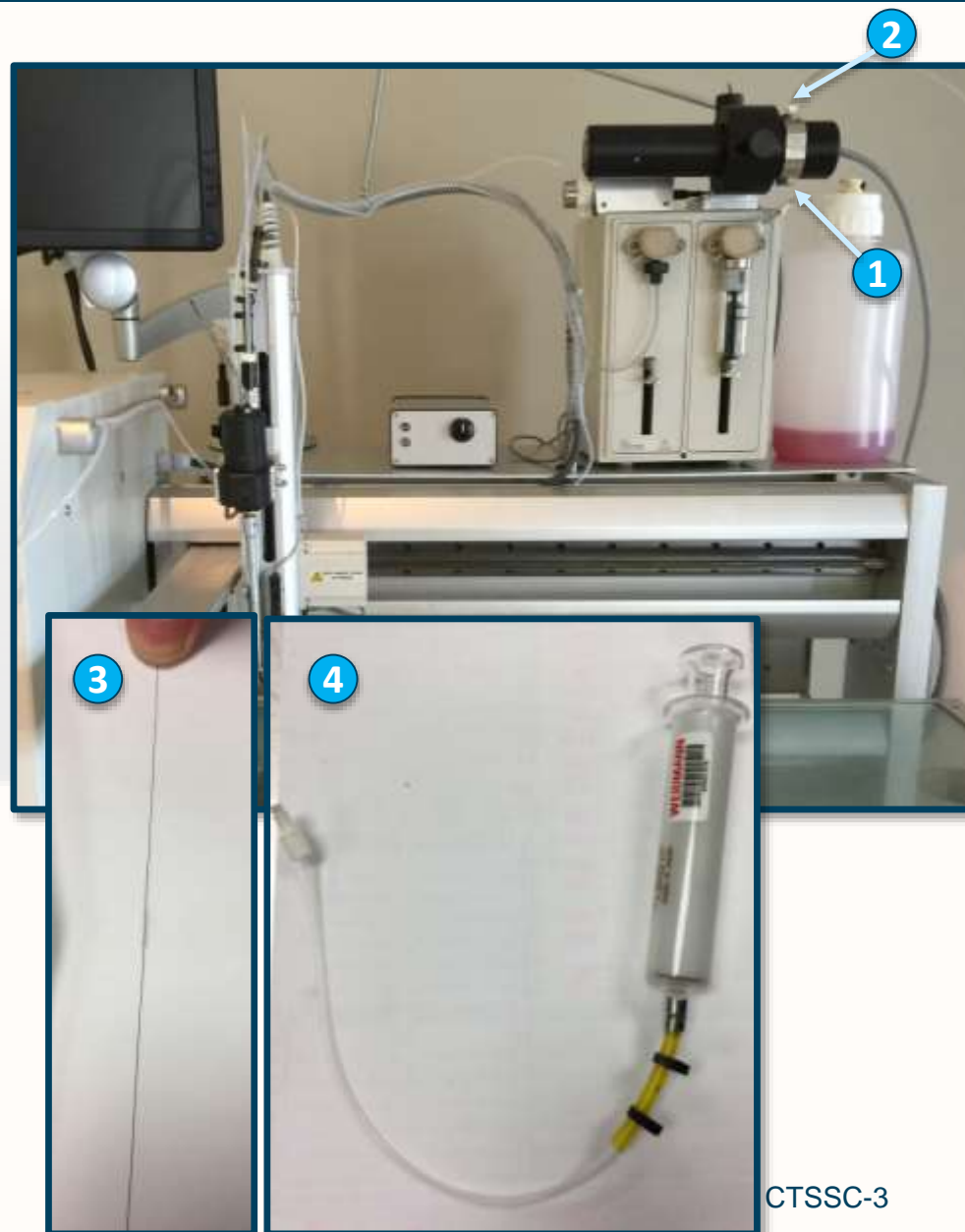
Possible Flow Restriction Sites Particle Count Sensor

1 Sensor Inlet 2 Sensor Outlet

- Disconnect the sensor inlet/outlet lines (tubing).
- Use an ultra-fine lab brush (3) to remove any solids present in the sensor cell.
- Connect a syringe assembly filled with CitraJet (see 4) to the sensor outlet (2)
- NOTE: heated CitraJet works better.
- Place a waste beaker below the inlet side of the sensor (1)
- Push solvent into the sensor and let sit for 30 minutes to break-up any varnish/fibres
- Flush the CitraJet back and forth thru the sensor.
- Re-assemble the sensor tubing, and test.

4 Syringe Assembly

- Ultra-fine lab brush (100mm x 2mm)
- Standard DGA analysis syringe
- Standard lab tubing
- Tubing lock-nut
- CitraJet is supplied by ALCONOX and comes in 1L plastic containers.



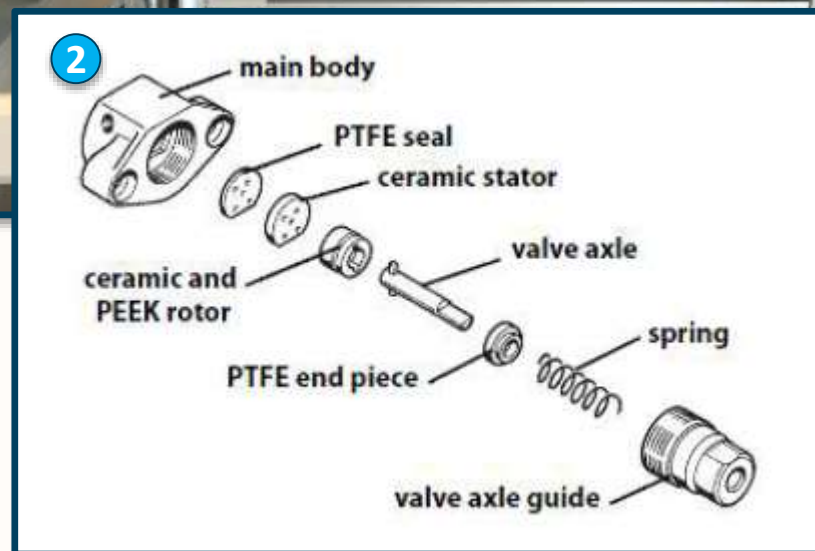
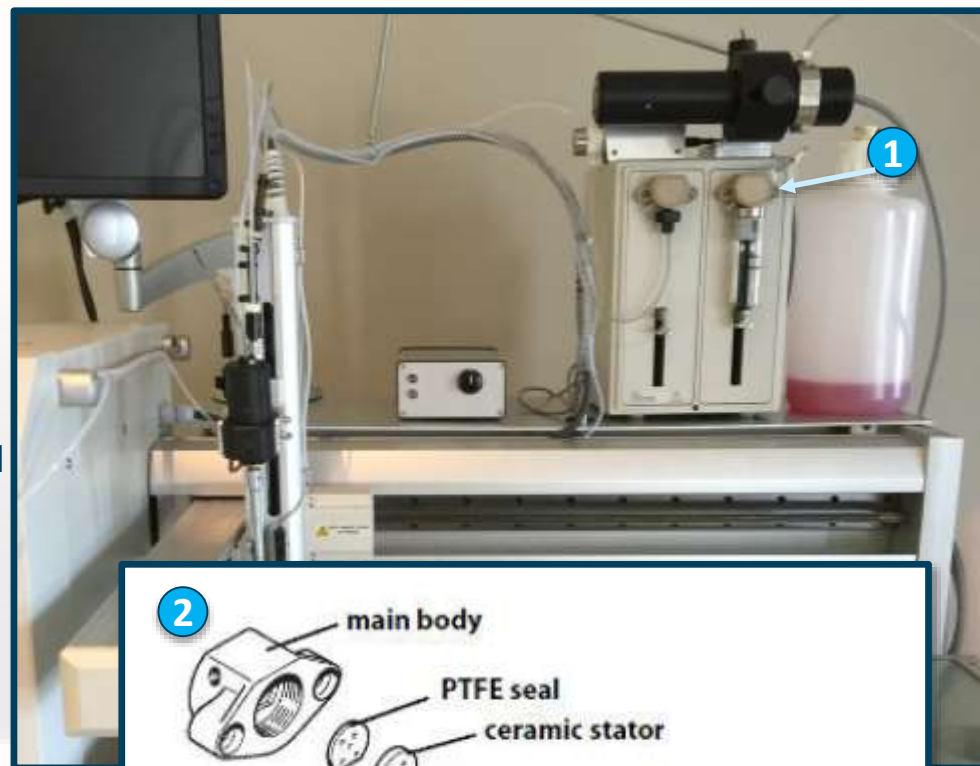
Possible Flow Restriction Sites Syringe Valve

1 Syringe Valve

- Remove the syringe valve by unfastening the two screws holding the valve to the syringe pump cover.
- Disassemble the syringe and clean the internal components. If there is varnish build-up then these components may need to be soaked in Toluene for 1-2 hours.
- Reassemble the valve and install onto the syringe pump.
- Test the system.

2 Syringe Valve Assembly

- Refer to page 45 of the CS-APC-2 System User Manual.





Don't just automate, innovate.

Welcome to CINRG Systems Inc. Our focus is the delivery of global laboratory solutions. Our philosophy is centered on the automation and integration of laboratory testing and information systems. We develop systems that easily integrate multiple operations. For we believe that the partnering of global clients develops solutions of greater value. If you are interested in how a CINRG system can improve your laboratory please contact us.

CINRG Systems Inc. offers a range of flexible laboratory solutions including our patented cloud-based WebCheck LIMS and Client Extranet that enables oil analysis laboratories, oil companies, and third-party providers to offer Internet-based lubricant evaluation and reporting systems to their customers.

Our latest product offerings are a fully automated auto-diluting particle counter and a robotic Houillon viscometer automation system that was developed in partnership with WearCheck International.

Contact Information



Alistair Geach, Operations Manager

Alistair has been in the oil analysis industry for 20 years, formerly with SetPoint Technologies in Africa. Alistair's unique skills in chemistry, physics and engineering have helped him in his career of laboratory automation and instrument development.

CLS, OMA I, MLA I, LLA 1 Certified

Phone: +1 905 569-8600 x4646
Direct: +1 289 291-4646
E-mail: Alistair.Geach@cinrg.com



Bill Quesnel, President

Bill Quesnel has been in the oil analysis industry for 24 years. Bill is president and former laboratory manager for WearCheck in Toronto, Ontario and graduated from the University of Waterloo in pre-med with minors in Biology, Chemistry and Computer Science.

CLS, OMA I, OMA II, MLA I, MLA II, MLA III, MLT I, MLT II, LLA 1 Certified

Phone: +1 905 569-8600 x4641
Direct: +1 289 291-4641
E-mail: Bill.Quesnel@cinrg.com