

Technical Bulletin

Place a copy of this bulletin in the front of each Blueprints Manual. Redline drawings as needed and include a TB reference note. Reference TB implementation on site Action Item Box-chart and/or tool CSR history.

Number: 075
Date Issued: 01/22/09
Expiration Date: N/A

Subject/Key Words:	Akrion Systems In-line Resistive Heater Leak		
Classification:	Informational	☐ Mandatory	□ Safety Alert PM Impact
	☐ Warranty Impact	Purchase Parts	□ No Charge For Parts For Days After Issue Date.
Parts/Reference Documents:	GF Single Wafer Part Numbers - 4130570, 4130571		
	GAMA/V3 Part Numbers – 212496-001, 222991-001, 229058-001, 232939-001, 230843-001, 230844-001, 230845-001, 230917-001		

Issue: Akrion Systems In-line resistive heaters and heat exchangers may leak from the

flange.

Field data has been reported only in Single Wafer applications to date.

Symptoms: Leak detect alarms in chemical dispense cabinet or plenum. Liquid dripping from

flange cover on heater.

Test/Validate Inspect heater flange cover for leaks during routine preventative maintenance.

Solution: If a leak is found, perform the following steps to re-torque the heater flange. These instructions are illustrated on page 2 of this technical bulletin.

1. Remove the flange cover to gain access to the flange.

- 2. Using a 3/16" Allen Wrench, "loosen" the flange bolts 1 full turn.
- 3. Using a torque wrench with a 3/16" X 3" square drive hex-bit socket, torque the flange bolts (1 through 8) to 30in/lbs.
- 4. Using a torque wrench with a 3/16" X 3" square drive hex-bit socket, torque the flange bolts (1 through 8) to 50 in/lbs.
- 5. Re-secure the flange cover.
- 6. Re-install the heater and test for leaks.

If leak continues after re-torquing, the heater must be replaced and returned to Akrion Systems for analysis.

If you have technical questions or require more information, please contact Akrion Systems Technical Support Department via e-mail at techsupport@Akrionsystems.com. Authorized service personnel can obtain copies of the latest Akrion Systems procedures and controlled documents from the Akrion Systems Document Control department at doccontrol@Akrionsystems.com. Customers must direct all inquires to their local Akrion Systems field service representative. (Form QA1656F1A)

Instructions

NOTE: You may need to remove the heater from the system in order to gain access to all the flange bolts.

Flange
Cover

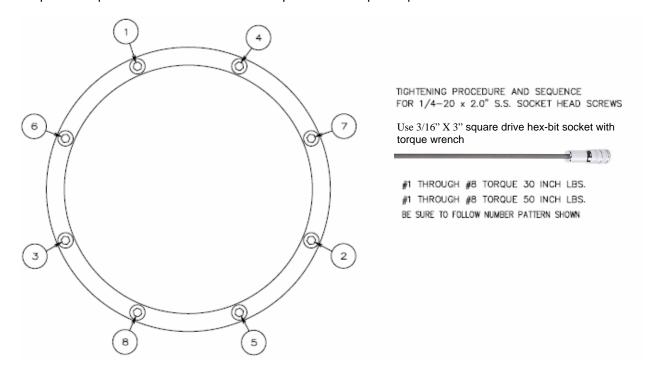
Hold Bottom
Securely

Separate Flange
Cover

Separate Flange
Cover

Bolts

- Step 2 "Loosen" Flange bolts 1 full turn.
- Step 3 Torque to 30in/lbs. Follow number pattern for torque sequence.
- Step 4 Torque to 50in/lbs. Follow number pattern for torque sequence.



- Step 5 Re-Secure flange cover by reversing step 1.
- Step 6 Re-install the heater. Fill with liquid and heat to process temperature to test for leaks.