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C-A OPERATIONS PROCEDURES MANUAL

15.5.62 Inspection Criteria for AGS Roughing Valve

(Vacuum Group Procedure VA-008.18.1.62)

Note: This document was formerly a C-A Group Procedure. The content of the group procedure was reviewed by the Technical Supervisor. All approvals and/or issue dates of the original group procedure are maintained for present use.

Hand Processed Changes

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Approved: \_\_\_\_\_ Signature on File \_\_\_\_\_  
Collider-Accelerator Department Chairman Date

S. Gill

Vacuum Group Procedure VA-008.18.1.62  
Original Issue Date: 01/01/00  
Revision 01

## **ROUGHING VALVE INSPECTION CRITERIA**

### **MINIMUM INSPECTION CHECKS:**

1. Check Flanges for scratches,
2. Check threads on mounting holes.
3. Limit Switches correctly aligned? (perpendicular).
4. Proper fit of flange and retainer with the clamp.

### **INITIAL OPERATING CHECKS (PRIOR TO PUMPDOWN):**

1. No pneumatic system leaks
2. Valve solenoid wired correctly and operating.
3. Valve mechanism operating.
4. Limit switches wired correctly and operating.
5. No voltage leakage to ground.
6. Check inside of the valve for metal chips, etc.

### **VALVE BODY LEAK CHECK (PERFORMED WITH VALVE IN OPEN POSITION):**

1. Valve Body Welds
2. Copper Bonnet Gasket (Performed with Valve in Open and Closed Position.)
3. Actuating Bellows.

### **CYCLE TEST:**

1. Minimum of 100 cycles performed
2. When time allows (over night, lunch, breaks, etc.), the valve should be left to cycle over extended periods.

### **SEAL PLATE LEAK CHECK:**

1. Vent flange opposite to the valve mechanism.
2. Leak check seal plate seal and entire valve.
3. Vent valve through the Turbo.

### **VISUAL INSPECTION:**

1. Check again for pneumatic system leaks.
2. On valves which have been cycled more than 500 times, check internal parts through flange for metal chips or signs of wear.