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7sc202 Scattering Chamber Target Mechanism Assembly/Disassembly Procedures

Assembly

1. Install target on upper rod using stainless non-magnetic hardware.
2. Mark target's rotational orientation on lower part of the rod using a marker.
3. Carefully (to prevent o-ring damage) insert upper rod 1-3/8" into air lock.
4. Check insertion depth using attached cable and bracket. - Cable should be tight.
5. Hand tighten set screw(s)
6. Evacuate air from air lock.
7. Open ball valve.
8. Loosen set screw(s) with caution - ROD MAY BE FORCED UPWARD UNDER VACUUM.
9. Push upper rod up until 1" remains visible.
10. Tighten set screw(s).
11. Check for correct o-ring and dowel in lower rod.
12. Bolt lower rod to upper rod in desired orientation.
13. Loosen set screw(s).
14. Push rod assembly into place on guide bolt.
15. Install guide spacers and retaining bolt.

Disassembly

1. Remove guide bolt and spacers that are BELOW the rod assembly.
2. Pull rod down until 2" past joint with upper rod.
3. Tighten set screw(s).
4. Unbolt lower rod.
5. Bolt cable limit bracket to bottom of upper rod.
6. Loosen set screw(s) while gently pulling on rod. NOTE: If vacuum load or o-ring friction are too great, a handle may be required for this step.
7. Pull rod down until cable is taught.
8. Tighten set screw(s).
9. Close ball valve and air lock valve(s).
10. Vent air lock.
11. For reactive target, remove entire valve assembly at the upper valve adapter flange and you are done.
12. For non-reactive target, remove cable bracket from rod.
13. Loosen set screw(s) while gently pulling on rod.
14. Remove rod from air lock using caution to avoid damage to o-rings.

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