

IMG100 Gauge Tube Cleaning & Rebuild

Disassembly

1. Remove the connector/shroud assembly by loosening, but not removing, the three allen key screws.

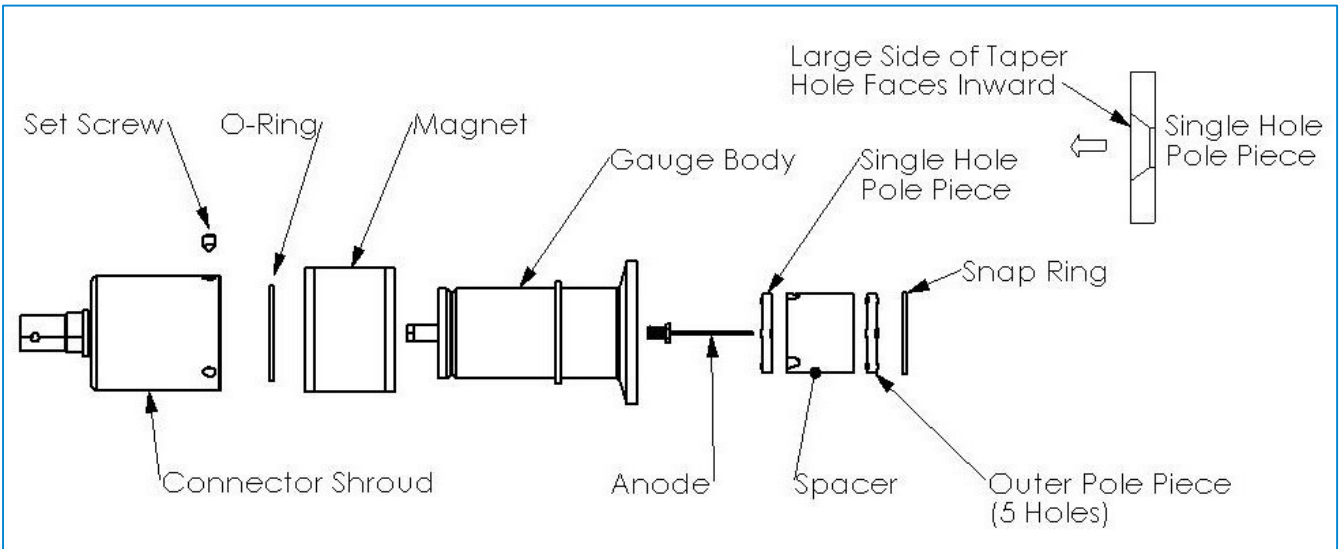


Figure 1-1 IMG100 Exploded View

2. Lift the connector shroud off of the tube.
3. Remove the small O-ring and discard.
4. Remove the magnet.

WARNING: *This is a strong magnet; do not place it on a steel shelf, near tools or other small ferrous objects that could be attracted to it. Objects may be attracted to it with enough force to crack the magnet or cause bodily injury.*

5. Turn the gauge tube so that you are looking down the vacuum port.
6. Remove the internal snap ring using the snap ring pliers. Discard.
7. Allow the pole pieces and spacer to slide out and discard the parts.
8. Using the hex nut driver, remove the anode pin and discard.

Cleaning

Clean the inside of the tube:

1. Soak the tube with acetone.
2. Rinse the tube with alcohol.
3. Air-dry the tube.



For certain contaminants and deposited debris, more aggressive cleaning may be necessary.

For specific chemical residues:

1. Soak the tube with the recommend solvent for the specific chemical.

NOTE *Contact the chemical manufacturer for information on appropriate solvents and recommended cleaning procedures for vacuum applications.*

2. Follow the instructions above for tube cleaning.

For hard residues and contaminants:

These types of deposits and residues appear flaky, or look like splatters.

1. Clean the inside surface of the tube using a mild abrasive, such as Scotch-Brite or equivalent.

CAUTION *Do not use sandpaper, emery cloth, or glass beading, as the media particles are difficult to remove.*

2. Follow the instructions above for tube cleaning.

Assembly

1. Re-install the anode; do not over-tighten.
2. Re-install the inner pole piece (the one with a single hole).
The proper orientation is shown in Figure 1-1.
3. Re-install the spacer.
4. Re-install the outer pole piece.
5. Re-install the snap ring; ensure that it is fully seated in the groove.
6. Re-install the magnet.
7. Drop the O-ring on top of the magnet (see Figure 1-1).
8. Re-install the connector/shroud assembly. Ensure that the O-ring is evenly seated under it and that the screws engage the body v groove. Tighten all three screws.