

# Sechrist Hyperbaric Technical Bulletin 008

## NOISY VENTILATION REGULATOR HB 305-05

### CHAMBERS AFFECTED

All "H" Series Chambers  
Any Chamber with 'Captured Relief Valve Kit' installed

### REPORTED PROBLEM

We have had reported incidences of a loud rattling or vibration generated by a few these chambers. The source of the noise is a vibration from the Purge Flow Regulator ( HB 305-05 American Regulator).

### PROBLEM CAUSE

When we were required by some state inspection agencies to capture the outflow of the relief valves, they also noted that the regulator vent should be vented to the outside. This would require the hospital to run a second vent line (per chamber) outside to meet this requirement, at a substantial cost, especially if this were an existing facility which was being required to install the "Captured Relief Valve Kit". There was a secondary method which involved placing a "Vent Limiter" on the regulator vent, essentially a small orifice. During testing we were able to use a 0.040 inch without adverse effects, and have been using this size with all "H" series, however, a few chambers has experienced this regulator vibration (noise), due to **too much** restriction on the vent side of the regulator.

### PROBLEM CORRECTION

We are increasing the diameter of the orifice to 0.050 inch in all new production, IF you should encounter a chamber generating this noise, remove the current "Vent Limiter" (0.040) from the vent port and replace it with a new "Vent Limiter" 0.050, please note that the new one will also have a "**S**" engraved on the face of the limiter.

### REPAIR DOCUMENTATION

After the replacement, thoroughly test the chamber through various pressures/ ventilation rate setting to assure elimination of the noise. If, a chamber is not making this noise, it is not necessary to replace the limiter, this bulletin and change only applies to chambers in the field which are making noise.

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Photo A – Identification of the American regulator.



Photo B – Removal of the Vent Limiter with a 1/2 inch socket drive from the American regulator (entire regulator removed only for photo purposes, does not need to be entirely removed during swap of Limiters)