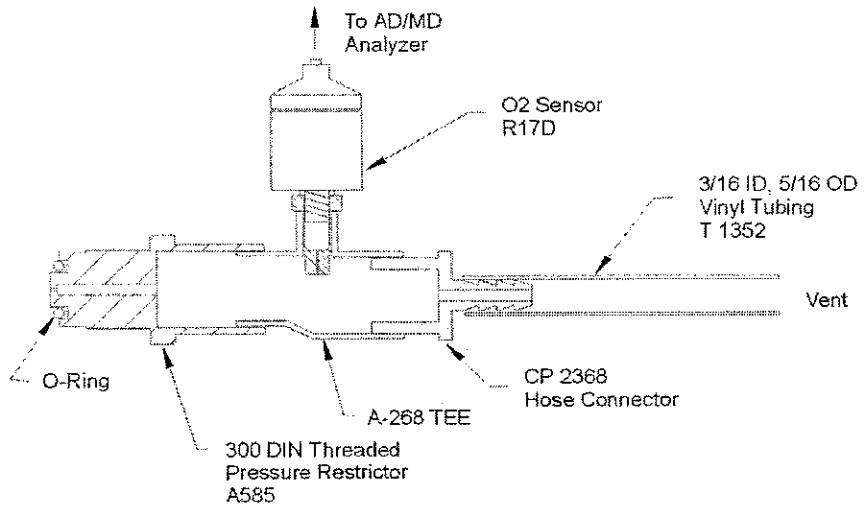


*Figure 2-11: High Pressure Gas Sampling*

When monitoring for oxygen in confined volumes such as a diving bell, the flow diverter must be removed from the R17D sensor so that it does not interfere with the rapid exchange of gases to and from the sensing surface of the sensor.

**CAUTION: FAILURE TO REMOVE THE DIVERTER IN THESE APPLICATION AREAS WILL RESULT IN A MARKED LOWERING OF THE RESPONSE TIME OF THE SENSOR.**

The LOCK/UNLOCK key can be used to prevent accidental changes to the front panel key adjustments. The LOCK/UNLOCK key acts as a toggle, pressing LOCK/UNLOCK once renders inactive all keys except the ALARM SILENCE (🔕) and BATT TEST (MD300 only) keys. Pressing LOCK/UNLOCK a second time unlocks the keypad.

## 2.3 Gas Sampling/Sensor Issues

### *2.3.1 Temperature*

The R17D oxygen sensor adjusts for ambient temperature changes in the range of 0–40°C (32–106°F). However, a small thermal tracking error may be encountered when the sensor is subjected to sudden changes in temperature. For example removing the sensor from an air conditioned car to a hot environment. Holding the sensor in your hand