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EZ Dock Leak Testing Procedure

Testing Procedure:

1. Apply Teflon tape to the threaded end of the ball valve.
2. Insert the ball valve through the treaded vent hole. Make sure the ball valve is in its closed position.
3. Attach the airline to the ball valve.
4. Open the ball valve and pressurize the part. It will take three to four seconds to realize the 0.4 psi, the pressure at which the test is conducted.
5. Close the ball valve.
6. Disconnect the airline.
7. Connect the low-pressure gage.
8. Open the ball valve and monitor the pressure. If more air needs to be added then repeat steps 3-8.
9. If the part is over-pressurized, disconnect the pressure gage and bleed the pressure down to 0.4 psi.
10. If the pressure is optimal, then monitor it for 15 minutes.
11. A pressure drop of more than 0.05 psi during the 15 minutes constitutes a failure.

How do you find leaks?

1. If the pressure is falling rapidly, inspect key areas such as: pylons, repairs, spin-weld plugs, and t-nuts. A soap water solution applied to these areas works really well in field applications. The soap water solution will "bubble-up" where a leak is detected. Make sure the connection points are not leaking (valve to part / the gage quick connect). If leaks are discovered at the connecting points, but not on the part, the part is considered good.

Points to remember:

1. Other phenomenon not addressed with these field test are duration of test, temperature, air volume, and velocity.
2. .35 psi instead of 0.4 psi is ok. Look for a significant pressure drop in air pressure. Don't over-pressurize the dock section; the kiss-offs could be broken.
3. Don't leave the pressure gage on parts for an extended period of time. Pressure changes are related to time and temperature.