

**10-154. Installation - Check Valve.**

- a. Install new gasket between check valve (3, figure 10-12) and flow switch (33).
- b. Install check valve (3) in inlet port of flow switch with direction of flow toward flow switch (33).
- c. Connect hose to inlet port of check valve (3).
- d. Replace sump assembly (paragraph 10-144).

**10-155. Breakaway Valves, with shear pins.**

a. Valves manufactured by Aeroquip Corporation (00624). Inspect for loose or missing shear pins in outer sleeve (figure 10-15) as follows:

- (1) Remove coupling and inspect for wear on the breakaway pins using a feeler gage as follows:

**NOTE**

When attempting to measure the gap do not rock coupling halves back and forth. Apply an even pressure so that a consistent reading is obtained.

(2) Apply pressure to the coupling halves as if to push them together. With the coupling halves fully compressed measure and record the breakaway joint gap at each (3) shear pin location.

(3) Apply opposite pressure to the coupling as if to pull them apart. With the coupling fully extended, measure and record the breakaway joint gap at each shear pin location.

(4) If the difference of the two measurements is 0.045 inches or less, the coupling is serviceable. If the difference is greater than 0.045 at any of the three pin locations, or if any of the shear pins are missing, or if any of the shear pins are protruding past flush, the coupling needs to be replaced.

**10-155.1. Breakaway Valves - Aft Center Fuel Cell Interconnect.**

**NOTE**

Only valves manufactured by Aeroquip Corporation are repairable. Valves manufactured by Wiggins, Inc. are not repairable.

- a. Cut, remove and discard lockwire securing nut to adapter assembly.
- b. Loosen nut on valve until it separates from adapter assembly.
- c. Slowly pull the upper body assembly out of the adapter assembly to help prevent the possibility of losing the internal ring halves. The ring halves can quickly separate from the upper body assembly if the parts are separated quickly.
- d. Remove and discard packing from upper body assembly.
- e. Inspect valve for corrosion, damage and general serviceable condition.
- f. If valve does not meet inspection requirements, replace valve.
- g. Clean valve parts as necessary with cleaning solvent (C261).
- h. Slide nut onto upper body assembly.
- i. Install new packing (NSN 5330-00-113-5732 for P/N AE95270K) or (NSN 5330-01-101-2035 for P/N 205-062-654-1) on upper body assembly.
- j. Install both ring halves in ring groove on upper body assembly.
- k. While holding both ring halves in place, slide upper body assembly into adapter assembly until it bottoms out in adapter assembly.
- l. Tighten nut into adapter assembly.
- m. Lockwire (C155) nut to adapter assembly.