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| 1. VALVE SHAFT | 7. BALL SPRING |
| 2. "O" RING | 8. CHECK BALL |
| 3. SEAL | 9. "O" RING |
| 4. VALVE PLATE | 10. UPPER VALVE BODY |
| 5. PLATE SPRING | 11. TAPE |
| 6. LOWER VALVE BODY | 12. SWITCH |

**FIGURE 8-8. FIVE POSITION FUEL VALVE
PA-24-250 and PA-24-260**

8-15. Servicing Five Position Fuel Valve (Hoof). (PA-24-250 and PA-24-260) Normally the five position valve need only be serviced when there are indications of binding or leakage around the valve shaft (1, Figure 8-8), at the mating surface of the upper valve body (10) and lower valve body (6) or if reason to believe that there is leakage through the valve when in an off position. Replacement of "O" rings will usually correct this condition.

a. With the valve assembly removed from the aircraft, remove the safety wire and disassemble the valve assembly.

b. Check the shaft hole of the valve body (10) where the "O" ring (9) makes contacts for roughness that might damage the "O" ring. Polish the hole surface to remove any roughness.

c. Ascertain that the valve plate (4) is not warped and the plate surface toward the shaft side is not scored, allowing O-rings to be damaged.

d. Inspect the plate detents, ball (8) and spring (7) to determine that the ball will operate properly in the plate detents.

e. Lubricate the O-rings with engine oil, reassemble the valve and safety.