

c. Inspection. Inspect all parts for damage or excessive wear, and replace as necessary.

d. Reassembly. Use new o-rings. Reassemble the drive motor by reversing disassembly procedures, and performing the following additional procedures.

(1) Torque the capscrews (11) to 175 ± 25 inch pounds.

(2) Torque the capscrews (1) to 250 ± 25 inch pounds.

3-15. WATER INJECTION RELIEF VALVE (Figure 3-21).

a. Disassembly

(1) Disconnect the hose assembly from the valve body (14).

(2) Remove the pin (2), knob (3), and locknut (4).

(3) Remove the screws (1), cover (6), screw and pad assembly (5), and diaphragm (7).

(4) Remove the guide (8), spring (9), plunger (10), valve (13), and retainer (11) from the valve body (14).

b. Cleaning. Clean all metal parts in an approved solvent.

c. Inspection. Inspect all parts for serviceable condition. Check to be sure the diaphragm has not been ruptured.

d. Reassembly. Reassemble the relief valve by reversing disassembly procedures.

3-16. WATER INJECTION SYSTEM CONTROL VALVE (Figure 3-22).

a. Disassembly

(1) Remove plug (1), plug assembly (2), plug (3), plug assembly (4), spring (5), and poppet (6).

(2) Remove plug assembly (7), spool (8), spring (9), and dowel pin (10).

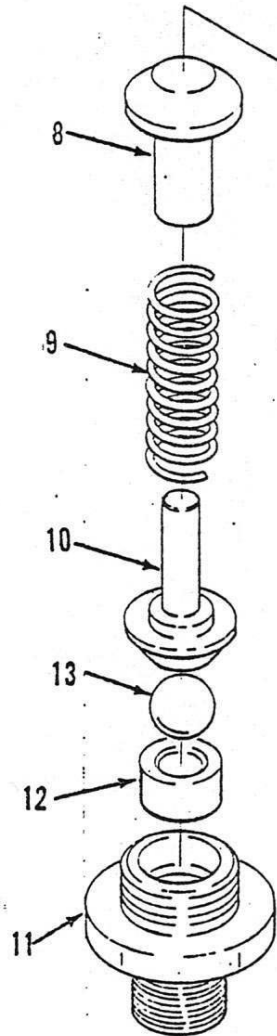
(3) Remove screws (11), cap (12), screw (13), washer (14), collar (15), washer (16), spacer (17), washer (18), and seal (19).

(4) Remove relief assembly (20).

(5) Remove flow divider assembly (22).

(6) Remove pin kit (23), handle (29), screws (24), bracket (25), washer (26), seal (27), and spool (28) from housing (30).

1. SCREW
2. PIN
3. KNOB
4. LOCKNUT
5. SCREW AND PAD ASSEMBLY
6. CAP
7. DIAPHRAGM
8. GUIDE
9. SPRING



10. PLUNGER
11. RETAINER
12. SEAT
13. VALVE
14. BODY

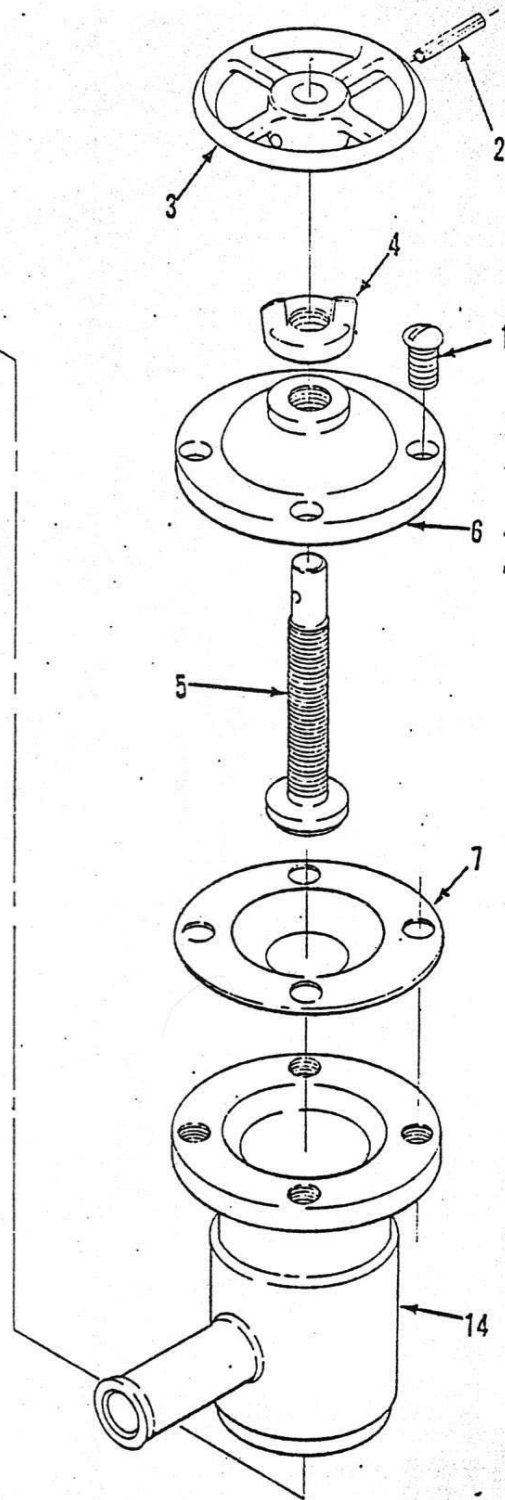


Figure 3-21. Water Injection Relief Valve

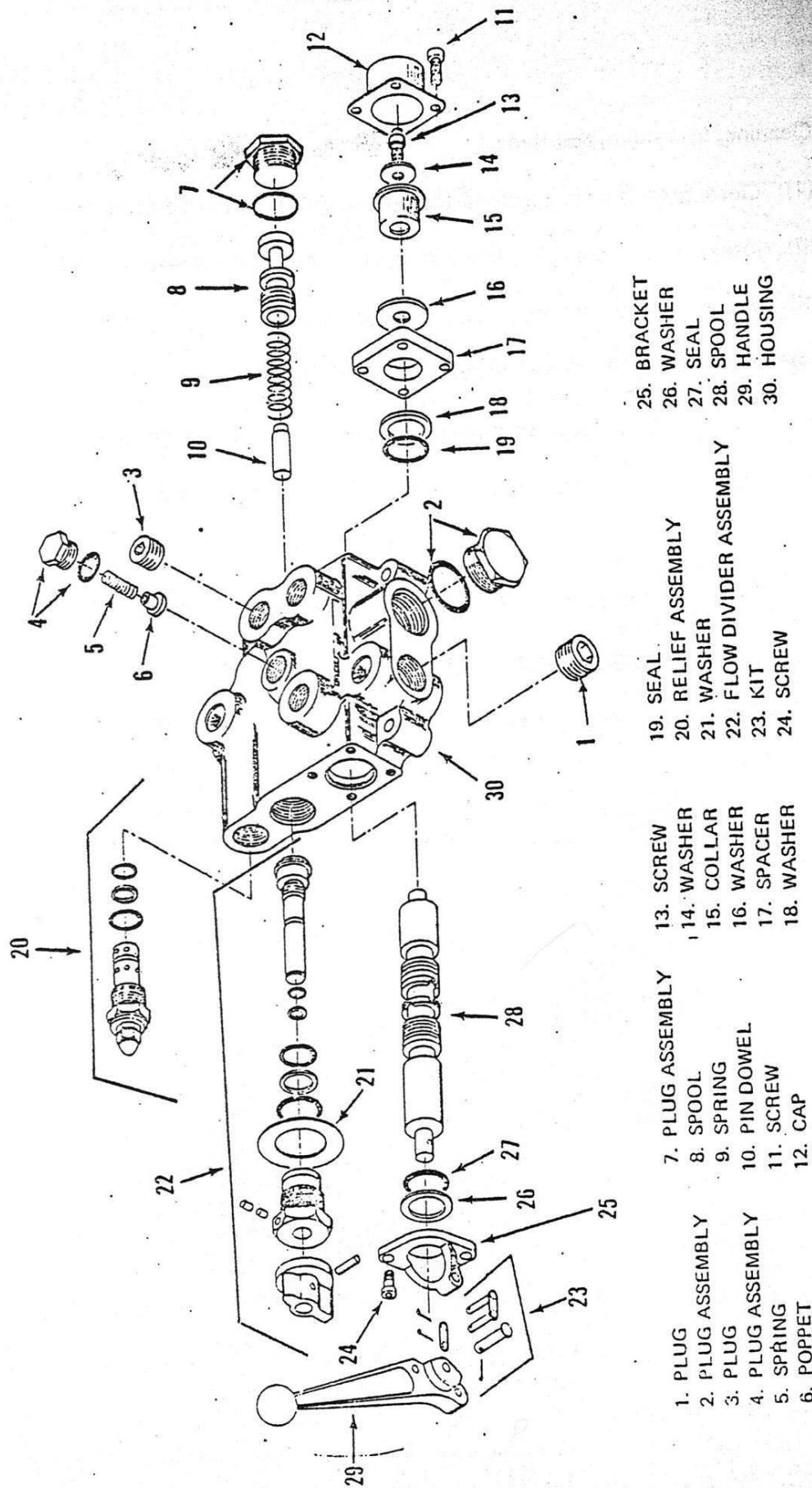


Figure 3-22. Water Injection System Control Valve

b. Cleaning, Inspection, and Repair.

- (1) Clean all parts in an approved solvent and dry with filtered compressed air.
- (2) Inspect the handle (29) for cracks, breaks, and excessive wear at pivot pin and control pin holes.
- (3) Inspect flow divider spool (28) for scores, cracks, or excessive wear.
- (4) Check spring (9) for resiliency, breaks or distortion.
- (5) Replace any defective excessively worn seals.
- (6) Replace any components that are excessively worn or damaged beyond simple repair.

c. Reassembly

- (1) Reassemble the control valve by reversing disassembly procedures.
- (2) Operate the system and check for leaks.