

# DAVIS VALVE

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## INSTALLATION, OPERATION AND MAINTENANCE INSTRUCTION MANUAL

### Equipment Description **Double Door Wafer Check**

#### Installation and Operation

1. Remove the valve from carton or packing skid.
2. The protective rust proof coating on the internal parts of steel or cast iron valves should be removed by brushing out with any standard petroleum solvent (Varsol, Kerosene), and air dry. Insure internal parts operate freely.
3. Stainless Steel or Bronze valves need only to be wiped clean and installed.
4. In horizontal flow installation, the hinge pin must be vertical.
5. Insert the valve between two companion flanges of the same series as the valve and place gaskets on flange faces. The arrow on the valve or nameplate indicating direction of flow should coincide with line flow. Install studs through companion flanges and tighten, using standard industry practice.
6. In liquid service we recommend valve be installed at least five (5) pipe diameters downstream from a pump discharge and/or other pipefittings for maximum service life. Consult factory.

#### Maintenance

**Caution! Make sure the valve is not under pressure before starting any maintenance.**

#### Disassembly \*\* (Refer to assembly drawing on next page)

1. Lay valve down with the downstream side of the valve upward.
2. Remove plugs (3)
3. Remove stop pin (2).
4. Remove hinge pin (3) out of the body (9) while holding spring(s) firmly as some are preloaded and may snap out. Observe caution.
5. Remove springs (5), plates (6), and bearings (6), (7), (8).

#### Assembly \*\*

1. Lay body down with downstream side of valve upward.
2. Clean all parts in a suitable solvent.
3. Position both plates (4) in body (9) with hinge lugs together and align with pin holes.
4. Lay springs (5) in plate (4) recess, between lugs, wind spring legs 180°, install with legs contacting each plate.
5. Insert all bearings and washers provided, (6) (7) and (8).
6. Insert hinge pin (2) through plate lugs (4), bearings and washers (6), (7) (8), and through spring coils (5).
7. Install hinge pin retainers (3) and stop pin retainers (3) using PTFE tape or a suitable thread sealing compound.

\*\* No special tools are required.