

**USA Ground Operations CIL Sheet**

**Critical Item:** Valve, Flow Control  
**NASA Part No:** None  
**Mfg/Part No:** Deltrol Fluid Prod. Div. / EF20S  
**System:** Facility Water System

**Criticality Category:** 1S  
**Total Quantity:** 3

Find No.	Qty	Area	PMN	Baseline	Drawing / Sheet
A526648 (V-10.1)	1	Pad-B	K60-0049-01	007.00	79K40019 / 7
A526652 (V-10A.1)	1	Pad-B	K60-0049-01	007.00	79K40019 / 7
A526656 (V-12.1)	1	Pad-B	K61-3370-01	007.00	79K40019 / 7

**Function:**

Flow control valve reduces venting air flow rate from open side of the actuator on associated water control valve (allow adjustment of valve close rate). Bypass check valve allows full flow to open side of actuator in the opening mode.

Failure Mode No. Failure Mode	Failure Cause Failure Effect	Detection Method Time to Effect	Crit Cat
09SY03B-002.005  Check valve fail closed	Corrosion, contamination, or failure of internal piece part  Reduce associated water control valve opening rate well below design opening rate. Loss of timely flow of Firex water to the associated area. Possible loss of life and/or vehicle during a hazardous condition.	Water valve position switch  Immediate	1S

**ACCEPTANCE RATIONALE**

**Design:**

- Rated operating pressure 5000 psig,
- Burst pressure 20000 psig.
- Actual operating pressure 125 psig.

**Test:**

- OMI M2088 requires cycling of perimeter area water valves to verify proper operation.
- OMRSD, File VI requires verification of the operational function of the water valve in all modes of operation annually and at replacement. (Note: Water valve operational function verification ensures valve opens within design opening rate which also verifies check valve has not failed.)

**Inspection:**

- OMI M6045 requires the inspection of the firex valves for signs of corrosion and/or contamination.

**Failure History:**

- Current data on test failures, unexplained anomalies, and other failures experienced during ground processing activities can be found in the PRACA database. The PRACA database was researched and no failure data was found on this component in the critical failure mode.
- The GIDEP failure data interchange was researched and no failure data was found on this component in the critical failure mode.

**Operational Use:**

Correcting Action	Timeframe
There is no action which can be taken to mitigate the failure effect.	Since no correcting action is available, timeframe does not apply.