



LEGEND

REGULATOR (WITH REMOTE SENSING)
REGULATOR
ORIFICE
FLAME ARRESTOR
RELIEF VALVE
VENT & RELIEF VALVE
CHECK VALVE
ANTI-FLOOD VALVE
LEVEL SENSOR

PNEUMATIC ACTUATED VALVE
TEMP SENSOR
PORT
HYDRAULIC ACTUATED ENGINE VALVE
QUICK DISC. COUPLING WITH CHECK VALVE
TEST PORT
DISCONNECT CAP
FLANGE

6 & 8 FT3 POGO ACCUMULATOR (SSME)
SENSE LINE
FACILITY PORT
FLOW CONTROL VALVE HIGH FLOW/LOW FLOW
STORAGE SPHERE
SURGE CHAMBER
2-WAY SOLENOID (NORMALLY CLOSED)
3-WAY SOLENOID (NORMALLY CLOSED)

DIFFUSER
PUMP
QUICK DISC. COUPLING WITHOUT VALVE
QUICK DISC. COUPLING WITH VALVE THAT OPENS ON MATING
NORMALLY CLOSED
N.O.
VALVE WITH INTERNAL RELIEF
PRESSURE TRANSDUCER

GENERAL NOTES:
1. LINE SIZES 8.00 IN. AND 12.00 ARE INTERNAL DIAMETER. ALL OTHER LINE SIZES ARE OUTER DIAMETER.
2. PREFIX TO ALL REFERENCE DESIGNATOR NUMBERS IS 50V41. (EXAMPLE OF COMPLETE NUMBER 50V41LV1). EXCEPT TK6 THRU TK11 IS 40V41.
3. THE LO2 BLEED SYSTEM AT EACH ENGINE INTERFACE CONSISTS OF A DUAL CHECK VALVE AND ORIFICE ASSEMBLY PACKAGE.
4. REPRESS SYSTEM CONTROL ORIFICE ARE IN LINE WITH THE CONTROL VALVE. THE "NOMINAL FLOW" ORIFICE ARE IN PARALLEL WITH CONTROL ORIFICE/VALVE.
5. THE SAME ACTUATOR IS USED FOR THE FIVE MAIN ENGINE VALVES: MFV, MOV, FPOV, OPOV, AND CCV. EXCEPT THE MFV AND MOV DO NOT CONTROL SEQUENCE VALVES.
6. INSTRUMENTATION REFERENCES ARE FOR ALTERNATE PID NAMES THE X SHOULD BE REPLACED WITH ONE OF THE THREE ENGINE POSITIONS (EXAMPLE HPOT DS TEMP X0215 = 10215 OR X0215 OR X0215 FOR ENGINE POSITIONS 1, 2 AND 3 RESPECTIVELY. SUBSTITUTE 541 FOR 1 IN ALL MSLD CALLOUTS ON SSMEs.
7. DELTA PRESSURE TRANSDUCERS (MT50 (LOX) & MT44 (LH2)) REMOVED POST STS-116.
8. LH2 INLET TEMPERATURE SENSOR REMOVED POST STS-65.

Space Shuttle Main Propulsion System (MPS) with Space Shuttle Main Engine (SSME)
Propulsion Systems Engineering & Integration (PSEI)
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