

USA Ground Operations CIL Sheet

Critical Item: Orifice (Generic)
NASA Part No: See Table 4
Mfg/Part No: See Table 4 /
System: See Table 4

Criticality Category: 2
Total Quantity: 18

Find No.	Qty	Area	PMN	Baseline	Drawing / Sheet
See Table 4	36	See Table 4	See Table 4	NA	NA

Function:

Provides a measured opening through which fluids or gasses are conveyed under pressure to support systems operations.

Failure Mode No. Failure Mode	Failure Cause Failure Effect	Detection Method Time to Effect	Crit Cat
None	Material Failure	NA	2
See Table 4	Loss of capability to convey media could result in loss (damage) of a vehicle system	NA	

ACCEPTANCE RATIONALE

Design:

- GSE systems are designed in accordance with applicable Program and Project specifications and standard:
- Orifice is capable of accommodating, without clogging, the maximum particulate rating of the system.

Test:

- Functional / Acceptance tests are performed at initial procurement. .

Inspection:

- KSC procedures require periodic inspection to suit individual system requirements.

Failure History:

- Current data on test failures, unexplained anomalies, and other failures experienced during ground process activities can be found in the PRACA database.

Table 4. Criticality Category 2 Orifices

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PMN	Find No.	Svstem	Manufacturer	Quantitv
SAA No.	NASA P/N	Area	Mfg P/N	Failure Mode
A70-1136	O1	PRCS Universal Throat Plug Assy	Lee Co	18
SSD94FO045	None	OPF, HMF, Pad	VDLA-4326730H	Clogs
A77-1214	01	Tiger Adjustable Height Mobile Access Platform	Up-Right	4
00KS01-014	None	RPSF	5944-00	Clogs
A77-1214	01	Tiger Adjustable Height Mobile Access Platform	Up-Right	4
00KS01-014	None	VAB	5944-00	Clogs
A77-1214	02	Tiger Adjustable Height Mobile Access Platform	Up-Right	4
00KS01-014	None	RPSF	5944-00	Clogs
A77-1214	02	Tiger Adjustable Height Mobile Access Platform	Up-Right	4
00KS01-014	None	VAB	5944-00	Clogs
S70-1312-01	A142923	GN2/GHe/Air Payload Purge System	Fluid Systems Engineering Inc	1
09GS01-011	None	MLP-1	N160228-SA	Clogs
S70-1312-01	A142923	GN2/GHe/Air Payload Purge System	Fluid Systems Engineering Inc	1
09GS01-011	None	MLP-2	N160228-SA	Clogs
S70-1312-01	A142923	GN2/GHe/Air Payload Purge System	Fluid Systems Engineering Inc	1
09GS01-011	None	MLP-3	N160228-SA	Clogs
S72-0111	A131539	LH2 Main Propulsion System	Allan Aircraft Supply Co	1
09PP03-001	79K80239-36	Pad-A	AA1589-11	Clogs
S72-0111	A131539	LH2 Main Propulsion System	Allan Aircraft Supply Co	1
09PP03-001	79K80239-36	Pad-B	AA1589-11	Clogs
S72-0111	A131540	LH2 Main Propulsion System	Allan Aircraft Supply Co	1
09PP03-001	79K80239-32	Pad-A	AA1589-32	Clogs
S72-0111	A131540	LH2 Main Propulsion System	Allan Aircraft Supply Co	1
09PP03-001	79K80239-32	Pad-B	AA1589-32	Clogs
S72-0685-05	A105998	LH2 Main Propulsion System	Allan Aircraft Supply Co	1
09PP03-001	79K80239-10	MLP-1	AA1589-10	Clogs
S72-0685-05	A105998	LH2 Main Propulsion System	Allan Aircraft Supply Co	1
09PP03-001	79K80239-10	MLP-2	AA1589-10	Clogs
S72-0685-05	A105998	LH2 Main Propulsion System	Allan Aircraft Supply Co	1
09PP03-001	79K80239-10	MLP-3	AA1589-10	Clogs
S72-0694-17	A106422	LO2 Main Propulsion System	None	1
09PP02-001	79K80239-13	Pad-A	None	Clogs

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SAA No.	NASA P/N	Area	Mfg P/N	Failure Mode
S72-0694-17	A106422	LO2 Main Propulsion System	None	1
09PP02-001	79K80239-13	Pad-B	None	Clogs
S72-0694-17	A518666	LO2 Main Propulsion System	None	1
09PP02-001	N120066-SKC	Pad-A	None	Clogs
S72-0694-17	A518666	LO2 Main Propulsion System	None	1
09PP02-001	N120066-SKC	Pad-B	None	Clogs