

E01-SAA09FT06-011
Sheet 14 of 18

SAA09FT06-011
Rev. C

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S040244
ATTACHMENT -
Page 9 of 68

SFP Item: Filter

Find Number: A103643

Criticality Category: 2

SAA No: 09FT06-011

System/Area: Fluid & Gas Subsystem P/L
Canister Transporter
A70-0892

NASA 79K80146-9
Part No:

PMN/
Name:

Mfg Technetics Division/
Part No: Brunswick Corp/Wintec Product Drawing/ 79K08346/
FR1564-0208 Sheet No: 2

Function: Filters GN₂ supplied to the payload interface Panels A, B, C, D, and E.

Critical Failure Mode: Pass contaminants (FMN 09FT06-011.009)

Cause: Internal part failure

Failure Effect: Possible damage to payload by contamination.

Acceptance Rationale

Design:

- | o Component Specification: | <u>Rated</u> | <u>Actual</u> |
|----------------------------|--------------|---------------|
| Pressure (psig) | 6000 | 75 |
| Flow (scfm) | 1450 | 4 |
| Temperature (°F) | -25 to 250°F | Ambient |
- o Materials: Housing - 300 series SST
Seals - Buna-N O-ring
Absolute micron rating - 10
 - o 24,000 psig burst pressure
 - o Element collapse pressure - 4500 psid

Test:

- o Filter was procured and accepted in accordance with the requirements of NASA component specification 79K80146.
- o Annual filter element change out and leak check and at filter element replacement per OMI E6401.

Failure History:

- o No MDAC PRACA failure history in the critical failure mode.

Operational Use:

- o N/A