

# **Propellant Filter Application Data Sheet (PFADS)**

### Date:

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| --- | --- | --- | --- | --- | --- |
| Contact Name: |  | | Company: |  | |
| Title: |  | | Email: |  | |
| Phone: |  | |  | | |
| Process Description: |  | | | | |
| Project Status: | Conceptual Design | Preliminary Performance Specifications | | | Fully Constrained Envelope |

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| Operating Environment Specification | | | | Filter Design Requirements | | | |
| Process Fluid: |  | | **Fluid Compatibility:** | |  | |
| Design Flow Rate (lbm/s): |  | | **Material of Construction:** | | 316/316L SS  Titanium Grade V  Other \_\_\_\_\_\_\_\_\_\_\_\_ | |
| Test Dust Used: | Arizona A4 Coarse  Arizona A2 Fine  Other \_\_\_\_\_\_\_\_\_\_\_ | | **Filtration Rating:** | | 1 µm  5 µm  10 µm  25 µm  Other: \_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| Clean Pressure Drop(psid): |  | | **Operating Pressure(psi):** | |  | |
| Dirt Capacity (mg): |  | | **Proof Pressure (psi):** | |  | |
| Max DP at Dirt Capacity (psid): |  | | **Max Mass (lb):** | |  | |
| Operating Temperature (°F): |  | | **Internal Cleanliness:** | |  | |
| Temperature (°F): | **Min:** |  | **Design Envelope:** | | Length**:** |  |
| **Max:** |  | OD**:** |  |

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| --- | --- | --- | --- |
|  | **Acceptance** | **Qualification** | **Value** |
| **Unit Quantity:** | \_\_\_\_ \_\_ | \_ \_\_\_\_ | each |
| **Burst:** |  |  | \_\_\_\_\_\_\_\_\_\_\_\_ psia |
| **Static Collapse:** |  |  | \_\_\_\_\_\_\_\_\_\_\_\_ psia |
| **Surge (Dynamic Collapse):** |  |  | \_\_\_\_\_\_\_\_\_\_\_\_ psi/sec |
| **Vibration:** |  |  | \_\_\_\_\_\_\_\_\_\_\_\_ Max grms |
| **Shock:** |  |  | \_\_\_\_\_\_\_\_\_\_\_\_ SRS (g) |
| **Mechanical Loading:** |  |  | \_\_\_\_\_\_\_\_\_\_\_\_ |
| **Other:** |  |  | \_\_\_\_\_\_\_\_\_\_\_\_ |
| **Standard Testing Performed:** | Filtration Efficiency, Proof, Bubble Point, Mass, Flow vs. Pressure Drop, Helium Leak | | |