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# **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 |

|  |  |
| --- | --- |
| 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**:** |   |

|  |  |  |  |
| --- | --- | --- | --- |
|  | **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 |