**ASME PVHO-1-2023**

**PVHO-1 Form VP-2 Acrylic Window Design Certificate Page 1 of 2**

|  |  |  |
| --- | --- | --- |
| **Window Description** | **Window Drawing No:** |  |

|  |  |  |
| --- | --- | --- |
| Maximum allowable working pressure |  | psi Mpa |
| Maximum design temperature |  | °C °F |
| Minimum design temperature |  | °C °F |
| Window shape |  |  |
| Conversion factor table number |  |  |
| Pressure range, N |  |  |
| Conversion Factor |  | CF at °C °F |
| Maximum internal ambient temp |  | °C °F |
| Minimum external ambient temp |  | °C °F |
| Short-term critical pressure and fig. no. |  |  |

**Experimental Verification (Note (1))**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Thickness t (actual) |  |  | No.1: |  | No.2: |  |
| Do (actual) |  |  | No.3: |  | No.4: |  |
| Di (actual) |  |  | No.5: |  | STCP: |  |
| Water  Temperature | °C °F |  | (Note each test specimen FS for full scale and MS for model scale) | | | |
| Type of failure |  |  |  | | | |
| Test conducted at |  |  |  | | | |
| Test supervised by |  |  |  | | | |

|  |  |  |
| --- | --- | --- |
| **Window Design** |  |  |
| Inner Diameter, Di (nominal) |  |  |
| Outer Diameter, Do (nominal) |  |  |
| Included Angle (nominal) |  |  |
| External Radius of Curvature (nominal) |  |  |
| Minimum t (calculated) |  |  |
| Minimum t/Di (calculated) |  |  |
| Do/Df (nominal) |  |  |
| Di/Df (nominal) |  |  |
| Minimum Di (calculated) |  |  |
| Maximum Df (calculated) |  |  |

Page 3

**ASME PVHO-1-2023**

**PVHO-1 Form VP-2 Acrylic Window Design Certificate Page 2 of 2**

|  |  |  |
| --- | --- | --- |
| Diametral Interference/clearance between  Do of window and window seat at maximum  design temperature (calculated) |  |  |
| Diametral Interference/clearance between  Do of window and window seat at minimum  Design temperature (calculated) |  |  |
| Actual t (specified on drawings) |  |  |
| Actual Di (specified on drawings) |  |  |
| Actual Df (specified on drawings) |  |  |
| Actual Do (specified on drawings) |  |  |
| Actual external radius of curvature  (specified on drawings)  (spherical or cylindrical) |  |  |
| Drawing No of window |  |  |
| Drawing No of flange |  |  |
| Drawing No of assembly |  |  |
| Description of pressure vessel  (for which the window has been designed) |  |  |

|  |  |  |
| --- | --- | --- |
| The viewport design complies with all the requirements of the Safety Standard for Pressure Vessels for Human Occupancy subsection 2-2 | | |
|  |  |  |
| Viewport Designer |  | Date |
|  |  |  |
| Authorised representative of chamber manufacturer or owner |  | Date |
|  |  |  |
| Name and address of chamber manufacture or owner |  | Date |
|  |  |  |

Red = Minimum required information.

Page 4