

ASME PVHO-1-2012

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

Window Description

Window Drawing No

Maximum allowable working press

Maximum design temperature

Minimum design temperature

Window shape

Conversion factor table number

Pressure range, N

Conversion factor, CF

Short-term critical pressure and fig. no.

Experimental verification[Note (1)]

Thickness t (actual) \_\_\_\_\_

$D_i$  (actual) \_\_\_\_\_

$D_o$  (actual) \_\_\_\_\_

Water Temp \_\_\_\_\_ °F \_\_\_\_\_ °C

No.1: \_\_\_\_\_ No.2: \_\_\_\_\_

No.3: \_\_\_\_\_ No.4: \_\_\_\_\_

No.5: \_\_\_\_\_ STCP: \_\_\_\_\_

(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, D (Nominal)

Included Angle (Nominal)

External Radius of Curvature (Nominal)

Minimum  $t/D_i$  (Calculated)

Minimum t (Calculated)

$D_i/D_f$  (Nominal)

**ASME PVHO-1-2012**

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

Minimum  $D_i$  (calculated)

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Diametral interference/clearance between  $D_o$  of window and window seat at maximum design temperature (calculated)

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Diametral interference/clearance between  $D_o$  of window and window seat at minimum design temperature (calculated)

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Actual  $t$  (specified on drawing)

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Actual  $D_i$  (specified on drawings)

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Actual  $D_o$  (specified on drawings)

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Actual external radius of curvature (specified on drawings) (spherical or cylindrical)

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Drawing No. of window

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Drawing No. of flange

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Drawing No. of assembly

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**Description of pressure vessel (for which the window has been designed)**

The viewport design complies with all of the requirements of the Safety Standard for Pressure Vessels for Human Occupancy Section 2-2	
Viewport Designer <hr/>	<hr/>
Authorised representative of chamber manufacturer or owner <hr/>	Date <hr/>
Name and address of chamber manufacturer or owner <hr/>	Date <hr/>

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NOTE:

(1) If STCP is determined experimentally according to para. 2-2.5.2, then the critical pressures of all five windows tested, the testing laboratory, the testing laboratory, and the test supervisor should be noted here.

**Red = Minimum Required information if Viewports are being certified by a third party. (Lloyds Register of Shipping, DNV, American Bureau of Shipping etc..)**

**FOR DNV CERTIFICATION: We Require the Vessel ID Number and Name, Prior to the Manufacture of your Viewports.**