

PVHO-I Form VP-2 Acrylic Window Design Certification

Window Description _____ Window Drawing No. _____

Maximum allowable working pressure _____ psi _____ MPa

Maximum design temperature _____ °F _____ °C Minimum design temperature _____ °F _____ °C

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) _____	No. 1 _____ No. 2 _____
Do (actual) _____	No. 3 _____ No. 4 _____
Di (actual) _____	No. 5 _____ STCP _____
Water temperature _____ °F _____ °C	(Note each test specimen FS for full scale or MS for model scale.)

Type of failure _____

Test conducted at _____

Test supervised by _____

Window Design

Inner diameter, Di (nominal) _____ Included angle (nominal) _____

External radius of curvature (nominal) _____ Minimum t/Di (calculated) _____

Minimum t (calculated) _____ Di/Df (nominal) _____

Minimum Di (calculated) _____

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 drawing) _____

Actual Di (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 of the requirements of the Safety Standard for Pressure Vessels for Human Occupancy, subsection 2-2.

viewport designer

date

authorized representative of chamber manufacturer or owner

date

name and address of chamber manufacturer or owner

date

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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, and the test supervisor should be noted here.