

Design Registration Document Checklist for Pressure Fittings

Fittings shall be registered in accordance with CSA B51 “Boiler, Pressure Vessel, and Pressure Piping Code” requirements. The following information and documentation are mandatory for all submissions:

- 1. A scope of product registration**
- 2. Drawings or catalogues detailing:**
 - a. Number and revision
 - b. Code of construction, including edition and if applicable, addenda
 - c. Material specifications
 - d. Identification markings
 - e. Pressure and temperature ratings
 - f. Dimensions
- 3. Calculations**
 - a. Provide calculations and documentation as per the latest Code of Construction Edition and addenda unless the submission details reasons for using an earlier edition or addenda.
 - b. Provide sufficient information to verify that all applicable requirements of the specified Code of Construction have been complied with.
 - c. If exemptions from specific code requirements are utilized in the design, the specific code section and subsection permitting the exemption must be identified and supported by an explanation or reason detailing how the exemption applies to the design.
 - d. Provide formulas used and reference the appropriate code section.
- 4. A British Columbia Declaration of Conformity must be prepared and uploaded with each application. See Declaration of conformity for registration of fittings form and Table 2 for more details.**
- 5. Valid Quality Management System (QMS) certificate**
 - a. A valid QMS certificate must be uploaded and demonstrate the manufacturer’s quality control program. The certification requirements and examples must be referenced from Annex F in CSA B51 (e.g.: ISO 9001 certification, documentation from a regulatory authority or authorized inspection agency).
 - b. The QMS certificate must not be expired.
 - c. See Table 2 for more details.
- 6. Letter of Authorization from manufacturer**
 - a. A letter of authorization from the manufacturer may be required, see Table 2.

Engineered Pressure Enclosures

Engineered Pressure Enclosures (EPE) are mechanical components that temporarily seal leaks on compromised pressure equipment when it is impractical to shut down for immediate repair. Engineered Pressure Enclosures have additional documentation requirements that must be fulfilled. Please refer to this [Information Bulletin](#) for more information.

Other codes and standards

Submissions for fittings conforming to a code other than the ASME Boiler and Pressure Vessel Code or ASME Code for Pressure Piping, require a copy of the applicable code or standard. The code or standard must be translated into English if necessary. The code or standard must detail requirements for materials, dimensions, pressure/temperature ratings and markings.

Exemptions

Fittings shall be registered in a category listed in Table 1 of CSA B51 with the exception of Categories A, B, C, and G which are exempted from registration as per Directive No. D-BP 2013-03: <https://www.technicalafetybc.ca/regulatory-resources/regulatory-notice/directive-exemption-registration-requirements-category-b-c-and-g-category-fittings>

Note: Exemption from registration does not exempt the pressure fitting from meeting the requirements of the Act and Regulations.

Additional information:

1. It shall not be necessary to register separately each fitting design in a category. Separate registration of each fitting design in a category is not required.
2. Fitting registrations are only valid if a current certification of the manufacturer's quality control program is on file with Technical Safety BC. The manufacturer's quality control program shall be recertified at a maximum interval of five years. All fitting registrations must be revalidated ten years after the date of initial registration.
3. Upon satisfactory review of the fitting registration documentation, a Design Registration Letter will be provided. No other documents will be stamped or returned to the applicant.
4. When multiple fittings are being registered in a submission, we recommend including a Scope of Fitting Design Registration Summary. This document should list all fittings being registered, and include design conditions and references for each fitting. Table 1 shows an example of a Scope of Fitting Design Registration Summary. The applicant is not required to follow this specific sample format as their Scope of Fitting Design Registration Summary.

Table 1: Sample Scope of Fitting Designs Table

Item No.	Type / Model / Size	Product Description	Material of Construction	Minimum Temperature	Rated Pressure at Ambient	Rated Pressure at Maximum Temperature	References (Drawing # incl. Revision or Catalog incl. Pages)
						___@___	
						___@___	
						___@___	

Table 2:

Applicant	"Registered to" Organization*	Letter of authorization**	Declaration of Conformity (DoC)***	Quality Management System (QMS) Certificate
Manufacturer	Manufacturer	N/A	One DoC per manufacturing location. Includes name and position of the person completing the declaration. This person must be in a position of authority, who can commit the manufacturer to a legally binding contract.	Valid QMS certificate for each manufacturing location.
Other than manufacturer	Manufacturer	Required from manufacturer.	One DoC per manufacturing location. Includes name and position of the person completing the declaration. This person must be in a position of authority, who can commit the manufacturer to a legally binding contract.	Valid QMS certificate for each manufacturing location.
Other than manufacturer	Other than manufacturer	Required from manufacturer. The letter must include both the following: 1. A statement authorizing the Applicant to apply for design registration on behalf of the manufacturer, and 2. A statement authorizing the Applicant to take responsibility of the fitting design on behalf of manufacturer.	1. One DoC per manufacturing location from the manufacturer. Includes name and position of the person completing the declaration. This person must be in a position of authority, who can commit the manufacturer to a legally binding contract. 2. Per CSA B51 4.2.5: Additional DoC is required for the organization taking responsibility ("Registered to" organization*).	1. Valid QMS certificate for each manufacturing location. 2. Valid QMS certificate from the "Registered to" party.

* "Registered to" organization is the organization in the "Registered to" section of the design registration application.

** Letter of authorization: letter from manufacturer authorizing an applicant other than the manufacturer to apply for or to take responsibility for a CRN registration on their behalf.

*** The Declaration of conformity for registration of fittings form and the Guide for completing the Declaration of Conformity are located on our website on the [design registration page](#) .