

# TITAN RESEARCH GROUP

Canadian Fittings  
Registration Services



## Are you selling any of the following products relating to pressure retaining systems for use in Canada?

- ▶ Level, flow, pressure, temperature instrumentation and switches
- ▶ Analytical Instrumentation
- ▶ Process sensors
- ▶ Thermal wells
- ▶ Diaphragm seals
- ▶ Welded instrumentation assemblies

All of the above products are considered to be pressure retaining fittings in Canada and may require a Canadian Registration Number (CRN).



## Do you have a valid Canadian Registration Number (CRN) for your instrumentation product?

Canadian regulations require that a valid Canadian Registration Number be obtained before any pressure retaining fitting rated for operation greater than 15 psi is sold for use in Canada. The Technical Standards and Safety Act 2000, Regulations for Boilers and Pressure Vessels, and the CSA B51-03 Standard outline further details and exceptions.

Compliance with the European Pressure Equipment Directive (PED) is not equivalent to having a valid CRN. The CRN can only be granted upon the satisfactory completion of a distinctly Canadian application process.

## Does a CRN need to be renewed?

A CRN for a fitting class product is not permanent and expires after a certain period of time.

## Is the renewal of CRN automatic upon application?

No. The renewal of a CRN is subject to the pressure retaining fitting being demonstrated as compliant with current requirements of the most up-to-date regulations and standards.



## How can a CRN be obtained?

To obtain a CRN in Canada, a manufacturer of a pressure retaining fitting is required to prepare province-specific submission documentation as well as proof of product compliance with applicable regulations and standards.

The registration process is not simple, and depending on the configuration of the product, registration may require witnessed burst-test and code calculations demonstrating the product's maximum allowable working pressure. In addition, product manufacturing process updates or design modification may be necessary in order to obtain the maximum allowable working pressure desired. Furthermore, all manufacturers shall have and maintain a recognized quality program, ensuring that all the requirements of the applicable regulations and standards are met.



## How can Titan Research Group assist you in obtaining a valid CRN?

Titan Research Group is a Canadian engineering firm specializes in assisting manufacturers of instrumentation, sensor or seal products to renew or obtain Canadian Registration Numbers.

Titan Research Group provides the following engineering services:

- Registration documentation preparation for Canada-wide or provincial CRN applications
- Analysis of pressure boundary assemblies for individual and catalogue products
- Recommendation of applicable CSA B51-03 references
- Specification and organization of witnessed burst-testing
- Recommendation of manufacturing process updates relevant to a CRN registration such as welding and brazing qualification requirements and post-production testing
- Liaison with CRN review authorities

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