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September28, 2017

SUSAN TURNER  
PARKER HANNIFIN INSTRUMENTATION GROUP CANADA  
4635 DURHAM RD S  
GRIMSBY ON L3M 4G4  
CA

Service Request Type.: BPV-National BC  
Service Request No.: 2134440  
Your Reference No.: MPI RENEWAL  
Registered to.: PARKER HANNIFIN - INSTRUMENTATION PRODUCTS DIVISION

Dear SUSAN TURNER,

Please find enclosed the original response from BC, registered under the CRN No.: 0A11716.51.

As all jurisdictional fees are handled by the Technical Standards and Safety Authority (TSSA), you do not pay any jurisdictions directly.

Should you have any questions or require further assistance, I will be happy to assist you. For general enquiries, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail [customerservices@tssa.org](mailto:customerservices@tssa.org). When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

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TECHNICAL STANDARDS & SAFETY AUTHORITY  
345 CARLINGVIEW DRIVE  
TORONTO ON M9W 6N9

**Date:** August 28, 2017  
**Account #:** 35231  
**Journal #:** 68777  
**Our File #:** 5620133

**Attn:** TANYA FRANCIS

**Re:** Application for Design Registration

The design, as detailed in your, TSSA SR# 2134440, for a Fitting is accepted for registration as follows:

**Registered To:** PARKER HANNIFIN CORP.      **CRN:** 0A11716.51

**Drawing #:** Cat:4234 sz4,6,8 & 9 pgs13to32

**Conditions Of Registration:**

Registration renewal of MPI (trademark) Line of Fittings as per attached scope sheet.

This design was registered based on a technical review performed by the province of initial registration in accordance with the Association of Chief Inspectors policy on reciprocal recognition of design review.

**Reviewer's Notes:**

Super Duplex 2507 previously added to possible materials of construction. As required by CSA B51 4.2.1, this registration expires on July 24, 2027. This CRN is valid until the expiry date as long as the Manufacturer maintains a valid quality control program verified by an acceptable third-party agency until that date. Should the certification of the quality control program lapse before the expiry date, this registration shall become void.

Contact me if you have any questions. The invoice for registration will be forwarded under separate cover.

SHARON PETERS

boiler.designregistration@safetyauthority.ca  
Design Administration

**cc:**



Parker Hannifin Corporation  
 Instrumentation Products Division  
 1005 A Cleaner Way  
 Huntsville, AL 35805  
 Office 256-881-2040  
 Fax 256-881-5072

April 10, 2017



*Walter July 29/17*

**SCOPE OF REGISTRATION RENEWAL 0A11716.5**

The scope of this registration renewal are the fittings, Size 4, 6, 8, and 9, listed on pages 13 through 32 of Catalog 4234, Medium Pressure Products, dated April 2015. These are the same fittings as were covered by the existing registration. The design of these fittings has not changed since the original registration. A change was made to previous catalog offerings to add an additional material, as described below. This addition was processed as an addendum to the previous registration 0A11716.5ADD1 and is recreated below for inclusion in this renewal.

Super Duplex 2507 (UNS 32750) stainless steel has been added to the possible materials of construction for the MPI line of fittings (Sizes 4, 6, 8, & 9). The existing registration for the MPI line of fittings is based on calculations and supplemental burst tests using Type 316 stainless steel materials as listed in the existing registration (shown below):

Spec	Material Designation	Hex	Tensile	Yield	Stress
SS-60	ASME-SA-479, Type 316	1 1/4"	100Ksi	80Ksi	33.3Ksi
SS-85	ASME-SA-479, Type 316/316L	1 1/4"	100Ksi	80Ksi	33.3Ksi
SS-63	ASTM-A-276, Type 316	1 3/4" <sup>(1)</sup>	125Ksi	105Ksi	41.6Ksi
SS-91	ASME-SA-213 & 269, Type 316	1" <sup>(2)</sup>	105Ksi	70Ksi	35.0Ksi

- (1) rectangular bar stock
- (2) 1/8 hard tubing

The additional new material is:

Spec	Material Designation	Hex	Tensile	Yield	Stress
SS-15	ASTM-A-479, UNS 32750	1 1/4"	116Ksi	80Ksi	38.7Ksi
SS-15	ASTM-A-479, UNS 32750	1 3/4" <sup>(1)</sup>	116Ksi	80Ksi	38.7Ksi

- (1) rectangular bar stock

Parts made from this alternate material would have no changes to the form, fit, function, configuration or dimensions from those used in parts made from the Type 316 stainless steel listed in the original registration. The calculations in the original registration were based on the lowest allowable stress for the material listed in catalog as shown above. The allowable stress for the alternate material is greater than the lowest used in all the calculations in the original registration.

*Fredrick Roy*  
 Fredrick Roy, P.E.

April 10, 2017  
 Date

Project Engineer - Quality  
 Certifications, Registrations  
 and Nuclear Products