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July 24, 2017

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

Service Request Type: BPV-Fitting Registration
Service Request No.: 2105686
Your Reference No.: MPI RENEWAL
Registered to: PARKER HANNIFIN - INSTRUMENTATION PRODUCTS DIVISION

Dear SUSAN TURNER,

Technical Standards and Safety Authority (TSSA) is pleased to inform you that your submission has been reviewed and registered as follows:

CRN No.: 0A11716.5R2
Main Design No.: Catalog 4234 (April 2015) Pages 13 through 32 - see the attachment to the
Statutory Declaration Form for the scope of registration
Expiry Date: 24-Jul-2027

Please be advised that a valid quality control system must be maintained for the fitting registration to remain valid until the expiry date.

The stamped copy of the approved registration and the invoice are mailed separately. Should you have any questions or require further assistance, please contact a Customer Service Advisor at 1.877.682.TSSA (8772) or e-mail customerservices@tssa.org. We will be happy to assist you. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,



Mark Valcic P. Eng.
Engineer Specialist BPV
Tel.: 416-734-3494
Fax: 416-231-1626
Email: mvalcic@tssa.org



TECHNICAL STANDARDS & SAFETY AUTHORITY
 14th Floor, Centre Tower
 3300 Bloor Street West
 Toronto, Ontario
 Canada M8X 2X4

Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below

see attached

STATUTORY DECLARATION

Registration of Fittings

I, Tony Wyszowski, General Manager
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of Parker Hannifin, Instrumentation Products Division
(Name of Manufacturer)

Located at 1005 A Cleaner Way, Huntsville, AL 256-881-2040 256-881-5072
(Plant Address) (Telephone No.) (Fax No.)

do solemnly declare that the fittings listed hereunder, which are subject to the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, comply with all of the requirements of

(Title of recognized North American Standard)

which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;

or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with ASME B31.3 as supported by the attached data which identifies the dimensions, material of construction, pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service.

I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of ISO 9001:2008 which has been verified by the following authority, Det Norske Veritas.

The items covered by this declaration, for which I seek registration, are category A type fittings. In support of this application, the following information and/or test data are attached as follows:

Scope of Registration Renewal 0A11716.5, Design Report, Material specification ES-242, Catalog 4234 - April 2015

(drawings, calculations, test reports, etc.)

Declared before me at Huntsville, Madison County in the state of Alabama
 the 28th day of April AD 2017.

Commissioner for Oaths:

Sheri Coggan
(Printed name)

Sheri Coggan
(Signature)

[Signature]
(Signature of Declarer)

FOR OFFICE USE ONLY

To the best of my knowledge and belief, the application meets the requirements of the **Technical Standards and Safety Act**, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category A.

CRN: 0A11716.5R2
 Registered by: MARK VALCIC, P.ENG

Dated: July 24, 2017
 NOTE: This registration expires on: July 24, 2027

Technical Standards and Safety Authority
 Boilers and Pressure Vessels Safety Program

REGISTERED
 C.R.N. 0A11716.5R2
 Signed: [Signature]
 Date: July 24, 2017



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



Wiken July 24/17

April 10, 2017

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 process 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):

<u>Spec</u>	<u>Material Designation</u>	<u>Hex</u>	<u>Tensile</u>	<u>Yield</u>	<u>Stress</u>
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" ⁽¹⁾	125Ksi	105Ksi	41.6Ksi
SS-91	ASME-SA-213 & 269, Type 316	1" ⁽²⁾	105Ksi	70Ksi	35.0Ksi

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

The additional new material is:

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