



345 Carlingview Drive
Toronto, Ontario
CANADA M9W 6N9
Tel.: 416.734.3300
Fax.: 416.231.1626
Toll Free: 1.877.682.8772
www.tssa.org

September13, 2018

PETER PRANGE
PARKER HANNIFIN CANADA INC
4635 DURHAM RD S;P.O. BOX 158
GRIMSBY ON L3M 4G4
CA

Service Request Type.: BPV-National CSA
Service Request No.: 2323086
Your Reference No.: ADDENDUM TO CRN 0B15184.5 TO INCLUDE ALL MATERIALS LISTED
Registered to.: PARKER HANNIFIN INSTRUMENTATION PRODUCTS

Dear PETER PRANGE,

Please find enclosed the original response from QC,SK, registered under the CRN No.:
CSA-0B15184.56ADD1.

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. When contacting TSSA regarding this file, please refer to the Service Request number provided above.

Yours truly,

Tanya Francis
Administrative Assistant_ BPV Engineering
Tel. : 416-734-3423
Fax : 416-231-6183
Email : tfrancis@tssa.org

REGISTERED



CRN: CSA-OB15184.S6A001

Registration Process administered by
CSA Group per CSA B51

Technical Safety Authority of Saskatchewan

2202 2nd Ave.

Regina, SK S4R 1K3

PH: (306)798-7112 Toll Free: (866)530-8599

FAX: (306)787-9273 Toll Free: (866)760-9255

Email: boilerpermits@tsask.caWebsite: www.tsask.ca

Statutory Declaration (Registration of Fittings)

TSK-1008

I. Declaration Information

I, Marcus AshfordSite Engineering Manager(company title, e.g. vice president, plant manager, chief engineer)
(must be in a position of authority in the manufacturing plant where the fitting is produced)In this space, show facsimile of
manufacturer's logo or trademark as it will
appear on the fitting.of: Parker Hannifin IPDE

(name of manufacturer)

located at: Riverside Road

(Plant Address - Apt/Street)

Barnstaple, Devon UK

(City/Prov)

EX32 1NP

(Postal Code)

do solemnly declare that the fittings listed hereinunder, which are subject to the **Saskatchewan Boiler and Pressure Vessel Safety Act** (check one)

☐ Comply with the requirements of _____ which specifies the dimensions,
(title of recognized North American Standard)
Materials of construction, pressure / temperature ratings and identification marking of the fittings, or

☒ Are not covered by the provisions of a recognized North American standard and are therefore manufactured
to comply with ASME B31.3 and ASME B16.5 as supported by the attached
data which identifies the dimensions, materials of construction, pressure / temperature ratings and the basis
for such ratings, and the marking of the fittings for identification.

I further declare that the manufacturer of these fittings is controlled by a quality control program which has been
verified by the following authority, ISO 9001:2015 as being suitable for the manufacturer
of these fittings to the stated standard. The fittings covered by this declaration, for which I seek registration, are
Catalog 4190 FP-ACC

In support of this application, the following information, calculations and / or test data are attached:

FCB report, note CRN 0A6793.5 exists in respect to a portion of this design

II. Declaration

DECLARED before me at Barnstaple In the County of Devon UK
this 26th day of February, 2018
MARCUS ASHFOR (print name) [Signature] (Signature)
[Signature] (Signature of Commissioner of Oaths) Notary Public

III. Office Use Only

To the best of my knowledge and belief, the application meets the requirements of the **Boiler and Pressure Vessel Safety Act** and
CSA B51, Clause 4.2, and is accepted for registration in Category

CSA-OB15184.S6A001

(Registration Number)

July 09 2018(Date Registered - MM DD YYYY)
(For the Administrator / Chief Inspector)May 22 2022

(Expiry Date - MM DD YYYY)

A. BANWATT

*Note: See the attachment for the scope of the registration.



TSK-1008

Rev. 10/2012

Page 1 of 1

Statutory Declaration Registration of Fittings

(a) Design Qualification

I¹ Marcus Ashford, Site Engineering Manager

(Position eg, president, plant manager, chief eng.)

Of Parker Hannifin IPDE

(name of company)

Located at Riverside Road, Barnstaple, Devon, UK EX32 1NP with additional manufacturing at 265 Alabama Highway 21 North, Jacksonville Alabama, USA

(plant address)

do solemnly declare that the fittings listed hereunder, which are subject to the Boilers & Pressure Vessels Act:

☐ comply with all the requirements of the ANSI/ASME codes as to their dimensions, material, identification & service for which are required:

Or

☒ are not covered by the provisions of the ANSI/ASME codes, and are therefore constructed to comply with ASME B31.3 and ASME B16.5 code and standard, and are designed to the best current engineering practice, as shown by the supporting test data.

(b) Quality control of Manufacture

I further declare the manufacture of these fittings is controlled by a quality control program which complies with the requirements of ISO 9001:2015, and has been verified by the following authority or authorized agency DNV Management Systems

The fittings² covered by this declaration, for which I seek registration, are Catalog 4190-FP-ACC
FCB report NB CRN 0A6793.5 exists in respect to a portion of this design

In support of the application, the following information, calculations and/or test data are attached:

Declared before me at Barnstaple Devon UK

In the of Parker Hannifin of Devon UK

The 21 Day of February AD 19 2018

A (commissioner for oaths)

Signature of Declarer

For Official Use Only

The application is accepted for registration in Category _____ in accordance with the Boilers and Pressure Vessels Act and CSA Standard B51.

This registration must be revalidated after ten (10) years from the date of acceptance.

Registered Number CRN CSA-0B15184.56ADD1

For the Chief Inspector
Date

A. BANWATT
July - 09 - 2018

- 1 **Three completed copied of Statutory Declaration form together with three copies of Catalogs, drawings of Bulletins illustrating above fittings shall be submitted.**
- 2 **All fittings are required to be registered in the name of the Manufacturer.**
- 3 **This form shall be completed and signed by the president of highest official in the manufacturing plan where the fitting is produced.**



345 Carlingview Drive
Toronto, Ontario M9W 6N9
Tel: 416 734 3300
Fax: 416 231 1626
Toll Free: 1 877 682 8772

www.tssa.org

June 07, 2018

PETER PRANGE
PARKER HANNIFIN CANADA INC
4635 DURHAM RD S P.O. BOX 158
GRIMSBY ON L3M 4G4
CA

Service Request Type: BPV-Fitting Registration
Service Request No.: 2259636
Your Reference No.: ADDENDUM TO CRN 0B15184.5 TO INCLUDE ALL MATERIALS LISTED
Registered to: PARKER HANNIFIN INSTRUMENTATION PRODUCTS

Dear PETER PRANGE,

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

CRN No.: 0B15184.5ADD1

Main Design No.: ADD1 The addition of optional material SB462-N10276 (Alloy C276), SB564-N08825 (Incolloy 825) & SA182 F44 (6Mo Stainless Steel)

Expiry Date: 22-Mar-2022

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

NOTE: *The subject CRN includes only flanges with adapter extension. The Parker A-LOK Compression fitting has separate CRN 0A6793.5R3 which is valid until January 9, 2022.*

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



Material - Alloy C276 SB462 N10276

1/4" CWP (PSI) @				3/8" CWP (PSI) @			
Flange Rating		A-LOK Rating		Flange Rating		A-LOK Rating	
Class	100°F	Max Temp (1000°F)	100°F	Max Temp (1000°F)	100°F	Max Temp (1000°F)	100°F
2500	6250	3030	5500	3300	6250	3030	8900
1500	3750	1820	4500	3300	3750	1820	8900
900	2250	1090	5500	3300	2250	1090	8900
600	1500	725	5500	3300	1500	725	8900
300	750	365	5500	3300	750	365	8900
150	270	20	5500	3300	270	20	8900

1/2" CWP (PSI) @				5/8" CWP (PSI) @			
Flange Rating		A-LOK Rating		Flange Rating		A-LOK Rating	
Class	100°F	Max Temp (1000°F)	100°F	Max Temp (1000°F)	100°F	Max Temp (1000°F)	100°F
2500	6250	3030	6900	4140	6250	3030	2800
1500	3750	1820	6900	4140	3750	1820	2800
900	2250	1090	6900	4140	2250	1090	2800
600	1500	725	6900	4140	1500	725	2800
300	750	365	6900	4140	750	365	2800
150	270	20	6900	4140	270	20	2800

Minimum Design Metal Temperature: - 20 °F



X = Products not to be submitted

ATTACHMENT TO

C.R.N. CSA-0315184.5A1D1

Signed: *[Signature]*

178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3

THIS IS PART OF
CRN 0315184.5A1D1
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program
[Signature]

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DRAWING TITLE:

FLANGE TO COMPRESSION CONNECTOR
FLANGE HUB WALL THICKNESS CALCULATIONS

ALL DIMENSIONS IN mm WITH IMPERIAL EQUIVALENTS IN PARENTHESES

REV No	IF IN DOUBT ASK	WWW.PARKER.COM/FPD
D	Version No	
ECO No	ECO DATE	UNLESS STATED 3rd ANGLE PROJECTION
ECO-0235578	23/02/2018	
DRAWN BY	DRAWN DATE	
James Nelson	23/02/2018	
DESCRIPTION OF REV / VERSION CHANGE		



CHECKED & APPROVED BY: APPROVAL USING
ELECTRONIC ENOVA ECO WORKFLOW

ENGINEERING TEAM SUCCESS

FCB CRN REPORT

Material - Alloy 825 SB564 N08825

1/4" CWP (PSI) @				3/8" CWP (PSI) @			
Flange Rating		A-LOK Rating		Flange Rating		A-LOK Rating	
Class	100°F	Max Temp (1000°F)	100°F	Max Temp (800°F)	100°F	Max Temp (1000°F)	100°F
2500	6250	3030	11000	8030	6250	3030	7600
1500	3750	1830	7100	4830	3750	1830	5548
900	2250	1090	11000	8030	2250	1090	5548
600	1500	725	11000	8030	1500	725	5548
300	750	365	11000	8030	750	365	5548
150	375	183	11000	8030	375	183	5548

1/2" CWP (PSI) @			
Flange Rating		A-LOK Rating	
Class	100°F	Max Temp (1000°F)	Max Temp (800°F)
2500	6250	3030	4307
1500	3750	1830	4307
900	2250	1090	4307
600	1500	725	4307
300	750	365	4307
150	375	183	4307

Minimum Design Metal Temperature: - 20 °F



THIS IS PART OF CRN 013.1.18.4.564.011
Technical Standards & Safety
Boilers & Pressure Vessels
Safety Program

X = Products no to be submitted

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ALL DIMENSIONS IN mm WITH IMPERIAL EQUIVALENTS IN PARENTHESIS
DRAWING TITLE:
FLANGE TO COMPRESSION CONNECTOR
FLANGE HUB WALL THICKNESS CALCULATIONS

REV NO	IF IN DOUBT ASK	WWW.PARKER.COM/FPD
D		
ECO NO	ECO DATE	UNLESS STATED OTHERWISE PROJECTION
ECO-0235578	23/02/2018	
DRAWN BY	DRAWN DATE	
James Nelson	23/02/2018	
DESCRIPTION OF REV / VERSION CHANGE		

CHECKED & APPROVED BY: Approval Using Electronic ENOVA ECO WORKFLOW	ENGINEERING / R&D SUCCESS
FCB CRN REPORT	



1 2 3 4 5 6 7 8 9 10

Material - 6Mo Stainless Steel SA182 F44

1/4" CWP (PSI) @		A-LOK Rating		3/8" CWP (PSI) @		A-LOK Rating	
Class	100°F	Max Temp (752°F)	100°F	Max Temp (752°F)	100°F	Max Temp (752°F)	100°F
2500	6250	4422	6300	5292	6250	4422	8000
1800	3760	2655	6300	5292	3760	2655	8000
900	2250	1592	6300	5292	2250	1592	8000
600	1800	1263	6300	5292	1800	1263	8000
300	750	529	6300	5292	750	529	8000
150	390	265	6300	5292	390	265	8000

1/2" CWP (PSI) @		A-LOK Rating		3/4" CWP (PSI) @		A-LOK Rating	
Class	100°F	Max Temp (752°F)	100°F	Max Temp (752°F)	100°F	Max Temp (752°F)	100°F
2500	6250	4422	6200	5208	6200	5208	5200
1800	3760	2655	6200	5208	3760	2655	5200
900	2250	1592	6200	5208	2250	1592	5200
600	1800	1263	6200	5208	1800	1263	5200
300	750	529	6200	5208	750	529	5200
150	390	265	6200	5208	390	265	5200

1" CWP (PSI) @		A-LOK Rating	
Class	100°F	Max Temp (752°F)	Max Temp (700°F)
2500	X	X	X
1800	3760	2655	3696
900	2250	1592	3696
600	1800	1263	3696
300	750	529	3696
150	390	265	3696

CSA Group 40F6
X = Products no to be submitted
ATV Minimum Design Metal Temperature: -20 °F
C.R.N. 0315184.56A001
Signed: *[Signature]*
178 Rexdale Boulevard, Toronto, ON Canada M9W1R3

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CRN 0315184.56A001
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Program
[Signature] 3/18

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ALL DIMENSIONS IN mm WITH IMPERIAL EQUIVALENTS IN PARENTHESIS
DRAWING TITLE:

FLANGE TO COMPRESSION CONNECTOR
FLANGE HUB WALL THICKNESS CALCULATIONS

DO NOT SCALE	IF IN DOUBT ASK	WWW.PARKER.COM/IFD
REV No	Version No	UNLESS STATED
D	VI	3RD ANGLE
ECO-0235578	ECO DATE	PROJECTION
23/02/2018	23/02/2018	
DRAWN BY	DRAWN DATE	
James Nelson	23/02/2018	
DESCRIPTION OF REV / VERSION CHANGE		



ENGINEERING IS A SUCCESS.

FCB CRN REPORT

CHECKED & APPROVED BY: Approvals Unit
Electronic ENOVA ECO WORKFLOW

Technical
Standards
and Safety
Authority
Alberta
MUNICIPAL AFFAIRS

Boilers and
Pressure Vessels
Safety Program

REGISTERED

CRN: DB15184.5

Signed: Charley Dong

Date: MAR 22/12

CRN NOTE: (1) SEE ATTACHED "PART OF CRN"
FOR THE SCOPE.

(2) ABSA'S CRN, DB11767.2 IS REFERENCED.

AB-41 2005-1

ABSA
the pressure equipment safety authority
ATTACHMENT TO
STATUTORY DECLARATION
Registration of Fittings



5 OF 6

CX
ISSA
MAR 21/12

In this space, show facsimile
of manufacturer's logo or
trademark as it will appear on
the fitting

Signed: [Signature]
178 Rexdale Boulevard, Toronto, ON Canada M9W



I, Kevin Ballard

Core Engineering Manager

(company title, e.g. vice president, plant manager, chief engineer) (must be in a position of authority)

of Parker Hannifin, IPDE

(name of manufacturer)

located at Riverside Road, Barnstaple, Devon, EX31 1NP

(plant address)

do solemnly declare that the fittings listed hereunder, which are subject to the Safety Codes Act
(check one)

- ☐ comply with the requirements of _____ which specifies the dimensions,
(title of recognized North American Standard)
materials of construction, pressure/temperature ratings and identification marking of the fittings, 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,
materials of construction, pressure/temperature ratings and the basis for such ratings, and the marking of the fittings
for identification.

I further declare that the manufacture of these fittings is controlled by a quality control program which has been verified by the
following authority, DNV Mangement Systems as being suitable for the manufacture of these fittings to the
stated standard. The fittings covered by this declaration, for which I seek registration, are Flanged Connectors

In support of this application, the following information, calculations and/or test data are attached:

Flanged to Compression Connector Flange Hub Wall Thickness Calculations

Flanged Products Catlogue 4190-FP-ACC page 4

DECLARED before me at Barnstaple in the County of Devon

this 9th day of December, 2011
(Month) (Year)

(print) Kevin Ballard

(sign) [Signature]
(A Commissioner for Oaths) Notary Public

[Signature]
(Signature of Applicant)

For Office Use Only

To the best of my knowledge and belief, the application meets the requirements of the Safety Codes Act and CSA Standard
B51, Clause 4.2, and is accepted for registration in Category B

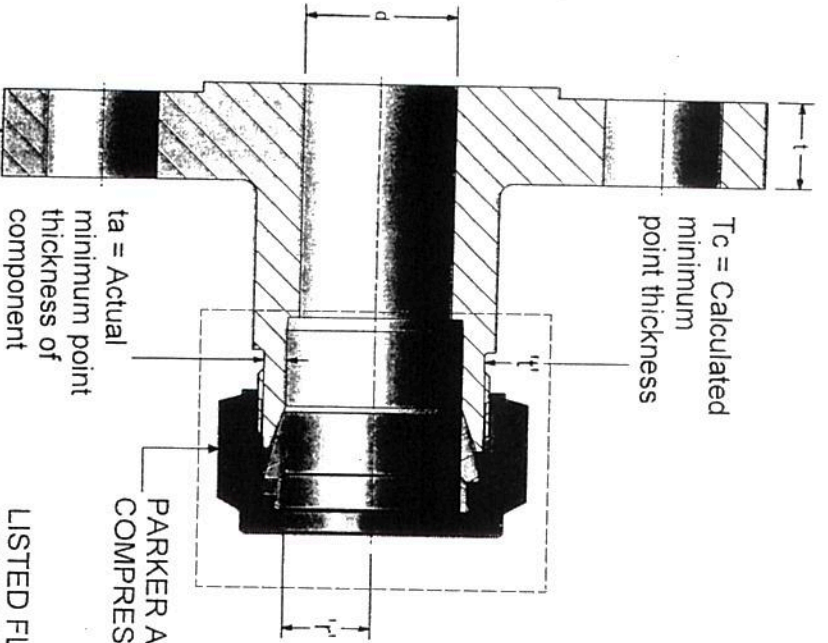
Registration Number: DB15184.5

Date Registered: MAR 22, 2012

Charley Dong
(For the Administrator/Chief Inspector of Alberta)

Expiry Date: MAR 22, 2022

The information you provide is necessary only for the administration of the programs as required by the Alberta Safety Codes Act and Regulations in the Boiler Discipline



PARKER A-LOK
COMPRESSION FITTING

LISTED FLANGE
COMPONENT
AS PER
ANSI B16.5
1/2" - 2"
NOMINAL BORE
CLASS 150
TO CLASS 2500

1" Flange Spec

Material: A182 F316
t = 1.125" / hub thickness = 1.32"
d = 1"
MAWP = 3600psi @ 100°F; 1750psi @ 1000°F
Hydrotest = 7059psi
MDMT = -325°F

1" A-LOK Spec

Material: A182 F316
ID = 1.4515" ± 0.0055"
OD = 1.730" ± 0.005"
Thread Engagement = 0.2238"
Thread size = 1 1/2" 20UN
A-LOK CRN = OA6793.5
t = 0.23" / r = 0.504"

316 Stainless Steel / A182 F316

Table II-2-2.2 Pressure-Temperature
Ratings for Group 2.2 Materials
Page 126 / Class 150 to 2500

Monel 400 / B564 N04400

Table II-2-3.4 Pressure-Temperature
Ratings for Group 3.4 Materials
Page 139 / Class 150 to 2500

Alloy 625 / B564 N006625

Table II-2-3.8 Pressure-Temperature
Ratings for Group 3.8 Materials
Page 143 / Class 150 to 2500

ATTACHMENT TO

C.R.N. 03A-031518445

Signed: *[Signature]*

178 Bendale Boulevard, Toronto, ON Canada M9W 1R3



THIS IS PART OF
CRN 031518445
Technical Standards & Safety Authority
Boilers & Pressure Vessels
Safety Division

FOR MATERIAL AND PROCESS SPECIFICATIONS REFER TO GENERIC PROCESS CONTROL SHEET

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ISSUE NO.	1	DESCRIPTION OF REVISION	NEW RELEASE
E.C.N. NO.	N/A	DATE	12/04/2011

ALL DIMENSIONS IN UNLESS OTHERWISE STATED

DRAWING TITLE:
FLANGE TO COMPRESSION CONNECTOR
FLANGE HUB WALL THICKNESS CALCULATIONS

REMOVE ALL SHARP EDGES AND BURRS

INCH	METRIC	ANGULAR
1/16" ± 0.01"	(1.5mm) ± 0.1mm	1/2°
1/32" ± 0.005"	(0.8mm) ± 0.1mm	1/2°

UNLESS STATED
3RD ANGLE
PROJECTION



Parker Hannifin Ltd.
Instrumentation Products Division Europe
Riverside Road
Devon
EX31 1NP
+44 (0)1271 313131

GENERAL M.C. FINISH 63min CLA 1.6mm RA
ALL THREAD TOLERANCES ARE TO BE IN
ACCORDANCE WITH PARKER IPD ESTD 101.
PART SIMILAR TO



DO NOT SCALE IF IN DOUBT ASK