

9410 - 20 Ave N.W.

Edmonton, Alberta, Canada T6N 0A4

Tel: (780) 437-9100 / Fax: (780) 437-7787

November 24, 2017

Attention: Susan Turner

PARKER HANNIFIN INSTRUMENTATION CANADA

4635 DURHAM ROAD S

GRIMSBY, ON L3M 4G4

Email:sturner1@parker.com

<NOCOVER>

<TOFAXNUM:1-905-945-2203> <TONAME:Susan Turner>

The design submission, tracking number 2017-05551, originally received on September 01, 2017 was surveyed and accepted for registration as follows:

CRN:

0H11767.2

Accepted on: November 24, 2017

Reg Type:

NEW DESIGN

Expiry Date: November 24, 2027

Drawing No.: CATALOG 4190-FP-ACC As Noted

Fitting type: FLANGE CONNECTORS WITH CPI/ALOK TUBE FITTINGS

Design registered in the name of : PARKER HANNIFIN IPDE

Description

MAWP

Design Temperature

rating per tables

The registration is conditional on your compliance with the following notes:

This acceptance letter of December 21 th 2017 supersedes the original acceptance letter issued on November 24, 2017, we have revised the category of the fittings to comply with CSA B51.

CRN covers only Flange Connectors assemblies with CPI/Alok fittings CRN 0A06793.52

As indicated on AB-41 Statutory Declaration form and submitted documentation, the code of construction are ASME B31.3 and B16.5.

This registration is valid only for fittings fabricated at the location(s) covered by the QC certificate attached to the accepted AB-41 Statutory Declaration form.

This registration is valid only until the indicated expiry date and only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date. Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

An invoice covering survey and registration fees will be forwarded from our Revenue Accounts.

If you have any question don't hesitate to contact me by phone at (780) 433-0281 ext 3330 or fax (780) 437-7787 or e-mail grynchuk@absa.ca.

Sincerely,

GRYNCHUK, MILLA, P. Eng.

RY MCHUN_

DOP Cert. No. D00005217

2017-05551

Page 1 of 1





STATUTORY DECLARATION Registration of Fittings

I, 😹	Marcus Ashford	Engineering Manager	
of	(name of applicant) Parker Hannifin IPDE	(position title) (must be in a position of authority)	Parke
loca	ated at Riverside Road, Barnstaple, [(name of manufacturer) Devon, UK EX31 1NP with additional manufacturing at rth, Jacksonville Alabama, USA (plant address)	
do : (ch	solemnly declare that the fittings eck one)	listed hereunder, which are subject to the Safety	y Codes Act
	comply with the requirements	s of (title of recognized North American Standard) which	specifies the dimensions,
	materials of construction, pre	essure/temperature ratings and identification ma	orking of the fittings or
X	are not covered by the provis	sions of a recognized North American standard a	and are therefore manufactured
		3 and ASME B46 K	as supported by the attached
		ode of construction or other applicable document)	
	data which identifies the dime	ensions, materials of construction, pressure/temp	perature ratings and the basis
	for such ratings, and the mark	king of the fittings for identification.	35 = 10 110 220,0
l fur		e of these fittings is controlled by a quality contro	N
verif	fied by the following authority,		
		DNV MANAGEMENT SYSTEMS as being suitab	ole for the manufacture of these
ntan	ys to the stated standard. The fi	ttings covered by this declaration, for which I see	ek registration, are
CAT	ALOG 4190-FP-ACC - Flange Connecto	ors	
		(brief description of fittings)	
in su	ipport of this application, the follo	owing information, calculations and/or test data a	re attached:
See	attached drawing, FCB CRN Report. N.B	3. : CRN 0A6793.5 also exists with respect to a portion of thi	is design.
DEC	LARED before me at Sodie	in the Counts of	Posa un
this _	254 day of 6	Chele , Zeið	(province or state)
(prin		(Month) (Year)	
(sign)	(a Commissioner of Daths or Nota	ny Public)	
	(a Corphy Sioner of Oaths er Notal	ry Public) (signature	of applicant)
For A	ABSA Office Use Only:	2 4 2 3	
NOTE	ES:	Inen	
To the	e best of my knowledge and belie	ef, the application meets the requirements of the epted for registration in Category	Safety Codes Act and CSA
	tration Number: 0 A 1 1 7	87.2 6 Tyene	heek X
Date !	Registered MAV 5 4 o		he Administrator/SCO)
The info	rmation you provide is necessary only for the	Expiry Date: 2007	- NOVEMBU 24
Pressur	e Equipment Discipline.	e administration of the programs as required by the Alberta Safet	y Codes Act and Regulations in the

MANAGEMENT SYSTEM CERTIFICATE

Cestescate No: 209347-2016-AQE-GBR-UKAS

Initial certification date: 01 April 2010

Valid: 15 November 2016 - 15 November 2019

This is to certify that the management system of

Parker Hannifin Manufacturing Ltd Instrumentation Products Division Europe

Riverside Road, Pottington Business Park, Barnstaple, EX31 1NP, United Kingdom

has been found to conform to the Management System standards:

ISO 14001:2015/ ISO 9001:2015

This certificate is valid for the following scope:

Design, development, manufacture, test and supply of valves, manifolds, connectors and systems, in high performance materials, including ancillary equipment, for the interconnection of process instrumentation and associated apparatus.

OHY THEM. Q.

Place and date: London, 10 November 2016



For the issuing office: DNY GL Business Assurance UK Limited Palace House,3 Cathedral Street, London, SE1 9DE, United Kingdom

Richard Redmond
Management Representative

MANAGEMENT SYSTEM CERTIFICATE

Certificate No.: 51495-2009-AQ-USA-RVA

Initial certification date: 07 April, 2009

Valld: 07 April, 2015 - 07 April, 2018

This is to certify that the management system of

Parker Hannifin Corporation Instrumentation Products Division

1005 A Cleaner Way, Huntsville, AL 35805 USA and the sites as mentioned in the Appendix accompanying this Certificate

has been found to conform to Quality management system standard: **ISO 9001:2008**

This certificate is valid for the following Scope:

Design and Manufacture of Instrumentation Products. Design, Manufacture and Service of Pressure and Temperature Systems, Components and Pneumatic Pumps

Place and date: Katy, TX, 14 January, 2015



The RvA is a signatory to the IAF MLA

For the issuing office: DNV GL - Business Assurance 1400 Ravello Drive Katy, TX 77449

John C. Stefan Management Representative Certificate No.: 51495-2009-AQ-USA-RvA Place and date: Katy, TX, 14 January, 2015

Appendix to Certificate

Parker Hannifin Corporation Instrumentation Products Division

Locations included in the certification are as follows:

Site Name	Site Address	Site Scope
Parker Hannifin Corporation Instrumentation Products Division	1005 A Cleaner Way, Huntsville, AL 35805 USA	Top Management, Design, Order Entry, Planning, Marketing, Outside Sales, Receiving, Shipping, Operations, Stores, HR, Support functions
Parker Hannifin Corporation Instrumentation Products Division	301 Wagner Drive, Boaz, AL 35957 USA	Procurement, Receiving, Shipping, Stores, QA, Operations
Parker Hannifin Corporation Instrumentation Products Division	2651 AL Hwy 21 North, Jacksonville, AL 36265 USA	Order Entry, Procurement, Operations, Design, Receiving, Shipping, Stores
Parker Hannifin Corporation Instrumentation Products Division	8325 & 8355 Hessinger Drive, Erie, PA 16509 USA	Quote, Engineering, Order Entry, Planning, Scheduling, Machining, Assembly, Testing, Service, Purchasing, Receiving, Shipping



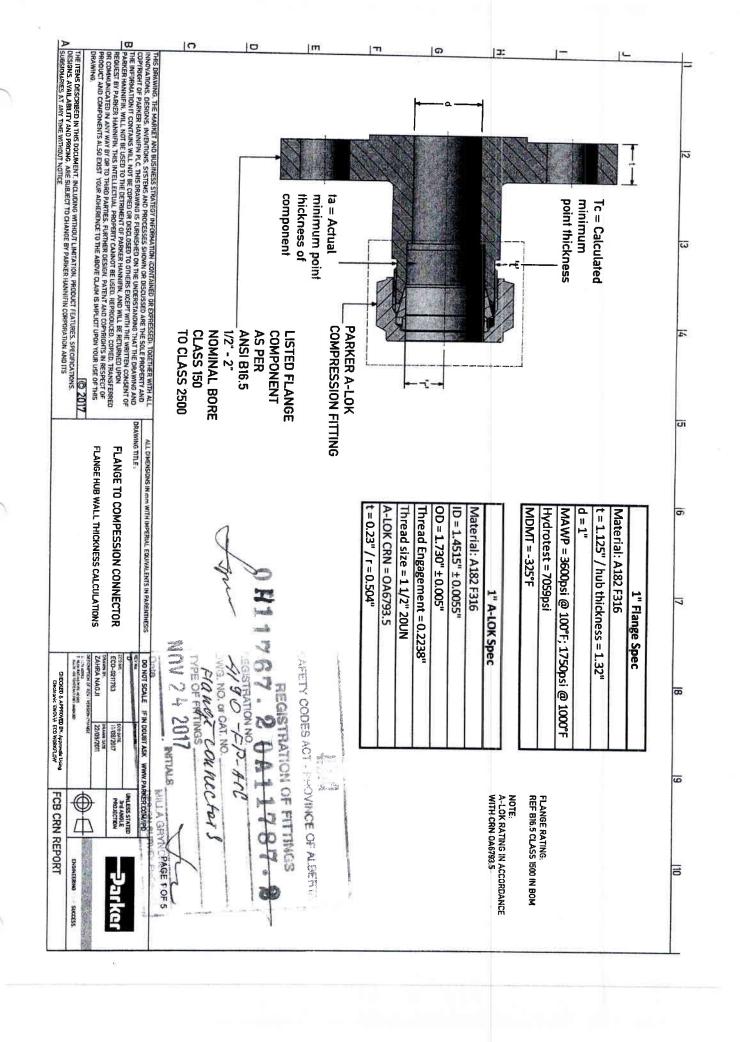
THIS DRAWING. THE MARKET AND BUSINESS STRATEGY INFORMATION (CONTAINED OR EXPRESSED), TOGETHER WITH ALL INNOVATIONS, DESIGNS, INVENTIONS, SYSTEMS AND PROCESSES SHOWN OR DISCUSSED ARE THE SOLE PROPERTY AND COPPRIGHT OF PARKER HANNIFIN PLC. THIS DRAWING IS FURNISHED ON THE UNDERSTANDING THAT THE DRAWING AND THE INFORMATION IT CONTAINS WILL NOT BE COPED ON DISCUSSED TO OTHER SECRET WITH THE WRITTEN CONSENT OF PARKER HANNIFIN, WILL NOT BE USED TO THE DETRIMENT OF PARKER HANNIFIN, AND WILL BE RETURNED UPON THE TIENS DESCRIBED IN THIS DOCUMENT INCLUDING WITHOUT LIMITATION, PRODUCT FEATURES. SPECIFICATIONS. DESIGNS, AVAILABUTY AND PRODUCE ARE SUBJECT TO CHANGE BY PARKER HANNIFIN CORPORATION AND ITS SUBSIDIAMES AT ANY TIME WITHOUT WOTICE AND STANDARD HANNIFIN. THIS INTELLECTUAL PROPERTY CANANDT BE LISED, REPODUCED, COPIED TRANSFERRED COMMUNICATED IN ANY WAYE WE OT O THIRD PARTIES, FURTHER DESIGN, PATENT AND COPPRIGHTS IN RESPECT OF DOUCT AND COMPONENTS ALSO EXIST YOUR ADHERBNCE TO THE ABOVE CLAIM IS IMPLICIT UPON YOUR JUSE OF THIS WINNE Page 143 / Class 150 to 2500 Ratings for Group 3.8 Materials Table II-2-3.8 Pressure-Temperature Alloy 625 / 8564 N006625 Page 139 / Class 150 to 2500 Ratings for Group 3.4 Materials Table II-2-3.4 Pressure-Temperature Monel 400 / B564 N04400 Page 126 / Class 150 to 2500 Ratings for Group 2.2 Materials 316 Stainless Steel / A182 F316 Table II-2-2.2 Pressure-Temperature ASME B16.5 2009 Material Reference from Standards w ASME B16.5 2009 Flange Dimension Reference from Standards Class 8 1500 150 38 900 2500 DRAWING TITLE ALL DIMENSIONS IN mm WITH IMPERIAL EQUIVALENTS IN PARENTHESIS FLANGE TO COMPRESSION CONNECTOR FLANGE HUB WALL THICKNESS CALCULATIONS Table **II-15** II-17 11-119 1-22 6 Templates for Drilling Class 1500 Pipe Flanges Templates for Drilling Class 2500 Pipe Flanges Templates for Drilling Class 600 Pipe Flanges Templates for Drilling Class 150 Pipe Flanges Templates for Drilling Class 300 Pipe Flanges Templates for Drilling Class 900 Pipe Flanges 7 Page Title ZAHRA NAGJI ECO-0211763 DO NOT SCALE IF IN DOUBT ASK WWW.PARKER.COM/IPD 22/08/2011 11/08/2017 9 WLESS STATED
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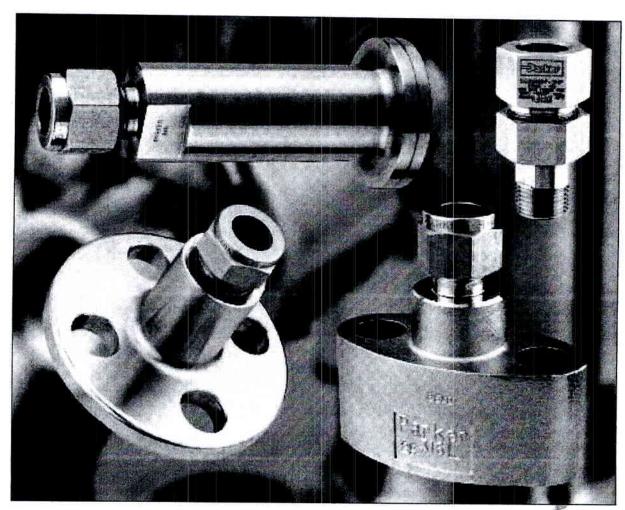
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DRAWING TITLE . FLANGE FLANGE HUE	ALT DIMENSIONS IN		290	750	1500	2250	3750	6250	100°F	-		290	/30	1500	2250	3750	6250	F) 100°F			
OTITLE: FLANGE TO COMPRESSION CONNECTOR FLANGE HUB WALL THICKNESS CALCULATIONS	ALL DIMENSONS IN THE WITH IMPERIAL EDUVALENTS OF PARENTHESIS.	X = Products no to be sui	20	365	725	1090	1820	3030	Max Temp (1000°F)	Flange Rating	3/5	20	365	725	1090	1820	3030	Max Temp (1000°F)	Flange Rating	3/	
의 사이 그리 그리		bmitted	2800	2800	2800	2800	2800	2800	100°F	- 1	5/8" CWP (PSI) @	8900	8900	300	8900	9900	8900	100°F	100	8" CWP (PSI) @	
TO PART OF A PAR			1680	1680	1630	3	1880	1680	Max Temp (1000°F)	A-LOK Rating		5340	53410	5340	5340	5340	5340	Max Temp (1000°F)	A-LOK Rating		
PROJECTION THE ASSAURED PROJECTION THE PROJE	PAGE 5 OF 5										_	**************************************	L								





Manifold Accessories

Catalog 4190-FP-ACC May 2007



Manifolds

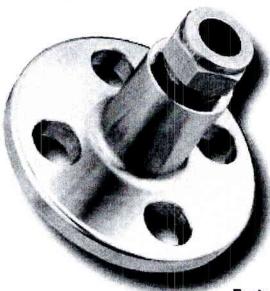
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Flange to compression connectors (FC)

Purpose

One piece integral connectors allow the user to switch from piping flange standards to instrument compression with minimum cost and added safety. This system eliminates the need for additional connections.

Series FC



Specification

- 1/2" to 2" N.B. flanges (15 to 50DN).
- 150 to 2500lb flange class.
- Flanges to ANSI B16.5. (others available on request)
- Standard or inverted A-LOK® arrangements 1/4" to 1" O.D. (3mm to 25mm O.D.).
- Standard or inverted CPI[™] arrangements 1/4" to 1" O.D. (3mm to 25mm O.D.).
- Flange sealing:-

Raised face spiral finish.

Ring type joint.

- Standard stainless steel body (316).
- Other materials on application.

Part number construction

Connection Material A-LOK maximum Product code (refer to table page 155) size 1" / 25mm Flange size Face style Class Example 1 FC В 8A 16 600 Example 2 FC K M12A

For CPI™ change A to Z.

For A-LOK® size codes use the A-LOK® catalogue.

Example 1: FCB8A16F600 - Stainless steel, 1/2" O.D. A-LOK® tube connection, 1" pipe flange, raised face, class 600.

Example 2: FCKM12A8T1500 - 6Mo, 12mm O.D. A-LOK® tube connection to 1/2" pipe flange, ring type joint, class 1500.

Features

- Full heat code traceability to EN10204-3.1
- Integrally machined body, no welding.
- Eliminates additional connections.
- P.T.F.E tape or liquid thread sealants not required.
- Variety of materials available.
- NACE MR 0175 / ISO 15156 compliance available on request.

