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www.tssa.org

March 3, 2023

ROUND ENGINEERING INC
10 SEGWUN RD
WATERDOWN ON L8B 0K6

Workorder Type: Registration - Fitting(Conventional)
Workorder No: 8231327
Your Reference No.: R-1812A
Registered to: PARKER HANNIFIN MANUFACTURING FRANCE SAS

Dear SCOTT ISLIP,

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

CRN : 0A15761.5ADD4
Main Design No.: SCOPE OF CRN REGISTRATION
Expiry Date: Sep 14, 2032

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 (There will be no hard copies for electronic submissions). 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,

Amir Hariri P.Eng.
Engineer, BPV
Tel. : +1 416-734-3461
Email : ahariri@tssa.org



Technical Standards and Safety Authority
345 Carlingview Drive
Toronto, Ontario M9W 6N9
www.tssa.org

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



STATUTORY DECLARATION Registration of Fittings

I, Olivier Nadou, General Manager

(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of Parker Hannifin Manufacturing France SAS

(Name of Manufacturer)

Located at 1 Rue Andre et Yvonne Meynier, Rennes, France, 35069

(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 ASME B31.3, B31.1

(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 _____ 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 9001:2015 which has been verified by the following authority, AFNOR.

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

SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS

(drawings, calculations, test reports, etc.)

Declared before me at Annemasse in the office of notary

the 5 day of December AD 2022.

Commissioner for Oaths:

Thierry ANDRIER
(Printed name)

(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: 0A15761.5ADD4

Registered by: Amir Hariri

Dated: March 3, 2023

NOTE: This registration expires on: September 14, 2032

Technical
Standards
and Safety
Authority

Boilers and
Pressure Vessels
Safety Program

REGISTERED

C.R.N.: 0A15761.5ADD4

Signed: [Signature]

Date: March 3, 2023.

*Information provided in this application is releasable under the Freedom of Information and Privacy Protection Act and may be disclosed upon request.

PV 09553 (04/17)

See registration letter for any terms and conditions for this registration.
March 3, 2023. TSSA

**PARKER HANNIFIN
MANUFACTURING FRANCE**

1, rue Andre et Yvonne Meynier,
Parc Alcyone Bat D
35069 Rennes Cedex (France)



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Pipe Sizes:	1/2" (16.5mm), 1" (25mm), 1-1/2" (40mm), 2" (50mm), 2-1/2" (63mm)				
Product Description	Design Code	Fitting Body Material	CRN MAWP at MAWT (Note 1,2,3)	MDMT	Design Report No.
Transair Modular Pipe System	ASME B31.3, ASME B31.1	Nylon (See Note 4), Aluminum (See Note 5), Brass (See Note 6)	145 psig at 140°F / 10 barg at 60°C	-4°F / -20°C	R-1812A Rev. 0
Description	Size		Part No.	Material	
Male Threaded NPT 90 Elbow	1/2" (16.5mm) x 1/4" NPT		6609 17 14	Nylon, Brass	
	1/2" (16.5mm) x 1/2" NPT		6609 17 22	Nylon, Brass	
	1" (25mm) x 1/2" NPT		6609 25 22	Nylon, Brass	
	1" (25mm) x 3/4" NPT		6609 25 28	Nylon, Brass	
	1" (25mm) x 1" NPT		6609 25 35	Nylon, Brass	
	1-1/2" (40mm) x 1" NPT		6609 40 35	Nylon, Brass	
	1-1/2" (40mm) x 1-1/4" NPT		6609 40 43	Nylon, Brass	
	1-1/2" (40mm) x 1-1/2" NPT		6609 40 50	Nylon, Brass	
	1-1/2" (40mm) x 2" NPT		6609 40 44	Nylon, Brass	
	2" (50mm) x 1-1/2" NPT		6609 50 50	Nylon, Aluminum	
	2" (50mm) x 2" NPT		6609 50 44	Aluminum	
	2-1/2" (63mm) x 2-1/2" NPT		6609 63 41	Aluminum	
	2-1/2" (63mm) x 3" NPT		6609 63 46	Aluminum	
	1" (25mm) x 1/2" NPT		6619 25 22	Nylon, Brass	
Male Threaded NPT 45 Elbow	1" (25mm) x 3/4" NPT		6619 25 28	Nylon, Brass	
	1" (25mm) x 1" NPT		6619 25 35	Nylon, Brass	
	1-1/2" (40mm) x 1" NPT		6619 40 35	Nylon, Brass	
	1-1/2" (40mm) x 1-1/4" NPT		6619 40 43	Nylon, Brass	
	1-1/2" (40mm) x 1-1/2" NPT		6619 40 50	Nylon, Brass	
	1-1/2" (40mm) x 2" NPT		6619 40 44	Nylon, Brass	
	2" (50mm) x 1-1/2" NPT		6619 50 50	Nylon, Aluminum	
	2" (50mm) x 2" NPT		6619 50 44	Aluminum	
	2-1/2" (63mm) x 2" NPT		6619 63 44	Aluminum	
	2-1/2" (63mm)		6612 63 00	Nylon	
45 Elbow	2-1/2" (63mm)		6612 63 00	Nylon	
Reducing Tee	2" (50mm) x 1" (25mm)		6604 50 25	Nylon, Aluminum	
	2-1/2" (63mm) x 2" (50mm)		6604 63 50	Aluminum	
Plug-In Reducer	2" (50mm) x 1" (25mm)		6666 25 50	Nylon, Aluminum	
	2" (50mm) x 1-1/2" (63mm)		6666 40 50	Nylon, Aluminum	

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Description	Size	Part No.	Material
Male Threaded NPT Connector	1/2" (16.5mm) x 1/4" NPT	6605 17 14	Nylon, Brass
	1/2" (16.5mm) x 1/2" NPT	6605 17 22	Nylon, Brass
	1" (25mm) x 1/2" NPT	6605 25 22	Nylon, Brass
	1" (25mm) x 3/4" NPT	6605 25 28	Nylon, Brass
	1" (25mm) x 1" NPT	6605 25 35	Nylon, Brass
	1-1/2" (40mm) x 1" NPT	6605 40 35	Nylon, Brass
	1-1/2" (40mm) x 1-1/4" NPT	6605 40 43	Nylon, Brass
	1-1/2" (40mm) x 1-1/2" NPT	6605 40 50	Nylon, Brass
	1-1/2" (40mm) x 2" NPT	6605 40 44	Nylon, Brass
	2" (50mm) x 1-1/2" NPT	6605 50 50	Nylon, Aluminum
	2" (50mm) x 2" NPT	6605 50 44	Aluminum
	2-1/2" (63mm) x 2" NPT	6605 63 44	Aluminum
	2-1/2" (63mm) x 2-1/2" NPT	6605 63 41	Aluminum
	2-1/2" (63mm) x 3" NPT	6605 63 46	Aluminum
Male Threaded NPT Stud Adapter	1" (25mm) x 1/2" NPT	6615 25 22	Nylon, Brass
	1" (25mm) x 3/4" NPT	6615 25 28	Nylon, Brass
	1" (25mm) x 1" NPT	6615 25 35	Nylon, Brass
	1-1/2" (40mm) x 1-1/4" NPT	6615 40 43	Nylon, Brass
	1-1/2" (40mm) x 1-1/2" NPT	6615 40 50	Nylon, Brass
	2" (50mm) x 1-1/2" NPT	6615 50 50	Nylon, Aluminum
	2" (50mm) x 2" NPT	6615 50 44	Aluminum
Male Threaded NPT Stud Nut	1/2" (16.5mm) x 1/2" NPT	6611 17 22	Brass
	1" (25mm) x 1/2" NPT	6611 25 22	Brass
	1" (25mm) x 3/4" NPT	6611 25 28	Brass
	1" (25mm) x 1" NPT	6611 25 35	Brass
	1-1/2" (40mm) x 1" NPT	6611 40 35	Brass
	1-1/2" (40mm) x 1-1/4" NPT	6611 40 43	Brass
	1-1/2" (40mm) x 1-1/2" NPT	6611 40 50	Brass
	1-1/2" (40mm) x 2" NPT	6611 40 44	Brass
	2" (50mm) x 2" NPT	6611 50 44	Brass
	2" (50mm) x 1-1/2" NPT	6611 50 50	Brass
	2-1/2" (63mm) x 2" NPT	6611 63 44	Brass
	2-1/2" (63mm) x 2-1/2" MNPT	6611 63 41	Brass

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Description	Size	Part No.	Material
Male Threaded NPT Adapter	1/2" (16.5mm) x 1/2" NPT	6621 17 22	Brass
	1" (25mm) x 1/2"	6621 25 22	Brass
	1" (25mm) x 3/4" NPT	6621 25 28	Brass
	1" (25mm) 1" NPT	6621 25 35	Brass
	1-1/2" (40mm) x 1-1/4" NPT	6621 40 43	Brass
	1-1/2" (40mm) x 1-1/2" NPT	6621 40 50	Brass
Simple Reducing Bracket	1/2"(16.5mm)x1/2"(16.5mm)	RA69 25 17	Nylon
	1-1/2"(40mm) x 1"(25mm)	RA69 40 25	Nylon
	2" (50mm) x 1" (25mm)	RA69 50 25	Nylon
	2-1/2"(63mm) x 1"(25mm)	RA69 63 25	Nylon
Female Threaded NPT Simple Reducing Bracket	1" (25mm) x 1/2" NPT	RA68 25N04	Nylon, Brass
	1-1/2" (40mm) x 1/2" NPT	RA68 40N04	Nylon, Brass
	2" (50mm) x 1/2" NPT	RA68 50N04	Nylon, Brass
	2" (50mm) x 1" NPT	RA68 50N08	Nylon, Brass
	2-1/2" (63mm) x 1" NPT	RA68 63N08	Nylon, Brass
	2-1/2" (63mm) x 1/2" NPT	RA68 63N04	Nylon, Brass
Quick Assembly Bracket	1-1/2"(40mm)x1/2"(16.5mm)	6662 40 17	Nylon
	1-1/2"(40mm) x 1"(25mm)	6662 40 25	Nylon
	2" (50mm) x 1" (25mm)	6662 50 25	Nylon
	2-1/2"(63mm) x 1"(25mm)	6662 63 25	Nylon
Female Threaded NPT Quick Assembly Bracket	1-1/2" (40mm) x 1/2" NPT	6663 40 22	Nylon, Brass
	2" (50mm) x 1/2" NPT	6663 50 22	Nylon, Brass
	2" (50mm) x 3/4" NPT	6663 50 28	Nylon, Brass
	2-1/2" (63mm) x 1/2" NPT	6663 63 22	Nylon, Brass
	2-1/2" (63mm) x 3/4" NPT	6663 63 28	Nylon, Brass
1 Port 45 Wall Bracket - Threaded NPT Port	1/2" (16.5mm) x 1/2" x 1/4"	6640 17 22	Nylon, Brass
	1" (25mm) x 1/2" x 1/4"	6640 25 22	Nylon, Brass
Threaded NPT 1 Port 45 Wall Bracket	1/2" x 1/4" x 1/2"	6642 22 22	Brass
2 Port 45 Wall Bracket - Threaded NPT Port	1/2" (16.5mm) x 1/2" x 1/4"	6689 17 22	Nylon, Brass
	1" (25mm) x 1/2" x 1/4"	6689 25 22	Nylon, Brass
Threaded NPT 2 Port 45 Wall Bracket	1/2" x 1/4" x 1/2"	6691 22 22	Brass
2 Port 90 Wall Bracket - Threaded NPT Port	1/2" (16.5mm) x 1/2" x 1/4"	6684 17 22	Nylon, Brass
	1" (25mm) x 1/2" x 1/4"	6684 25 22	Nylon, Brass

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Description	Size	Part No.	Material
Threaded NPT 2 Port 90 Wall Bracket	1/2" x 1/4" x 1/2"	6688 22 22	Brass
3 Port Wall Bracket - Threaded NPT Port	1" (25mm) x 1/2" x 1/4"	6696 25 22	Nylon, Brass
Threaded NPT 3 Port Wall Bracket	1/2" x 1/4" x 3/4"	6636 28 22	Brass

Notes:

1) MAWP = Maximum Allowable Working Pressure, MAWT = Maximum Allowable Working Temperature, MDMT = Minimum Design Metal Temperature.

2) The pressure-temperature ratings shown are the maximum CRN pressure-temperature ratings. In all cases the MAWP or MAWT may be limited by other considerations. Please consult Parker literature.

3) The CRN pressure-temperature ratings are valid when the Parker fittings are installed on Aluminum UNS A96063 with the following nominal wall thickness:

16.5mm OD x 1.70mm wall
25mm OD x 1.50mm wall
40mm OD x 1.50mm wall
50mm OD x 1.70mm wall
63mm OD x 2.00mm wall

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4) Nylon = Nylon 66 GF30% equal to PA66 30% GF as stated in Parker Standard BES 9301

5) Aluminum = Aluminum Alloy Group AlSi9Cu Numerical EN AC-46500 Chemical Symbols EN AC-Al Si9Cu3(Fe)(Zn) in accordance with EN 1706

6) Brass = Brass CW614N CuZn39Pb3 in accordance with EN 12164

7) See Attached List of Manufacturing locations applicable to this CRN.



WORLDWIDE LOCATIONS APPENDIX

PARKER HANNIFIN MANUFACTURING FRANCE SAS MANUFACTURING LOCATIONS & CERTIFYING AUTHORITIES

(rev. May, 2022)

PARKER HANNIFIN MFG FRANCE SAS
LOW PRESSURE CONNECTORS DIVISION EUROPE
PARC ALCYONE - BATIMENT D
1 RUE ANDRE ET YVONNE MEYNIER
RENNES
FRANCE
35069
ISO 9001 Certified by AFNOR

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PARKER HANNIFIN MFG FRANCE SAS
LOW PRESSURE CONNECTORS DIVISION EUROPE
ROUTE DE QUESTEMBERT
BEL AIR
MUZILLAC
FRANCE
56190
ISO 9001 Certified by AFNOR

PARKER HANNIFIN MFG FRANCE SAS
LOW PRESSURE CONNECTORS DIVISION EUROPE
LA CROIX DES 5 CHEMINS
BAILLE
FRANCE
35460
ISO 9001 Certified by AFNOR

PARKER HANNIFIN MFG FRANCE SAS
LOW PRESSURE CONNECTORS DIVISION EUROPE
SAINT-MARCEL
MALESTROIT
FRANCE
56140
ISO 9001 Certified by AFNOR