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Toronto, Ontario M9W 6N9
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Toll Free: 1.877.682.8772

www.tssa.org

June 16, 2021

ROUND ENGINEERING INC
10 SEGWUN RD
WATERDOWN ON L8B 0K6

Workorder Type: Registration - Fitting(Conventional)
Workorder No: 8008653
Your Reference No.: R-1351
Registered to: PARKER HANNIFIN CORPORATION – SPORLAN DIV

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 : 0A23313.5
Main Design No.: ZOOMLOCK PUSH PUSH-TO-CONNECT REFRIGERANT FITTINGS
Expiry Date: Jun 16, 2031

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

Please refer to scope for detail of registration. Total 6 manufacturing locations

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,

Norman Ngai

Norman Ngai P. Eng. Mechanical Engineer
Engineer, BPV
Tel. : +1 416-734-3557
Email : NNgai@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, JIM BUDNAR, DIVISION ENGINEERING MANAGER

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

of PARKER HANNIFIN CORPORATION SPORLAN DIVISION

(Name of Manufacturer)

Located at 206 LANGE DRIVE, WASHINGTON, MO, 63090, USA

(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 B31.5, ASME B31.3

(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, BUREAU VERITAS AND KSA.

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

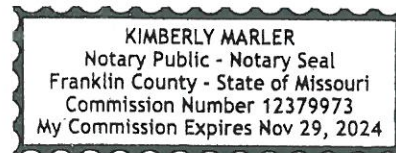
SCOPE OF CRN REGISTRATION, REPORTS, DRAWINGS, CALCULATIONS

(drawings, calculations, test reports, etc.)

Declared before me at Washington in the State of Missouri
the 18 day of February AD 2021.

Commissioner for Oaths:

Kimberly Marler
(Printed name)
Kimberly Marler
(Signature)



James Budnar
(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: 0A23313.5

Registered by: NORMAN NGAI

Dated: Jun. 16, 2021.

NOTE: This registration expires on: Jun. 16, 2031.

Technical
Standards
and Safety
Authority

Boilers and
Pressure Vessels
Safety Program

REGISTERED

C.R.N.: 0A23313.5

Signed: Norman Ngai

Date: June 16, 2021.

*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)

Registration notes:
Please refer to scope for detail of registration. Total 6 manufacturing locations



SCOPE OF CRN REGISTRATION

Product Description	Design Code	Body Material Specification	MAWP at MAWT (psig at °F / barg at °C)	MDMT (°F / °C)	Fitting Type	Size	Parker Part Number	Report Number
ZoomLock Push Push-to-connect Refrigerant Fittings	ASME B31.5, ASME B31.3	Forging Brass ASTM B283 UNS C37700	870 psig at 250°F / 60 barg at 121°C	- 40°F / - 40°C	Couplings R410A Optimized	1/4"	PZKP-C4-HNBR	R-1351 Rev. 0
						3/8"	PZKP-C6-HNBR	
						1/2"	PZKP-C8-HNBR	
						5/8"	PZKP-C10-HNBR	
						3/4"	PZKP-C12-HNBR	
						7/8"	PZKP-C14-HNBR	
					SAE Flare Adapters R410A Optimized	1/4"	PZKP-F4-HNBR	
						3/8"	PZKP-F6-HNBR	
						1/2"	PZKP-F8-HNBR	
						5/8"	PZKP-F10-HNBR	
					Elbows 90 Degree R410A Optimized	1/4"	PZKP-90E4-HNBR	
						3/8"	PZKP-90E6-HNBR	
						1/2"	PZKP-90E8-HNBR	
						5/8"	PZKP-90E10-HNBR	
						3/4"	PZKP-90E12-HNBR	
						7/8"	PZKP-90E14-HNBR	
					Couplings Removable	1/4"	PZKPR-C4	
						3/8"	PZKPR-C6	
						1/2"	PZKPR-C8	
						5/8"	PZKPR-C10	
						3/4"	PZKPR-C12	
						7/8"	PZKPR-C14	
					SAE Flare Adapters Removable	1/4"	PZKPR-F4	
						3/8"	PZKPR-F6	
						1/2"	PZKPR-F8	
						5/8"	PZKPR-F10	
					Elbows 90 Degree Removable	1/4"	PZKPR-90E4	
						3/8"	PZKPR-90E6	
						1/2"	PZKPR-90E8	
						5/8"	PZKPR-90E10	
						3/4"	PZKPR-90E12	
						7/8"	PZKPR-90E14	

THIS IS PART OF CRN
0A23313.5
Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
Program



SCOPE OF CRN REGISTRATION

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

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

Note 3: The pressure-temperature ratings shown are acceptable when the ZoomLock Push fittings are installed on copper tube that has a ASME B31.5 Table 502.3.1-1 minimum allowable stress value that is equal to or greater than the values listed for ASTM B280 UNS C12200 H58 tubing. Installation of the ZoomLock Push fittings on copper tubing with lower allowable stress values than that shown for ASTM B280 UNS C12200 H58 may result in the maximum allowable pressure ratings of the system to be lower than that shown above.

Note 4: For low temperature operation the products shall conform to the rules of the applicable codes under which they are used.

Note 5: See Attached List of Manufacturing locations applicable to this CRN.



WORLDWIDE LOCATIONS APPENDIX

PARKER HANNIFIN CORPORATION SPORLAN DIVISION MANUFACTURING LOCATIONS & CERTIFYING AUTHORITIES

(rev. January 26, 2021)

Head Quarters

206 LANGE DRIVE
WASHINGTON, MO 63090 USA
ISO 9001 Certified by Bureau Veritas

Plant 1

711 INDUSTRIAL AVENUE
PLANT 1 I WASHINGTON, MO 63090 USA
ISO 9001 Certified by Bureau Veritas

Plant 3

215 LANGE DRIVE
WASHINGTON, MO 63090 USA
ISO 9001 Certified by Bureau Veritas

Plant 4

100 PARKER DRIVE
GREENFIELD, TN 38230 USA
ISO 9001 Certified by Bureau Veritas

Plant 5

VIA DE FERROCARRIL A MATAMOROS
730, CENTRO. BLVD.
CARLOS SALINAS DE GORTARI Y PROL.
CAMINO A HUINALA.
APODACA, NL CP 66600 MEXICO
ISO 9001 Certified by Bureau Veritas

In addition, in accordance with CSA B51 paragraph 4.2.5 Parker Hannifin Corporation Sporlan Division is taking responsibility for the product covered under this CRN that is manufactured at:

ESSEN TECH CO., LTD

15, JAYUMUYEOK 2-GIL,
GUNSAN-SI, JEOLLABUK-DO, KOREA
ISO 9001 Certified by Korean Standards Association