

## REGISTRATION OF A PRESSURE FITTING DESIGN

January 30, 2026

TSSA  
345 Carlingview Dr.  
Toronto, ON  
Canada  
M9W 6N9

**Attention: Cecylia Garbacz**

**File Number: 104297**

**Re: Manufacturer:** Parker Hannifin Corporation - Sporlan Div  
**Item:** Refrigerant Valves  
**Catalog or Drawing:** Per Scope of Registration (03-Nov-25) & Design Reports R-2226 A/B/C/D/E Rev. 0

TSASK Codes and Standards Compliance has registered the design listed above in accordance with The Boiler and Pressure Vessel Act and Regulations and CSA B51. The Canadian Registration Number (CRN) is:

**OC26330.53**

**Expiry Date: 2035-12-19**

Please note that every fitting shall be constructed in strict accordance with the registered design.

Fitting registrations are required to be resubmitted for validation after ten (10) years from the registration date in accordance with CSA B51, Clause 4.2.1.

Should you require anything further, please do not hesitate to contact the Codes and Standards Compliance Office at your convenience.

Yours truly,



Athan Syrgiannis, P.Eng.

Codes and Standards Compliance

### Remarks:

CRN issuance based upon registration by another province under the interprovincial agreement. Conditional upon compliance with the notes on the TSSA registration.

A valid quality control program must be maintained at the production facilities for the fitting registration to remain valid until the expiry date.

See Worldwide Locations Appendix (rev. November 17, 2025) for list of manufacturing locations.

**Statutory Declaration (Registration of Fittings)**

**TSK-1008**

**I. Declaration Information**

I, John Withouse,  
Sr. Principal Engineer  
(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)

of: PARKER HANNIFIN CORPORATION SPORLAN DIVISION  
(name of manufacturer)

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



located at: 206 LANGE DRIVE WASHINGTON, MO 63090, USA  
(Plant Address – Apt/Street) (City,Prov) (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 ASME B31.5, CSA B52 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 \_\_\_\_\_ 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 bsi 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 CATEGORY C - VALVES

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

**II. Declaration**

DECLARED before me at Washington In the State of Missouri  
this 21<sup>st</sup> day of November, 2025

John Withouse (print name) John Withouse (Signature)

PAULA PRUESSNER  
NOTARY PUBLIC - NOTARY SEAL  
STATE OF MISSOURI  
MY COMMISSION EXPIRES JULY 6, 2029  
FRANKLIN COUNTY  
COMMISSION #2193750

Paula Pruessner (Signature of Commissioner of Oaths)

**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 \_\_\_\_\_

(Date Registered – MM DD YYYY) (Expiry Date – MM DD YYYY)  
(For the Administrator / Chief Inspector)



**Technical  
Safety Authority  
of Saskatchewan**

Registration No. 0C26330.53  
File No. 104297

Registered

Date: January 30, 2026  
Expiry Date: December 19, 2035

Codes & Standards Compliance Office

TSK-1008  
Rev. 10/2012  
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**THIS IS PART OF CRN**  
**0C26330.5**  
 Technical Standards and Safety Authority  
 Boilers and Pressure Vessels Safety  
 Program

**SCOPE OF CRN REGISTRATION**

Product Description	Type	Design Code	Material Specification		
Refrigerant Ball Valve with Integral Pressure Relief	EBV(T)-PR	ASME B31.5, CSA B52	Valve Body: Forging Brass JIS C37771BE meeting the requirements of ASTM B283 UNS C37700 Valve Tubing: Copper ASTM B543 C19400 (WO61)		
	<b>Design Conditions</b> <b>MAWP at MAWT</b> <b>(psig at °F / barg at °C)</b>		<b>MDMT</b> <b>(°F / °C)</b>	<b>Report Number</b>	
	Valve Body Independent of process Connections: 957 psig at 248°F / 66 barg at 120°C ODF 3/8" Process Connection: 957 psig at 248°F / 66 barg at 120°C ODF 1/2" Process Connection: 957 psig at 248°F / 66 barg at 120°C ODF 5/8" Process Connection: 885 psig at 248°F / 61 barg at 120°C ODF 3/4" Process Connection: 914 psig at 248°F / 63 barg at 120°C ODF 7/8" Process Connection: 914 psig at 248°F / 63 barg at 120°C ODF 1-1/8" Process Connection: 928 psig at 248°F / 64 barg at 120°C		- 40°F / - 40°C	R-2226A Rev. 0	

Product Description	Type	Design Code	Material Specification		
Refrigerant Electric Expansion Valves	SER-HP SERIES	ASME B31.5, CSA B52	Valve Body: Forging Brass EN12164 CW617N / ASTM B283 CW617N Valve Tubing: Copper ASTM B75 UNS C12200 H80		
	<b>Design Conditions</b> <b>MAWP at MAWT</b> <b>(psig at °F / barg at °C)</b>		<b>MDMT</b> <b>(°F / °C)</b>	<b>Report Number</b>	
	Valve Body Independent of Process Connections: 1044 psig at 155°F / 72 barg at 69°C ODF 3/8" Process Connection: 1044 psig at 155°F / 72 barg at 69°C ODF 1/2" Process Connection: 1044 psig at 155°F / 72 barg at 69°C ODF 5/8" Process Connection: 870 psig at 155°F / 60 barg at 69°C		- 50°F / - 46°C	R-2226B Rev. 0	



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**SCOPE OF CRN REGISTRATION**

Product Description	Type	Design Code	Material Specification
Refrigerant Pulse Modulation Valves	Models SPW-0 thru -7	ASME B31.5, CSA B52	Valve Body: Forging Brass ASTM B283 UNS C37700 Valve Tubing: Copper ASTM B75 UNS C12200 H80
	<b>Design Conditions</b> <b>MAWP at MAWT</b> <b>(psig at °F / barg at °C)</b>		<b>MDMT</b> <b>(°F / °C)</b>
	Valve Body Independent of Process Connections: 1030 psig at 180°F / 71 barg at 82°C ODF 3/8" Process Connection: 1030 psig at 180°F / 71 barg at 82°C ODF 1/2" Process Connection: 1030 psig at 180°F / 71 barg at 82°C		- 40°F / - 40°C
			<b>Report Number</b> R-2226C Rev. 0

Product Description	Type	Design Code	Material Specification
Refrigerant Gas Cooler / Flash Gas Bypass Valves	GC Family and FGB Family	ASME B31.5, CSA B52	Valve Body: Stainless Steel ASTM A479 304/304L, ASTM A182 F304/304L Valve Bonnet: Forging Brass EN12164 CW617N / ASTM B283 CW617N
	<b>Design Conditions</b> <b>MAWP at MAWT</b> <b>(psig at °F / barg at °C)</b>		<b>MDMT</b> <b>(°F / °C)</b>
	Valve Body Independent of Process Connections: 1030 psig at 180°F / 71 barg at 82°C ODF 3/8" Process Connection: 1030 psig at 180°F / 71 barg at 82°C ODF 1/2" Process Connection: 1030 psig at 180°F / 71 barg at 82°C		- 40°F / - 40°C
			<b>Report Number</b> R-2226D Rev. 0

**Technical Safety Authority**  
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**SCOPE OF CRN REGISTRATION**

Product Description	Type	Design Code	Material Specification		
Refrigerant Gas Cooler Multi-Purpose Valve	GCM	ASME B31.5, CSA B52	Valve Body: Stainless Steel ASTM A582 303 / ASTM A473 303 Valve Process Connections: Stainless Steel ASTM A479 304/304L		
	<b>Design Conditions</b> <b>MAWP at MAWT</b> <b>(psig at °F / barg at °C)</b>		<b>MDMT</b> <b>(°F / °C)</b>	<b>Report Number</b>	
	Valve Body Independent of Process Connections: 2031 psig at 239°F / 140 barg at 115°C ODF 3/8" Process Connection: 2031 psig at 239°F / 140 barg at 115°C ODF 1/2" Process Connection: 2031 psig at 239°F / 140 barg at 115°C ODF 5/8" Process Connection: 2031 psig at 239°F / 140 barg at 115°C ODF 3/4" Process Connection: 2031 psig at 239°F / 140 barg at 115°C ODF 7/8" Process Connection: 2031 psig at 239°F / 140 barg at 115°C		- 40°F / - 40°C	R-2226E Rev. 0	

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

**Note 4:** See Attached List of Manufacturing locations applicable to this CRN.

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0C26330.5  
Technical Standards and Safety Authority  
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Program



**WORLDWIDE LOCATIONS APPENDIX**

**PARKER HANNIFIN CORPORATION SPORLAN DIVISION  
MANUFACTURING LOCATIONS  
& CERTIFYING AUTHORITIES**

(rev. November 17, 2025)

**Head Quarters**

206 LANGE DRIVE  
WASHINGTON, MO 63090 USA  
**ISO 9001 Certified by bsi.**

**Plant 1**

711 INDUSTRIAL AVENUE  
PLANT 1 | WASHINGTON, MO 63090 USA  
**ISO 9001 Certified by bsi.**

**Plant 3**

215 LANGE DRIVE  
WASHINGTON, MO 63090 USA  
**ISO 9001 Certified by bsi.**

**Plant 4**

100 PARKER DRIVE  
GREENFIELD, TN 38230 USA  
**ISO 9001 Certified by bsi.**

**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 bsi.**

	<b>Technical Safety Authority of Saskatchewan</b>
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	<input type="button" value="Registered"/>
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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**