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

www.tssa.org

December 29, 2025

ROUND ENGINEERING INC
10 SEGWUN RD
WATERDOWN ON L8B 0K6

Workorder Type: Registration - Fitting(Conventional)
Workorder No: 14874340
Your Reference No.: R-2226 VALVES
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 : 0C26330.5
Main Design No.: Refrigerent Valves per Scope of CRN Registration dated 03-Nov-25
Expiry Date: Dec 19, 2035

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,

Zivko Gacevic , P. Eng.
Engineer, BPV
Tel. : +1 416-734-3429
Email : zgacevic@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

SPORLAN

STATUTORY DECLARATION
Registration of Fittings

I, John Withouse Sr. Principal Engineer
(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, CSA B52
(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, bsi.

The items covered by this declaration, for which I seek registration, are category C - Valves 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, test reports, etc.)

Declared before me at City of Washington **in the** State **of** Missouri

the 21st **day of** November **AD 20**25.

PAULA PRUESSNER
NOTARY PUBLIC - NOTARY SEAL
STATE OF MISSOURI
MY COMMISSION EXPIRES JULY 6, 2029
FRANKLIN COUNTY
COMMISSION #21938750

Commissioner for Oaths:

Paula Pruessner
(Printed name)

Paula Pruessner
(Signature)

John Withouse
(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 'C'.

CRN: _____

Registered by: _____

Dated: _____

This Document has been digitally signed and approved. The stamp size has been optimized for 11 x 17 documents.

NOTE: This registration expires on: Dec. 19, 2035

Technical Standards and Safety Authority

Boilers and Pressure Vessels Safety Program

REGISTERED

C.R.N.: 0C26330.5

Signed: Jacinc Zinke

Date: December 19, 2025.

**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)

Note: See attached documents for Scope of Registration and Manufacturing Locations.

PARKER HANNIFIN CORPORATION
SPORLAN DIVISION
206 LANGE DRIVE
WASHINGTON, MO
63090, USA

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)		
	Design Conditions MAWP at MAWT (psig at °F / barg at °C)			**MDMT (°F / °C)**	**Report Number**
	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		
	Design Conditions MAWP at MAWT (psig at °F / barg at °C)			**MDMT (°F / °C)**	**Report Number**
	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

PARKER HANNIFIN CORPORATION
SPORLAN DIVISION
206 LANGE DRIVE
WASHINGTON, MO
63090, USA

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 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		
	Design Conditions MAWP at MAWT (psig at °F / barg at °C)			**MDMT (°F / °C)**	**Report Number**
	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	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		
	Design Conditions MAWP at MAWT (psig at °F / barg at °C)			**MDMT (°F / °C)**	**Report Number**
	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	R-2226D Rev. 0

PARKER HANNIFIN CORPORATION
SPORLAN DIVISION
206 LANGE DRIVE
WASHINGTON, MO
63090, USA

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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 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		
	Design Conditions MAWP at MAWT (psig at °F / barg at °C)			**MDMT (°F / °C)**	**Report Number**
	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.

THIS IS PART OF CRN
0C26330.5
Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety 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 I 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.

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