

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

www.tssa.org

September 18, 2023

PARKER HANNIFIN 1005 A CLEANER WAY HUNSTVILLE AL 35805

Workorder Type: Registration - Fitting(Conventional)

Workorder No: 14010588

Your Reference No.: CRN RENEWAL 0C16445.5 - PARKER GEN I I R-max STREAM SWITCHING SYSTEM

Registered to: PARKER HANNIFIN

Dear LAURA VEAL,

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

CRN: 0C16445.5R1

Main Design No.: Catalog No. 4141-R Parker Gen II R-max Stream Switching System (July 2014) & Scope of

Renewal

Expiry Date: Sep 18, 2033

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

Renewal of CRN only. Registration does not cover any product additions or design changes

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,

Shreyas Madhuranath M.Eng, P.Eng

Engineer, BPV

Tel.: +1 416-734-3212

Email: smadhuranath@tssa.org



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

see attached file

STATUTORY DECLARATION				
Registration of Fittings				
I, Ken Reid, Division Quality Assurance Manager				
(Name and Position, e.g. President, Plant Manager, Chief Engin	neer)		_	
of Parker Hannifin, Instrumentation Products Division			_	
(Name of Manufacturer)				
Located at	5-881-2040	256-881-5072		
(Plant Address) (Tele	ephone No.)	(Fax No.)		
do solemnly declare that the fittings listed hereunder, which are subject to the <i>Tecl</i> and Pressure Vessels Regulation, comply with all of the requirements of	hnical Standards	and Safety Act , Bo	oilers	
(Title of recognized North American Standard)			-	
which specifies the dimensions, materials of construction, pressure/temperature ratings, id	entification marking t	he fittings and service	e;	
or are not covered by the provisions of a recognized North American standard and MSS SP-105 as supported by the attached data which ident pressure/temperature ratings and the basis for such ratings, the marking of the fitting	ifies the dimensions	, material of construc		
I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of ISO 9001 which has been verified by the following authority, Det Norske Veritas .				
The items covered by this declaration, for which I seek registration, are category C type fittings. In support of				
this application, the following information and/or test data are attached as follows: Catalog 4141-R, ISO Certificate, Parker Gen II RMax Stream Switching Pressure Integ	rity Report 2013			
(drawings, calculations, test reports, etc.)	nty report 2010		_	
Declared before me at Huntsville in the State	, of	Alabama		
the 3rd day of May AD 20 23 Kayla Charm	naine Abram			
Commissioner for Oaths: My Commiss	Notary Public, Alabama State At Large Sommissioner for Oaths: My Commission Expires			
Kayla Charmaine Abram 11/5/5	2024			
(Printed name)	meth & R (Signature of Dec	end II		
(Signature)	(Signature of Dec	varer)		
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	Technical Standards and Safety Authority	Boilers and Pressure Vessels Safety Program		
CSA Standard B51 and is accepted for registration in Category	REGIS	STERED		
CRN:	C.R.N.: 0C16445			
Registered by:	Signed: Date: Septen	nber 18, 2023.		
Dated:		I only. Registration		
NOTE: This registration expires on: SEP 18, 2033	or design change	any product additions es	,	

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



THIS IS PART OF CRN
0C16445.5R1
Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
Program

Renewal of CRN only. Registration does not cover any product additions or design changes

CRN Renewal: 0C16445.5

Parker Gen II R-maxTM Stream Switching System

Parker Hannifin Corporation Instrumentation Products Division Huntsville, Alabama

May 5, 2023



THIS IS PART OF CRN 0C16445.5R1

Technical Standards and Safety Authority Boilers and Pressure Vessels Safety Program

Instrumentation Products Division 1005 A Cleaner Way Huntsville, AL 35805 USA Phone (256) 881-2040

Registration Renewal:

Parker Gen II R-max™ Stream Switching System

Parker is requesting a renewal of CRN 0C16445.5.

The products listed above currently have active registrations in Canada – Canadian Registration Number (CRN) 0C16445.5 issued November 14, 2013, and set to expire on November 14, 2023. This scope of registration is in support of an application to renew the CRN for the named products. There have been no design changes to this product since the previous CRN was issued.

Attached are:

- The Quality certifications for the manufacturing location
- The product catalog
- A copy of the previously approved design submission
- A copy of the signed witness test reports for proof testing (Matthew Whisman's National Board Al Commission number is 12315)

If there are any questions, concerns or you need additional information please contact me on 256-881-2040.

Respectfully,

Laura C. Veal Quality Engineer

Laura C. Val

Parker Hannifin Corporation Instrumentation Products Division 1005 A Cleaner Way Huntsville, AL 35805 USA Phone (256) 881-2040 Fax Number (256) 881-5730



Scope of Registration for Parker Instrumentation Tube Fittings

Product Scope:

THIS IS PART OF CRN
0C16445.5R1
Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
Program

This scope of registration includes the Parker Gen II R-max™ Stream Switching System covered in Parker catalog 4141-R. Refer to Catalog 4141-R for the applicable part numbers and dimensions for this scope of registration.

Valve Module Materials of Construction (page 4 of Catalog 4141-R):

Part	Material
Description	
Base	ASTM A479, Type 316
Valve Body	ASTM A479, Type 316
Stem	ASTM A479, Type 316
Seat	PCTFE
Backseat	PCTFE
2-103 O-Ring	Optional Elastomers
Lower Bonnet	ASTM A479, Type 316
2-007 O-Ring	Optional Elastomers
Backup Ring	PTFE
Center Bonnet	ASTM A479, Type 316
2-017 O-Ring	Optional Elastomers
Upper Bonnet	ASTM A479, Type 316

Part	Material
Description	
2-018 O-Ring	Optional Elastomers
2-023 O-Ring	Optional Elastomers
Piston	ASTM B611, Alloy 6061
Indicator	Flexible Polyolefin
2-020 O-Ring	Optional Elastomers
Spring	ASTM A546, Type 630
Сар	ASTM B211, Alloy 6061
Bolt (6-32 x 2.25)	Stainless Steel
Bolt (6-32 x 5/16)	Stainless Steel
Stream Switching Vent	ASTM A479, Type 316
Analyzer End Plates	ASTM A479, Type 316
Base Plate Bolts	ASTM A276, Type 316

Specifications (page 2 of Catalog 4141-R):

Pressure Rating

500 psig (34 bar) CWP

Temperature Rating

Fluorocarbon Rubber -

-15°F to 400°F (-26°C to 204°C)

Buna-N Rubber -

-30°F to 275°F (-34°C to 135°C)

Ethylene Propylene Rubber -

-70°F to 275°F (-57°C to 135°C)

Neoprene Rubber -

-45°F to 250°F (-43°C to 121°C)

Highly Fluoronated Fluorocarbon Rubber -

-25°F to 300°F (-32°C to 150°C)

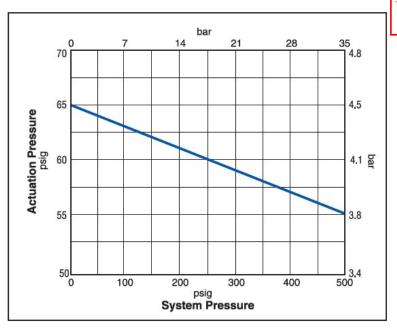
Flow Data (in a two stream system)

Stream 1: $C_v = 0.154$

Stream 2: $C_v = 0.104$



Actuation Pressure versus System Pressure (page 2 of Catalog 4141-R):



THIS IS PART OF CRN 0C16445.5R1

Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
Program

Quality System

Parker's quality management system complies with the requirements of ISO 9001:2015. The scope of the quality management system includes the qualification of all Parker's suppliers. The Parker location responsible for production of Parker Gen II R-max™ Stream Switching System is:

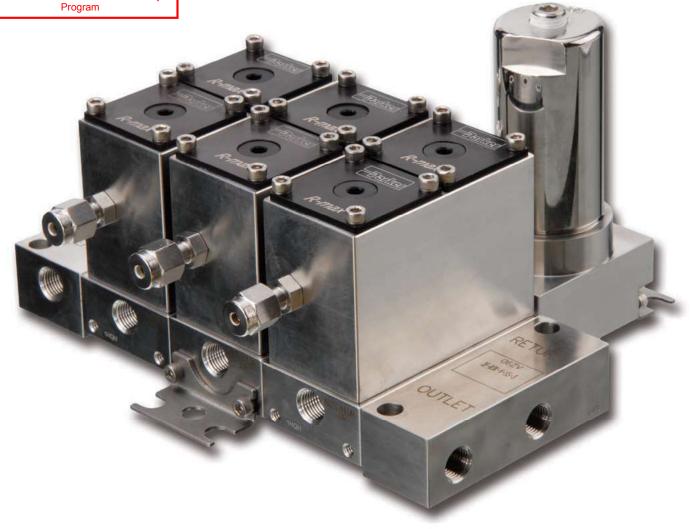
• 1005 A Cleaner Way, Huntsville, Alabama, 35805, USA

THIS IS PART OF CRN

0C16445.5R1

Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety





Parker Gen II R-max[™] Stream Switching System

Catalog 4141-R

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding



July 2014