



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 II 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



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-max™ Stream Switching
System

Parker Hannifin Corporation
Instrumentation Products Division
Huntsville, Alabama

May 5, 2023

Parker Hannifin Corporation



THIS IS PART OF CRN
OC16445.5R1
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 OC16445.5.

The products listed above currently have active registrations in Canada – Canadian Registration Number (CRN) OC16445.5 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 AI 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

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 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.

THIS IS PART OF CRN
OC16445.5R1
Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety
Program

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

| Part Description | Material |
|------------------|---------------------|
| 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 |

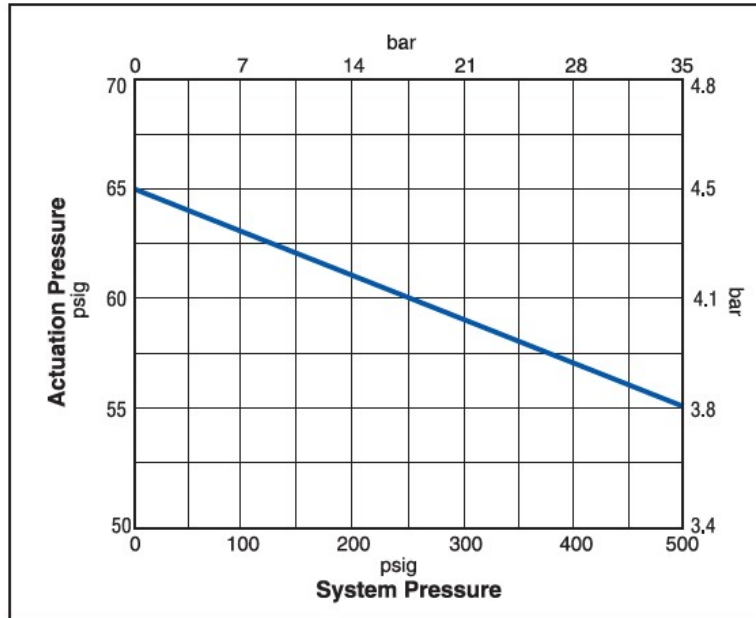
| Part Description | Material |
|-----------------------|-----------------------|
| 2-018 O-Ring | Optional Elastomers |
| 2-023 O-Ring | Optional Elastomers |
| Piston | ASTM B611, Alloy 6061 |
| Indicator | Flexible Polyolefin |
| 2-020 O-Ring | Optional Elastomers |
| Spring | ASTM A546, Type 630 |
| Cap | 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):

| |
|---|
| <p>Pressure Rating 500 psig (34 bar) CWP</p> |
| <p>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 Fluorinated Fluorocarbon Rubber – -25°F to 300°F (-32°C to 150°C)</p> |
| <p>Flow Data (in a two stream system) Stream 1: $C_v = 0.154$ Stream 2: $C_v = 0.104$</p> |

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

THIS IS PART OF CRN
OC16445.5R1
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:

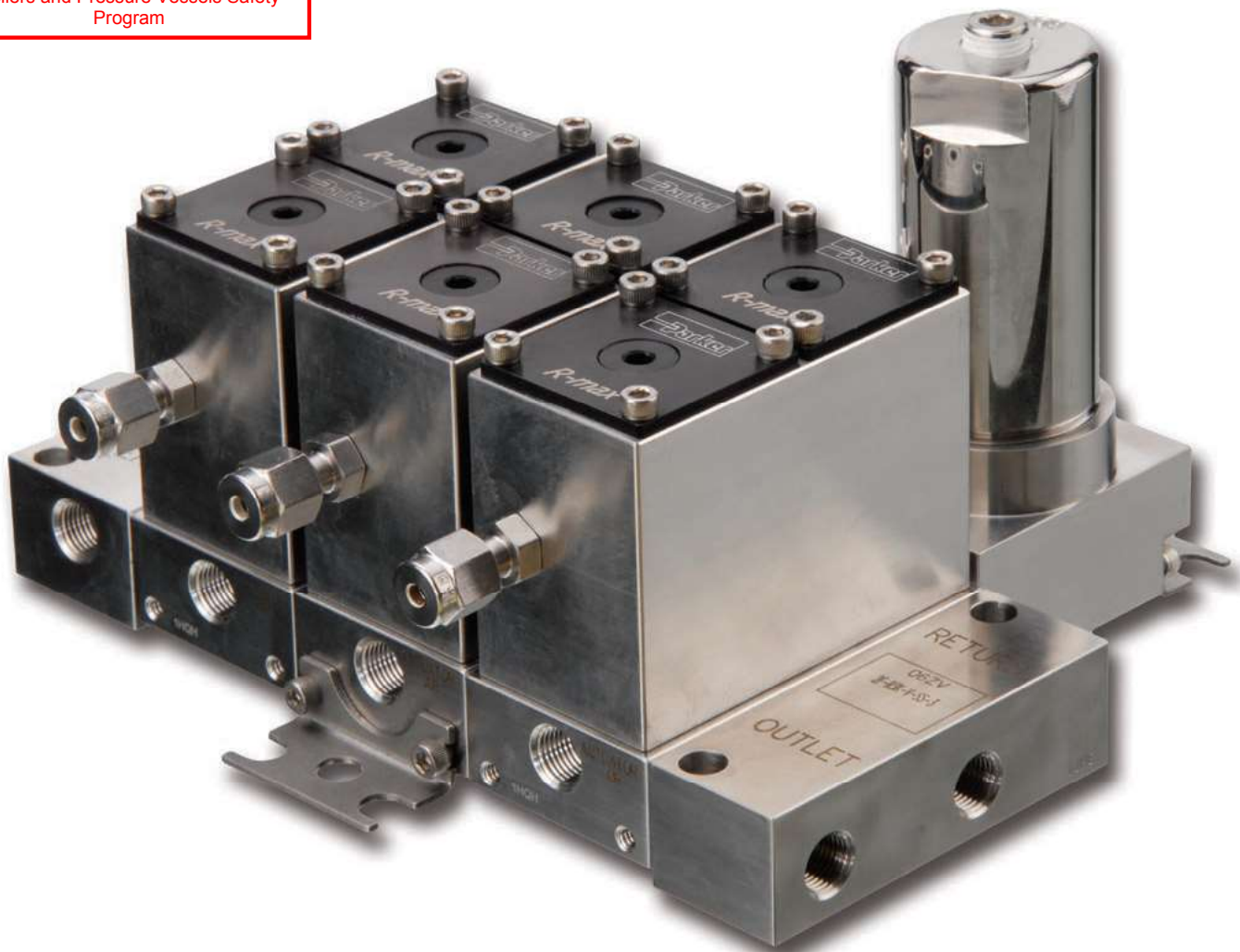
- 1005 A Cleaner Way, Huntsville, Alabama, 35805, USA

THIS IS PART OF CRN

OC16445.5R1

Technical Standards and Safety Authority

Boilers and Pressure Vessels Safety
Program



Parker Gen II R-max™ Stream Switching System

Catalog 4141-R

July 2014

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



ENGINEERING YOUR SUCCESS.