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REGISTRATION OF A PRESSURE FITTING DESIGN

04-Oct-22

TSSA 345 Carlingview Drive Toronto, Ontario M9W 6N9

Attention: Cecylia Garbacz File Number: 13286 [0 F]

Re: Manufacturer: Parker Hannifin Corporation - Instrumentation Products Div.

Item: NOVA & NOVA AOP Series Valves

Catalog or Drawing: Per Scope of Registration & Catalog 4255-PA (04/19)

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:

OC7512.53 Expiry Date: June 14, 2032

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:

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

The scope of this registration includes the 10-year renewal - previously registered in Saskatchewan through CSA.



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

See attached

STATUTORY DECLAR						
Registration of Fitting	S					
Ken Reid, Division QA Manager						
(Name and Position, e.g. President, Plant Manager, Chief	Engineer)					
of Parker Hannifin Instrumentation Products Division						
(Name of Manufacturer)						
Located at 1005 A Cleaner Way, Huntsville, AL, 35805, USA	256-881-2040					
(Plant Address)	(Telephone No.) (Fax No.)					
do solemnly declare that the fittings listed hereunder, which are subject to the and Pressure Vessels Regulation, comply with all of the requirements of	Technical Standards and Safety Act, Boilers					
(Title of recognized North American Standard)						
which specifies the dimensions, materials of construction, pressure/temperature rating	gs, identification marking the fittings and service;					
or are not covered by the provisions of a recognized North American standard Parker Engineering Standards as supported by the attached data which pressure/temperature ratings and the basis for such ratings, the marking of the factors are not covered by the provisions of a recognized North American standard parker Engineering Standards.	identifies the dimensions, material of construction,					
I further declare that the manufacture of these fittings is controlled by a quality system which has been verified by the following authority, DNV-GL	meeting the requirements of ISO 9001:2015					
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:						
See Attached Submission						
(drawings, calculations, test reports, etc.)						
Declared before me at The UPS STORE 2433, HONTSVILLE A Lin the ALABA	MARTINE MADBON COUTY					
the day of OECEMBER AD 20 21 . Commissioner for Oaths: COMM: DO 17 2025	DEED STATE					
CRYSTAL KAY KASTANAKIS Printed names Paytha Fay Eastwales 12/02/2021 Ken Renet Marie 12/02/2021						
(Signature)	(Signature of Declarer)					
FOR OFFICE USE ONLY						
To the best of my knowledge and belief, the application meets the requirements of the	Technical					
Technical Standards and Safety Act, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category	Safety Authority of Saskatchewan					
OSA Statidard BST and is accepted for registration in Category	Registration No. 0C7512.53					
CRN:	File No 13286					
-	Registered					
Registered by:	Date: October 4, 2022					
	Expiry Date: June 14, 2032					
Dated:	Codes & Standards Compliance Office					
NOTE: This registration expires on:						

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



Date: October 11, 2021

Reference: Parker Logo Markings

1	Primary Corporate Signature Minimum Size 5/4"	Parker
2	Small Size Corporate Signature Maximum Size ¾"	Đarker
3	Linear Corporate Signature	-Parker
4	Straight Type Identification— Helvetica Light	Parker
5	Small Size "P" Maximum Size ¾6"	-
6	Linear "P"	
7	Straight Type "P" Identification— Helvetica Light	P





Date: October 11, 2021

Reference: Parker Manufacturing Locations

Manufacturing Locations:

 Parker Hannifin, Instrumentation Products Division 1005 A Cleaner Way Huntsville, Alabama, 35805 USA





CRN Renewal: 0C7512.5

NOVA and NOVA AP Series Valves

Parker Hannifin Corporation Instrumentation Products Division Huntsville, Alabama

Initial: November 29, 2021

Revised: June 8, 2022



Parker Hannifin Corporation

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

Scope of Registration:

Pressure Regulators: NOVA and NOVA AOP Series Valves

Parker is requesting a renewal of CRN 0C7512.5Add2. There are no changes to the design and scope of registration under this renewal.

The products listed above currently have active registrations in Canada – Canadian Registration Number (CRN) 0C7512.5ADD2 issued March 29, 2018. This scope of registration is in support of an application to renew the CRN for the named products.

Attached are:

- The CRN Report for the NOVA and NOVA AOP Series Valves
- A copy of the previous approved design submission
- The Quality certification for the one (1) manufacturing locations
- Appendix A: Scope of Registration
- Appendix B: Catalog Pages

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. VIII

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



Appendix A: Scope of Registration

NOVA Valves

Product Specification Summary:

Materials of Construction:

360 Brass, ASTM B16 C36000 316L Stainless Steel, ASTM A276 S31603 Monel 405, ASTM B164 N04405

Operation Conditions:

Temperature -15°F to 150°F

MAWP 3500 psig max

Pressure Rating: Refer to Attachment B

Connections: Refer to Attachment B

Code of Registration:

Parker Engineering Specifications as noted in the TSSA Statutory Declaration





Appendix B: Catalog Pages

Diaphragm Valve, Manual and Air Actuated

General Purpose • Stainless Steel



Value Proposition:

The NOVA Series valves are economical, general purpose diaphragm valves for regulator outlet valves, gas control panels, & analyzer sampling system applications. Standard construction includes a 316L Stainless Steel body, various seat materials, and an Elgiloy® diaphragm with metal-to-metal external seal for leak integrity.

The NOVA AOP Series Air Actuated Diaphragm Valve is a derivative of the NOVA manually operated valve and is available in normally open (NO) or normally closed (NC) configurations. A choice of two line pressures are available: 250 psig and 500 psig.

Product Features:

- High Cycle Life
- Compact Size
- · Positive, consistent shutoff
- · Metal to Metal seal to atmosphere
- Low Internal volume
- · Low actuation pressure for AOP configuration



NOVA Series Specifications:

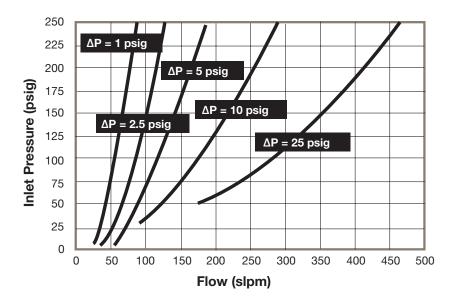
Functional Performance				
Pressure Ratings				
Operating Pressure				
Manual Valve	Vacuum to 3500 psig (241 bar			
Proof Pressure	5,250 psi (362 bar)			
Burst Pressure	10,500 psi (724 bar)			
AOP1, AOP3 Valve	Vacuum to 250 psig (17 bar)			
Proof Pressure	375 psi (26 bar)			
Burst Pressure	750 psi (52 bar)			
AOP2, AOPNO Valve	Vacuum to 500 psig (34 bar)			
Proof Pressure	750 psi (52 bar)			
Burst Pressure	1,500 psi (103 bar)			
Seat Leakage Class	Bubble Tight			
Temperature Rating	-15°F to 150°F (-26°C to 66°C)			
Flow Capacity	C _V = 0.17			
Orifice Diameter	.125 inch (3.2 mm)			
Internal Volume	Less than 1.0 cc			
Approximate Weight	.9 oz. (0.26 kg)			

Maximum Actuation Air Pressure				
AOP1 (normally closed) 65 psig (4.5 bar)				
AOP2 (normally closed)	75 psig (5.2 bar)			
AOP3 (normally closed)	40 psig (2.8 bar)			
AOPNO (normally open)	50 psig (3.5 bar)			

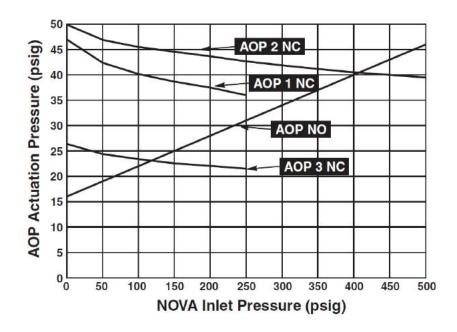
Material of Construction				
Wetted				
Body 316L Stainless Steel (std)				
Diaphragm Elgiloy®				
Seat PCTFE (std), PEEK™, Vespel®				
Non-Wetted				
Bonnet Nut 316 Stainless Steel				
Stem 316 Stainless Steel				
Knob/Lever ABS/Aluminum				
AOP Actuator Aluminum				

Elgiloy® is a registered trademark of Elgiloy Company Vespel® is a registered trademark of DuPont Performance Elastomers L.L.C. PEEK $^{\rm TM}$ is a registered trademark of Victrex plc.

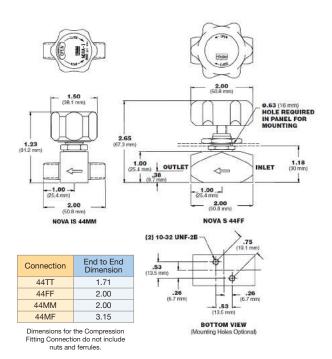
NOVA Series Flow Curves:



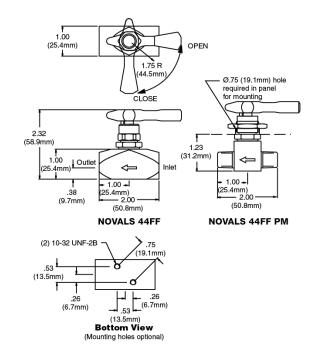
NOVA Series Actuation Air Pressure vs. Valve Inlet Pressure:



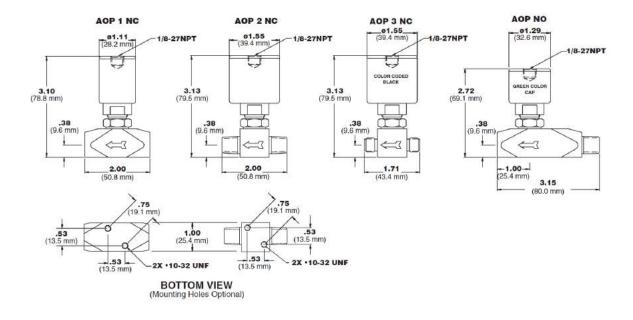
NOVA Dimensional Drawing:



NOVALS Dimensional Drawing:



NOVA AOP Dimensional Drawing:



NOVA Series Ordering Information:

Building a Part Number: Example: NOVAS44FF							
Example Part Number:		NOVA		s		44FF	
Ordering Parameters/Options:		Series		Material		Connections	Options
Table Reference: (see below)		А		В		С	D

A - Series			
NOVA	Multi-Turn Handwheel		
NOVAI	Indicating Knob		
NOVAL	Lever		

B - Materia	l
S	316L Stainless Steel

C - Connections				
44TT	1/4" Compression In and Out			
44FF	44FF 1/4" Female NPT In and 1/4" Female NPT Out			
44MM	1/4" Male NPT In and 1/4" Male NPT Out			
44MF	1/4" Male NPT In and 1/4" Female NPT Out			

D - Options			
МН	Mounting Holes		
PM	Panel Mount		
PEEK	PEEK™ Seat		
VESP	Vespel® Seat		

Notes:

Penel Mount Option is not available with Indicating Knob
Vespel® is a registered trademark of DuPont Performance Elastomers L.L.C
PEEK™ is a registered trademark of Victrex plc.
Compression Ends include Nuts and Ferrules

NOVA AOP Series Ordering Information:

Building a Part Number:	Example: NOV				
Example Part Number:	NOVAAOP	1	s	44TT	
Ordering Parameters/Options:	Series	Style	Material	Connections	Options
Table Reference: (see below)	A	В	С	D	E

NOVAAOP	Air Operated
B - Style	
1	Normally Closed - 250 psig
2	Normally Closed - 500 psig
3	Normally Closed - 250 psig
NO	Normally Open - 500 psig

C - Material	
S	316L Stainless Steel

D - Connections		
44FF	1/4" Female NPT In and 1/4" Female NPT Out	
44MM	1/4" Male NPT In and 1/4" Male NPT Out	
44MF	1/4" Male NPT In and 1/4" Female NPT Out	
44TT	1/4" Compression In x 1/4" Compression Out	

E - Options	s
МН	Mounting Holes
PEEK	PEEK™ Seat
VESP	Vespel® Seat

Notes:

Vespel[®] is a registered trademark of DuPont Performance Elastomers L.L.C PEEK™ is a registered trademark of Victrex plc. Compression Ends include Nuts and Ferrules

A - Series