



CERTIFICATIONS FOR THE NEW
PREVOST ***P***IPING ***S***YSTEM RANGE



CONNECTED TO INNOVATION

PPS

Certifications

Prevost products are essential to create high quality, professional grade air systems. Our fully customizable solution will adapt to any size or configuration building.

- Since 1978, **Prevost** has been developing, manufacturing and marketing a complete range of products suitable for air, fluid and vacuum systems. **PPS** products are guaranteed for 10 years after installation.

Innovation and **Quality** are two core values that makes **Prevost** a key partner for numerous industrial markets using pneumatic and hydraulic energy.

- Automotive industry
- Construction
- Plastics
- Textiles
- Medical & Pharmaceutical
- Food processing
- Aeronautics and Railway
- Electronics
- Logistics, heavy duty machinery...

Our top priority is to provide an entire range of products that combine performance, quality and safety. The R&D department strives to constantly improve our line to guarantee the certification and conformity of our products.



* *Prevost Italy*

■ **Prevost** products are designed, tested and validated by our own technical teams and certified by independent, third party organizations.

■ CONNECTED TO CERTIFICATION

Prevost GUARANTEES THE QUALITY OF THE PPS RANGE is compliant with strict internal specifications.

Numerous certifications guarantee the quality of our products:

- ISO 9001 **industrial organization**
- Compliance with pressure equipment legislation
- Excellent fire classification
- Compliant with applicable **ATEX** standards
- Appropriate classifications for various fluid groups

PPS

Certifications

OUR WORLDWIDE CERTIFICATIONS

REACH, RoHS, O, SILICON FREE, OIL FREE, UV RESISTANT, Recycle, QUALICDAT, ASME B31.1, ASME B31.3, TSSA, flame icon, QPS, TUV SUD, 2014/68/EU, ATEX, flame icon.

CERTIFICATIONS BY APPLICATION CATEGORY

Industrial Standards



Pressurized equipment



Safety and protection



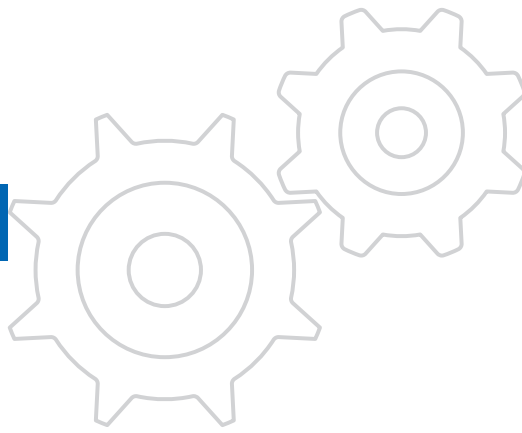
Fluid quality



Environmental



Industrial standards



QUALITY CERTIFICATIONS



- PrevoSt meets these compressed air and fluid distribution standards through: Research & Development, design and management of manufacturing operations and assembly and quality inspections.



- Controlling quality processes as a manufacturer of pipe fittings and subassemblies for compressed air and pressurized fluid systems with certificates of conformance signed by the Quality Manager, at the above location only. Manufacturing activities encompass design, research and development, assembly and testing.



Pressurized equipment



■ PRESSURIZED EQUIPMENT REQUIREMENTS



PED-2014/68/EU

TÜV certifies Prevost products meet the requirements of the Pressure Equipment Directive PED 2014/68/EU.

- Prevost complies with European requirements (CE).

ZERTIFIKAT ◆ CERTIFICATE ◆ 証明書 ◆ CERTIFICADO ◆ CERTIFICAT



Attestato/Statement

Nr. I-722206844/19

Si attesta che / This is to certify that

PREVOST S.a.s.

SEDE LEGALE:
REGISTERED OFFICE:
**RUE DU PRE' FAUCON 15
F-74092 ANNECY LE VIEUX**

SEDE OPERATIVA:
OPERATIONAL SITE:
**LOCALITÀ TERRAROSSA 3A/17
I-16042 CARASCO (GE)**

È RISULTATA CONFORME ALLA:
HAS BEEN FOUND TO COMPLY WITH:

Valutazione di conformità in accordo alla Direttiva PED 2014/68/EU, "controllo interno di produzione", per produzione, collaudo di componenti per impianti di aria compressa e distribuzione di fluidi in pressione.

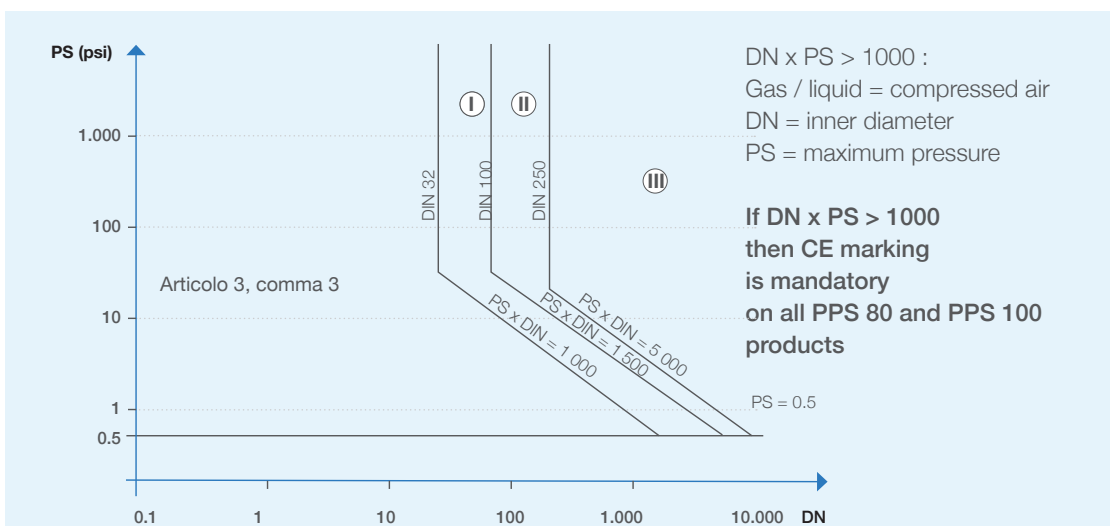
Conformity assessment in accordance with PED Directive 2014/68/EU, "internal production control", for the production, testing of components for compressed air installations and fluids distribution.

(Vedi elenco allegato dei prodotti / See attached list of components)

TÜV ITALIA Srl
Mario Ghidotti
Business Unit Manager




TÜV Italia • Gruppo TÜV SÜD • Via Carducci 125, Pal. 23 • 20099 Sesto San Giovanni (MI) • Italia • www.tuv.it TÜV®




■ CRN (CANADIAN REGISTRATION NUMBER)



CRN
 Prevost PPS products meet Canadian pressure equipment requirements and are **CRN** certified.

- The **CRN** certification has been approved by the 13 Canadian provinces.



365 Colquhoun Drive
 Toronto, Ontario M9W 0R9
 Tel: 416-734-3300
 Fax: 416-231-1628
 Toll Free: 1-877-662-8772
 www.tssa.org

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SCOTT ISLIP
 ROUND ENGINEERING INC
 10 SEGWUN RD
 WATERDOWN ON L8B 0K6
 CA

Service Request Type: BPV-Fitting Registration
 Service Request No.: 2287854
 Your Reference No.: R-0785AB
 Registered to: PREVOST


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 No.: OC20336.5
Main Design No.: PPS1 RSIF, PPS1 RSIM & PPS1 RSV Valve series - see the attachment to the Statutory Declaration Form for the scope of registration.
Expiry Date: 09/06/2018


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. Should you have any questions or require further assistance, please contact a Customer Service Advisor at 1.877.662.TSSA (6772) 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,

 Mark Valois P. Eng.
 Engineer Specialist BPV
 Tel.: 416-734-3494
 Fax: 416-231-1628
 Email: mvalois@tssa.org

Putting Public Safety First

■ ASME B31.1 / B31.3



ASME B31.1
ASME B31.3

Prevost PPS products comply with **ASME B31.1** and **ASME B31.3**.

- **ASME** are the specifications required for material, design, dimensions and manufacturing.

ASME is the US equivalent of the European Pressure Equipment Directive (**PED 2014/68/EU**) outlined below.



DECLARATION OF CONFORMITY
 1

ICIM S.p.A. ref. PPS - 53 886/17 Rev.0 FM/mc DOC 8260 del 13/10/2017

Manufacturer: PREVOST
 Shop: SP 586, Via Tarantola 3 int.17, 16042 Cassino (GE)

General description: pipe fitting
 Item: PPS 10 1008 PPS 7U 10

Design data: MANIP 220 psi del 17/11/8 Mod. at 80°C
 MANIP 478 at 232 psi (20°C) at 1.6 Mod.
 Hydrotest: test pressure 345 Psi (2.4 Mod)
 Certification: a license NCR

Material: ASTM B 79-11 304 L

Drawings:
 PPS1 0716 NPT rev. 00
 PPS1 0216 rev. 00 / PPS1 0A16 rev. 00 / PPS1 0B16 rev. 00
 PPS1 0R16 rev. 00 / PPS1 BAND16 rev. 00 / PPS1 NT16 rev. 00
 PPS1 SC162038 rev. 00 / PPS1 SC162038 rev. 00
 PPS1 SC168 rev. 00 / PPS1 AC168 rev. 00
 PPS1 MF 162038 rev. 00 / PPS1 MF 162038 rev. 00
 PPS1 BO168 rev. 00
 PPS1 MM162038 rev. 00 / PPS1 MM162038 rev. 00
 PPS1 UN168 rev. 00 / PPS1 TE168 rev. 00
 PPS1 TT162038 rev. 00 / PPS1 HSI168 rev. 00
 PPS1 RS162038 rev. 00 / PPS1 HSP162038 rev. 00

Codes:
 ASME B31.1 "Power Piping" edition 2016
 ASME B31.3 "Process Piping" edition 2016

Test type for design verification: burst test

CERTIFICATE OF ACCREDITATION

This is to accredit the named organization as having had the adequacy of their program verified for the scope shown below in accordance with the applicable rules of The American Society of Mechanical Engineers Standard for Qualifications for Authorized Inspection. The accreditation granted by this certificate is subject to the provisions of the agreement set forth in the application.

ORGANIZATION:


SCOPE:
 Authorized Inspection Agency for performance of Authorized Inspection Agency activities controlled from the above location to cover Sections I, III Divisions 1 & 3, IV, and VIII Divisions 1, 2 & 3 of the ASME Boiler and Pressure Vessel Code

AUTHORIZED:

 EXPIRES:

 CERTIFICATE NUMBER: AIA-108

 **The American Society of Mechanical Engineers**


 Richard Rotherham
 Board Chair, Conformity Assessment


 Jack Korman
 Director, Conformity Assessment


 ICIM S.p.A.
 Via Tarantola 3
 16042 Cassino (GE)
 Tel: +39 0585 411392
 Fax: +39 0585 411393
 Email: info@icim.it


 IQNet


 CE

Security and protection



■ FIRE CLASSIFICATION



EN 13501-1 CLASSIFICATION B-s1, d0

In the infrastructure and buildings sector, a fire classification must be provided. It provides information on the fire behavior of products in the event of a fire (insurance, etc.).

The **PPS** compressed air system line is designed to supply buildings with air power and is intended to meet this criteria.

- In Europe, the fire classification is determined by the standard **EN 13501-1**

ISTITUTO GIORDANO IAC-MRA ACCREDIA

LAB N° 0021

Classificazione e campo di applicazione.
Classification and field of application.

Riferimento di classificazione.
Reference of classification.

Questa classificazione viene definita in accordo con la norma UNI EN 13501-1:2009.
This classification is assigned in accordance with standard UNI EN 13501-1:2009.

Classificazione.
Classification.

Il prodotto "PPS1", in relazione al suo comportamento di reazione al fuoco, è classificato:
The product "PPS1" in relation to its reaction to fire behaviour is classified:

B

La classificazione aggiuntiva in relazione alla produzione di fumo è:
The additional classification in relation to smoke production is:

s1

La classificazione aggiuntiva in relazione alla cadute di gocce/particelle incendiate è:
The additional classification in relation to flaming droplets/particles is:

d0

La classificazione finale di reazione al fuoco del prodotto da costruzione è:
The final reaction to fire classification of the construction product is:

Classificazione / Classification: B - s1, d0

The PPS range is classified B-s1, d0:

- The fire behavior of PPS products is used to assign a classification of type: **B**
- The additional classification for smoke production is defined by: **s1**
- The classification in relation to ignited droplets/particles gives a classification: **d0**



FIRE CLASSIFICATION




UL 723 - ASTM E84

The standardized references for fire behavior in the US are **UL 723 & ASTM E84**.

The PPS range has been classified 0-0-0:

- The fire behavior of **PPS** products is used to assign a classification of type: **0**
- The additional classification for smoke production is defined by: **0**
- The classification in relation to ignited droplets/particles gives a classification: **0**

- In addition, the classification grade for plastics is **UL 94 HB**.



Summary of Investigation
For
Prevost sas, Carasco, GE, Italy

Subject: Surface Burning Characteristics of Prevost Piping System
Reference: 4788646662


The following is a summary of the test results obtained on a pipe assembly designated by Prevost sas as "Prevost Piping System" under Project 4788646662. The tests were conducted at UL's test facility in Toronto, Ontario on December 13th, 2018 in general accordance with CAN/ULC-S102.2:2018, *Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Coverings, and Miscellaneous Materials and Assemblies*, 8th Edition (Exception, less than three tests were conducted as indicated under "Results" and test specimens were longer than the required length as indicated under "Sample Description and Preparation").

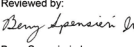
The issuance of this Report does not imply Listing, Classification, or Recognition by UL and does not authorize the use of UL Listing, Classification, or Recognition Marks or any other reference to Underwriters Laboratories of Canada or in connection with the product or assembly.

Underwriters Laboratories of Canada authorizes the above named company to reproduce this Report provided it is reproduced in its entirety. Underwriters Laboratories of Canada did not witness the production of the samples nor were we provided with information relative to the formulation or identification of component materials used in the samples. The test results relate only to the items tested and may not apply to subsequently produced samples or assemblies.

The sole purpose of this investigation was to provide fire test data for the pipe assembly submitted and tested in general accordance with the requirements of CAN/ULC-S102.2. This data should not be considered representative of test results for other pipe assemblies in the absence of testing the pipe assemblies in accordance with CAN/ULC-S102.2.

Underwriters Laboratories of Canada, its employees, and its agents shall not be responsible to anyone for the use or nonuse of the information contained in this Report, and shall not incur any obligation or liability for damages, including consequential damages, arising out of or in connection with the use of, or inability to use, the information contained in this Report.

Sincerely,

Stanis Yu
Project Handler
Building & Life Safety Technologies

Reviewed by:

Beny Spensieri, Jr.
Project Handler
Building & Life Safety Technologies

Underwriters Laboratories of Canada Inc.
7 Underwriters Road, Toronto, ON M3R 3A5, Canada
T 416-757-3033 / F 416-757-9540 / W UL.ca

Report Of Surface Burning Characteristics Tests On Samples As Submitted By Prevost SAS

The test determines the Surface Burning Characteristics of the material, specifically the flame spread and smoke developed indices when exposed to fire

METHOD.
Each test was conducted in accordance with Standard UL1887, (ASTM E84)
TEST METHOD
The test was conducted in accordance with UL 723 Eleventh Edition (2018/04/19)

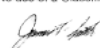
The results are tabulated below are considered applicable only to the specific samples tested


Data sheets and graphical plots of flame travel versus time and smoke developed versus time are also enclosed

Table 1: Test Summary

Test No.	Test Code	Sample Description	CFS Calculated Flame Spread	FSI Flame Spread Index	CSD Calculated Smoke Developed	SDI Smoke Developed Index
1	04261903	Compressed Air Piping	0.00	0	0.0	0

The Classification Marking of UL on the product is the only method provided by UL to identify products which have been produced under its Classification and Follow-Up Services. No use of a Classification Marking has been authorized as a result of this investigation.


James Smith, Staff Engineering Associate, Building Materials & Systems



CERTIFICATE OF COMPLIANCE

Certificate Number: [REDACTED]
Report Reference: [REDACTED]
Issue Date: [REDACTED]

Issued to: [REDACTED]

This certificate confirms that representative samples of **COMPONENT - PLASTICS** Refer to Addendum Page

Have been investigated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation on complete equipment submitted for investigation to UL LLC


Standard(s) for Safety: For standard information please visit UL iQ Plastics Database (<https://my.secure.home1.ul.com/portal/page/portal/usa/iQ/iQWelcome>)


Additional Information: See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information.

This Certificate of Compliance does not provide authorization to apply the UL Recognized Component Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

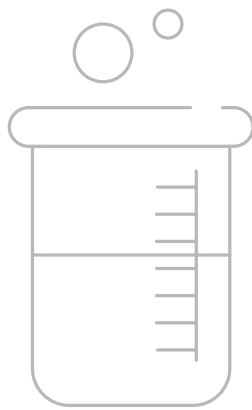
Look for the UL Recognized Component Mark on the product.


UL LLC
Any reference and incorporation involving UL Mark services are provided on behalf of UL LLC or any subsidiary of UL. For more information, please contact UL Prospector at ULProspector@ul.com




Page 1 of 2

Fluid quality



AIR QUALITY



**ISO 8573-1
CLASS 0.0.0**

This international standard establishes the different quality classes of compressed air.

- **Prevost** successfully meets the highest expectations of this standard. The products in the **PPS** range ensures the fluid being transported is not contaminated by solid particles, water, moisture or oil.

This level of quality meets the most demanding applications in terms of clean compressed air energy:

- pharmaceutical
- food processing
- paint, etc.

Page 1 of 2
Certificate No: LR21201983TA
Issue Date:
Expiry Date:

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	PREVOST s.a.s.
Address	Sp. 586 via Terrarossa 3A/17, CARASCO GE, 16040, Italy
Type	Pipes and Fittings
Description	Aluminum pipes and fittings for compressed air and fluid distribution networks
Trade Name	PPS1 Prevost Piping System
Application	Industrial
Specified Standard	ISO 8573-1:2010 compressed air quality specification Part 2: Test methods for oil aerosol content Part 3: Test methods for measurement of humidity Part 4: Test methods for solid particles content
Ratings	Working pressure 0.98 bar to 16 bar ISO 8573-1:2010 Class 0:0:0 External diameter of the tube (Range): 16; 20; 25; 32; 40; 50; 63; 80; 100 (mm)
Other Conditions	The quality of the air to be in the category CLASS 0 in term of total oil aerosol content, measurement of humidity, solid particles content as defined solid particles content, as defined in the standard ISO 8573-1: 2010

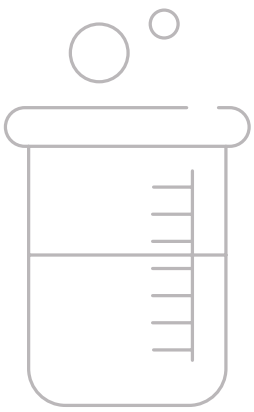

Valid Saremi Shahab
 Senior Piping Specialist to Lloyd's Register
 EMEA
 A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

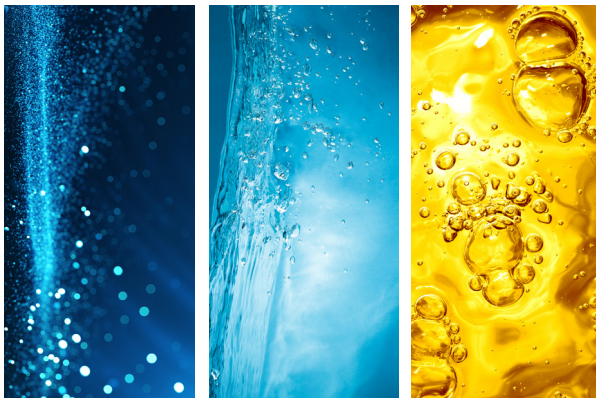
TA01 1.0.0





FLUID QUALITY

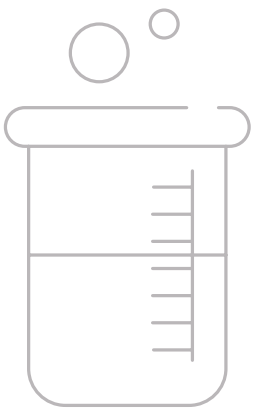
ISO 8573-1 class	SOLID PARTICLES			WATER	OIL
	Maximum number of particles per m ³			Dew point under steam pressure	Total concentration of oil (liquid, aerosol + gas)
	0.1 - 0.5 µm	0.5 - 1 µm	1 - 5 µm		
0	AS SPECIFIED AND STRICTER THAN CLASS 1				
1	≤ 20.000	≤ 400	≤ 10	≤ -70°C	≤ 0.01 mg/m ³
2	≤ 400.000	≤ 6.000	≤ 100	≤ -40°C	≤ 0.1 mg/m ³
3		≤ 90.000	≤ 1.000	≤ -20°C	≤ 1 mg/m ³
4			≤ 10.000	≤ +3°C	≤ 5 mg/m ³
5			≤ 100.000	≤ +7°C	
6	0 < Cp ≤ 5 mg/m ³			≤ +10°C	
7	5 < Cp ≤ 10 mg/m ³			≤ 0.5 g/m ³	
8				0.5 - 5 g/m ³	
9				5-10 g/m ³	
X	Cp > 10 mg/m ³			> 10 mg/m ³	> 10 mg/m ³



PARTICLES **WATER** **OIL**

ACHIEVABLE COMPRESSED AIR PURITY CLASS **SECTOR / APPLICATION**

0	0	0	Consult Prevost for “clean air” and clean room requirements.
>1	< 1- 3	< 1	Pharmaceutical industry, cosmetics, electronics, chemicals, aeronautics, food industry, quality paint.
1	4	1	Medical processing, weaving machines, photographic film processing, food industry and oil-free applications, pneumatic precision tools.
1	1 - 3	2	Photo laboratories.
1	4	2	Paint spraying, powder coating, packaging, inspection and instrument air.
2	1 - 3	1	Paint spraying systems.
2	4	1	Specific «clean air» routing, chemical plants.
2	1 - 3	2	Specific transport dry air, paint spraying, fine pressure regulators.
2	4	2	Quality sanding, single spray painting, air blowers, workshop.
3	4	3 - 4	Ordinary sanding, large pneumatic tools (coarse removal of oil/water particles).
4	4	3	General compressed air work, high quality sandblasting.
4	7 - X	3	Shot blasting.
4 - 6	7 - X	3 - 4	Air transport for wastewater systems.



FLUID CLEANLINESS



OIL FREE

- **Prevost** products will not contaminate the conveyed fluid with grease or oil particles.



SILICONE FREE

- **Prevost** guarantees that no silicone-based agents have been used in the manufacturing of **PPS** products.



QUALICOAT CERTIFICATION

- Guidelines for the quality label for thermo-lacquering coatings (liquid or powder) of aluminum intended for architecture. This label signifies the quality level of the treatment applied to the outer surface of **PPS** aluminum pipes. The external surfaces must be able to withstand the harsh environmental operating conditions in various industries using compressed air systems.



NSF H1 CLASSIFICATION

- **A high performance food grade lubricant (PPS AL).** The **Prevost PPS AL** lubricant is **NSF H1** accredited. It therefore meets the requirements of the most stringent applications: food, chemical, pharmaceutical, cosmetic...

Environmental



REACH – RoHS

- **Prevost** closely monitors the raw materials used to produce its line of **PPS** products. Through this process, products can be classified through **REACH** and **RoHS** legislation.



RECYCLABLE

- The **PPS** line (pipes and fittings) are 100% aluminum and recyclable.

Prevost certifications



INDUSTRIAL STANDARDS



* Prevost Italy

ISO 9001

Research and Development, design and management of manufacturing operations, assembly and quality inspection of products for compressed air and other fluid applications.



QPS-ASME

Controlling quality processes as a manufacturer of pipe fittings and subassemblies for compressed air and pressurized fluid systems with certificates of conformance.

PRESSURIZED EQUIPMENT



CE - Pressure Equipment Directive PED-2014/68/EU



ASME B31.1 / B31.3



CRN
(Canadian certification)

SECURITY & PROTECTION



EN 13501-1
Classification B-s1, d0



UL 723 - ASTM E84
Class 0.0.0



Ultraviolet resistant



ATEX Directive: 2014/34/EU
Area 1 - 2 - 21 & 22

FLUID QUALITY



ISO 8573-1
Class 0.0.0



Oil Free



Silicone Free



QUALICOAT



NFS H1

ENVIRONMENTAL



REACH



RoSH



Recyclable

PREVOST SAS

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