



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 make **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



■ CERTIFICATIONS BY APPLICATION CATEGORY

Industrial standards



* Prevost Italy



Pressurized equipment



Safety and protection



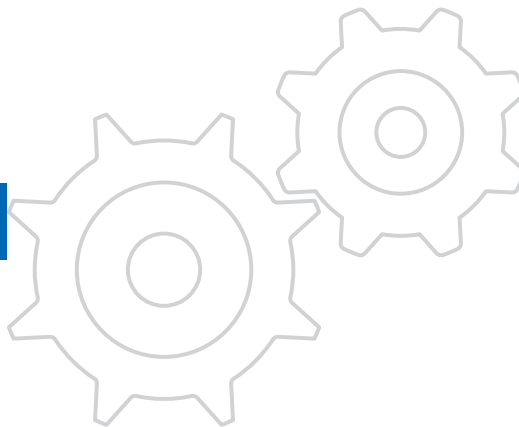
Fluid quality



Environmental



Industrial standards



■ QUALITY CERTIFICATIONS



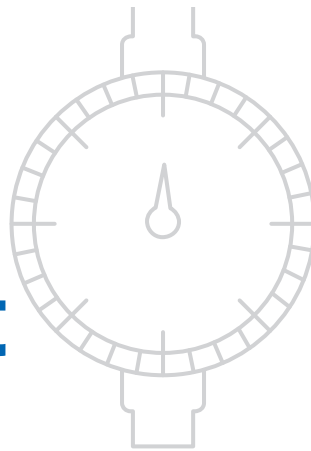
- **Prevost** meets these compressed air and fluid distribution standards through: Research & Development, design and management of manufacturing operations and assembly and quality inspections.



- 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 (Italy). Manufacturing activities encompass design, research and development, assembly and testing.



Pressurized equipment



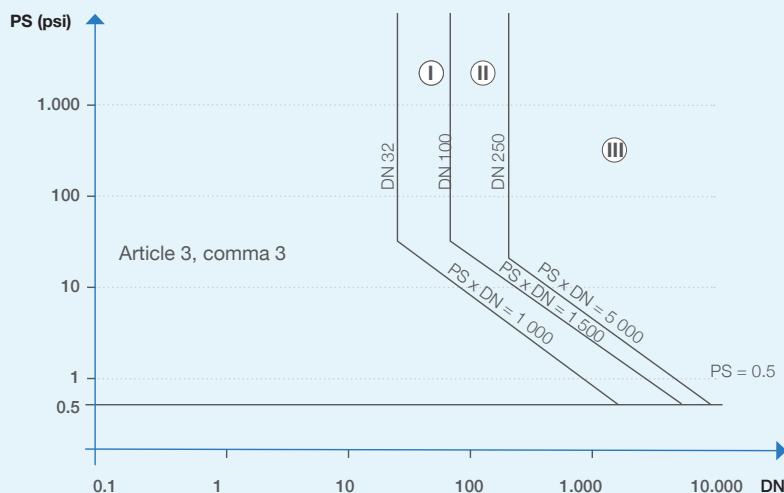
■ PRESSURIZED EQUIPMENT REQUIREMENTS



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).




DN x PS > 1000 :
Gas / liquid = compressed air
DN = inner diameter
PS = maximum pressure

If DN x PS > 1000
then CE marking
is mandatory
on all PPS 3" and PPS 6"
products

.....

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

-



360 Collingwood Drive
Toronto, Ontario M9W 9B6
Tel. 416-734-3800
Fax 416-231-1626
Toll Free: 1-877-662-8772
www.tssa.org

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

Service Request Type: BPV-Fitting Registration
Service Request No.: 2237354
Your Reference No.: R-07854/B
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.: **QC20336.5**
Main Design No.: PPS1 RSF, PPS1 RSIM & PPS1 RSJ Valve series - see the attachment to the
Statutory Declaration Form for the scope of registration.
Expiry Date: 08-May-2020

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 (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,

Mark Valde P. Eng
Engineer Specialist BPV
Tel.: 416-734-3494
Fax: 416-231-1626
Email: mvalde@tssa.org

Putting Public Safety First

.....

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

-

.....

| The American Society of Mechanical Engineers | |
|---|--|
| <div>ICIM</div> | |
| DECLARATION OF CONFORMITY | |
| ICIM S.p.A. ref. PIS – 53 886/17 Rev 0 F.Mimic DOC 8260 del 13/10/2017 | |
| Manufacturer: | PREVOST |
| Shop: | SP 586 - Via Terranova 3 int 17 - 16042 Carasco (GE) |
| General description: | pipe fitting |
| Item: | PIS1 16 / code PIS T11 16 |
| Design data: | MAWP 212 psi at 1.18°F (1.6 Mpa at 82°C) MAWP 417 psi at 232 psi (2.92 Mpa at 1.6 Mpa) Hydrostatic test pressure 345 Psi (2.4 Mpa) Compliance reference: N/A |
| Material: | ASTM B179-1 304 L |
| Drawings: | PIS1 016 NPT rev. 00 PIS1 016 rev. 00 PIS1 016 rev. 00 PIS1 016 rev. 00 PIS1 016 rev. 01 PIS1 016 rev. 01 PIS1 016 rev. 01 PIS1 016 rev. 02 PIS1 016 rev. 02 PIS1 016 rev. 02 PIS1 016 rev. 03 PIS1 016 rev. 03 PIS1 016 rev. 03 PIS1 016 rev. 04 PIS1 016 rev. 04 PIS1 016 rev. 04 PIS1 016 rev. 05 PIS1 016 rev. 05 PIS1 016 rev. 05 PIS1 016 rev. 06 PIS1 016 rev. 06 PIS1 016 rev. 06 PIS1 016 rev. 07 PIS1 016 rev. 07 PIS1 016 rev. 07 PIS1 016 rev. 08 PIS1 016 rev. 08 PIS1 016 rev. 08 PIS1 016 rev. 09 PIS1 016 rev. 09 PIS1 016 rev. 09 PIS1 016 rev. 10 PIS1 016 rev. 10 PIS1 016 rev. 10 PIS1 016 rev. 11 PIS1 016 rev. 11 PIS1 016 rev. 11 PIS1 016 rev. 12 PIS1 016 rev. 12 PIS1 016 rev. 12 PIS1 016 rev. 13 PIS1 016 rev. 13 PIS1 016 rev. 13 PIS1 016 rev. 14 PIS1 016 rev. 14 PIS1 016 rev. 14 PIS1 016 rev. 15 PIS1 016 rev. 15 PIS1 016 rev. 15 PIS1 016 rev. 16 PIS1 016 rev. 16 PIS1 016 rev. 16 PIS1 016 rev. 17 PIS1 016 rev. 17 PIS1 016 rev. 17 PIS1 016 rev. 18 PIS1 016 rev. 18 PIS1 016 rev. 18 PIS1 016 rev. 19 PIS1 016 rev. 19 PIS1 016 rev. 19 PIS1 016 rev. 20 PIS1 016 rev. 20 PIS1 016 rev. 20 PIS1 016 rev. 21 PIS1 016 rev. 21 PIS1 016 rev. 21 PIS1 016 rev. 22 PIS1 016 rev. 22 PIS1 016 rev. 22 PIS1 016 rev. 23 PIS1 016 rev. 23 PIS1 016 rev. 23 PIS1 016 rev. 24 PIS1 016 rev. 24 PIS1 016 rev. 24 PIS1 016 rev. 25 PIS1 016 rev. 25 PIS1 016 rev. 25 PIS1 016 rev. 26 PIS1 016 rev. 26 PIS1 016 rev. 26 PIS1 016 rev. 27 PIS1 016 rev. 27 PIS1 016 rev. 27 PIS1 016 rev. 28 PIS1 016 rev. 28 PIS1 016 rev. 28 PIS1 016 rev. 29 PIS1 016 rev. 29 PIS1 016 rev. 29 PIS1 016 rev. 30 PIS1 016 rev. 30 PIS1 016 rev. 30 PIS1 016 rev. 31 PIS1 016 rev. 31 PIS1 016 rev. 31 PIS1 016 rev. 32 PIS1 016 rev. 32 PIS1 016 rev. 32 PIS1 016 rev. 33 PIS1 016 rev. 33 PIS1 016 rev. 33 PIS1 016 rev. 34 PIS1 016 rev. 34 PIS1 016 rev. 34 PIS1 016 rev. 35 PIS1 016 rev. 35 PIS1 016 rev. 35 PIS1 016 rev. 36 PIS1 016 rev. 36 PIS1 016 rev. 36 PIS1 016 rev. 37 PIS1 016 rev. 37 PIS1 016 rev. 37 PIS1 016 rev. 38 PIS1 016 rev. 38 PIS1 016 rev. 38 PIS1 016 rev. 39 PIS1 016 rev. 39 PIS1 016 rev. 39 PIS1 016 rev. 40 PIS1 016 rev. 40 PIS1 016 rev. 40 PIS1 016 rev. 41 PIS1 016 rev. 41 PIS1 016 rev. 41 PIS1 016 rev. 42 PIS1 016 rev. 42 PIS1 016 rev. 42 PIS1 016 rev. 43 PIS1 016 rev. 43 PIS1 016 rev. 43 PIS1 016 rev. 44 PIS1 016 rev. 44 PIS1 016 rev. 44 PIS1 016 rev. 45 PIS1 016 rev. 45 PIS1 016 rev. 45 PIS1 016 rev. 46 PIS1 016 rev. 46 PIS1 016 rev. 46 PIS1 016 rev. 47 PIS1 016 rev. 47 PIS1 016 rev. 47 PIS1 016 rev. 48 PIS1 016 rev. 48 PIS1 016 rev. 48 PIS1 016 rev. 49 PIS1 016 rev. 49 PIS1 016 rev. 49 PIS1 016 rev. 50 PIS1 016 rev. 50 PIS1 016 rev. 50 PIS1 016 rev. 51 PIS1 016 rev. 51 PIS1 016 rev. 51 PIS1 016 rev. 52 PIS1 016 rev. 52 PIS1 016 rev. 52 PIS1 016 rev. 53 PIS1 016 rev. 53 PIS1 016 rev. 53 PIS1 016 rev. 54 PIS1 016 rev. 54 PIS1 016 rev. 54 PIS1 016 rev. 55 PIS1 016 rev. 55 PIS1 016 rev. 55 PIS1 016 rev. 56 PIS1 016 rev. 56 PIS1 016 rev. 56 PIS1 016 rev. 57 PIS1 016 rev. 57 PIS1 016 rev. 57 PIS1 016 rev. 58 PIS1 016 rev. 58 PIS1 016 rev. 58 PIS1 016 rev. 59 PIS1 016 rev. 59 PIS1 016 rev. 59 PIS1 016 rev. 60 PIS1 016 rev. 60 PIS1 016 rev. 60 PIS1 016 rev. 61 PIS1 016 rev. 61 PIS1 016 rev. 61 PIS1 016 rev. 62 PIS1 016 rev. 62 PIS1 016 rev. 62 PIS1 016 rev. 63 PIS1 016 rev. 63 PIS1 016 rev. 63 PIS1 016 rev. 64 PIS1 016 rev. 64 PIS1 016 rev. 64 PIS1 016 rev. 65 PIS1 016 rev. 65 PIS1 016 rev. 65 PIS1 016 rev. 66 PIS1 016 rev. 66 PIS1 016 rev. 66 PIS1 016 rev. 67 PIS1 016 rev. 67 PIS1 016 rev. 67 PIS1 016 rev. 68 PIS1 016 rev. 68 PIS1 016 rev. 68 PIS1 016 rev. 69 PIS1 016 rev. 69 PIS1 016 rev. 69 PIS1 016 rev. 70 PIS1 016 rev. 70 PIS1 016 rev. 70 PIS1 016 rev. 71 PIS1 016 rev. 71 PIS1 016 rev. 71 PIS1 016 rev. 72 PIS1 016 rev. 72 PIS1 016 rev. 72 PIS1 016 rev. 73 PIS1 016 rev. 73 PIS1 016 rev. 73 PIS1 016 rev. 74 PIS1 016 rev. 74 PIS1 016 rev. 74 PIS1 016 rev. 75 PIS1 016 rev. 75 PIS1 016 rev. 75 PIS1 016 rev. 76 PIS1 016 rev. 76 PIS1 016 rev. 76 PIS1 016 rev. 77 PIS1 016 rev. 77 PIS1 016 rev. 77 PIS1 016 rev. 78 PIS1 016 rev. 78 PIS1 016 rev. 78 PIS1 016 rev. 79 PIS1 016 rev. 79 PIS1 016 rev. 79 PIS1 016 rev. 80 PIS1 016 rev. 80 PIS1 016 rev. 80 PIS1 016 rev. 81 PIS1 016 rev. 81 PIS1 016 rev. 81 PIS1 016 rev. 82 PIS1 016 rev. 82 PIS1 016 rev. 82 PIS1 016 rev. 83 PIS1 016 rev. 83 PIS1 016 rev. 83 PIS1 016 rev. 84 PIS1 016 rev. 84 PIS1 016 rev. 84 PIS1 016 rev. 85 PIS1 016 rev. 85 PIS1 016 rev. 85 PIS1 016 rev. 86 PIS1 016 rev. 86 PIS1 016 rev. 86 PIS1 016 rev. 87 PIS1 016 rev. 87 PIS1 016 rev. 87 PIS1 016 rev. 88 PIS1 016 rev. 88 PIS1 016 rev. 88 PIS1 016 rev. 89 PIS1 016 rev. 89 PIS1 016 rev. 89 PIS1 016 rev. 90 PIS1 016 rev. 90 PIS1 016 rev. 90 PIS1 016 rev. 91 PIS1 016 rev. 91 PIS1 016 rev. 91 PIS1 016 rev. 92 PIS1 016 rev. 92 PIS1 016 rev. 92 PIS1 016 rev. 93 PIS1 016 rev. 93 PIS1 016 rev. 93 PIS1 016 rev. 94 PIS1 016 rev. 94 PIS1 016 rev. 94 PIS1 016 rev. 95 PIS1 016 rev. 95 PIS1 016 rev. 95 PIS1 016 rev |

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
MAC-MIRA
ACCREDITED
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 caduta 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 ULC's test facility in Toronto, Ontario on December 13th, 2018 in general accordance with CANULC-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 ULC and does not authorize the use of ULC Listing, Classification, or Recognition Marks or any other reference to Underwriters Laboratories of Canada on 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 CANULC-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 CANULC-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 M1R 3M5, Canada
T: 416-757-3833 / F: 416-757-3542 / B: 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 Service. 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 in 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.

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

UL LLC
Any information and documentation involving UL Mark services are provided on behalf of UL LLC under any authorized license of UL. For questions, please contact a local UL National Service Representative at usa@ulprospector.com

Page 1 of 2



SECURITY AND PROTECTION

COMPLIANCE IN ATEX CLASSIFIED AREAS

Statement
ATEX Directive 2014/34/EU – Equipment And Components Intended For Use In Potentially Explosive Atmospheres

Statement No. : 722200646
Product(s) : Flow Measurement piping - Item no. INT-...
Manufacturer : PREVOST SAS
Rue Du Pré Faucon 15
74092 Annecy le Vieux France

Basis Of Examination : European directive ATEX 2014/34/EU, Annex II
Standard(s) : EN 1127-1:2011, EN ISO 80079-36:2016

Intended Use : Zone 1 and 2, IIC,
Zone 21 and 22 IIIC

Statement / Evaluation Result
After a detailed evaluation, the product was found not to be in the scope of application of the ATEX directive 2014/34/EU according to the interpretations of the ATEX 2014/34/EU Notified Bodies.
Despite the exclusion of the scope of application, when those products are not well explosion proof designed, they may contain active ignition source's under certain conditions.
Therefore the ignition hazard assessment and products has been verified and they have been approved by TÜV Italia for use in Explosive Atmospheres, there are no effective ignition sources. Special conditions for use have to be applied (see section 5).

TÜV Italia – TÜV SÜD Group
IS, Explosion Protection And Prevention Services

Project Handler: *Diego Molit*
Approved: *Tiziano Porqueddu*
Diego Molit Tiziano Porqueddu

This statement may only be reproduced in full. Any use for advertising purposes must be granted in writing. This statement is the result of a single inspection examination of the equipment in question and is not a generally applicable evaluation.

TÜV ITALIA S.R.L.
TÜV SÜD Group
Divisione e Sede Amministrativa:
Via Gaudenzio 10, 20121 Milano (MI)
20129 Milano San Siro (MI) - Italy
Sede Legale: Via Marconi 100, 20139 Milano
Sede Legale al pubblico e al commercio: Via S. Vito 100, 20139 Milano

Registri della Impresa di Milano
n. iscrizione alla P.A. 000000000000
R.E.A. - 1200442 - P. IVA 000000000000
Cod. Fiscale 000000000000
Capitale sociale - Euro 100.000.000.000
Riv. Un. Imp. 000000000000 - P. A. 000000000000
Bilancio 17/18 000000000000 000000000000

Explosion hazards can arise from various elements in the atmosphere:

- **Gases/vapors:** hydrocarbons, solvents, paints, thinners, petrol, alcohol, dyes, perfumes, chemicals, plastics, etc.
- **Dust/powder:** magnesium, aluminum, sulfur, cellulose, cereals, coal, wood, milk, resins, sugar, starch, polystyrene, fertilizer

Use of PPS products is possible in the least hazardous ATEX classified areas:

- **gas:** areas 1 and 2
- **dust:** areas 21 and 22

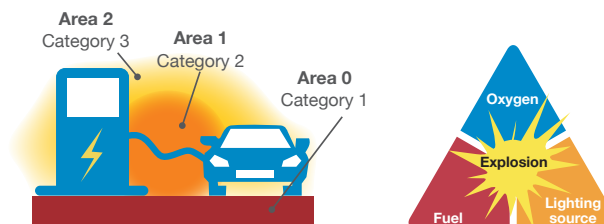
| Area | | Equipment category | Presence of explosive atmosphere |
|------|------|--------------------|--|
| Gas | Dust | | |
| 0 | 20 | 1 | Constantly or for extended periods > 1000 hours per year |
| 1 | 21 | 2 | Sometimes 10 ~ 1000 hours per year |
| 2 | 22 | 3 | Rarely or for short periods <10 hours per year |

ATEX

ATEX DIRECTIVE 2014/34/EU

This European directive applies to all electrical and non-electrical equipment used in explosive, gaseous or dusty atmospheres.

- **ATEX** outlines the rules to be followed during the installation process to avoid the risk of explosions in areas classified as hazardous.



UV-RESISTANT

The 100% aluminum **PPS** line has excellent ultra violet ray resistance.

Fluid quality



■ AIR QUALITY



ISO 8573-1 CLASS 0.0.0

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

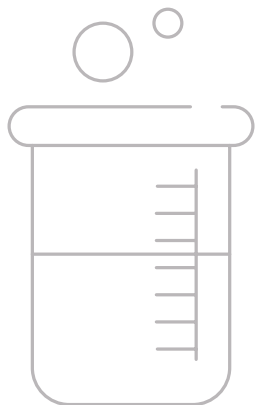
- **Prevost** successfully meets the highest expectations of this standard. The products in the **PPS** range ensures the fluid being transported is not contaminated by solid particles, water, moisture or oil.

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:  |
| <h3>Type Approval Certificate</h3> | | |
| <p>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.</p> | | |
| 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 | |
| 71 Fenchurch Street, London, EC3M 4BS, United Kingdom <small>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.</small> | |  Valid Sereeni Shahab Senior Piping Specialist to Lloyd's Register EMEA A member of the Lloyd's Register group |





FLUID QUALITY

| ISO 8573-1 class | SOLID PARTICLES | | | WATER | OIL |
|--|--|------------|-----------|---|---|
| | Maximum number of particles per m³ | | | Dew point under steam pressure °C / °F | 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 / -94 | ≤ 0.01 mg/m³ |
| 2 | ≤ 400.000 | ≤ 6.000 | ≤ 100 | ≤ -40 / -40 | ≤ 0.1 mg/m³ |
| 3 | | ≤ 90.000 | ≤ 1.000 | ≤ -20 / -4 | ≤ 1 mg/m³ |
| 4 | | | ≤ 10.000 | ≤ +3 / +37.4 | ≤ 5 mg/m³ |
| 5 | | | ≤ 100.000 | ≤ +7 / +44.6 | |
| 6 | 0 < Cp ≤ 5 mg/m³ | | | ≤ +10 / +50 | |
| 7 | 5 < Cp ≤ 10 mg/m³ | | | ≤ 0.5 g/m³ | |
| 8 | | | | 0.5 - 5 g/m³ | |
| 9 | | | | 5-10 g/m³ | |
| X | Cp > 10 mg/m³ | | | > 10 mg/m³ | > 10 mg/m³ |



PARTICLES

WATER

OIL

**ACHIEVABLE COMPRESSED AIR
PURITY CLASS**

SECTOR / APPLICATION

prevost
0

prevost
0

prevost
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

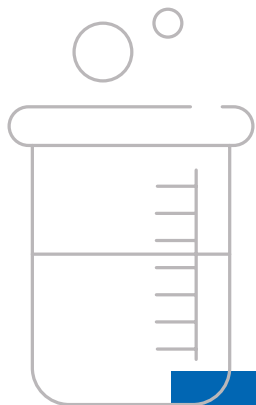
Shot blasting.

4 - 6

7 - X

3 - 4

Air transport for wastewater systems.



FLUID QUALITY



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 **RoSH** legislation.



RECYCLABLE

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

Prevost certifications



INDUSTRIAL STANDARDS



ISO 9001

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

* Prevost Italy



ASME QPS Certificate Holder

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



CONNECTED TO INNOVATION

PREVOST CORP
74 Brookfield Oaks Drive. Ste. 3 - Greenville, SC 29607 - USA
Tel: +1 (800) 845-7220 - sales.corp@prevostusa.com
www.prevostusa.com

This document may not be deemed contractually binding. We reserve the right to change product specifications without notice.

Actual products may differ from images shown - Photo credits: Prevost - Pixpocket - IStock - PPS CERTIFYUS