



CERTIFICATIONS FOR THE NEW  
***PREVOST PIPING SYSTEM 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** 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



#### Pressurized equipment



#### Safety and protection



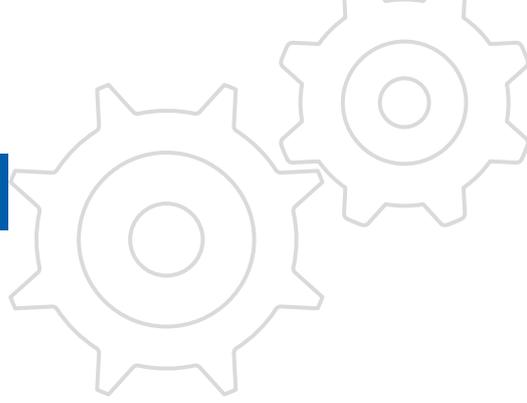
#### Fluid quality



#### Environmental



# Industrial standards



## ■ QUALITY CERTIFICATIONS



**ISO 9001  
CERTIFICATION**

Prevost's technology is recognized by the TÜV

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

**CERTIFICATO**  
N. 50 100 13990 - Rev. 001

IL SISTEMA QUALITÀ DI THE QUALITY SYSTEM OF

**PREVOST S.a.s.**

SEDE LEGALE / REGISTERED OFFICE  
**RUE DU PRE<sup>®</sup> FAUCON 15  
F-74940 ANNECY LE VIEUX**

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

**UNI EN ISO 9001:2015**

QUESTO CERTIFICATO È VALIDO PER IL SEGUENTE CAMPO DI APPLICAZIONE  
THIS CERTIFICATE IS VALID FOR THE FOLLOWING SCOPE

**Ricerca e sviluppo, design, gestione della fabbricazione, assemblaggio, collaudi e analisi tecniche di componenti per impianti di aria compressa e distribuzione di fluidi in pressione (SAF 34, 18)**

**Research and development, design, manufacturing management, assembly operations, control and technical analysis of components for compressed air installations and fluids distribution (SAF 34, 18)**

ACCREDITED  
Per l'Organismo di Certificazione  
For the Certification Body  
**TÜV SUD S.p.A.**

Per il Responsabile  
**Andrea Coscia**

Pressa Certificazione / First Certification Date: 24/11/2015  
Data di scadenza della Pressa / Validity of Certification: 2020-08-08  
Expiration Date of the Last Certification Cycle: 2020-08-08

TÜV Italia S.p.A. • Gruppo TÜV SUD • Via Caracciolo 1/25, Pal. 23 • 20090 Sesto San Giovanni (MI) • Italia • [www.tuv.it](http://www.tuv.it)

**Certified companies manage their manufacturing processes** at the highest level of operating conditions to exceed customer expectations.



# 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).



**Attestato/Statement**  
N.º: I-7220684419

Si attesta che / This is to certify that

**PREVOST S.a.s.**

SEDE LEGALE:  
REGISTERED OFFICE:  
RUE DU PRE' FAUCON 15  
F-74992 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:

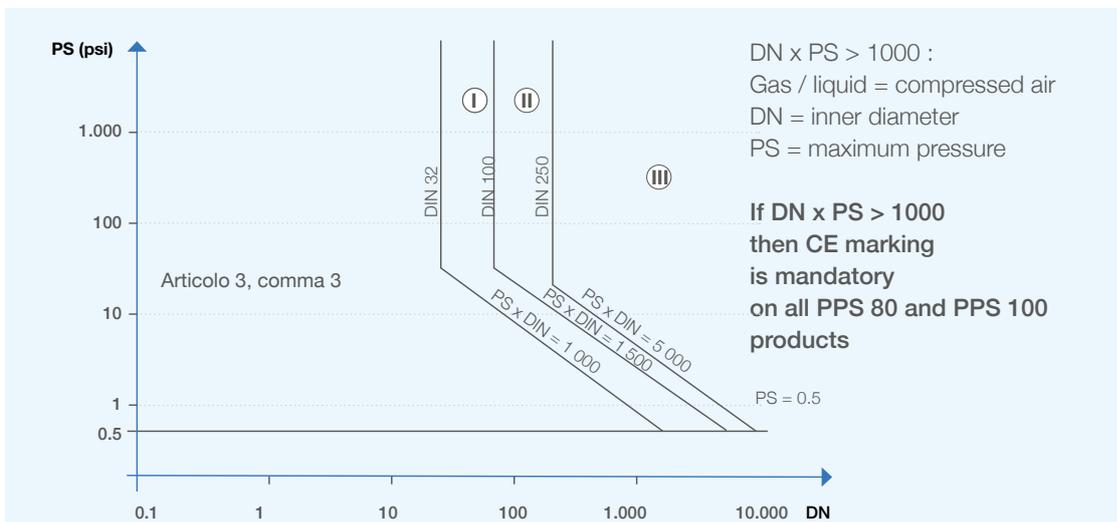
**Valutazione di conformità in accordo alla Direttiva PED 2014/68/EU, "controllo interno di produzione", per produzione, collaudo di componenti per impianti di aria compressa e distribuzione di fluidi in pressione.**

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 Ghisetti  
Business Unit Manager

TÜV Italia • Gruppo TÜV SÜD • Via Carducci 126, Pal. 22 • 20089 Sesto San Giovanni (MI) • Italia • www.tuv.it TÜV®





# 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 ACCREDITED ACCREDITIA

**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



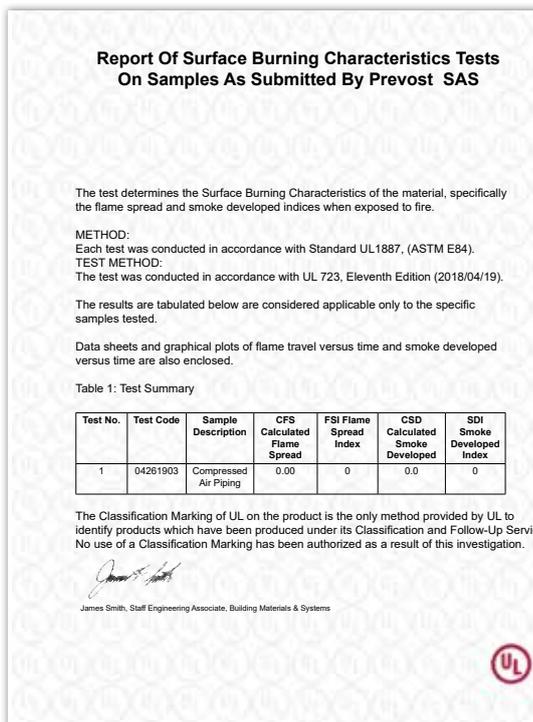
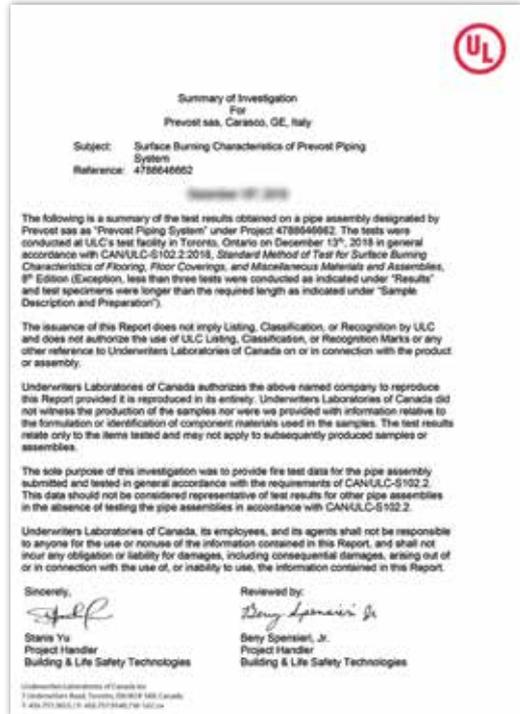
### UL 723 - ASTM E84

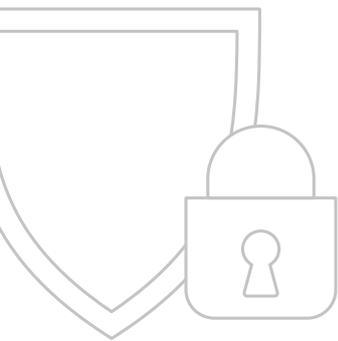
The standardized references for fire behavior in the US are **UL 723 & ASTM E84**.

### 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**

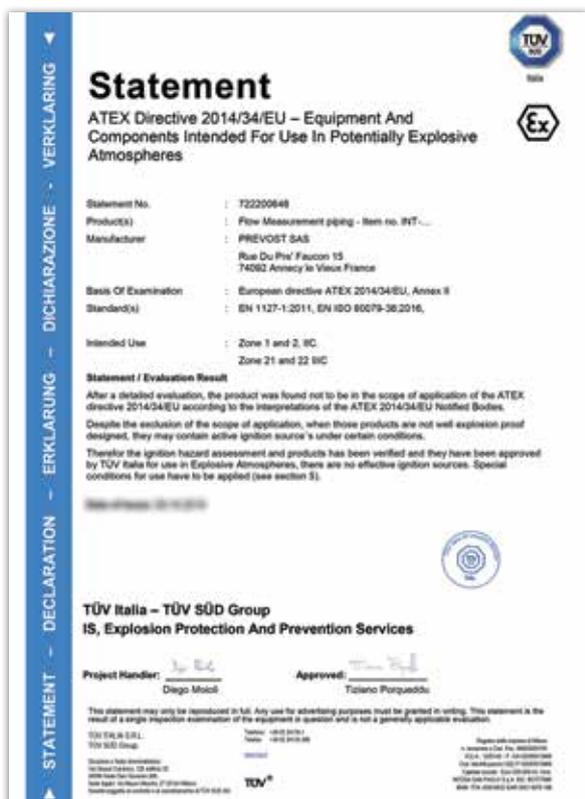
- In addition, the classification grade for plastics is **UL 94 HB**.





# SECURITY AND PROTECTION

## COMPLIANCE IN ATEX CLASSIFIED AREAS



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:

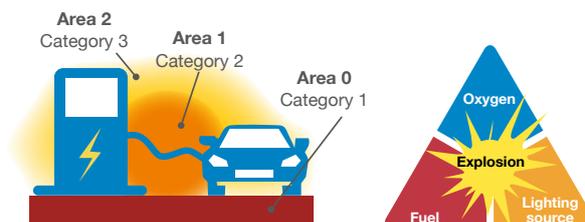
- **gas:** areas 1 and 2
- **dust:** areas 21 and 22

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 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% aluminium PPS line has excellent ultra violet ray resistance.





# FLUID QUALITY

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



PARTICLES	WATER	OIL
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ACHIEVABLE COMPRESSED AIR PURITY CLASS	SECTOR / APPLICATION
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<b>0</b>	<b>0</b>	<b>0</b>	Consult <b>Prevost</b> 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 **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.

### PRESSURIZED EQUIPMENT



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



**ASME B31.1 / B31.3**



**CRN**  
(Canadian certification)

### FLUID QUALITY



**ISO 8573-1**  
Class 0.0.0



**Oil Free**



**Silicone Free**



**QUALICOAT**



**NFS H1**

### 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

### ENVIRONMENTAL



**REACH**



**RoSH**



**Recyclable**

**PREVOST SAS**

15, rue du Pré Faucon – CS 90208 – Annecy-le-Vieux – 74940 Annecy – France  
Tel. +33 (0)4 50 64 04 45 – sales@prevost.eu

**PREVOST UK Ltd**

Unit G, Tower Business Park  
Commercial Road - Darwen - BB3 0FJ - UK  
Tel. +44 (0)125 487 3389 – sales@prevost-ltd.co.uk

**[www.prevost.eu](http://www.prevost.eu)**