

### 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.

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**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.

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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



### OUR WORLDWIDE CERTIFICATIONS



### CERTIFICATIONS BY APPLICATION CATEGORY



# Industrial standards

### ■ QUALITY CERTIFICATIONS



### ISO 9001 CERTIFICATION

Prevost's technology is recognized by the <u>TÜV</u>

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







# Pressurized equipment

### PRESSURIZED EQUIPMENT REQUIREMENTS

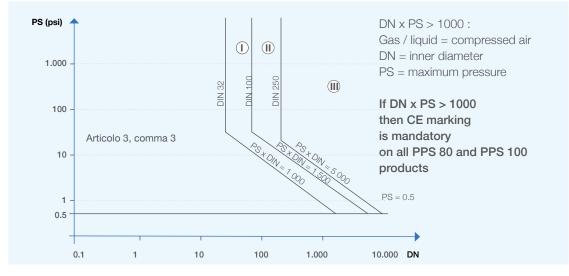


#### PED-2014/68/EU

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

Prevost complies with European requirements (CE).





### CRN (CANADIAN REGISTRATION NUMBER)

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### **CRN**

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

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

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Deer BOOTT ISLP.		
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### ASME B31.1 / 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.

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# 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

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#### GIORDANO ACCREDIA 🔨 LAR AT COST Classificazione e campo di applicazione. tion and field of app Riferimento di classificazione. Questa classificazione viene definita in accordo con la norma UNI EN 13501-1:2009. Classificazione. Classificati Il prodotto "PPS1", in relazione al suo comportamento di reazione al fuoco, è classificato: The product "PP51" in relation to its reaction to fire behaviour is classif в La classificazione aggiuntiva in relazione alla produzione di fumo è: The additional classification in relation to smoke production is: **s**1 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: 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:

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

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The test determines the Surface Burning Characteristics of the material, specifically     New Seven weaking and CAMPORINT - PLASTICS       METHOD     And test was conducted in accordance with Standard UL1887, (ASTM E84).     New Seven investigated by UL in accordance with UL723, Eleventh Edition (2018/04/19).       The results are tabulated below are considered applicable only to the specification and graphical polic of flame travel versus time and smoke developed results are associated on a complete autometric solution please with 1.4 (2) Pleastone developed results are associated for investigation to U       The 1: Test Summary     The flame travel versus time and smoke developed results are associated on a complete autometric down investigation to U       The 1: Test Summary     The Statistic on the product is the only method provided by UL to flame travel versus time and smoke developed results are associated on a complete autometric down investigation to U       The 2: Statistic on Marking of UL on the product is the only method provided by UL to flame travel versus time and smoke developed results are associated and an extended of the metation of the statistic on the developed results are associated and an extended of the metation of the statistic on the developed results.       The 1: Test Summary     The Catalited for fiss Flame for CSD for fiss flame to the statistic on the product is the only method provided by UL to fission to the statistic on the product is the only method provided by UL to fission the table to the statistic on the product is the only method provided by UL to fission the table to the statistic on the product is the only method provided by UL to fission the table to the statistic on the product is the only method provided by UL to fission the table to the statistic on the product is t							1000		
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### SECURITY AND PROTECTION

### **COMPLIANCE** IN ATEX CLASSIFIED AREAS

Statem	ent
ATEX Directive 2	1014/34/EU – Equipment And Inded For Use In Potentially Explosive
Statement No.	7322008-48
Product(a)	Flow Measurement piping - Item no. INT
Manufacturer	PREVOST SAS
	Rue Du Pre' Faucon 15
	74292 Annecy to Vieux France
Basis Of Examination	European directive ATEX 2014/34/BU, Annex II
Blanderd(s)	EN 1127-1-2011, EN IDO 80079-38-2016,
Intended Use	Zone 1 and 2, 80.
	Zone 21 and 22 BIC
Statement / Evaluation Re	and the second
After a detailed evaluation, I directive 2014/34/EU accord	the product was found not to be in the scope of application of the ATEX Sing to the interpretations of the ATEX 2014/34/EU Notified Bodge.
Despite the exclusion of the	scope of application, when those products are not well explosion proof active ignition source's under certain conditions.
Therefor the ignition hazard	assessment and products has been verified and they have been approvious date Atmospheres, there are no effective ignition sources. Special
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	JD Group
TÜV Italia – TÜV SU IS, Explosion Prote	ction And Prevention Services
IS, Explosion Prote	
IS, Explosion Prote	Approved
IS, Explosion Prote Project Handler; Dirgo Mol	Approved Topics
IS, Explosion Prote Project Handler: Diago Mos Thatter angle handle is an	Approved Televention Services
IS, Explosion Prote Project Handler; Dirgo Mol	Approved Services
S, Explosion Prote	Approved:



### 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.

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Explosion hazards can arise from various elements in the atmosphere:

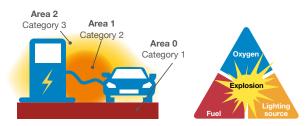
- Gases/vapors: hydrocarbons, solvents, paints, thinners, petrol, alcohol, dyes, perfumes, chemicals, plastics, etc.
- Dust/powder: magnesium, aluminum, sulfur, cellulose, cereals, coal, wood, milk, resins, sugar, starch, polystyrene, fertilizer

Use of PPS products is possible in the least hazardous ATEX classified areas: gas: areas 1 and 2

#### dust: areas 21 and 22

A	ırea	Equipment	Presence of explosive		
Gas	Dust	category	atmosphere		
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		

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### UV-RESISTANT



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





### **AIR** QUALITY



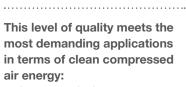
### ISO 8573-1 CLASS 0.0.0

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.

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- pharmaceutical
- food processing
- paint, etc.







	SOL	ID PARTICLES	WATER	OIL		
ISO 8573-1 class	Maximum nu	mber of particles	Dew point	Total concentration		
0035	0.1 - 0.5 μm	0.5 - 1 μm	1 - 5 µm	under steam pressure	of oil (liquid, aerosol + gas)	
prevost 0	AS SPECIFIED AND STRICTER THAN CLASS 1					
1	≤ 20.000	≤ 400	≤ 10	≤ -70°C	≤ 0.01 mg/m³	
2	≤ 400.000	≤ 6.000	≤ 100	≤ -40°C	≤ 0.1 mg/m³	
3		≤ 90.000	≤ 1.000	≤ -20°C	≤ 1 mg/m³	
4			≤ 10.000	≤ +3°C	≤ 5 mg/m³	
5			≤ 100.000	≤ +7°C		
6	0 -	< Cp ≤ 5 mg/m³	≤ +10°C			
7	5 <	Cp ≤ 10 mg/m³	≤ 0.5 g/m³			
8			0.5 - 5 g/m³			
9			5-10 g/m³			
x	c	cp > 10 mg/m³	> 10 mg/m³	> 10 mg/m³		



PARTICLES

WATER

ACHIEV	ABLE COMPRESS PURITY CLASS	SED AIR	SECTOR / APPLICATION
prevost 0	prevost 0	prevost 0	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



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

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

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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.

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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...

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# **Environmental**



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.





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

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# **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

ASME

B31.3



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



ASME B31.1 / B31.3



CRN (Canadian certification)

### FLUID QUALITY



### **SECURITY & PROTECTION**

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EN 13501-1 Classification B-s1, d0



UL 723 - ASTM E84 Class 0.0.0



Ultraviolet resistant

ATEX

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

### ENVIORNMENTAL





### **PREVOST SAS**

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#### www.prevost.eu

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