prevost

# PREVOST PIPING SYSTEM

100% ALU

ASME QPS CERTIFICATE HOLDER

| ∅ in | 1/2” | 3/4” | 1” | 1 1/4” | 1 1/2” | 2” | 2 1/2” | 3” | 4” | 6” |
|---|---|---|---|---|---|---|---|---|---|---|

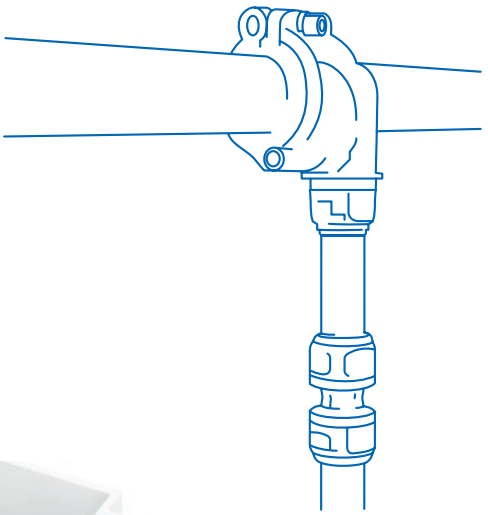
CONNECTED TO INNOVATION

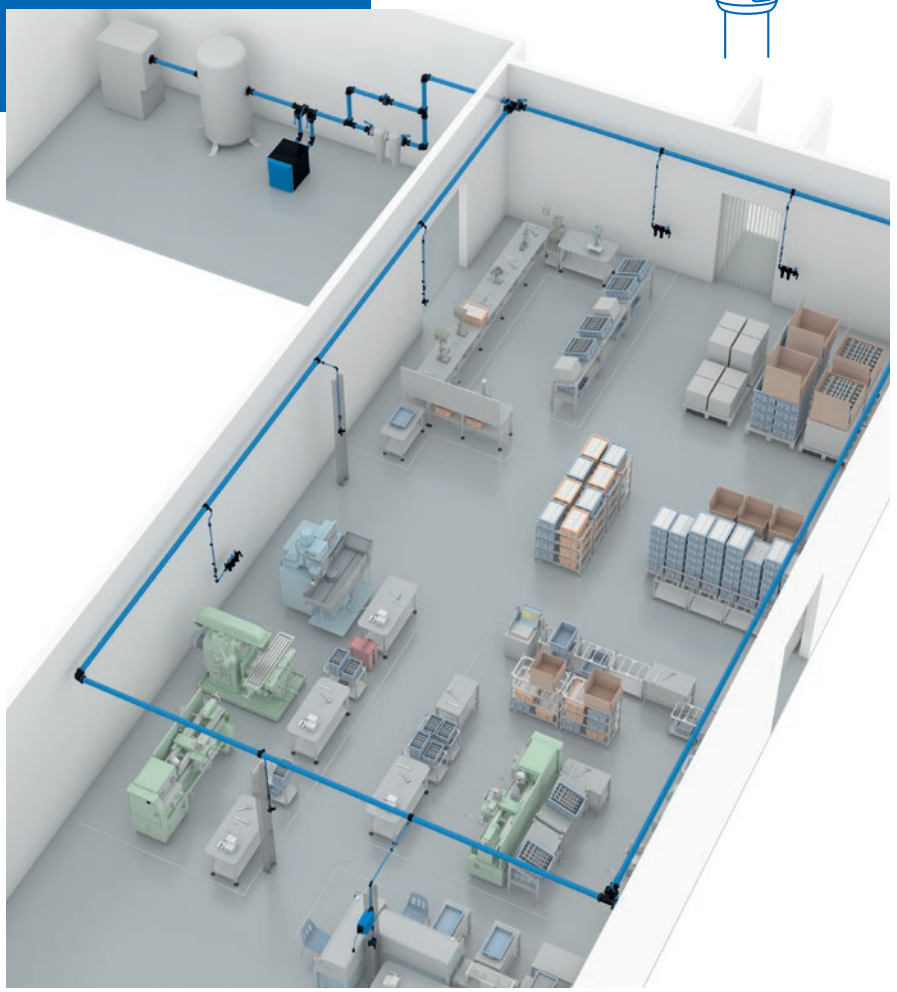
# What is a **compressed air system?**

A compressed air system moves energy throughout a piping network to power workstations and machinery.

**We recommend installing the Prevost 100% aluminum pipe system at a minimum height of 8.2 ft. from the floor.**

**Installing smaller diameter «downpipes» or «drops» off the main line to terminate at distribution points throughout the network. We recommend these points to be approximately 4 ft. from the floor. From these points various accessories can be attached (manifolds, safety couplings, filtration, hoses, etc.).**





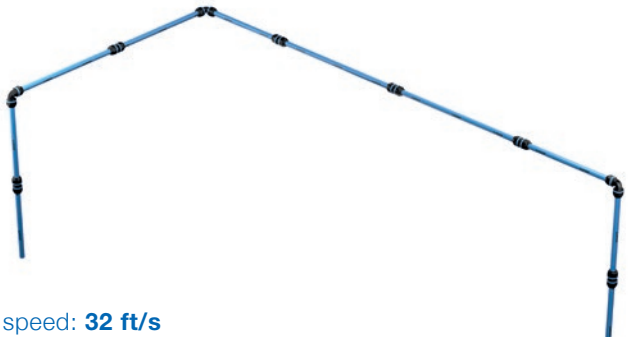
## **SIZING** A COMPRESSED AIR SYSTEM

When designing a system, consider the following:

- desired flow rate
- the length of the main line.

Use our tables to determine the appropriate pipe diameter with an operating pressure of **116 PSI** and the maximum pressure drop is 5%.

## **SIZE** AN OPEN SYSTEM



Pressure: **116 psi** | Max. pressure drop **5% (5.8 psi)** | Max. speed: **32 ft/s**

| Compressor* | | | | | Length of the main line | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Power | | Flow rate | | | 50 m | 100 m | 150 m | 300 m | 500 m | 750 m | 1 000 m | 1 300 m | 1 600 m |
| kW | HP | Nm3/h | Nl/min | Scfm | 164 ft | 328 ft | 492 ft | 984 ft | 1640 ft | 2460 ft | 3280 ft | 4265 ft | 5249 ft |
| 2,2 | 3 | 22 | 367 | 13 | 1/2" | 1/2" | 3/4" | 3/4" | 1" | 1" | 1" | 1" | 1 1/4" |
| 3 | 4 | 30 | 500 | 18 | 1/2" | 3/4" | 3/4" | 1" | 1" | 1" | 1 1/4" | 1 1/4" | 1 1/4" |
| 4 | 5,5 | 40 | 667 | 24 | 3/4" | 3/4" | 1" | 1" | 1 1/4" | 1 1/4" | 1 1/4" | 1 1/4" | 1 1/4" |
| 5,5 | 7,5 | 50 | 834 | 29 | 3/4" | 1" | 1" | 1" | 1 1/4" | 1 1/4" | 1 1/4" | 1 1/2" | 1 1/2" |
| 7,5 | 10 | 70 | 1 167 | 41 | 3/4" | 1" | 1" | 1 1/4" | 1 1/4" | 1 1/2" | 1 1/2" | 1 1/2' | 1 1/2' |
| 11 | 15 | 100 | 1 667 | 59 | 1" | 1 1/4" | 1 1/4" | 1 1/4" | 1 1/2" | 1 1/2' | 1 1/2' | 2" | 2" |
| 15 | 20 | 150 | 2 500 | 88 | 1 1/4" | 1 1/4" | 1 1/4" | 1 1/2" | 2" | 2" | 2" | 2" | 2 1/2" |
| 18 | 25 | 180 | 3 000 | 106 | 1 1/4" | 1 1/4" | 1 1/2" | 1 1/2' | 2" | 2" | 2" | 2 1/2" | 2 1/2" |
| 22 | 30 | 220 | 3 667 | 129 | 1 1/2" | 1 1/2" | 1 1/2' | 2" | 2" | 2" | 2 1/2" | 2 1/2" | 2 1/2" |
| 26 | 35 | 260 | 4 334 | 153 | 1 1/2' | 1 1/2' | 1 1/2' | 2" | 2" | 2" | 2 1/2" | 2 1/2" | 2 1/2" |
| 30 | 40 | 300 | 5 000 | 176 | 1 1/2' | 1 1/2' | 2" | 2" | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 3" |
| 37 | 50 | 370 | 6 167 | 218 | 2" | 2" | 2" | 2" | 2 1/2" | 2 1/2" | 2 1/2" | 3" | 3" |
| 45 | 60 | 450 | 7 500 | 265 | 2" | 2" | 2" | 2 1/2" | 2 1/2" | 3" | 3" | 3" | 3" |
| 55 | 75 | 550 | 9167 | 324 | 2 1/2" | 2 1/2" | 2 1/2" | 2 1/2" | 3" | 3" | 3" | 3" | 4" |
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| 90 | 120 | 900 | 15 000 | 529 | 3" | 3" | 3" | 3" | 3" | 4" | 4" | 4" | 4" |
| 110 | 150 | 1 100 | 18 334 | 647 | 3" | 3" | 3" | 3" | 4" | 4" | 4" | 4" | 6" |
| 130 | 175 | 1 300 | 21 667 | 765 | 3" | 3" | 3" | 3" | 4" | 4" | 4" | 6" | 6" |
| 160 | 215 | 1 600 | 26 667 | 941 | 4" | 4" | 4" | 4" | 4" | 6" | 6" | 6" | 6" |
| 200 | 270 | 2 000 | 33 334 | 1 176 | 4" | 4" | 4" | 4" | 6" | 6" | 6" | 6" | 6" |
| 250 | 340 | 2500 | 41667 | 1471 | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" |
| 300 | 405 | 3000 | 50000 | 1765 | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" |
| 350 | 475 | 3500 | 58334 | 2059 | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" |
| 400 | 540 | 4000 | 66667 | 2353 | 6" | 6" | 6" | 6" | 6" | 6" | 6" | 6" | |
| 450 | 600 | 4500 | 75000 | 2647 | 6" | 6" | 6" | 6" | 6" | 6" | 6" | | |
| 500 | 700 | 5000 | 83334 | 2941 | 6" | 6" | 6" | 6" | 6" | 6" | | | |
| 600 | 810 | 6000 | 100000 | 3529 | | | | | | | | | |
| 700 | 950 | 7000 | 116667 | 4118 | | | | | | | | | |
| 800 | 1080 | 8000 | 133334 | 4706 | | | | | | | | | |

* These values may vary slightly from compressor data

PPS tube diameter (inch)

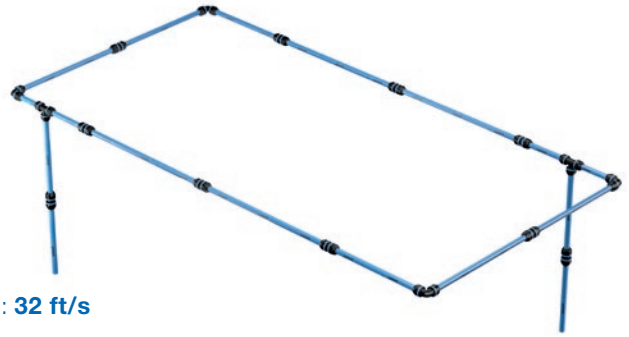
## THERMAL **EXPANSION**

As temperatures fluctuate up or down, aluminum naturally expands and contracts. To compensate, we recommend installing equipment along the line to absorb the movement.

- **Use a flexible hose** for small diameters
- **Install expansion kits** to accommodate large diameters.

An expansion hose or joints are necessary when a straight line exceeds 164 feet or more. You can also use flexible hoses to easily change direction of the air flow (angles) or avoid obstacles in the facility (pillars, beams, etc.).

## **SIZE** A CLOSED SYSTEM



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* These values may vary slightly from compressor data

PPS tube diameter (inch)

**EXPANSION COEFFICIENT:** 13.7X10$^{-6}$ in per FEET and per DEGREE °F.

**EXPANSION** IS CALCULATED AS FOLLOWS:

**C** = COEFFICIENT OF EXPANSION (13.7X10$^{-6}$ IN)

**L** = STRAIGHT LINE LENGTH (ft.)

**ΔT°** = DIFFERENCE BETWEEN MAXIMUM AND MINIMUM ROOM TEMPERATURE IN °F.

**DL** = OVERALL EXPANSION (in)

IN OTHER WORDS: **DL** = **C** x **L** x **ΔT°**

**EXAMPLE:**

A 65 feet line installed with ø1 1/2" piping, at an ambient temperature of 59°F, can be subjected to a maximum temperature of 104°F

→, **i.e. a difference of 77°F.**

**DL:** 13.7x10$^{-6}$ (in) x 65 (ft.) **x 25** (104 - 59) **= 0.47 in**

# *PREVOST PIPING SYSTEM*
# The **100% aluminum concept**

**The *PREVOST PIPING SYSTEM's* pipes and fittings are 100% aluminum, compact, lightweight and have a high degree of mechanical strength.**

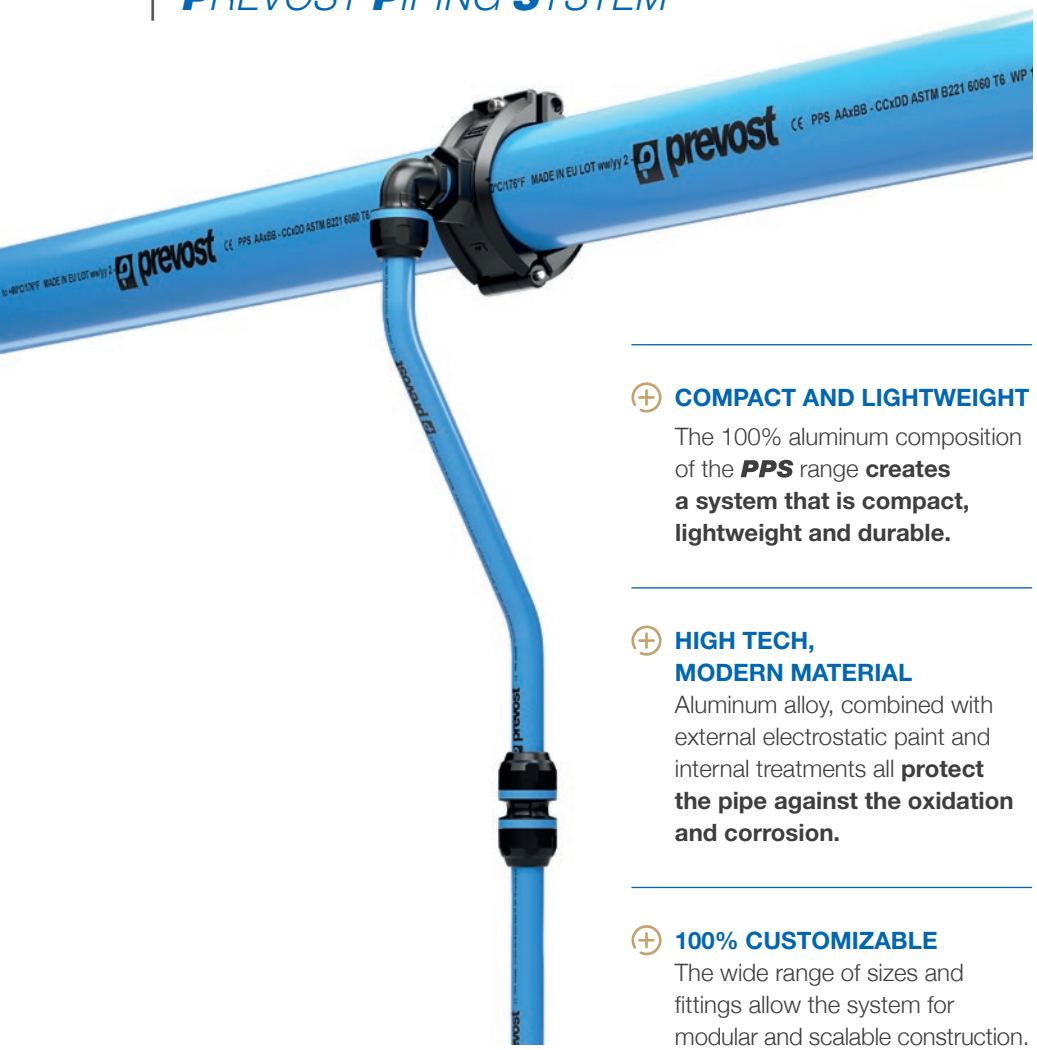
**The system can be installed easily and quickly for immediate pressurization.**

The *PREVOST PIPING SYSTEM* range ensures:

- clean, high quality air at all times
- a leak free system
- an optimized flow rate
- an operating pressure range: **from - 14.21 psi to + 232psi**
- a temperature range: **from - 4°F to + 176°F**

Workstations are well supplied, accessible and ergonomically designed. The product is durable and can be easily modified.

## **BENEFITS** OF A *PREVOST PIPING SYSTEM*




### COMPACT AND LIGHTWEIGHT

The 100% aluminum composition of the ***PPS*** range **creates a system that is compact, lightweight and durable.**

### HIGH TECH, MODERN MATERIAL

Aluminum alloy, combined with external electrostatic paint and internal treatments all **protect the pipe against the oxidation and corrosion.**

### 100% CUSTOMIZABLE

The wide range of sizes and fittings allow the system for modular and scalable construction.

### EASY AND QUICK TO ASSEMBLE

Simply insert the chamfered pipe into the ***PPS*** fitting then **tighten the nut** or M8 bolts to the recommended torque setting.

### LEAK FREE WITH MINIMAL PRESSURE LOSS

The **"*PPS Grip Concept*"**, creates a secure, **leak free connection**. The smooth internal surface generates a laminar flow, a low friction coefficient and a maximum flow diameter which are all factors **to reduce pressure loss.**

### COMPATIBLE WITH COMPRESSOR OILS

Aluminum and viton seals are compatible with compressor lubricants.

### TOUGH MATERIAL

Aluminum guarantees long term performance:

- **mechanical strength**
- **pressure resistance**
- **shock absorbent**

# THE **BENEFITS** OF ALUMINUM COMPARED TO **OTHER MATERIALS**

| | Aluminum - PPS | Steel | Galvanized | Stainless steel |
|---|---|---|---|---|
| LIGHTWEIGHT | ★★★ | ★ | ★ | ★ |
| QUICK ASSEMBLY | ★★★ | ★ | ★ | ★★ |
| PAINTED PIPE | ★★★ | ★ | ★ | ★ |
| COMPRESSED AIR DEDICATED MATERIAL | ★★★ | ★ | ★ | ★ |
| CORROSION PROTECTION | ★★★ | ★ | ★ | ★★★ |
| MINIMAL PRESSURE LOSS & SMOOTH SURFACE | ★★★ | ★ | ★ | ★★ |
| LEAK PROTECTION | ★★★ | ★ | ★ | ★★ |
| CLEAN AIR CERTIFICATION | ★★★ | ★ | ★ | ★★ |
| HIGH FLOW RATE | ★★★ | ★ | ★ | ★★ |

# The *PREVOST PIPING SYSTEM* **range**

## **CERTIFICATIONS** BY INDUSTRY APPLICATION

### Industry standards

TÜV SÜD ISO 9001

* Only for product made in Italy

ASME QPS CERTIFICATE HOLDER

### Pressurized equipment

ASME B31.1

ASME B31.3

DIRECTIVE 2014/68/UE

TECHNICAL STANDARDS & SAFETY AUTHORITY TSSA

### Safety and protection

IAL 723

EN 13501-1

ATEX

UV RESISTANT

### Fluid properties

OIL FREE

SILICON FREE

NSF

H1

ISO 8573-1 CLASS 0.0.0

QUALICOAT

### Environmental

DIRECTIVE REACH

DIRECTIVE RoHS



**FIND OUT ABOUT** OUR DOCUMENTATION

## *PREVOST PIPING SYSTEM*
## 100% ALUMINUM PIPES


- **ALUMINUM**
- **MINIMAL PRESSURE LOSS** laminar flow from smooth internal surface
- **UV AND HEAT RESISTANT** low coefficient of expansion
- **ISO MARKING AND COLOR** all diameters are available for **RAL 5012 (blue)** and **RAL 7001 (grey)** pipes. 3/4", 1" and 2" diameters are also available for **RAL 6029 (green)**.
- **NO FIRE HAZARD** system does not require a fire permit
- **SIMPLE TOOLS** easy to cut and chamfer for simplified installation and maintenance
- **LIGHTWEIGHT**
- **COST-EFFECTIVE**

### TECHNICAL CHARACTERISTICS OF *PPS PIPE*

**Material:**
Extruded aluminum.
Alloy EN AW 6063 T6 UNI-EN 573-3

**Treatment:**
Internal/external treatment
(RoHS compliant)

**Coating:**
Electrostatic paint

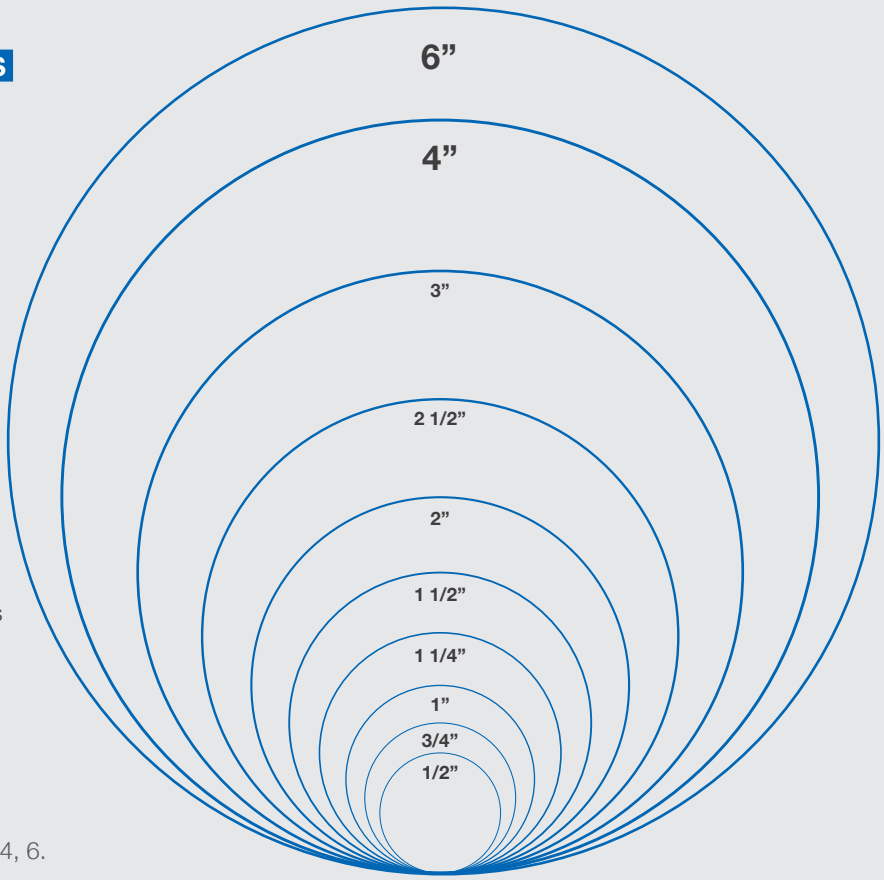
**Extrusion quality:**
Calibrated without welding

**Compatible fluids:**
Compressed air, vacuum, neutral gases

**Pipe lengths:**
10' or 18'

**Density:** 170 lb/ft³

**Pipe outside diameter:**
Ø 1/2, 3/4, 1, 1 1/4, 1 1/2, 2, 2 1/2, 3, 4, 6.



# *PREVOST PIPING SYSTEM*
# 100% aluminum fittings

**Prevost designs and manufactures compact, high-performance fittings.**


**IDENTIFICATION**
Logo etched on each fitting


**PRESSURE**
Maximum operating pressure (bar/psi)


**DIAMETER**
Pipe outside diameter (mm/in)

**POSITIONING**
arrow indicates mounting direction

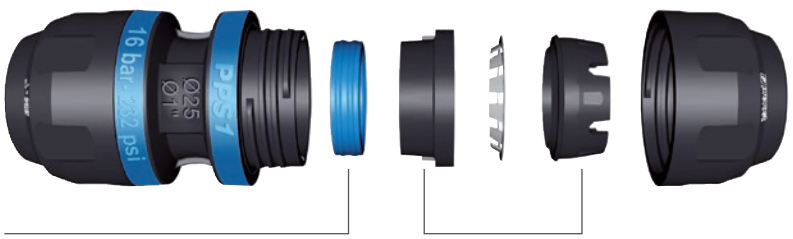

**Manufacturing date**

## THE *PPS* GRIP CONCEPT

The tube's retention in the fitting is ensured by a stainless steel ring whose teeth penetrate the aluminum.

This is what we call the ***PPS* Grip Concept** which is unique in the market.

The double-lobed, lubricated seal guarantees a secure connection and provides optimum results even in the harshest working conditions.




**LEAK-TIGHT CONNECTION**

THE **INTERNAL PARTS** REMAIN ATTACHED TO THE BODY AFTER ASSEMBLY

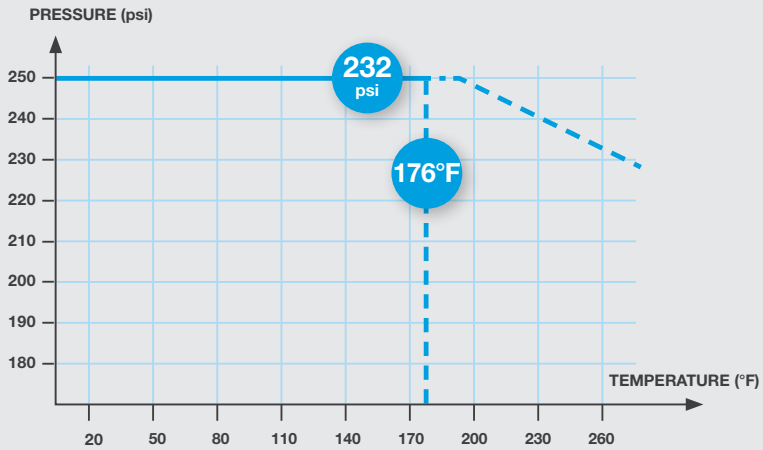
# TECHNICAL SPECIFICATIONS OF FITTINGS

**Body and nut:**
100% aluminum EN AB 46100

***PPS* Grip Concept:**
stainless ring

**Tapping flange**

## PRESSURE/TEMPERATURE GRAPH





**Available diameters**

| ∅ in | 1/2” | 3/4” | 1” | 1 1/4” | 1 1/2” | 2” | 2 1/2” | 3” | 4” | 6” |
|---|---|---|---|---|---|---|---|---|---|---|

# **AVAILABLE** FITTING OPTIONS

## STRAIGHT FITTINGS

### Ø 1/2 to 3”


Simple union


Reducer


Pipe cap


Straight male threaded fitting


Straight female threaded fitting


Expansion kit


Sliding union

### Ø 4 to 6”


Simple union


Reducer


Pipe cap


Straight female threaded fitting


Sliding union 160

## ELBOW FITTINGS

### Ø 1/2 to 3”


90° elbow


90° elbow threaded male


45° elbow

### Ø 4 to 6”


90° elbow

## T-PIECE FITTINGS

### Ø 1/2 to 3”


Equal T-piece


Reduced T-piece


Female threaded T-piece

### Ø 4 to 6”


Equal T-piece

Female threaded T-piece

## CROSS FITTINGS

### Ø 1/2 to 1 1/2”


Cross connector

### Ø 2” to 6”


Cross connector

## TAPPING FLANGE

A tapping flange connects a down pipe (drop) to workstations. Its purpose is to replace a traditional **"gooseneck"** configuration and reduce condensates in the line.

Flanges transport clean air from the side of the pipe to workstations. Any remaining condensates which remain at the bottom of the pipe are then evacuated via drains located throughout the system.

Tapping flanges can quickly integrate into existing systems, no disassembly required.

The flange is **compact** and equipped with an anti-rotation system which securely locks the fitting in place.

### TAPPING FLANGES BENT

Ø 3/4 to 3”

Ø 4”

### TAPPING FLANGES FEMALE THREADED BENT

Ø 3/4 to 3”

### STRAIGHT

Ø 3/4 to 6”

### TAPPING FLANGES FOR DRILLING UNDER PRESSURE

Ø 3/4 to 4”

1”

1/2”

### VALVES

Ø 1/2 to 2”

Pipe/pipe

Female threaded/pipe

Threaded male/pipe

Ø 2 1/2 to 3”

Pipe/pipe
Aluminum body

# Compact Connection Concept - *CC concept*

**The CC Concept is the solution for**

- Directly connecting two fittings
- Optimizing space
- Specifically designed for «compressor rooms» or «confined areas»

## STRAIGHTFORWARD, FAST CONNECTION METHODS

## CHARACTERISTICS AND BENEFITS

### 1 CONNECTION WITH A FLANGE

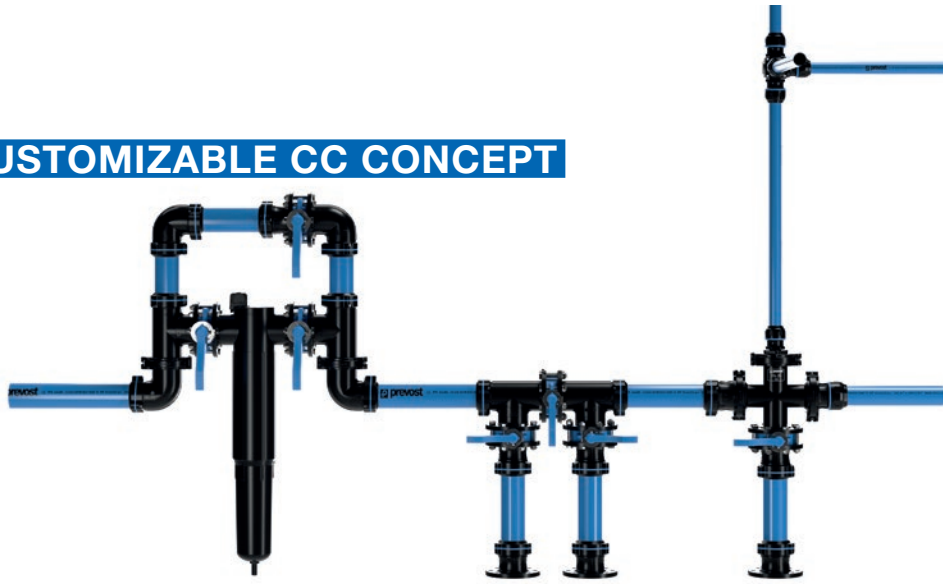
- General-purpose flange , drilled to suit ANSI and AMSI standards
- Ideal for connecting a system to a compressor, a dryer or to an existing system through the standard flange

### 2 CONNECTION WITH A CLAMP

- Quickly connect two fittings with a clamp instead of cutting the pipe or installing a flange
- Design allows for easy installation and elimination of assembly errors

### 3 CONNECTION VALVE

## THE FULLY CUSTOMIZABLE CC CONCEPT



# COMPACT CONNECTION FITTINGS - *CC CONCEPT*

## UNIONS

Connector union with 2 different diameters

Connector union

## ELBOWS

Equal 90° elbow connector

45° elbow

## T-PIECES

1-connector T-piece with 2 different diameters

2-connector T-piece

3-connector T-piece

## CROSS FITTING

4-connector cross-piece

## CONNECTING PARTS

Clamp

Flange

## ALUMINUM VALVES

Ø 2 1/2 - 3 - 4”

1-connector valve

2-connector valve

## ACCESSORIES

Female threaded body

Plug

O-ring seal

Male threaded body

Valve Ø 6”

Bolts/nuts

# **Safety** and energy savings

## **REMOTE CONTROLLED**
## PNEUMATIC SAFETY VALVE

100% ALU

- **Compact and lightweight**
- **Easy to operate - even at ceiling height**
- **Quick to install**
- **100% aluminum (Ø 1 1/2 to 4”)**
- **Fully pneumatic**
- **Available in Ø 1/2, 3/4, 1, 1 1/4, 1 1/2 - 2 - 2 1/2 - 3 - 4”**

1/2”-3/4”-1”

VALVES
Ø 1 1/2 to 3”

CC CONCEPT
Ø 4”

Every compressed air installation, replacement, repair or retrofit should include at least one shut off valve.

This shut off valve can quickly isolate certain areas of the system in the event of emergency or if maintenance is necessary.
By isolating only certain areas of the system, overall productivity will not be lost.

Push button

Key switch

## VALVE REMOTE **CONTROL**

Several options to control the valve are available:

- **PUSH BUTTON**
  Immediately stops air flow with a push of a button
- **KEY SWITCH**
  Provides limited access to the valve control
- **PROGRAMMABLE CONTROL MODULE**

A programmable control module turns the system on and off at designated days or times. Automatically shutting off a system during down time will reduce energy waste and drops in pressure when the system is not in use.


Programmable control module

# Guidelines for **installing a compressed air system**

Ideally, the compressor **room** should be:

- **spacious**
- **ventilated & insulated**
- **separate from the rest of the workshop**

**Connect** the air compressor to the ***PPS*** system with a **hose** to eliminate vibrations and allow for maintenance (ref. LAM and LEM).

**Install bypasses:**

- **between each machine**
- **between tanks**
- **between filters**

Preferably, the **main** line should form a **loop or ring**. For safety reasons, we recommend to install the primary air lines at a minimum height of **8.2 ft** from the ground.

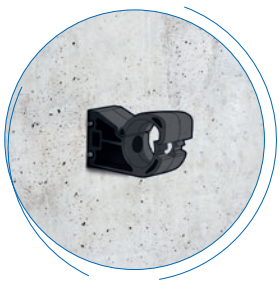
The diameter of the main line should be **large enough** to avoid drops in **pressure** and **to accommodate future expansion**.

**The main line:**

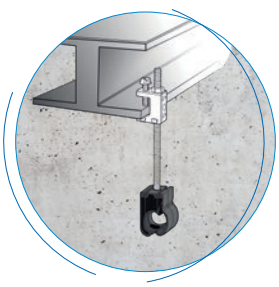
- should be installed with a **1% slope** to gravity feed condensates to low points that terminate in drains.
- should be securely mounted with a **sufficient number of sliding clamps** that will allow the pipe to expand and contract as the temperature fluctuates (ref. PPS CI).

**Remove residual condensates** from the main line **with down pipes** (drops) that terminate in an automatic drain system.

OFFSET FROM THE WALL



DIRECTLY TO THE WALL



SUSPENDED

SUSPENDED BY A CABLE

FASTENED TO IPN/HEA BEAM WITH PLATES

## **MOUNTING** THE SYSTEM

The mounting style is dictated by the layout of the facility.

Chose the method that is most structurally sound and aligned with the environment.

Always abide by the recommended pipe support distances between each clamp: the **maximum spacing is 9.8 feet.**

# Supplemental for point of use

## A COMPLETE, UNIFIED SYSTEM

**Prevost offers a full range of pneumatic tools and accessories to accommodate every compressed air system.**

### SAFETY WALL MANIFOLDS

Installed at the bottom of a downpipe (drop) to quickly connect your equipment.

**Air inlet:** 1/2" NPT or 3/4" NPT

**Multiple quick coupling profiles available**

**Material:** aluminum alloy

**Robust 4-point wall attachment**

**Fitted with a manual drain**

**Air outlet:** manifolds available with 1, 2, 4, 6, 8 & 10 single push safety couplings

**Outlets equipped with anti-hose whip safety couplings** which comply with ISO 4414 standard for user protection

**Coupling body swivels** to ergonomically position the button

**Quick, reliable connection and disconnection**


### HOSE REELS

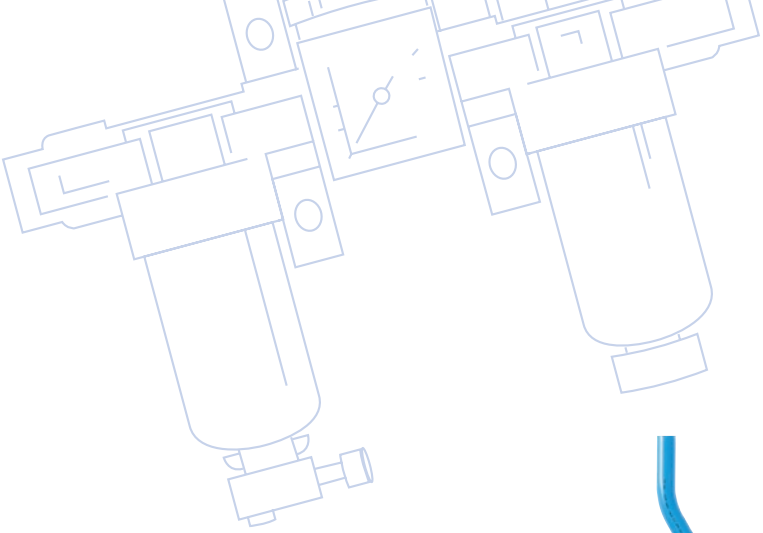
**The automatic hose reel** is an essential piece of equipment for an organized workshop.

The retractable hoses will **save time, increase efficiency** and enhance safety.

All automatic hose reels comply with the Machine Directive 2006/42/EC.

The following standards also apply:

- **EN ISO 12100:** 2010-11-01 "Safety of machinery - General principles for design - Risk assessment and risk reduction"
- **EN 13857:** 2008 "Safety of machinery: safety distance to prevent upper and lower limbs from reaching hazardous areas"



## BENT PIPES

Use a bent pipe (available in pipe sizes 1/2, 3/4, 1") to compensate for equipment that does not properly align or to overcome obstacles.

## AIR TREATMENT UNITS

Protect pneumatic tools and equipment by purifying the compressed air.

**Three treatment levels are recommended:**

- **Cyclonic separator:** removes the largest solid and water particulates from the system [ref. SPC]
- **25 µm standard filtration :** eliminates contaminants present (particulates, water, etc.) in an air system. Units are equipped with a drain to remove pollutants [ref. ALTO]
- **Submicron filtration (optimum quality):** removes the smallest residual contaminants (solid, liquid and oil aerosols) from compressed air with 99.99% efficiency rates. Provides the highest level of air quality [ref. MICRO AIR]

## MOUNT ACCESSORIES ON IPN/HEA BEAMS WITH PLATES

Create **ergonomic, secure** workstations.

The metal plates are designed to attach equipment on **IPN/HEA** beams:

- **In complete safety**
- **Without drilling**
- **Seamless**
- **Conforms with the current industry requirements.**

# PPS SQ

**Prevost,** as a **compressed air specialist**, now offers a complete solution from the compressor room to the point of use.

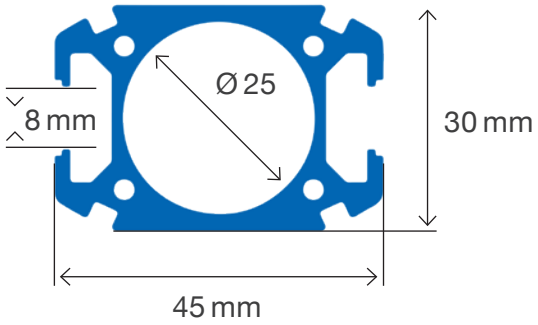
The ***PPS SQ*** allows the distribution of compressed air energy directly at the workstation with an ergonomic, compact and aesthetic designed pipe system.

# RECTANGULAR PROFILE AND
## ADAPTED FOR YOUR WORKSTATION

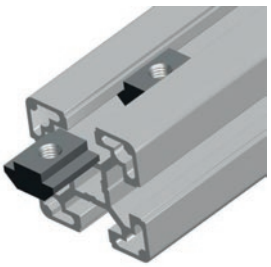
Color: **blue or grey**
Lengths: **1 m or 2 m (3 ft or 6 ft)**
Rectangular section size: **30 x 45 mm**
Internal diameter: **Ø 25 mm**

- *Part Numbers PPS BSQ2503*
- *Part Numbers PPS BSQ2506*

- *Part Numbers PPS GSQ2506*
- *Part Numbers PPS GSQ2523*




The design of the ***PPS SQ*** profile section includes a channel that allows the use of accessories (nuts, etc.) **compatible with the most common workstation profiles on the market.**



It is the essential complement to the ***P****REVOST* ***P****IPING* ***S****YSTEM* air systems that installs at the bottom of your existing drops to ensure the delivery of compressed air to the point of end use:

- Individual workstations
- Automatic machine lines

## THE ACCESSORIES

- **Fixing clamp**
  *Part Numbers*
  *PPS SQCI25UNC*

- **Fixing clamp**
  *Part Numbers*
  *PPS SQCI25*

* Only for product made in Italy

# A **COMPLETE RANGE OF ACCESSORIES**
# TO CREATE YOUR IDEAL ENVIRONMENT

## THE CONNECTING PIECES FOR CONNECTING *PPS SQ* PROFILE BARS

- Union fittings
- Connection plates
- Connection fittings


- **Cross connection fitting**
  *Part Numbers PPS1 CR207*


- **Connection fitting**
  *Part Numbers JN25204*


- **Tapping flange**
  *Part Numbers PPS SQBFT203*

## ⊕ THE **BENEFITS**

- 100% aluminum
- Ergonomics of workstations
- Space saving
- Modularity
- Quality & Safety
- Leak free guaranteed
- User comfort

## THE **CHARACTERISTICS**

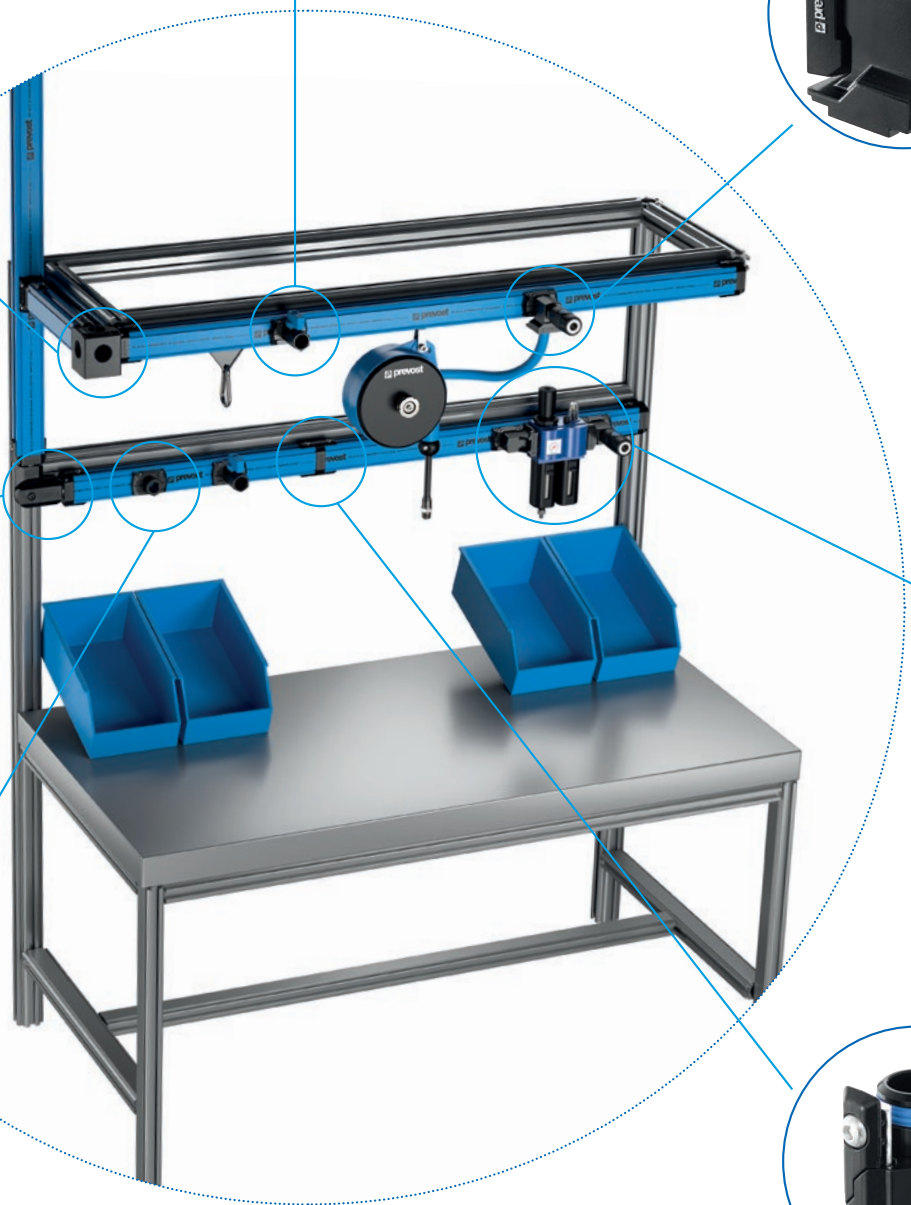
- Pressure : -14 to 232 psi
- Temperature : -4°F to 176°F

## THE ACCESSORIES

- **Sliding carabiner**
  *Part Numbers PPS SQSH8*

- **Tapping flange with valve**
  *Part Numbers PPS SQBFV203*

- **Threaded tapping flange**
  *Part Numbers PPS SQO9C25203*



- **Connection fitting**
  *Part Numbers PPS SQFRL25203*

- **Union fitting**
  *Part Numbers PPS SQUN25*

# *PPS* SYSTEM **INSTALLATION EQUIPMENT**

PPS

TIGHTENING WRENCHES

PPS

SINGLE-TOOTH ADJUSTABLE WRENCH

PPS
PPS SQ

TORQUE WRENCH

PPS
PPS SQ

HEXAGON SOCKET

PPS
PPS SQ

PRESSURE DRILLING TOOL

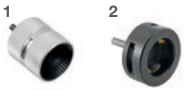
PPS

HOLE SAW FOR PIPE DRILLING

PPS

HAND TOOLS FOR CHAMFERING AND DEBURRING

PPS




CHAMFERING TOOLS FOR DRILLS

PPS


INSERTION GUIDE FOR PPS FITTINGS

PPS
PPS SQ

ASSEMBLY GEL

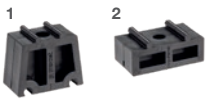
PPS

PIPE CUTTER

PPS


MOUNTING CLAMPS

PPS




SHIMS FOR MOUNTING CLAMPS

PPS


MOUNTING BRACKETS FOR VALVES

PPS

PIPE INSTALLATION TOOL KIT

PPS

TIGHTENING WRENCH KITS

PPS

CHAMFERING TOOL KITS

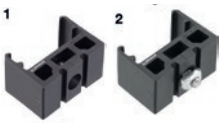
PPS

DRILLING TOOL KITS

PPS SQ

HAMMER NUT

INTERNAL CHAMFERING TOOL




PIPE CLAMP

SLIDING HANGER

# INSTALLING A COMPRESSED AIR SYSTEM

**FIND OUT ABOUT OUR**
VIDEOS

## 1 CUT

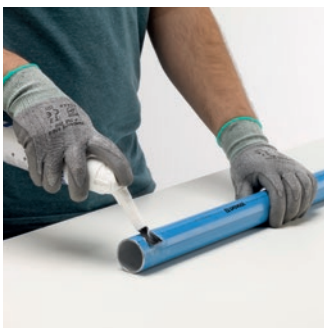
The pipe should be cut perpendicular to the pipe axis.
[ref. PPS CTU]

## 2 CHAMFER

Chamfer the pipe on the outside to facilitate insertion and avoid damaging the seal.
Internal deburring will remove any cutting residue.
[ref. PPS CH]

## 3 MARK

Make a mark on the pipe to check its position in the fitting before tightening (use the mark on the fitting or on the tightening wrench).



## 4 LUBRICATE

Assembly gel is recommended to facilitate inserting the pipe into the fitting.
[ref. PPS AL]

## 5 ASSEMBLE

Slightly unscrew the nut, then push the pipe rotating it slightly to achieve the recommended insertion length.

## 6 TIGHTEN

Tighten the nut by hand and then tighten it as recommended.
[ref. PPS CLE]

# Prevost services



Determining your compressed air needs can be complicated, that is why we are here to help.

If you are planning a complex installation or expanding on an existing system, our in house **Technical Design team** is here to support you from start to finish.

Our team will provide a complete bill of material, quote, design and consulting services throughout the process.

**Prevost** provides customized **training** classes based on your business needs that cover a variety of compressed air energy topics.

Scan the QR code below to view our ***Prevost Piping System*** videos:

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**PPS DOC24US**