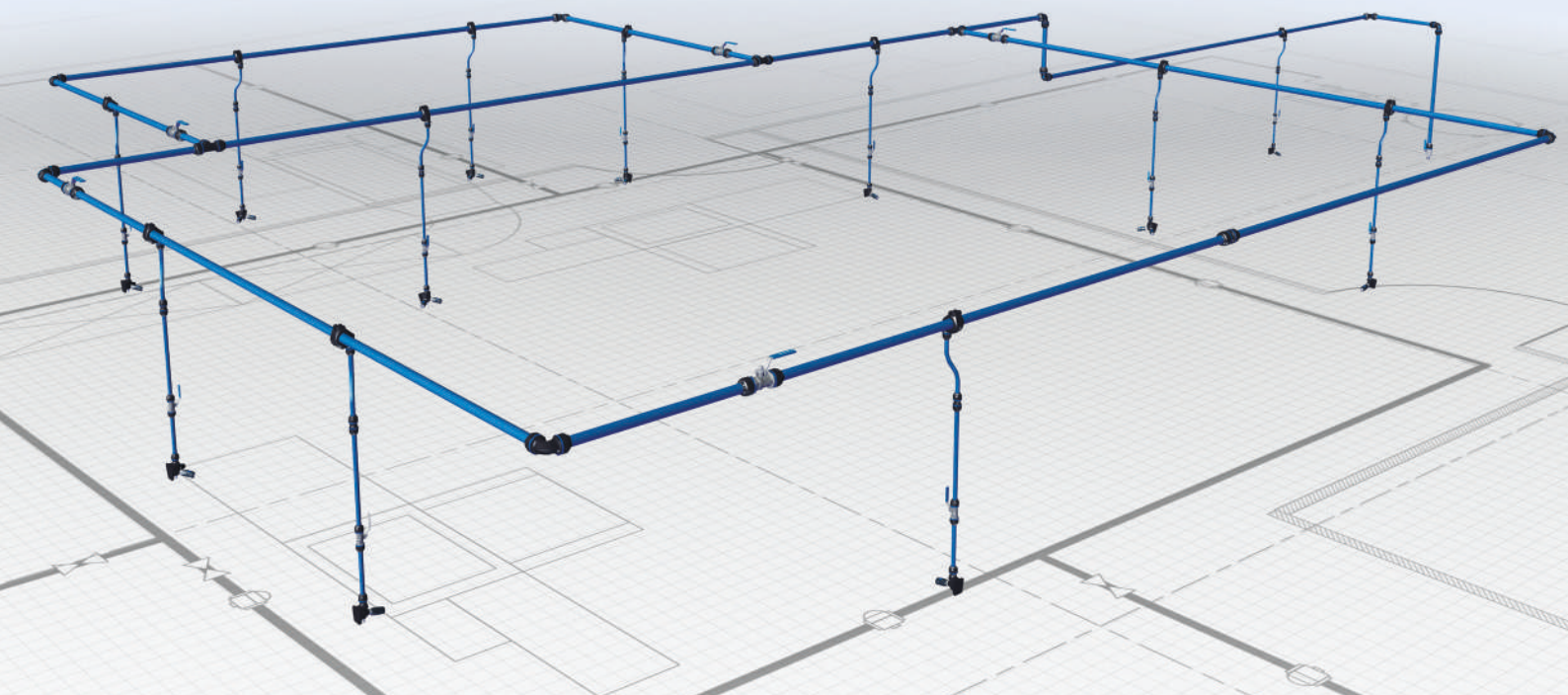




CONNECTED TO INNOVATION

*The full aluminium concept*



## **P**REVOST **P**IPING **S**YSTEM

COMPRESSED AIR NETWORK

# PREVOST : a manufacturer at the heart of your networks, connected to innovation

For more than 40 years, PREVOST has been successfully **designing, manufacturing and marketing** a comprehensive **range of products** for **compressed air and fluid distribution networks, including safety fittings, filtration solutions and pneumatic equipment.**

Prevost has become the preferred partner for companies using pneumatic and hydraulic power.

Every day, our teams work to expand the horizon for our customers :

- through innovation and constantly seeking areas for improvement,
- through the quality of our products, advice and services.

## ➔ CONNECTED TO INNOVATION

**An R&D strategy for patented products:** PREVOST offers products that provide increasingly optimised performance and enhanced safety, and comply with all applicable standards.

**Making the best use of our products:** our solutions enable you to optimise yield and improve your return on investment.

**European manufacture:** our new **PREVOST PIPING SYSTEM** networks range, made entirely from aluminium, is designed and produced in Europe.

## ➔ CONNECTED TO QUALITY

Prevost is certified according to :



ISO 9001



**TÜV** : certification of compliance with the Pressure Equipment Directive. PED 2014/68/EU

Our products comply with the requirements of:



Quality of pipe coating



the **REACH** standard: Registration, Evaluation, Authorisation and restriction of Chemicals

- **Standard for fire rating of construction products** and components (EN 13501-1)



## ➔ CONNECTED TO YOUR BUSINESS REQUIREMENTS

We comply with the requirements **of all industries, specialised distributors, decision-makers, architecture firms, design offices and installers.**

## ➔ CONNECTED TO YOUR NEEDS

**PREVOST** possesses a technical unit dedicated to your designing your network.

▶ **DIAGRAMS** and **QUOTATION**  
for your planned facility **ON REQUEST**

**A web application is accessible via smartphones and tablets.**

**First-class logistics:** our team manages logistical flows so as to ship products on the same day as you place your order.

**Our training centre** enables you to reinforce your knowledge of our products and fluid mechanics.

**Our dynamic and responsive sales force** is present in more than 80 countries.

**Our after-sales department is at your service**



# What is a compressed air network?

A compressed air network involves **linking a source of compressed air, i.e. one or more compressors, to a designated distribution points.**

The structure of PREVOST networks is made of aluminium pipes. These are fixed at a **minimum height of 2.5 m** from the floor and form the primary loop of the network.

From this loop, pipe with a smaller diameter, known as “**drops**” feed off. Their ends are approximately **1.2 m above the floor**. These are **compressed air distribution points** where equipment such as safety fittings, filters, hoses, etc., can be attached.

*\* The warranty is limited to the replacement value of defective products. The products must be used as instructed in the technical manuals (temperature, ambience, pressure, etc.)*



## ➔ NETWORK DESIGN

To design a network, **the pipe diameter must be calculated by taking the desired flow rate and the length of the main pipe.** The data below is calculated for operating pressure of 8 bar with 5% pressure loss.

COMPRESSOR*					LENGTH OF MAINLINE									
POWER		FLOW RATE			50 m	100 m	150 m	300 m	500 m	750 m	1000 m	1300 m	1600 m	
kW	CV	Nm <sup>3</sup> /h	NI/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	16	16	20	20	25	25	25	25	32	
3	4	30	500	18	16	20	20	25	25	25	32	32	32	
4	5	40	668	24	20	20	20	25	25	32	32	32	32	
5,5	7,5	50	833	29	20	20	25	25	32	32	32	32	40	
7,5	10	70	1167	41	20	25	25	32	32	32	40	40	40	
11	15	100	1667	59	25	25	32	32	40	40	40	50	50	
15	20	150	2500	88	25	32	32	40	40	50	50	50	50	
18	25	180	3000	106	32	32	40	40	50	50	50	63	63	
22	30	220	3674	130	32	40	40	50	50	50	63	63	63	
26	35	260	4167	147	32	40	40	50	50	63	63	63	63	
30	40	350	5833	206	40	40	50	50	63	63	63	63	80	
37	50	370	6179	218	40	40	50	50	63	63	63	63	80	
45	60	500	8350	294	50	50	50	63	63	80	80	80	80	
55	75	550	9185	324	50	50	50	63	63	80	80	80	80	
75	100	750	12500	441	63	63	63	63	80	80	80			
90	125	1000	16667	589	63	63	63	80	80					
110	150	1100	18370	649	63	63	63	80	80					
132	175	1500	25000	883	63	80	80	80						
160	215	1750	29167	1030	63	80	80	80						
200	270	2000	33333	1177	80	80	80							

\* These values may vary slightly from compressor data

## ➔ EXPANSION OF MATERIALS

As the temperature rises and falls, aluminium is subject **to expansion and contraction.** To compensate for these variables, **it is recommended that the systems be designed to allow this movement.**

For small diameters, a hose will play this role. For larger diameters, expansion kits will perform the function. They also make it possible to **change direction** (corners) and **divert around obstacles** in the workshop (pillars, beams, etc.).

Expansion coefficient: 0.024 mm per metre and per degree Celsius.

Expansion is calculated as follows:

**C** = Expansion coefficient

**L** = Length of the straight stretch (between two fixed points)

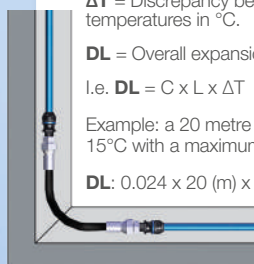
**ΔT** = Discrepancy between the maximum and minimum ambient temperatures in °C.

**DL** = Overall expansion

i.e. **DL** = C x L x ΔT

Example: a 20 metre line using 40 mm piping, at an ambient temperature of 15°C with a maximum temperature of 40°C, i.e. a difference of 25°C

**DL**: 0.024 x 20 (m) x 25°C (40 °C - 15°C) = 12 mm



# PREVOST PIPING SYSTEM

## The 100% aluminium concept

The **PREVOST PIPING SYSTEM** compressed air network range is compact, **lightweight and corrosive resistant with all aluminum fittings.**

The system is **quick, easy to install** and can be pressurised immediately.

The **PREVOST PIPING SYSTEM** range ensures:

- a **clean** and **high quality** air supply
- a **leak free network** with an **optimised flow rate**
- a max operating pressure of 16 bar.

The network will provide a **long service life** and can easily be configured so each workstation is well supplied, **accessible and organised.**

### Advantages of the new **PREVOST PIPING SYSTEM** range

#### ➔ COMPACT AND LIGHTWEIGHT

The upgraded design of the new **PPS1** aluminium fitting is more **compact, lighter and vibration resistant.**

#### ➔ HIGH-TECH MATERIAL

The aluminium alloy used during construction combined with epoxy paint on the outside and a treatment on the inside, **protects the pipe against any risks of oxidation and corrosion.**

#### ➔ IMPACT STRENGTH

Aluminium is tough to withstand **pressure and impacts.**

#### ➔ QUICK AND EASY TO ASSEMBLE

Simply insert the pipe into the fitting, **and then tighten the PPS1 fitting.**

#### ➔ FULLY ADAPTABLE

The **PPS1** fitting ensures that facilities are modular and scalable.

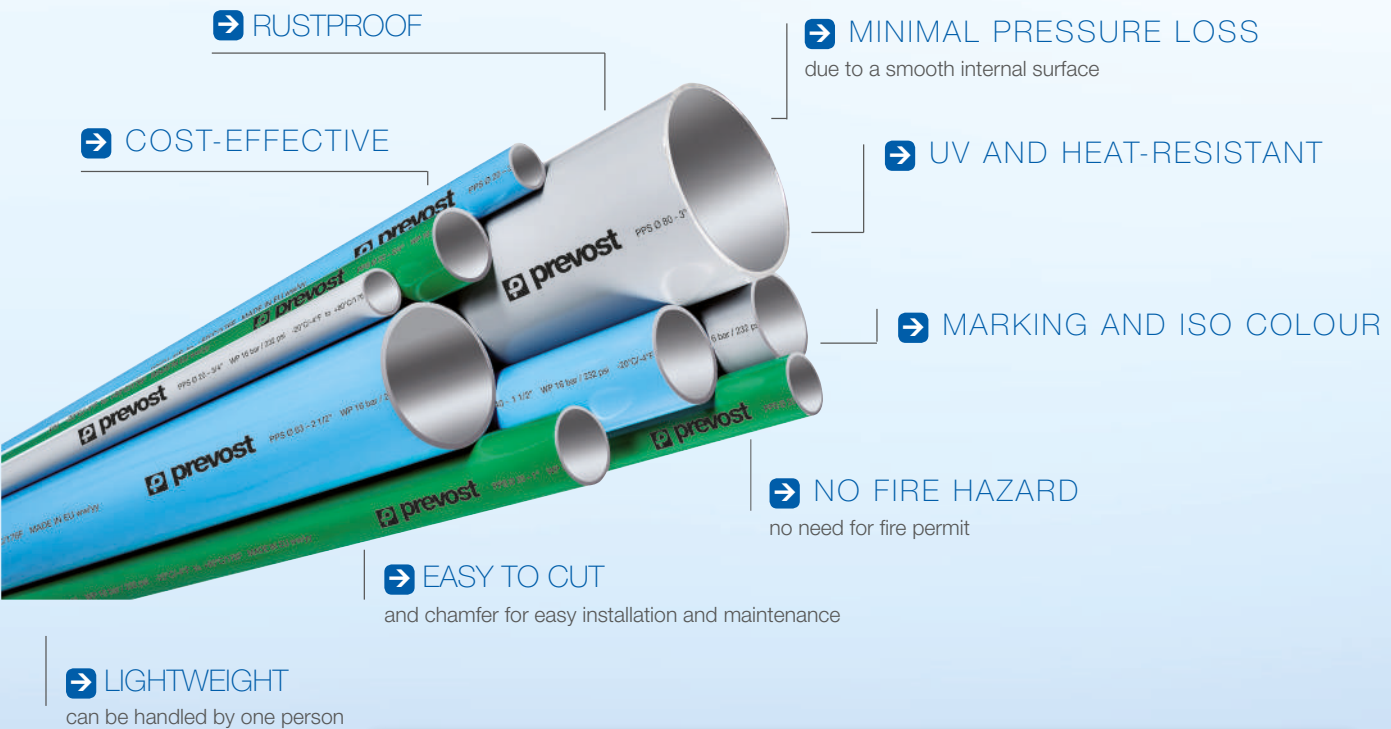
#### ➔ COMPATIBILITY WITH COMPRESSOR

#### ➔ LEAK FREE WITH MINIMAL PRESSURE LOSS

The « **PPS Grip Concept** » guarantees a **flawless connection** and zero leaks. **Flow rates** are **optimised** thanks to a perfectly smooth internal pipe surface, a low friction coefficient and a large internal diameter.

# PREVOST PIPING SYSTEM

## 100% aluminium pipes



### PIPE PROPERTIES

- **Material:** extruded aluminium alloy: EN AW 6060 T6 UNI-EN 573-3
- **Treatment:** interior and exterior (compliant with RoHS standard)
- **Coating:** electrostatic paint
- **Extrusion quality:** calibrated, seamless
- **Compatible fluids:** compressed air, vacuum, neutral gases
- **Pipe lengths:** 4 or 6 metres
- **Density:** 2.7 kg/dm<sup>3</sup>
- **Pipe external diameter:** Ø 16, 20, 25, 32, 40, 50, 63, 80 mm

Prevost offers a wide range of 100% aluminium pipes for compressed air, vacuum and nitrogen.

Blue compressed air pipes, RAL 5012		Grey compressed air and vacuum pipes, RAL 7001		Green nitrogen pipes, RAL 6029	
Ø 16	PPS BTU1640	Ø 16	PPS GTU1640	Ø 20	PPS VTU2055
Ø 20	PPS BTU2040	Ø 20	PPS GTU2055	Ø 25	PPS VTU2555
Ø 20	PPS BTU2055	Ø 25	PPS GTU2555		
Ø 25	PPS BTU2540	Ø 32	PPS GTU3255		
Ø 25	PPS BTU2555	Ø 40	PPS GTU4055		
Ø 32	PPS BTU3240	Ø 50	PPS GTU5055		
Ø 32	PPS BTU3255	Ø 63	PPS GTU6355		
Ø 40	PPS BTU4040	Ø 80	PPS GTU8055		
Ø 40	PPS BTU4055				
Ø 50	PPS BTU5055				
Ø 63	PPS BTU6355				
Ø 80	PPS BTU8055				

# PREVOST PIPING SYSTEM

## The 100% aluminium fittings

PREVOST designs and manufactures its new **PPS1** 100% aluminium fittings to ensure that **they are the most compact and effective on the market.**

### ➔ New concept

Pipes are firmly held in the fitting using a the « **PPS Grip Concept** ».  
This new concept is based on a **stainless steel ring** with teeth that penetrate the aluminium.  
The **new contoured and lubricated seal design** guarantees a leak free performance.

### ➔ IDENTIFICATION

The Prevost logo is engraved on each fitting.



### ➔ DIAMETER

Pipe external diameter (mm and inches).



### ➔ PRESSURE

Maximum service pressure (bar/psi).



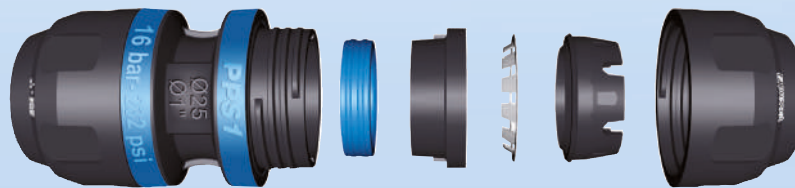
### ➔ MARKER

to indicate that the pipe is correctly positioned in the fitting.



### ➔ TRACEABILITY

clearly marked date of manufacturing code.



### ➔ LEAK FREE

It is comprised of two Teflon-coated lobes to create a perfect leak free seal.

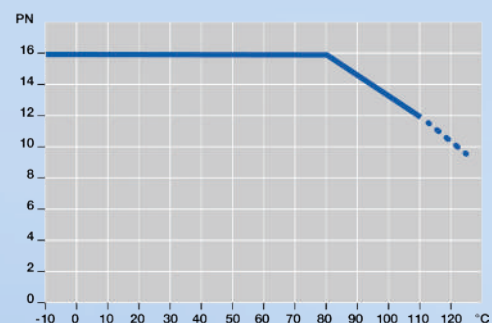
### ➔ INTERNAL PARTS

Internal parts cannot be detached from the body after assembly.

### ➔ TECHNICAL SPECIFICATIONS

- **Working pressure range:** from -0.98 bar to 16 bar
- **Temperature range:** from -20°C to 80°C
- **Body and nut:** 100% aluminium, EN AB 46100
- **PPS Grip Concept:** fastening system using teeth
- Tapping port flange to manage condensates

### Operating pressure graph as a function of temperature



New range of **PPS1** 100% aluminium fittings:  
**the most comprehensive on the market**

➔ **Diameters from 16 mm (1/2") to 80 mm (3")**



➔ **Numerous configurations**

**Straight fittings**



Union fitting      Reduction      Cap      Threaded straight connector, male      Threaded straight connector, female

**Elbows**



90° elbow      90° threaded elbow, male      45° elbow

**T-fittings**



Equal T-fitting      Reduced T-fitting      Threaded T-fitting, female

# PREVOST PIPING SYSTEM

## 100% aluminium fittings

### → Tapping flange

The body and nut are made **entirely of aluminium**. The tapping flange is extremely compact, and is fitted **with an anti-rotation** system and removable half-shell. It can be drilled without disassembly.

The tapping flange provides a dry air supply to workstations by drawing air from the wall of the pipe.

The water remaining in the lower portion of the main pipe will drain to a low point to automatic drain trap.



### → Valves

Multiple options available :



pipe/pipe



threaded male/pipe



threaded female/pipe

### → Tightening

The nut and body can be tightened using standard tools. PREVOST wrenches are strongly recommended to ensure that the nut is tightened correctly.

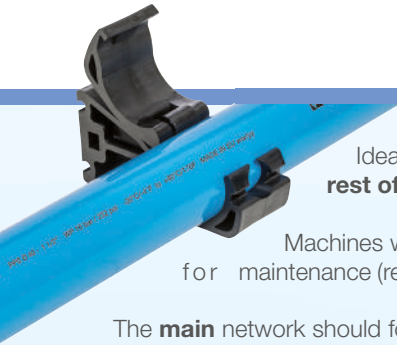
Torque can be set using a torque wrench.





# PREVOST PIPING SYSTEM

## Guidelines for network installation



Ideally, the **compressor room** should be **spacious, well ventilated, insulated and separated from the rest of the workshops.**

Machines will be **connected** to the **PPS** network by **hoses** to eliminate problems related to vibrations and to allow for maintenance (refs. LEF and LEM). It is important **to install bypasses between each machine, the tank(s) and filters.**

The **main** network should form **a loop**. For safety reasons, we advise installing the main compressed air pipes at a minimum height of **2.50 m** above floor level.

The pipe must be fastened using an adequate **number of sliding clamps** so the system is securely held in place yet allowing for expansion and contraction of the pipe (ref. PPS CI).

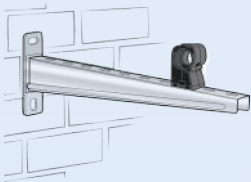
The **remaining condensates** must be **drained** from the main line via direct **drops installed lower** than the bottom generating line of the pipe and **fitted** with an automatic drain trap system.

### ➔ Mounting the network

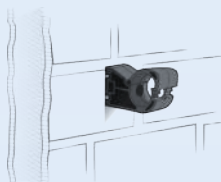
Mounting options must be selected to best suit the configuration of the workshop.

The pipe in the system must be mounted in a perfectly **level alignment**.  
To do so, **accurate distances are to be established between each mounting point**.  
For correct assembly, a distance of **3 metres** should be left between the two clamps.

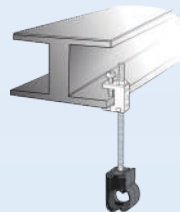
Pipe at a distance from the wall



Pipe parallel to the wall



Pipe suspended



Pipe suspended



# PREVOST PIPING SYSTEM

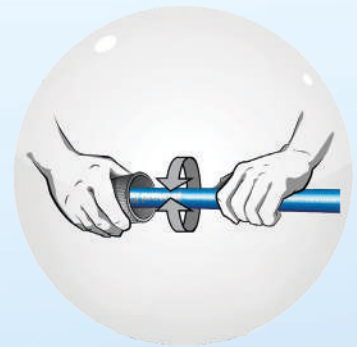
## Assembly guidelines

### CUTTING



The pipe must be cut perpendicular to its length (ref. PPS CTU).

### CHAMFERING



Chamfer the external edge of the pipe to avoid damage to the seal and the inner edge to eliminating cutting residue, improving the laminar flow of air. (For diameters 63 and 80 mm, use cutting and chamfering tool ref. PPS CH).

### TIGHTENING



Hand tighten the nut and then use a torque wrench to the specified recommendations. (ref. PPS CLE)

### MARKING



Mark the tube to indicate the insertion depth in the fitting (use the reference marks on the fittings or on the wrench).

### ASSEMBLY



Unscrew the nut by several turns, and then insert the pipe while rotating it slightly until the recommended depth is reached. NB: an assembly fluid (ref. PPS AL) is recommended to facilitate the assembly.

### LUBRICANT



# Ergonomic distribution with optimised energy efficiency

PREVOST offers a range of **compressed air network solutions**.

## ➔ Wall brackets PrevoS1

Wall fasteners are located on downpipes and **provide a safe and quick single or double fitting**.

- Air intake: G 1/2" or G 3/4"
- Multiple connection profiles
- Material: aluminium alloy
- Robust four-point wall anchoring
- Fitted with manual drain
- Air outlet: two single-press safety fittings
- Anti-whiplash fittings compliant with the ISO 4414 standard ensuring user protection
- Orientable body allowing the button position to be moved
- Quick and easy connection and disconnection



## ➔ Air treatment units

Air treatment units help to preserve pneumatic tools and equipment. Three treatment levels are recommended :



**Cyclone separator:** serves to effectively eliminate the largest solid particles and water particles present in compressed air (ref. **SPC**).

**Refrigerated dryer:** serves to remove water from compressed air, by lowering the air temperature to the dew point (+3°C) under pressure, via heat exchange (ref. **ALF**).

**25 µm standard filtration:** eliminates contaminants present in compressed air (particles, water, etc.). These contaminants are evacuated via the drain valve at the base of the tank (ref. **ALTO**).

**For optimum quality, submicron filtration:** eliminates various residual contaminants such as solid particles, liquid particles and oil aerosols present in compressed air, with a filtration efficiency of more than 99.99%. This ensures a high-quality air supply (ref. **MICRO AIR**).

## ➔ Hose reels

Automatic hose reel: this is an essential item to ensure workshop ergonomics. Its **use saves time and enables flexible distribution hoses** to be used in safety and comfort.

All Prevost automatic hose reels comply with the Machinery Directive 2006/42/EC. The following rules are also applied :

- EN ISO 12100: 2010 "Safety of machinery - General principles for design - Risk assessment and risk reduction"
- EN 13857: 2008 "Safety of machinery - Safety distances to prevent hazard zones being reached by upper and lower limbs"



# PREVOST PIPING SYSTEM

## Finishing touches

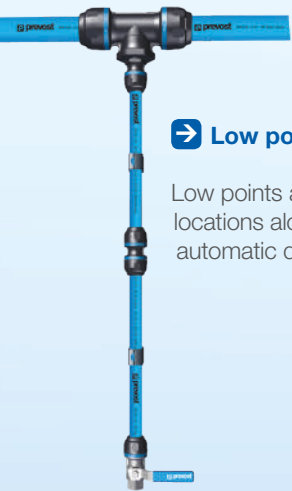
### ➔ Tapping flange

A tapping port flange is used to install a downpipe to supply a workstation. It takes the place of the former gooseneck fittings and serves to limit the presence of condensates.



### ➔ Low point

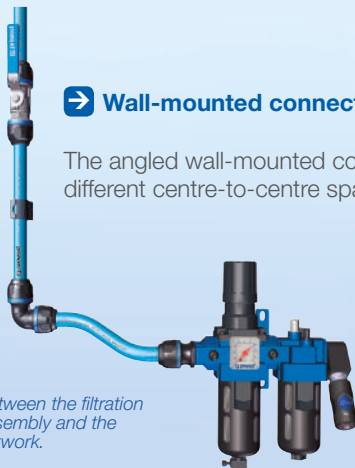
Low points are required to ensure correct drainage of condensates. These downpipes must be positioned at strategic locations along the network. Condensates may be drained using any conventional drainage system (electronic drain trap, automatic drain trap, valve). Cut-off valves are used to isolate certain parts of the network for maintenance purposes.



### ➔ Wall-mounted connection

The angled wall-mounted connection serves to compensate for different centre-to-centre spacings.

*Between the filtration assembly and the network.*



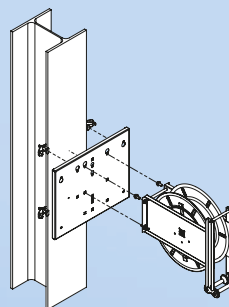
*Between the tapping and the wall.*



### ➔ Plates to mount network accessories on IPN / HEA beams

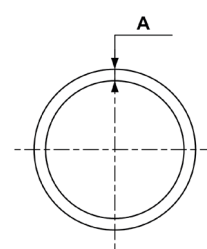

These enable workstations **to be arranged in a safe and ergonomic** manner. The metal plates, used with attachment systems adapted for IPN / HEA beams, **make it possible to fasten equipment in place** quickly and **safely**, without drilling or welding, **in accordance with prevailing requirements**. These plates are designed to receive the following :

- Open and closed reels
- Wall mounts
- **ALTO** air treatment assemblies
- Universal brackets + accessories

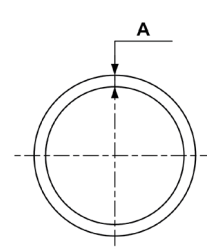



# PPS SYSTEM ALL ALUMINIUM NETWORKS

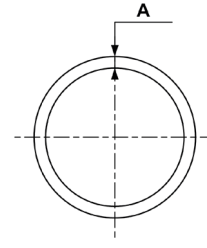

## PPS - Aluminium blue pipe for compressed air

		A	B	C	D	Pipe OD (mm)	Length (m)	Parts Numbers
			-	-	-	-	-	16
		-	-	-	-	20	4	<a href="#">PPS BTU2040</a>
		-	-	-	-	20	5.5	<a href="#">PPS BTU2055</a>
		-	-	-	-	25	4	<a href="#">PPS BTU2540</a>
		-	-	-	-	25	5.5	<a href="#">PPS BTU2555</a>
		-	-	-	-	32	4	<a href="#">PPS BTU3240</a>
		-	-	-	-	32	5.5	<a href="#">PPS BTU3255</a>
		-	-	-	-	40	4	<a href="#">PPS BTU4040</a>
		-	-	-	-	40	5.5	<a href="#">PPS BTU4055</a>
		-	-	-	-	50	5.5	<a href="#">PPS BTU5055</a>
		-	-	-	-	63	5.5	<a href="#">PPS BTU6355</a>
		-	-	-	-	80	5.5	<a href="#">PPS BTU8055</a>

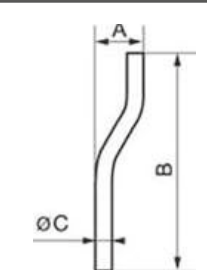

## PPS - Aluminium grey pipe for vacuum

		A	B	C	D	Pipe OD (mm)	Length (m)	Parts Numbers
			-	-	-	-	-	16
		-	-	-	-	20	5.5	<a href="#">PPS GTU2055</a>
		-	-	-	-	25	5.5	<a href="#">PPS GTU2555</a>
		-	-	-	-	32	5.5	<a href="#">PPS GTU3255</a>
		-	-	-	-	40	5.5	<a href="#">PPS GTU4055</a>
		-	-	-	-	50	5.5	<a href="#">PPS GTU5055</a>
		-	-	-	-	63	5.5	<a href="#">PPS GTU6355</a>
		-	-	-	-	80	5.5	<a href="#">PPS GTU8055</a>

## PPS - Aluminium green pipe for nitrogen


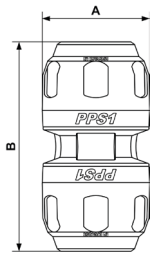
		A	B	C	D	Pipe OD (mm)	Length (m)	Parts Numbers
			-	-	-	-	-	20
		-	-	-	-	25	5.5	<a href="#">PPS VTU2555</a>

## PPS - Aluminium bended link pipe


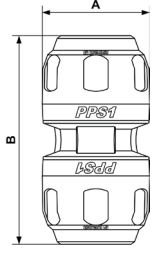
		A	B	C	D	Pipe OD (mm)	Parts Numbers
			86	480	16	-	16
	90	487	20	-	20	<a href="#">PPS LMCB20</a>	
	95	487	25	-	25	<a href="#">PPS LMCB25</a>	

# PPS SYSTEM ALL ALUMINIUM NETWORKS


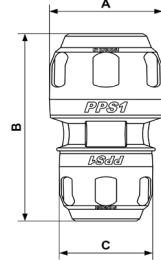
## PPS1 UN - Aluminium female union for pipe

		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>For pipe OD (mm)</b>	<b>Parts Numbers</b>
		32	64	-	-	16	<b>PPS1 UN16</b>
		38	78	-	-	20	<b>PPS1 UN20</b>
		46	90	-	-	25	<b>PPS1 UN25</b>
		57	106	-	-	32	<b>PPS1 UN32</b>
		68	125	-	-	40	<b>PPS1 UN40</b>
		84	152	-	-	50	<b>PPS1 UN50</b>
		100	173	-	-	63	<b>PPS1 UN63</b>
		121	205	-	-	80	<b>PPS1 UN80</b>

## PPS1 UNS - Aluminium female sliding union for pipe


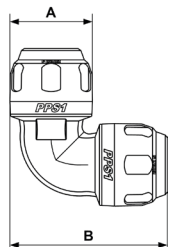
		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>For pipe OD (mm)</b>	<b>Parts Numbers</b>
		46	90	-	-	25	<b>PPS1 UNS25</b>
		57	106	-	-	32	<b>PPS1 UNS32</b>
		68	125	-	-	40	<b>PPS1 UNS40</b>
		84	152	-	-	50	<b>PPS1 UNS50</b>
		100	173	-	-	63	<b>PPS1 UNS63</b>
		121	205	-	-	80	<b>PPS1 UNS80</b>

## PPS1 MR - Aluminium pipe reducing fitting


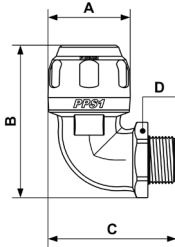
		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>For pipe OD (mm)</b>	<b>For pipe OD (mm)</b>	<b>Parts Numbers</b>
		46	85	38	-	25	20	<b>PPS1 MR2520</b>
		57	102	46	-	32	25	<b>PPS1 MR3225</b>
		68	122	57	-	40	32	<b>PPS1 MR4032</b>
		84	142	68	-	50	40	<b>PPS1 MR5040</b>
		100	170	84	-	63	50	<b>PPS1 MR6350</b>
		121	194	100	-	80	63	<b>PPS1 MR8063</b>

# PPS SYSTEM ALL ALUMINIUM NETWORKS


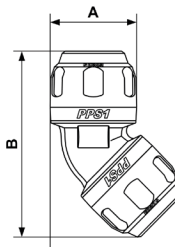
## PPS1 9C - 90° Aluminium equal female elbow fitting for pipe

		A	B	C	D	For pipe OD (mm)	Parts Numbers
		32	62	-	-	16	<b>PPS1 9C16</b>
38	73	-	-	20	<b>PPS1 9C20</b>		
46	89	-	-	25	<b>PPS1 9C25</b>		
57	106	-	-	32	<b>PPS1 9C32</b>		
68	135	-	-	40	<b>PPS1 9C40</b>		
84	151	-	-	50	<b>PPS1 9C50</b>		
100	180	-	-	63	<b>PPS1 9C63</b>		
121	218	-	-	80	<b>PPS1 9C80</b>		


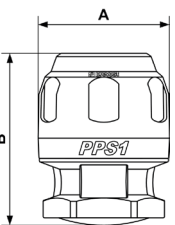
## PPS1 9CM - 90° aluminium tapered male threaded elbow fitting for pipe

		A	B	C	D	For pipe OD (mm)	BSPT male thread	Parts Numbers
		32	60	50	26	16	R 3/8	<b>PPS1 9CM1617</b>
32	60	55	26	16	R 1/2	<b>PPS1 9CM1612</b>		
38	72	61	32	20	R 1/2	<b>PPS1 9CM2012</b>		
46	87	72	38	25	R 1/2	<b>PPS1 9CM2512</b>		
46	87	71	38	25	R 3/4	<b>PPS1 9CM2527</b>		
57	103	88	46	32	R 1	<b>PPS1 9CM3234</b>		
68	123	106	57	40	R 1 1/4	<b>PPS1 9CM4042</b>		
68	123	106	57	40	R 1 1/2	<b>PPS1 9CM4049</b>		

## PPS1 4C - 45° aluminium equal female elbow fitting for pipe


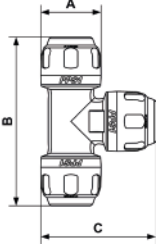
		A	B	C	D	For pipe OD (mm)	Parts Numbers
		32	70	50	-	16	<b>PPS1 4C16</b>
38	83	59	-	20	<b>PPS1 4C20</b>		
46	98	70	-	25	<b>PPS1 4C25</b>		
57	117	85	-	32	<b>PPS1 4C32</b>		
68	140	102	-	40	<b>PPS1 4C40</b>		

## PPS1 B0 - Aluminium female cap for pipe


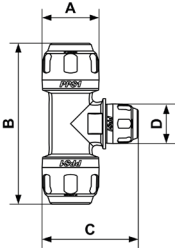
		A	B	C	D	For pipe OD (mm)	Parts Numbers
		32	45	-	-	16	<b>PPS1 B016</b>
38	53	-	-	20	<b>PPS1 B020</b>		
46	61	-	-	25	<b>PPS1 B025</b>		
57	70	-	-	32	<b>PPS1 B032</b>		
68	85	-	-	40	<b>PPS1 B040</b>		
84	101	-	-	50	<b>PPS1 B050</b>		
100	124	-	-	63	<b>PPS1 B063</b>		
121	146	-	-	80	<b>PPS1 B080</b>		

# PPS SYSTEM ALL ALUMINIUM NETWORKS


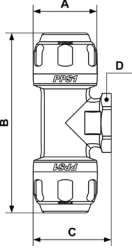
## PPS1 TE - Aluminium equal female tee fitting for pipe

		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>For pipe OD (mm)</b>	<b>Parts Numbers</b>
		38	108	73	-	20	<b>PPS1 TE20</b>
		46	131	89	-	25	<b>PPS1 TE25</b>
		57	155	106	-	32	<b>PPS1 TE32</b>
		68	183	135	-	40	<b>PPS1 TE40</b>
		84	219	151	-	50	<b>PPS1 TE50</b>
		100	261	180	-	63	<b>PPS1 TE63</b>
		121	315	218	-	80	<b>PPS1 TE80</b>

## PPS1 TR - Aluminium reducing tee fitting

		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>For pipe OD (mm)</b>	<b>For pipe OD (mm)</b>	<b>Parts Numbers</b>
		38	108	66	32	20	16	<b>PPS1 TR2016</b>
		46	131	78	32	25	16	<b>PPS1 TR2516</b>
		46	131	83	38	25	20	<b>PPS1 TR2520</b>
		57	155	91	32	32	16	<b>PPS1 TR3216</b>
		57	155	96	38	32	20	<b>PPS1 TR3220</b>
		57	155	102	46	32	25	<b>PPS1 TR3225</b>


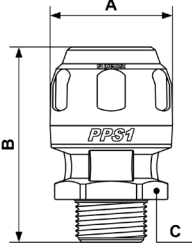
## PPS1 TT - Aluminium parallel female threaded tee fitting for pipe

		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>For pipe OD (mm)</b>	<b>BSP female thread</b>	<b>Parts Numbers</b>
		32	90	40	26	16	G 3/8	<b>PPS1 TT1617</b>
		38	108	47	32	20	G 1/2	<b>PPS1 TT2012</b>
		46	131	56	38	25	G 1/2	<b>PPS1 TT2512</b>
		46	131	56	38	25	G 3/4	<b>PPS1 TT2527</b>
		57	155	68	46	32	G 3/4	<b>PPS1 TT3227</b>
		57	155	68	46	32	G 1	<b>PPS1 TT3234</b>
		68	183	85	57	40	G 3/4	<b>PPS1 TT4027</b>
		68	183	85	57	40	G 1	<b>PPS1 TT4034</b>
		68	183	85	57	40	G 1 1/4	<b>PPS1 TT4042</b>
		84	219	101	72	50	G 1	<b>PPS1 TT5034</b>
		84	219	101	72	50	G 1 1/4	<b>PPS1 TT5042</b>
		84	219	101	72	50	G 1 1/2	<b>PPS1 TT5049</b>
		100	261	129	90	63	G 1	<b>PPS1 TT6334</b>
		100	261	129	90	63	G 1 1/4	<b>PPS1 TT6342</b>
		100	261	129	90	63	G 1 1/2	<b>PPS1 TT6349</b>
		100	261	129	90	63	G 2	<b>PPS1 TT6360</b>
		121	315	155	110	80	G 1	<b>PPS1 TT8034</b>
		121	315	155	110	80	G 1 1/2	<b>PPS1 TT8049</b>
		121	315	155	110	80	G 2	<b>PPS1 TT8060</b>
121	315	155	110	80	G 2 1/2	<b>PPS1 TT8076</b>		


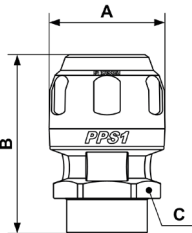


# PPS SYSTEM ALL ALUMINIUM NETWORKS

## PPS1 MM - Aluminium tapered male threaded straight fitting for pipe


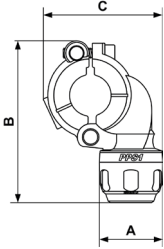
			A	B	C	D	For pipe OD (mm)	BSPT male thread	Parts Numbers
			32	52	26	-	16	R 3/8	<b>PPS1 MM1617</b>
32	58	26	-	16	R 1/2	<b>PPS1 MM1612</b>			
38	65	32	-	20	R 1/2	<b>PPS1 MM2012</b>			
38	67	32	-	20	R 3/4	<b>PPS1 MM2027</b>			
46	73	38	-	25	R 1/2	<b>PPS1 MM2512</b>			
46	74	38	-	25	R 3/4	<b>PPS1 MM2527</b>			
46	78	38	-	25	R 1	<b>PPS1 MM2534</b>			
57	88	46	-	32	R 1	<b>PPS1 MM3234</b>			
57	89	46	-	32	R 1 1/4	<b>PPS1 MM3242</b>			
68	106	57	-	40	R 1 1/4	<b>PPS1 MM4042</b>			
68	106	57	-	40	R 1 1/2	<b>PPS1 MM4049</b>			
84	120	72	-	50	R 1 1/2	<b>PPS1 MM5049</b>			
84	124	72	-	50	R 2	<b>PPS1 MM5060</b>			
100	146	90	-	63	R 2	<b>PPS1 MM6360</b>			
100	152	90	-	63	R 2 1/2	<b>PPS1 MM6376</b>			
121	173	110	-	80	R 2 1/2	<b>PPS1 MM8076</b>			
121	175	110	-	80	R 3	<b>PPS1 MM8090</b>			

## PPS1 MF - Aluminium female threaded straight fitting for pipe


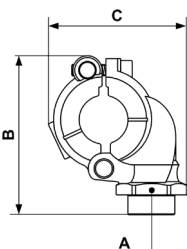
			A	B	C	D	For pipe OD (mm)	BSPF female thread	Parts Numbers
			32	53	26	-	16	G 3/8	<b>PPS1 MF1617</b>
32	53	26	-	16	G 1/2	<b>PPS1 MF1612</b>			
38	63	32	-	20	G 1/2	<b>PPS1 MF2012</b>			
38	63	32	-	20	G 3/4	<b>PPS1 MF2027</b>			
46	72	38	-	25	G 1/2	<b>PPS1 MF2512</b>			
46	72	38	-	25	G 3/4	<b>PPS1 MF2527</b>			
46	72	38	-	25	G 1	<b>PPS1 MF2534</b>			
57	83	46	-	32	G 1	<b>PPS1 MF3234</b>			
57	83	46	-	32	G 1 1/4	<b>PPS1 MF3242</b>			
68	98	57	-	40	G 1 1/4	<b>PPS1 MF4042</b>			
68	103	57	-	40	G 1 1/2	<b>PPS1 MF4049</b>			
84	110	72	-	50	G 1 1/2	<b>PPS1 MF5049</b>			
84	115	72	-	50	G 2	<b>PPS1 MF5060</b>			
100	137	90	-	63	G 2	<b>PPS1 MF6360</b>			
100	142	90	-	63	G 2 1/2	<b>PPS1 MF6376</b>			
121	164	110	-	80	G 2 1/2	<b>PPS1 MF8076</b>			
121	164	110	-	80	G 3	<b>PPS1 MF8090</b>			

# PPS SYSTEM ALL ALUMINIUM NETWORKS

## PPS1 BP - Aluminium tapping flange for pipe


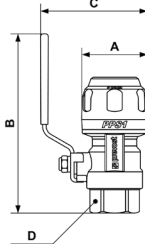
			A	B	C	D	For pipe OD (mm)	For pipe OD (mm)	Parts Numbers
			32	94	70	-	25	16	<b>PPS1 BP2516</b>
38	98	72	-	25	20	<b>PPS1 BP2520</b>			
32	94	70	-	32	16	<b>PPS1 BP3216</b>			
38	98	72	-	32	20	<b>PPS1 BP3220</b>			
32	122	102	-	40	16	<b>PPS1 BP4016</b>			
38	127	102	-	40	20	<b>PPS1 BP4020</b>			
46	130	103	-	40	25	<b>PPS1 BP4025</b>			
32	122	102	-	50	16	<b>PPS1 BP5016</b>			
38	127	102	-	50	20	<b>PPS1 BP5020</b>			
46	130	103	-	50	25	<b>PPS1 BP5025</b>			
38	163	147	-	63	20	<b>PPS1 BP6320</b>			
46	167	147	-	63	25	<b>PPS1 BP6325</b>			
57	165	147	-	63	32	<b>PPS1 BP6332</b>			
38	163	147	-	80	20	<b>PPS1 BP8020</b>			
46	167	147	-	80	25	<b>PPS1 BP8025</b>			
57	165	147	-	80	32	<b>PPS1 BP8032</b>			

## PPS1 BT - Aluminium threaded tapping flange for pipe


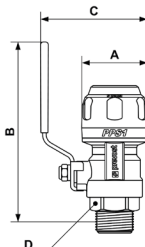
			A	B	C	D	For pipe OD (mm)	BSPF female thread	Parts Numbers
			32	82	70	-	25	G 1/2	<b>PPS1 BT2512</b>
32	82	70	-	25	G 3/8	<b>PPS1 BT2517</b>			
32	82	70	-	32	G 1/2	<b>PPS1 BT3212</b>			
32	84	70	-	32	G 3/4	<b>PPS1 BT3227</b>			
44	110	102	-	40	G 1/2	<b>PPS1 BT4012</b>			
44	110	102	-	40	G 3/4	<b>PPS1 BT4027</b>			
44	110	102	-	40	G 1	<b>PPS1 BT4034</b>			
44	110	102	-	50	G 3/4	<b>PPS1 BT5027</b>			
44	110	102	-	50	G 1	<b>PPS1 BT5034</b>			
57	161	147	-	63	G 1/2	<b>PPS1 BT6312</b>			
57	161	147	-	63	G 3/4	<b>PPS1 BT6327</b>			
57	162	147	-	63	G 1	<b>PPS1 BT6334</b>			
57	161	147	-	80	G 1/2	<b>PPS1 BT8012</b>			
57	161	147	-	80	G 3/4	<b>PPS1 BT8027</b>			
57	162	147	-	80	G 1	<b>PPS1 BT8034</b>			

# PPS SYSTEM ALL ALUMINIUM NETWORKS


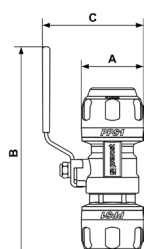
## PPS1 RSIF - Parallel female threaded valves with fittings for pipe

		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>For pipe OD (mm)</b>	<b>BSPF female thread</b>	<b>Parts Numbers</b>
		32	121	64	25	16	G 1/2	<b>PPS1 RSIF1612</b>
		38	121	66	25	20	G 1/2	<b>PPS1 RSIF2012</b>
		46	125	75	31	25	G 3/4	<b>PPS1 RSIF2527</b>
		57	151	85	40	32	G 1	<b>PPS1 RSIF3234</b>
		68	157	99,10	49	40	G 1 1/4	<b>PPS1 RSIF4042</b>
		84	204,5	122,5	55	50	G 1 1/2	<b>PPS1 RSIF5049</b>
		100	235	285	-	63	G 2	<b>PPS1 RSIF6360</b>
		121	300	250	-	80	G 2 1/2	<b>PPS1 RSIF8076</b>
		Brass body						

## PPS1 RSIM - Parallel male threaded valves with fittings for pipe


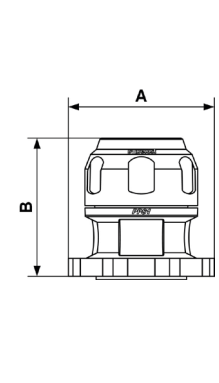
		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>For pipe OD (mm)</b>	<b>BSPT male thread</b>	<b>Parts Numbers</b>
		32	130	64	24	16	R 1/2	<b>PPS1 RSIM1612</b>
		38	130	66	24	20	R 1/2	<b>PPS1 RSIM2012</b>
		46	133	75	27	25	R 3/4	<b>PPS1 RSIM2527</b>
		57	160	85	36	32	R 1	<b>PPS1 RSIM3234</b>
		68	168,5	99,1	47	40	R 1 1/4	<b>PPS1 RSIM4042</b>
		84	215	122,5	50	50	R 1 1/2	<b>PPS1 RSIM5049</b>
Brass body								

## PPS1 RSI - Piping valve



		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>For pipe OD (mm)</b>	<b>Parts Numbers</b>	
		32	140	64	-	16		<b>PPS1 RSI16</b>
		38	147	66	-	20		<b>PPS1 RSI20</b>
		46	157	75	-	25		<b>PPS1 RSI25</b>
		57	189	85	-	32		<b>PPS1 RSI32</b>
		68	202	99,1	-	40		<b>PPS1 RSI40</b>
		84	234	122,5	-	50		<b>PPS1 RSI50</b>
		100	320	275	-	63		<b>PPS1 RSI63</b>
		121	394	250	-	80		<b>PPS1 RSI80</b>
Brass body								

# PPS SYSTEM ALL ALUMINIUM NETWORKS


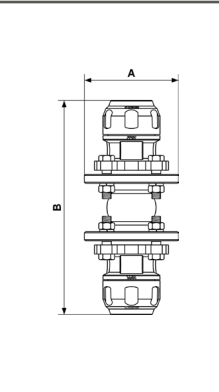
## PPS1 UF - Flanges

		A	B	C	D	For pipe OD (mm)	Parts Numbers
		-	-	-	-	63	PPS1 UF63
		-	-	-	-	80	PPS1 UF80



## PPS1 LK - Lock kit for valve

		A	B	C	D	For valve Ø (mm)	Parts Numbers
		-	-	-	-	16 to 25	PPS1 LK1625
		-	-	-	-	32 to 40	PPS1 LK3240
		-	-	-	-	50	PPS1 LK50
						63 to 80	PPS1 LK6380

## PPS1 DK - Dilatation kit


		A	B	C	D	For tube OD (mm)	Parts Numbers
		-	-	-	-	63	PPS1 DK63
		-	-	-	-	80	PPS1 DK80
Attach expansion kits to the wall using clamps : PPS1 CIRS163 for Ø63 PPS1 CIRS180 for Ø80							

## PPS1 NUT - Aluminium nut


		A	B	C	D	For fitting Ø (mm)	Parts Numbers
		-	-	-	-	16	PPS1 NUT16
		-	-	-	-	20	PPS1 NUT20
		-	-	-	-	25	PPS1 NUT25
		-	-	-	-	32	PPS1 NUT32
		-	-	-	-	40	PPS1 NUT40
		-	-	-	-	50	PPS1 NUT50
		-	-	-	-	63	PPS1 NUT63
		-	-	-	-	80	PPS1 NUT80

# PPS SYSTEM ALL ALUMINIUM NETWORKS


## PPS1 SEAL - Internal seal

		A	B	C	D	For fitting Ø (mm)	Quantity	Parts Numbers	
		-	-	-	-	-	16	10	<a href="#">PPS1 SEAL16</a>
		-	-	-	-	-	20	10	<a href="#">PPS1 SEAL20</a>
		-	-	-	-	-	25	10	<a href="#">PPS1 SEAL25</a>
		-	-	-	-	-	32	10	<a href="#">PPS1 SEAL32</a>
		-	-	-	-	-	40	5	<a href="#">PPS1 SEAL40</a>
		-	-	-	-	-	50	5	<a href="#">PPS1 SEAL50</a>
		-	-	-	-	-	63	2	<a href="#">PPS1 SEAL63</a>
		-	-	-	-	-	80	2	<a href="#">PPS1 SEAL80</a>


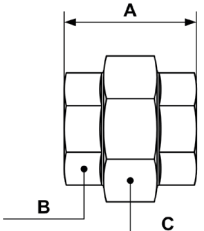
## PPS1 IP - Internal parts kit

		A	B	C	D	For fitting Ø (mm)	Parts Numbers	
		-	-	-	-	-	16	<a href="#">PPS1 IP16</a>
		-	-	-	-	-	20	<a href="#">PPS1 IP20</a>
		-	-	-	-	-	25	<a href="#">PPS1 IP25</a>
		-	-	-	-	-	32	<a href="#">PPS1 IP32</a>
		-	-	-	-	-	40	<a href="#">PPS1 IP40</a>
		-	-	-	-	-	50	<a href="#">PPS1 IP50</a>
		-	-	-	-	-	63	<a href="#">PPS1 IP63</a>
		-	-	-	-	-	80	<a href="#">PPS1 IP80</a>

## PPS1 BA - 10 Band Kit

		A	B	C	D	For fitting Ø (mm)	Parts Numbers	
		-	-	-	-	-	16	<a href="#">PPS1 BA16</a>
		-	-	-	-	-	20	<a href="#">PPS1 BA20</a>
		-	-	-	-	-	25	<a href="#">PPS1 BA25</a>
		-	-	-	-	-	32	<a href="#">PPS1 BA32</a>
		-	-	-	-	-	40	<a href="#">PPS1 BA40</a>
		-	-	-	-	-	50	<a href="#">PPS1 BA50</a>
		-	-	-	-	-	63	<a href="#">PPS1 BA63</a>
		-	-	-	-	-	80	<a href="#">PPS1 BA80</a>
(unit of sales = 10 band)								

## A3T - 3-pieces female equal socket

		A	B	C	D	BSPP female thread	Parts Numbers	
		48.5	53	-	-	-	G 1	<a href="#">A3T 01</a>
		59	65	-	-	-	G 1 1/4	<a href="#">A3T 42</a>
		63.5	73	-	-	-	G 1 1/2	<a href="#">A3T 49</a>
		75.5	89	-	-	-	G 2	<a href="#">A3T 60</a>

# ONE PORTS WALL BRACKETS

Female thread one port wall bracket - 1 coupler and drain - British Profile - ID passage 6 mm

		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>Inlet BSPP female thread</b>	<b>Outlet : 1 coupling</b>	<b>Parts Numbers</b>
		51	50	38	63	6.5	G 1/2	BSI 06	<b>BSI 061103WK</b>

Female thread one port wall bracket - 1 coupler and drain - British Profile - ID passage 6 mm

		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>Inlet BSPP female thread</b>	<b>Outlet : 1 coupling</b>	<b>Parts Numbers</b>
		-	-	-	-	-	G 1/2	BRM 06	<b>BRM 061103WK</b>

Female thread one port wall bracket - 1 coupler and drain - European Profile - ID passage 7.4 mm

		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>Inlet BSPP female thread</b>	<b>Outlet : 1 coupling</b>	<b>Parts Numbers</b>
		51	50	38	63	6.5	G 1/2	ESI 07	<b>ESI 071103WK</b>

Female thread one port wall bracket - 1 coupler and drain - European Profile - ID passage 10.4 mm


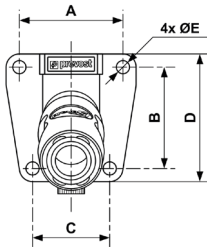
		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>Inlet BSPP female thread</b>	<b>Outlet : 1 coupling</b>	<b>Parts Numbers</b>
		51	50	38	63	6.5	G 1/2	ESI 11	<b>ESI 111103WK</b>

Female thread single wall bracket - 1 coupler and drain - ISO 6150 B Profile - ID passage 6 mm


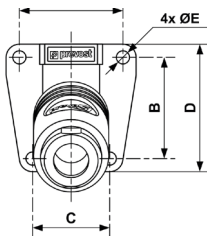
		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>Inlet BSPP female thread</b>	<b>Outlet : 1 coupling</b>	<b>Parts Numbers</b>
		51	50	38	63	6.5	G 1/2	ISI 06	<b>ISI 061103WK</b>

# ONE PORTS WALL BRACKETS


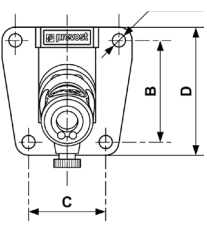
Female thread one port wall bracket - 1 coupler and drain - ISO 6150 B Profile - ID passage 8 mm

		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>Inlet BSPP female thread</b>	<b>Outlet : 1 coupling</b>	<b>Parts Numbers</b>
		51	50	38	63	6.5	G 1/2	ISI 08	<b>ISI 081103WK</b>


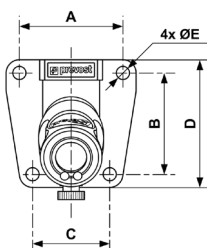
Female thread one port wall bracket - 1 coupler and drain - ISO 6150 B Profile - ID passage 11 mm

		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>Inlet BSPP female thread</b>	<b>Outlet : 1 coupling</b>	<b>Parts Numbers</b>
		51	50	38	63	6.5	G 1/2	ISI 11	<b>ISI 111103WK</b>

Female thread one port wall bracket - 1 coupler and drain - ISO 6150 C Profile - ID passage 6 mm


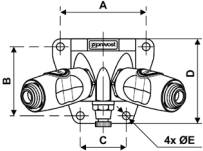
		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>Inlet BSPP female thread</b>	<b>Outlet : 1 coupling</b>	<b>Parts Numbers</b>
		51	50	38	63	6.5	G 1/2	CSI 06	<b>CSI 061103WK</b>

Female thread one port wall bracket - 1 coupler and drain - ISO 6150 C Profile - ID passage 8 mm


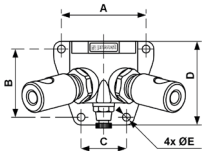
		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>Inlet BSPP female thread</b>	<b>Outlet : 1 coupling</b>	<b>Parts Numbers</b>
		51	50	38	63	6.5	G 1/2	CSI 08	<b>CSI 081103WK</b>

# TWO PORTS WALL BRACKETS


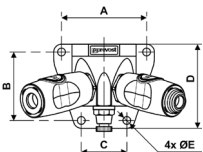
## Female thread two port wall bracket - 2 couplers and drain - British Profile - ID passage 6 mm

		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>Inlet BSPP female thread</b>	<b>Outlet : 2 couplings</b>	<b>Parts Numbers</b>
		71	57	38	70	6.5	G 1/2	BSI 06	<a href="#">BSI 068103WK</a>
		71	57	38	70	6.5	G 3/4	BSI 06	<a href="#">BSI 068104WK</a>


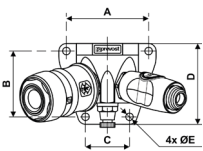
## Female thread two port wall bracket - 2 couplers and drain - British Profile - ID passage 6 mm

		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>Inlet BSPP female thread</b>	<b>Outlet : 2 couplings</b>	<b>Parts Numbers</b>
		-	-	-	-	-	G 1/2	BRM 06	<a href="#">BRM 068103WK</a>
		-	-	-	-	-	G 3/4	BRM 06	<a href="#">BRM 068104WK</a>


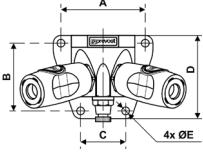
## Female thread two port wall bracket - 2 couplers and drain - European Profile - ID passage 7.4 mm and British profile - ID passage 6 mm

		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>Inlet BSPP female thread</b>	<b>Outlet : 2 couplings</b>	<b>Parts Numbers</b>
		71	57	38	70	6.5	G 3/4	ESI 07 BSI 06	<a href="#">ESI 078104WKB6</a>

## Female thread two port wall bracket - 2 couplers and drain - ISO 6150 B Profile - ID 11 mm and British Profile - ID 6 mm

		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>Inlet BSPP female thread</b>	<b>Outlet : 2 couplings</b>	<b>Parts Numbers</b>
		71	57	38	70	6.5	G 3/4	ISG 11 BSI 06	<a href="#">ISG 118104WKB6</a>


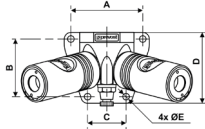
## Female thread two ports wall bracket - 2 couplers and drain - European Profile - ID passage 7.4 mm

		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>Inlet BSPP female thread</b>	<b>Outlet : 2 couplings</b>	<b>Parts Numbers</b>
		71	57	38	70	6.5	G 1/2	ESI 07	<a href="#">ESI 078103WK</a>
		71	57	38	70	6.5	G 3/4	ESI 07	<a href="#">ESI 078104WK</a>


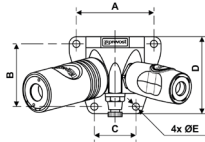


# TWO PORTS WALL BRACKETS


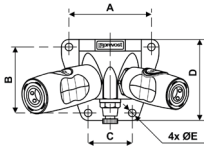
## Female thread two port wall bracket - 2 couplers and drain - European Profile - ID passage 10.4 mm

			A	B	C	D	E	Inlet BSPP female thread	Outlet : 2 couplings	Parts Numbers
			71	57	38	70	6.5	G 3/4	ESI 11	<a href="#">ESI 118104WK</a>


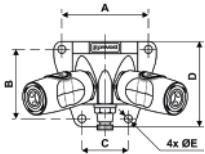
## Female thread two port wall bracket - 2 couplings and drain - European Profile - ID passage 10.4 mm and 7.4 mm

			A	B	C	D	E	Inlet BSPP female thread	Outlet : 2 couplings	Parts Numbers
			71	57	38	70	6.5	G 3/4	ESI 11 ESI 07	<a href="#">ESI 118104WKE7</a>

## Female thread two port wall bracket - 2 couplers and drain - ISO 6150 B Profile - ID passage 6 mm and European Profile - ID passage 7.4 mm


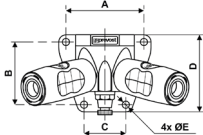
			A	B	C	D	E	Inlet BSPP female thread	Outlet : 2 couplings	Parts Numbers
			71	57	38	70	6.5	G 3/4	ISI 06 ESI 07	<a href="#">ISI 068104WKE7</a>

## Female thread two port wall bracket - 2 couplers and drain - ISO 6150 B Profile - ID passage 6 mm


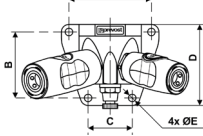
			A	B	C	D	E	Inlet BSPP female thread	Outlet : 2 couplings	Parts Numbers
			71	57	38	70	6.5	G 1/2	ISI 06	<a href="#">ISI 068103WK</a>
			71	57	38	70	6.5	G 3/4	ISI 06	<a href="#">ISI 068104WK</a>

# TWO PORTS WALL BRACKETS


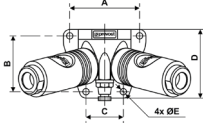
Female thread two port wall bracket - 2 couplers and drain - ISO 6150 B Profile - ID passage 8 mm

		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>Inlet BSPP female thread</b>	<b>Outlet : 2 couplings</b>	<b>Parts Numbers</b>
		71	57	38	70	6.5	G 1/2	ISI 08	<b>ISI 088103WK</b>
		71	57	38	70	6.5	G 3/4	ISI 08	<b>ISI 088104WK</b>


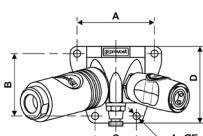
Female thread two port wall bracket - 2 couplers and drain - ISO 6150 B Profile - ID passage 8 mm and 6 mm

		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>Inlet BSPP female thread</b>	<b>Outlet : 2 couplings</b>	<b>Parts Numbers</b>
		71	57	38	70	6.5	G 3/4	ISI 08 ISI 06	<b>ISI 088104WKI6</b>

Female thread two port wall bracket - 2 couplers and drain - ISO 6150 B Profile - ID passage 11 mm


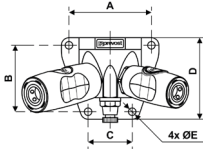
		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>Inlet BSPP female thread</b>	<b>Outlet : 2 couplings</b>	<b>Parts Numbers</b>
		71	57	38	70	6.5	G 3/4	ISI 11	<b>ISI 118104WK</b>

Female thread two port wall bracket - 2 couplers and drain - ISO 6150 B Profile - ID passage 11 mm and 6 mm


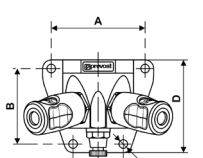
		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>Inlet BSPP female thread</b>	<b>Outlet : 2 couplings</b>	<b>Parts Numbers</b>
		71	57	38	70	6.5	G 3/4	ISI 11 ISI 06	<b>ISI 118104WKI6</b>

# TWO PORTS WALL BRACKETS


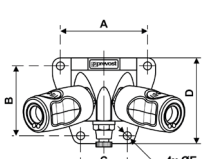
Female thread two port wall bracket - 2 couplers and drain - ISO 6150 B and ISO 6150 C Profile - ID passage 6 mm

		A	B	C	D	E	Inlet BSPP female thread	Outlet : 2 couplings	Parts Numbers
				71	57	38	70	6.5	G 3/4


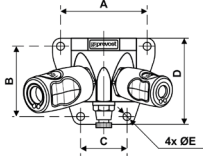
Female thread two port wall bracket - 2 couplers and drain - ISO 6150 C Profile - ID passage 6 mm

		A	B	C	D	E	Inlet BSPP female thread	Outlet : 2 couplings	Parts Numbers
				71	57	38	70	6.5	G 1/2
71	57			38	70	6.5	G 3/4	CSI 06	<b>CSI 068104WK</b>

Female thread two port wall bracket - 2 couplers and drain - ISO 6150 C Profile - ID passage 8 mm


		A	B	C	D	E	Inlet BSPP female thread	Outlet : 2 couplings	Parts Numbers
				71	57	38	70	6.5	G 1/2
71	57			38	70	6.5	G 3/4	CSI 08	<b>CSI 088104WK</b>

Female thread two port wall bracket - 2 couplings and drain - ISO 6150 C Profile - ID passage 8 mm and 6 mm


		A	B	C	D	E	Inlet BSPP female thread	Outlet : 2 couplings	Parts Numbers
				71	57	38	70	6.5	G 3/4

# MULTI PORT WALL BRACKETS


## Female thread wall bracket - Couplers and drain profile - British profile - ID passage 6 mm

		<b>Inlet BSPP female thread</b>	<b>Outlet</b>	<b>Parts Numbers</b>
		G 3/4	4 x BSI 06	<b>MF 104S4BS</b>
		G 3/4	6 x BSI 06	<b>MF 104S6BS</b>
		G 3/4	8 x BSI 06	<b>MF 104S8BS</b>
		G 3/4	10 x BSI 06	<b>MF 104S10BS</b>


## Female thread wall bracket - Couplers and drain - European profile - ID passage 7.4 mm

		<b>Inlet BSPP female thread</b>	<b>Outlet</b>	<b>Parts Numbers</b>
		G 3/4	4 x ESI 07	<b>MF 104S4ES</b>
		G 3/4	6 x ESI 07	<b>MF 104S6ES</b>
		G 3/4	8 x ESI 07	<b>MF 104S8ES</b>
		G 3/4	10 x ESI 07	<b>MF 104S10ES</b>

## Female thread wall bracket - Couplers and drain - ISO 6150 B profile - ID passage 6 mm


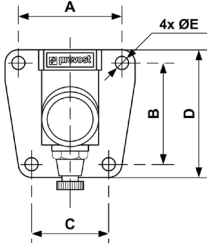
		<b>Inlet BSPP female thread</b>	<b>Outlet</b>	<b>Parts Numbers</b>
		G 3/4	4 x ISI 06	<b>MF 104S4IS</b>
		G 3/4	6 x ISI 06	<b>MF 104S6IS</b>
		G 3/4	8 x ISI 06	<b>MF 104S8IS</b>
		G 3/4	10 x ISI 06	<b>MF 104S10IS</b>

## Female thread wall bracket - Couplers and drain - ISO 6150 C profile - ID passage 6 mm


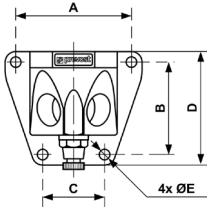
		<b>Inlet BSPP female thread</b>	<b>Outlet</b>	<b>Parts Numbers</b>
		G 3/4	4 x CSI 06	<b>MF 104S4CS</b>
		G 3/4	6 x CSI 06	<b>MF 104S6CS</b>
		G 3/4	8 x CSI 06	<b>MF 104S8CS</b>
		G 3/4	10 x CSI 06	<b>MF 104S10CS</b>

# WALL BRACKETS

## Female thread single wall bracket - Outlet 1 coupler and drain


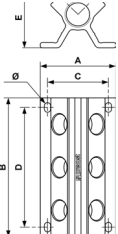
			A	B	C	D	E	Inlet BSPP female thread	Outlet BSPP female thread	Parts Numbers
			51	50	38	63	6.5	G 1/2	G 1/2	<b>MF 103S1</b>

## Female thread double wall bracket - Outlet 2 couplers and drain

			A	B	C	D	E	Inlet BSPP female thread	Outlet BSPP female thread	Parts Numbers
			71	57	38	70	6.5	G 1/2	G 1/2	<b>MF 103S2</b>
71	57	38	70	6.5	G 3/4	G 1/2	<b>MF 104S2</b>			


# NAKED MULTIPLE WALL MOUNTED BRACKET

## Manifold


			A	B	C	D	E	Inlet BSPP female thread	Number of outlet	Outlet BSPP female thread	Parts Numbers
			78	100	63	80	63	G 3/4	4	G 1/2	<b>MF 104S4</b>
78	145	63	125	63	G 3/4	6	G 1/2	<b>MF 104S6</b>			
78	190	63	170	63	G 3/4	8	G 1/2	<b>MF 104S8</b>			
78	235	63	215	63	G 3/4	10	G 1/2	<b>MF 104S10</b>			

# ACCESSORIES FOR PPS RINGMAIN ASSEMBLY


## PPS1 CLE - Tightening wrench

		A	B	C	D	For fitting Ø (mm)	Parts Numbers
		-	-	-	-	16	PPS1 CLE16
		-	-	-	-	20	PPS1 CLE20
		-	-	-	-	25	PPS1 CLE25
		-	-	-	-	32	PPS1 CLE32
		-	-	-	-	40	PPS1 CLE40
		-	-	-	-	50	PPS1 CLE50
		-	-	-	-	63	PPS1 CLE63
		-	-	-	-	80	PPS1 CLE80


## PPS CLESTD - Neutral hook spanner

		A	B	C	D	For fitting Ø (mm)	Parts Numbers
		-	-	-	-	16 to 80	PPS CLESTD


## PPS SP - Drill for taping flange

		A	B	C	D	Drill Ø (mm)	For pipe OD (mm)	Parts Numbers
		-	-	-	-	16	25 to 32	PPS SP16
		-	-	-	-	22	40 to 50	PPS SP22
		-	-	-	-	30	63 to 80	PPS SP30
Boring through for PPS1 BT and PPS1 BP flange								

## PPS CHE - Pipe chamfering and deburring tools


		A	B	C	D	For tube OD (mm)	Function	Parts Numbers
		-	-	-	-	(1) 16 to 50	-	PPS CH50
		-	-	-	-	(2) 16 to 50	-	PPS CHP50
		-	-	-	-	(4) 63 to 80	-	PPS CH110

## PPS AL - Liquid for assembly


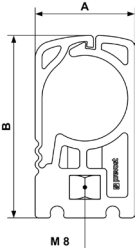
		A	B	C	D	Capacity (ml)	Parts Numbers
		-	-	-	-	650	PPS AL

# ACCESSORIES FOR PPS RINGMAIN ASSEMBLY


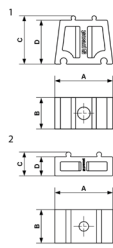
## PPS CTU - Pipe cutter

		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>For pipe OD (mm)</b>	<b>Parts Numbers</b>
		-	-	-	-	16 to 63	<b>PPS CTU63</b>
		-	-	-	-	63 to 80	<b>PPS CTU110</b>


## PPS1 CI - Piping clamp (unit of sales = 1 box of 5 clamps)

		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>For pipe OD (mm)</b>	<b>Thread</b>	<b>Parts Numbers</b>
		24	47	-	-	16	M8	<b>PPS1 CI16</b>
		24	49	-	-	20	M8	<b>PPS1 CI20</b>
		29	53	-	-	25	M8	<b>PPS1 CI25</b>
		38	57	-	-	32	M8	<b>PPS1 CI32</b>
		49	99,5	-	-	40	M8	<b>PPS1 CI40</b>
		59	104,5	-	-	50	M8	<b>PPS1 CI50</b>
		75	135	-	-	63	M8	<b>PPS1 CI63</b>
		90	145	-	-	80	M8	<b>PPS1 CI80</b>

## PPS1 CIS - Spacer for piping clamp

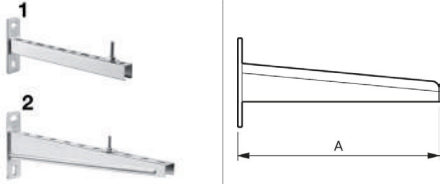
		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>Length (mm)</b>	<b>Parts Numbers</b>
		46	25	38,50	35	(1) 35	<b>PPS1 CIS1632</b>
		60,50	35	25	20	(2) 20	<b>PPS1 CIS4050</b>

## PPS1 CIRSI - Bracket for valve


		<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>For pipe OD (mm)</b>	<b>Parts Numbers</b>
		-	-	-	-	16	<b>PPS1 CIRSI16</b>
		-	-	-	-	20	<b>PPS1 CIRSI20</b>
		-	-	-	-	25	<b>PPS1 CIRSI25</b>
		-	-	-	-	32	<b>PPS1 CIRSI32</b>
		-	-	-	-	40	<b>PPS1 CIRSI40</b>
		-	-	-	-	50	<b>PPS1 CIRSI50</b>
		-	-	-	-	63	<b>PPS1 CIRSI63</b>
		-	-	-	-	80	<b>PPS1 CIRSI80</b>

# ACCESSORIES FOR PPS RINGMAIN ASSEMBLY

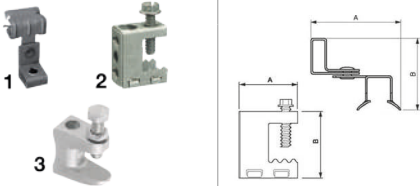
## Metal support bracket

	A	B	C	D	Length (mm)	Max load distributed over the entire length (kg)	Parts Numbers
	180	-	-	-	(1) 180	133	<b>CS 180L</b>
	300	-	-	-	(1) 300	80	<b>CS 310L</b>
	420	-	-	-	(1) 420	56.4	<b>CS 420L</b>
	510	-	-	-	(2) 510	75	<b>CS 500</b>

## Screw for metal support

	A	B	C	D	Length (mm)	Metric thread	Parts Numbers
	-	-	-	-	-	20	M8


## M8 Beam clip

	A	B	C	D	Panel thickness (mm)	Metric thread	Parts Numbers	
	47	45	-	-	(1) 3 to 8			<b>CP 38</b>
	53	45	-	-	(1) 8 to 14			<b>CP 814</b>
	58	45	-	-	(1) 14 to 20			<b>CP 1420</b>
	30	34	-	-	(2) 0 to 16		M6 or cross-piece	<b>CP 016</b>
-	-	-	-	(3) 1 to 18		M8	<b>CP M8</b>	


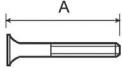


# ACCESSORIES FOR PPS RINGMAIN ASSEMBLY


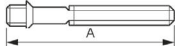
## Suspension system for piping clamp

		A	B	C	D	Length (v)	Metric thread	Parts Numbers
				-	-	-	-	2


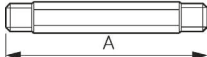
## Screw Ø 6 mm

		A	B	C	D	Length (mm)	Parts Numbers
				60	-	-	-
		90	-	-	-	90	<b>TVB 690</b>

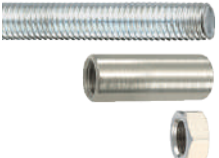
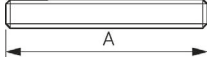
## M8 threaded hanger galvanized stud

		A	B	C	D	Length (mm)	Use	Metric thread	Parts Numbers
				50	-	-	-	50	For use with all construction materials
		80	-	-	-	80	For use with all construction materials	M8	<b>PV 880</b>

## M8 Stud


		A	B	C	D	Metric thread	Parts Numbers
				77	-	-	-

## M8 threaded stud


		A	B	C	D	Description	Metric thread	Length (m)	Parts Numbers
				100	-	-	-	Threaded stud	M8
		30	-	-	-	Union for M8 threaded stud	M8	-	<b>TL RM8</b>
		-	-	-	-	Lock Nut	M8	-	<b>TE M8</b>

# PPS RANGE CASE

## PPS CK - Tightening wrenches case


	<b>Includes</b>	<b>Parts Numbers</b>
	<ul style="list-style-type: none"> <li>- 1 Tightening wrench Ø 16 mm: PPS1 CLE16</li> <li>- 1 Tightening wrench Ø 20 mm: PPS1 CLE20</li> <li>- 1 Tightening wrench Ø 25 mm: PPS1 CLE25</li> <li>- 1 Tightening wrench Ø 32 mm: PPS1 CLE32</li> <li>- 1 Marker pen: PPS1 PEN</li> </ul>	<b>PPS CK1632</b>
	<ul style="list-style-type: none"> <li>- 1 Tightening wrench Ø 40 mm: PPS1 CLE40</li> <li>- 1 Tightening wrench Ø 50 mm: PPS1 CLE50</li> <li>- 1 Marker pen: PPS1 PEN</li> </ul>	<b>PPS CK4050</b>
	<ul style="list-style-type: none"> <li>- 1 Tightening wrench Ø 63 mm: PPS1 CLE63</li> <li>- 1 Tightening wrench Ø 80 mm: PPS1 CLE80</li> <li>- 1 Marker pen: PPS1 PEN</li> </ul>	<b>PPS CK6380</b>

## PPS CT - Tools case for pipes preparation


	<b>Includes</b>	<b>Parts Numbers</b>
	<ul style="list-style-type: none"> <li>- 1 Tube cutter for PPS tube Ø ext. 16 to 63 mm: PPS CTU63</li> <li>- 1 Chamfering tool for tube Ø ext. 16 to 50 mm: PPS CH50</li> <li>- 1 Deburring int/ext: PPS CHERAP</li> <li>- 1 Hole saw for drilling tube Ø 16 to 32 mm: PPS SP16</li> <li>- 1 Hole saw for drilling tube Ø 40 to 50 mm: PPS SP22</li> <li>- 1 Marker pen: PPS PEN</li> </ul>	<b>PPS CT1650</b>

# LINKING HOSES


## Flexible hoses to compensate for network expansion and contraction - Tapered male swivel connections

	<b>BSPT male thread</b>	<b>Length (m)</b>	<b>Bend radius (at 20°C)(mm)</b>	<b>Max operating pressure (bar)</b>	<b>Temperature</b>	<b>Parts Numbers</b>
	R 1/2	0.75	180	160	-40° +70°	<a href="#">LAM 21</a>
	R 3/4	0.75	240	105	-40° +70°	<a href="#">LAM 27</a>
	R 1	0.75	300	88	-40° +70°	<a href="#">LAM 34</a>
	R 1 1/4	1.1	420	63	-40° +70°	<a href="#">LAM 42</a>
	R 1 1/2	1.25	500	50	-40° +70°	<a href="#">LAM 49</a>
	R 2	1	630	40	-40° +70°	<a href="#">LAM 60</a>


## Connection hoses - Female swivel connections

	<b>BSPB female thread</b>	<b>Length (m)</b>	<b>Bend radius (at 20°C)(mm)</b>	<b>Max operating pressure (bar)</b>	<b>Temperature</b>	<b>Parts Numbers</b>
	G 3/8	1.5	130	180	-40° +110°	<a href="#">LEF 17</a>
	G 1/2	1.5	130	160	-40° +110°	<a href="#">LEF 21</a>
	G 3/4	1.5	240	105	-40° +110°	<a href="#">LEF 27</a>
	G 1	1.5	300	88	-40° +110°	<a href="#">LEF 34</a>
	G 1 1/4	2.2	420	63	-40° +110°	<a href="#">LEF 42</a>
	G 1 1/2	2.5	500	50	-40° +110°	<a href="#">LEF 49</a>
G 2	2	630	80	-40° +110°	<a href="#">LEF 60</a>	


## Connection hoses with steel safety cable - Female swivel connections

	<b>BSPB female thread</b>	<b>Length (m)</b>	<b>Bend radius (at 20°C)(mm)</b>	<b>Max operating pressure (bar)</b>	<b>Temperature</b>	<b>Parts Numbers</b>
	G 3/8	1.5	130	180	-40° +110°	<a href="#">LEF 17S</a>
	G 1/2	1.5	130	160	-40° +110°	<a href="#">LEF 21S</a>
	G 3/4	1.5	240	105	-40° +110°	<a href="#">LEF 27S</a>
	G 1	1.5	300	88	-40° +110°	<a href="#">LEF 34S</a>

## Connection hoses - Male swivel connections

	<b>BSPT male thread</b>	<b>Length (m)</b>	<b>Bend radius (at 20°C)(mm)</b>	<b>Max operating pressure (bar)</b>	<b>Temperature</b>	<b>Parts Numbers</b>
	R 3/8	1.5	130	180	-40° +110°	<a href="#">LEM 17</a>
	R 1/2	1.5	180	160	-40° +110°	<a href="#">LEM 21</a>
	R 3/4	1.5	240	105	-40° +110°	<a href="#">LEM 27</a>
	R 1	1.5	300	80	-40° +110°	<a href="#">LEM 34</a>
	R 1 1/4	2.2	420	63	-40° +110°	<a href="#">LEM 42</a>
	R 1 1/2	2.5	500	50	-40° +110°	<a href="#">LEM 49</a>
R 2	2	630	80	-40° +110°	<a href="#">LEM 60</a>	

## Connection hoses with safety cable - Male swivel connections

	<b>BSPT male thread</b>	<b>Length (m)</b>	<b>Bend radius (at 20°C)(mm)</b>	<b>Max operating pressure (bar)</b>	<b>Temperature</b>	<b>Parts Numbers</b>
	R 3/8	1.5	130	180	-40° +110°	<a href="#">LEM 17S</a>
	R 1/2	1.5	180	160	-40° +110°	<a href="#">LEM 21S</a>
	R 3/4	1.5	240	105	-40° +110°	<a href="#">LEM 27S</a>
R 1	1.5	300	88	-40° +110°	<a href="#">LEM 34S</a>	

