



CONNECTED TO INNOVATION





The **prevoS1** coupling the ideal solution for every air powered business



The **prevoS1** quick safety coupling's innovative design sets the new standard in the automotive and industrial sectors. The high-tech, top quality manufacturing and ergonomic design guarantees long term performance and customer satisfaction. The couplings increase efficiency in the work place and meets all applicable industrial safety standards for an optimum return on investment.

CONNECTING THE AIR POWERED INDUSTRY

The **prevoS1** air coupling meets performance and safety standards for a diverse group of applications:

- Automotive manufacturing
- Auto body and Quick Service Shops
- Plastics
- Wood crafting and manufacturing
- Textiles
- Food-processing

HIGH QUALITY PERFORMANCE

Completely sealed and durable for a long service life, **prevoS1** quick safety couplings guarantee high efficiency performance for your pneumatic systems and tools.

INTERNATIONAL COMPATIBILITY

prevoS1 couplings are available in an assortment of profiles and are compatible with many international standards.

- Popular profiles
- ISO 6150 B, ISO 6150 C, European, British, Aro 210, Asian, Truflate



Innovating for user performance



prevoS1 coupling bodies are made from a lightweight, composite material. They are ergonomically designed with user comfort in mind and offer automatic one-push connection/disconnection technology to increase speed in workshops.

These built in features allow users to increase efficiency and work with ease.

SIMPLE AND INTUITIVE TO USE

- Quick, effortless coupling
Fast connection
⊕ Internal mechanism cannot be damaged
- Compact and lightweight
Precise control
Reduce fatigue during repetitive use
⊕ Increase production speed
- Swivel body
Free range of movement
Ideal positioning
⊕ Less labor output from operator

COMFORTABLE FOR ALL DAY USE

- Ergonomic shape
⊕ Comfortably fits in the palm of your hand
- Composite body
Non-scratch
Protection against cold air
⊕ Allows a firm grip on the coupling
⊕ Protect fabricated goods from damage
- One step to connect and disconnect pneumatic systems and tools
Quickly change out tools on assembly lines
⊕ Streamline movement and increase productivity

Innovating for safety

Compliant with international safety standards and equipped with anti-hose whip technology, **prevoS1** couplings are designed to eliminate accidents in the workplace and reduce costly damages to surrounding equipment.

SAFETY AT EVERY LEVEL

Safety in construction

- **Anti-static construction**
No static electricity conducted
 - ⊕ Dust will not be attracted to painted or varnished surfaces
- **Silicone-free manufacturing**
 - ⊕ Surface imperfections will not be created during the paint or varnish application by contaminated compressed air

Enhanced user safety features

- **Secure automatic decompression and disconnection**
No risk of hose whip or accidental disconnection
 - ⊕ Eliminates personal injury and damage to surrounding products or equipment
- **Colour coded button**
Quickly identify different profiles
Reduce connection errors
 - ⊕ Less damage, fewer accidents and leaks

SAFETY STANDARD COMPLIANT

- European Pressure Equipment Directive (PED)
- Safety requirements of the ISO 4414 standard
- European RoHS Directive
- Compatible with class 1 and 2 (gas) and 21 and 22 (dust) ATEX zones



Innovating for energy efficiency



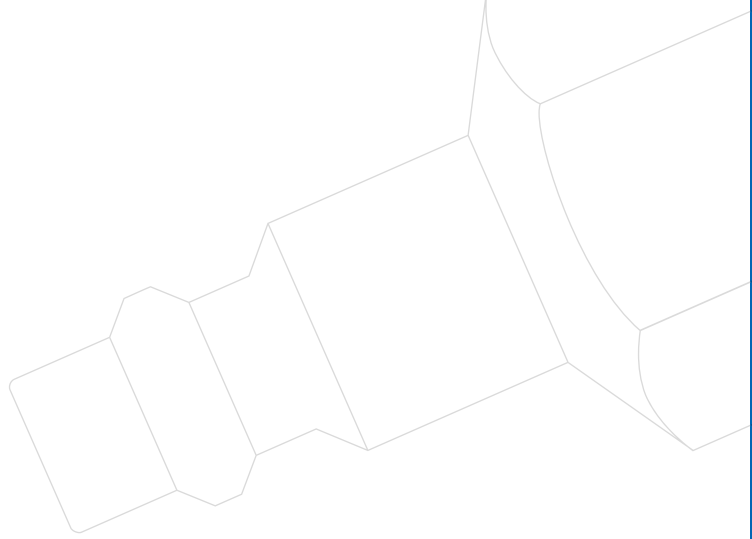
The perfect seal and long service life of **prevoS1** quick safety couplings and plugs guarantee the efficiency of pneumatic systems and tools by eliminating costs linked to damage and leaks.

ADVANTAGES OF PREVOS1 COUPLINGS

- **Automatic and effortless coupling**
Lightweight, resistant to abrasion, vibrations and corrosion
- ⊕ Long service life
- **Innovative sealing mechanism**
prevoS1 quick safety couplings used with PREVOST plugs eliminates all risk of leaks in the coupled and uncoupled positions.
- **A guaranteed seal:**
- ⊕ **O-ring**
Allows a perfect outer external seal between the plug and coupling when connected.
- ⊕ **Valve seal**
Fits tightly against the valve and provides a complete seal.

FINANCIAL BENEFITS

- **prevoS1** quick safety couplings offer a three-year warranty, will operate leak free and require no ongoing maintenance - all factors which reduce operating expenses for businesses
- **No significant pressure loss** as air passes through the coupling
The aerodynamic valve provides a consistent flow rate, without any pressure loss. This results in a higher powered, more efficient tool.
- **Optimal air flow guaranteed** for improved efficiency of pneumatic systems and tools
- ⊕ Lower energy costs
- ⊕ Enhanced productivity



In a compressed air network, leaks most frequently occur at the coupling-plug connection site. This can be attributed to poor design and inferior quality of the seal between the components. To see cost savings and high performance benefits, you must first start with a solid connection from a high quality coupling and plug.

The one of a kind performance and long lasting reliability by **prevoS1** quick safety couplings and plugs is created through the perfect seal.



THE COST OF A LEAK BY THE NUMBERS

A leaking air system creates increased energy consumption resulting in significant financial losses for companies.



OF THE COMPRESSED AIR ENERGY GENERATED IS LOST DUE TO LEAKS IN FACILITIES.



FOR PROPER USE OF TOOLS, THIS LOSS OF ENERGY MUST BE BALANCED. FOR EXAMPLE, COMPENSATION OF 1 BAR RESULTS IN 6% ADDITIONAL ENERGY CONSUMPTION.

	PREVOST PLUG	CONVENTIONAL PLUG
MATERIALS	PREVOST plugs are made of nitrided steel and are scratch and corrosion-resistant.	Brass plugs are unreliable, they do not stand up to vibrations. The surface quickly deteriorates which results in higher disconnection rates. The plug can cause premature damage to the seal which can create a leak.
STANDARDS	PREVOST plugs comply with all current standards, including numerous applicable ISO standards.	A plug that does not conform with standard dimensions and tolerances will not achieve a perfect connection with the coupling and leak.
TOLERANCES	PREVOST plugs conform with the exact dimensions and tolerances dictated by applicable standards.	Many plugs do not conform to the standardized tolerances effecting compatibility to operate with a top quality coupling. The plug and coupling will eventually fail, creating a poor connection and leak.

Source: ADEME

prevoS1 composite polymer body



CONSTRUCTION

- **Body built from composite polymer material for heavy duty performance.**
- **Other components:** steel or aluminum with RoHS-compliant corrosion protection treatment.
- **Seal:** Nitrile NBR O-ring
- **Check valve and button** made from composite material

PRESSURE AND TEMPERATURE

- **Service pressure range: 2 to 12 bar (not suitable for vacuum)**
- **Temperature:** -15°C to +70°C

ADVANTAGES OF THE PREVOS1 COMPOSITE-BODY COUPLING

- **Ultra-lightweight**
74 g for couplings with 6 mm clearance (hose outlet)
113 g for couplings with 8 mm clearance (hose outlet)
177 g for couplings with 11 mm clearance (hose outlet)
- **Non-scratch**
Protects delicate surfaces
- **Anti-static**
 Not conductive, to avoid problems relating to static electricity. (ex. dust attracted to the paint/polish/electronic equipment).
 ⊕ Allows the coupling to meet ATEX Directive requirements. Coupling can be used in class 1 and 2 (gas) and 21 and 22 (dust) ATEX zones.

- **Quick and easy to connect the plug** into the coupling due to the innovative design of the internal mechanism
- **Versatile coupling**
 < 80 N at 6 bar for couplings with 6 mm clearance
 < 100 N at 6 bar for couplings with 8 mm clearance
 < 180 N at 6 bar for couplings with 11 mm clearance
 N = Newtons
- **Safe and effortless handling**
- **Applications**
 All connections
 Assembly lines (automotive, large scale production, etc.)
 Mechanical manufacturing, machining workshops
 Paper and printing industries
 Automotive repair, Quick body and Paint shops
 Textile industries
 Wood and plastics industries
 All work on fragile products
 Technical education

Flow rate at 6 bar with ΔP of 0.6 bar

Profiles	ISO B 6 mm	ISO C 6 mm	ARO 6 mm	British 6 mm	Truflate 6 mm	European 7.4 mm	ISO B 8 mm	ISO C 8 mm	Truflate 8 mm	European 10.4 mm	ISO B 11 mm	Truflate 11 mm
Coupling	ISI 06	CSI 06	ASI 06	BSI 06	USI 06	ESI 07	ISI 08	CSI 08	USI 08	ESI 11EB	ISI 11 EB	USI 11EB
Flow rate l/min	833	833	800	750	833	1820	2028	2028	2028	3530	3686	2987
PREVOST compatible plugs	IRP 06	CRP 06	ARP 06	BRP 06	URP 06	ERP 07	IRP 08	CRP 08	URP 08	ERP 11	IRP 11	URP 11

prevoS1 stainless steel body



CONSTRUCTION

- **Body: stainless steel with 17% chromium**
- **Other components:** steel or aluminium, treated for corrosion resistance, in accordance with the RoHS standard
- **Seal:** Nitrile NBR O-ring
- **Check valve and button** made from composite material

PRESSURE AND TEMPERATURE

- **Service pressure range: 2 to 16 bar (not suitable for vacuum)**
- **Temperature:** -15°C to +70°C

ADVANTAGES OF THE PREVOS1 METAL COUPLING

- **Extremely tough couplings**
⊕ Perfect for the harshest operating conditions including intense impacts, crushing, dirty or damp environments.
- **Recommended for high demand industries** such as public works, ship building, heavy duty construction, maintenance vehicles, mining and offshore drilling, etc.
- **Anti-static**
Not conductive, to avoid problems relating to static electricity. (ex. dust attracted to the paint/polish/electronic equipment).
⊕ Allows the coupling to meet ATEX Directive requirements. Coupling can be used in class 1 and 2 (gas) and 21 and 22 (dust) ATEX zones.
- **Quick and easy to connect** the plug into the coupling due to the innovative design of the internal mechanism
- **Safe and effortless handling**
- **Coupling force at 6 bar** < 160 N at 6 bar
N = Newtons
- **Applications**
Tough jobs
Harsh applications
Maintenance for industrial vehicles, agriculture, public works, mines and quarries, etc.
Heavy industry and manufacturing, iron and steel production, foundries, cement works, etc.

Flow rate at 6 bar with ΔP of 0.6 bar

Profiles	European 10.4 mm	ISO B 11 mm	Trufate 11 mm
Coupling	ESI 11	ISI 11	USI
Flow rate l/min	3530	3686	2987
PREVOST compatible adaptors	ERP 11	IRP 11	URP 11

Configurations

INSTALLATION OPTIONS

Parallel female thread

- BSPP
- International standard ISO 228/1



Parallel male thread

- BSPP
- Built-in gasket
- International standard ISO 228/1



Tapered female thread

- NPT in accordance with ASME B 1.20.1
- BSPT in accordance with ISO 7



Tapered male thread

- NPT in accordance with ASME B 1.20.1
- BSPT in accordance with ISO 7



Hose connection

- Connection with double-ear O-clamp



Bulkhead fitting



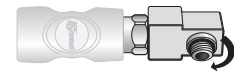
Threaded swivel joint

- Rotation through 360° on two axes
- Scratch protection



Rotating coupling, parallel thread

- Built-in gasket
- Rotation through 360° on one axis



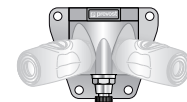
Single wall fitting

- Built-in manual drain



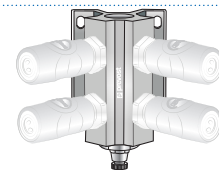
Double wall fitting

- Built-in manual drain



Multiple wall fitting

- Manual drain
- 4, 6, 8 or 10 outlets

























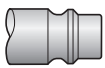


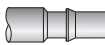


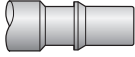





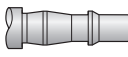





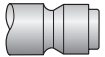







Colour identification

- Color code based on international profile (page 11)
- Part number and tracking code laser engraved on each product



Profiles characteristics



Profile	Part number	Quick safety couplings	Clearance	Thread	Flow rate at 6 bar ΔP 0.6 bar	Flow rate at 100 psi ΔP 10 psi
 	ISI 06		6 mm 1/4"	BSP/NPT	833 l/min	34 Scfm
 	ISI 08		8 mm 3/8"	BSP/NPT	2028 l/min	81 Scfm
 	ISI 11EB		11 mm 1/2"	BSP/NPT	3686 l/min	148 Scfm
 	ISI 11 STAINLESS STEEL BODY		11 mm 1/2"	BSP/NPT	3686 l/min	148 Scfm
 	ESI 07		7.4 mm 3/8"	BSP/NPT	1820 l/min	73 Scfm
 	ESI 07HE STAINLESS STEEL VERSION		7.4 mm 3/8"	BSP/NPT	1820 l/min	73 Scfm
 	ESI 11EB		10.4 mm 1/2"	BSP/NPT	3530 l/min	142 Scfm
 	ESI 11 STAINLESS STEEL BODY		10.4 mm 1/2"	BSP/NPT	3530 l/min	142 Scfm
 	CSI 06		6 mm 1/4"	BSP/NPT	833 l/min	34 Scfm
 	CSI 08		8 mm 3/8"	BSP/NPT	2028 l/min	81 Scfm
 	ASI 06		6 mm 1/4"	BSP/NPT	800 l/min	32 Scfm
 	BSI 06		6 mm 1/4"	BSP	750 l/min	29 Scfm
 	USI 06		6 mm 1/4"	BSP/NPT	833 l/min	34 Scfm
 	USI 08		8 mm 3/8"	BSP/NPT	2028 l/min	81 Scfm
 	USI 11EB		11 mm 1/2"	BSP/NPT	2987 l/min	120 Scfm
 	USI 11 STAINLESS STEEL BODY		11 mm 1/2"	NPT	2987 l/min	120 Scfm



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