

AIRNET



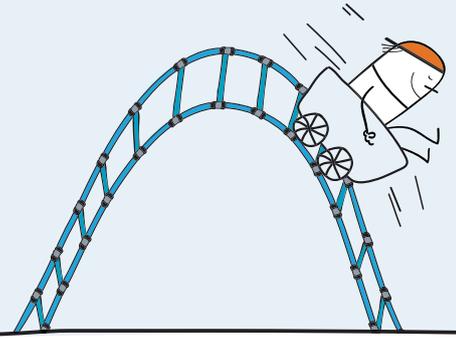
THE HANDS-ON PIPING SYSTEM

www.airnet-system.com

fast / *easy* / *reliable*

FAST

Installing a piping system is no longer time consuming, thanks to AIRnet.



READY? SET? DONE!

- ▶ The pipes are easy to cut and the polymer or aluminum fittings ensure a perfect alignment instantly.
- ▶ AIRnet does not require painting. In compliance with industrial standards, AIRnet pipes are standard painted for simple network identification.
- ▶ AIRnet is adaptable to any existing pipe work. Future extensions can simply be plugged in.
- ▶ The AIRnet system can be pressurized immediately after assembly, limiting downtime to an absolute minimum.

EVEN FASTER WITH THE PF SERIES

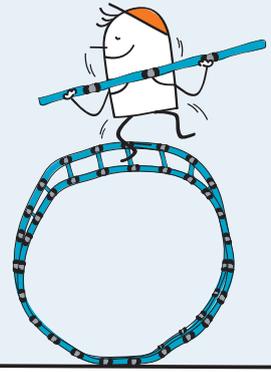
- ▶ The Pre Fit (PF) series offers pre-torqued fittings from 20-50 mm.
- ▶ A gentle push of the pipe into the fittings is all it takes. The connection is made within seconds!

AIRnet saves you up to
85% on installation time



EASY

With AIRnet there is no need for heavy tools or extra manpower.



TAKE IT EASY

- ▶ One person can safely handle and install AIRnet. While solid and robust, aluminum AIRnet pipes weigh five times less than galvanized pipes.
- ▶ AIRnet is installed with simple tools. No welding, gluing or crimping is required. Welding or lathe machines are a burden of the past.
- ▶ AIRnet offers a full scope of materials including pipes, fittings and accessories.

PF SERIES: EASY DOES IT!

- ▶ Connect AIRnet to a threaded system with the innovative Adaptor Union Nut.
- ▶ AIRnet PF series is the first in the industry to offer a standard built-in Conductivity Strip.



FROM DESKTOP TO WORKSHOP

- ▶ AIRnet Planner 24/7 is a unique software tool to design and quote an AIRnet installation.
- ▶ It provides a detailed network structure and calculates the pressure drop.
- ▶ AIRnet planner 24/7 creates the bill of material, lists the exact number of pipes and fittings needed and calculates the assembly time.

All it takes: one pair of hands
+ a simple set of tools



RELIABLE

The reliability of AIRnet is not a hollow promise; it is a solid 10-year guarantee.



THE RIGHT STUFF

- ▶ AIRnet consists of aluminum and polymers, highly durable materials suitable for compressed air as well as for vacuum and nitrogen gas.
- ▶ AIRnet is resistant to corrosion, mechanical shocks, thermal variations and outdoor weather conditions.
- ▶ AIRnet offers consistently clean quality air, protecting the downstream manufacturing process and contributing to equipment longevity.
- ▶ The AIRnet leak-resistant connections offer superior sealing.
- ▶ The low friction factor of aluminum and the seamless connections minimize pressure drop.
- ▶ Low pressure drop and a bigger inner diameter result in high efficiency.

0.013 bar absolute to 16 bar absolute
-20°C to +80°C
Visible Correct Torque Indication
Silicone Free***
PED/ASME/ASTM
QUALICOAT Certified

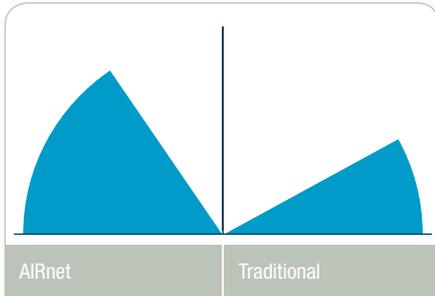
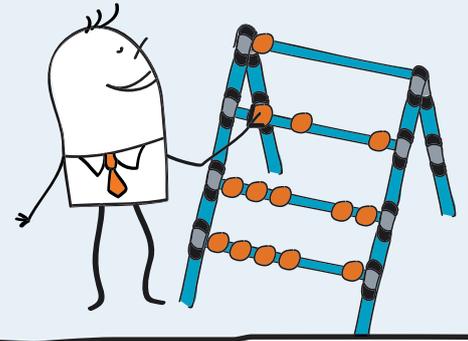


AIRnet is corrosion-free
and leak-proof

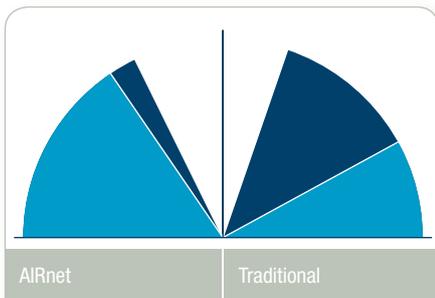


THE BOTTOM LINE

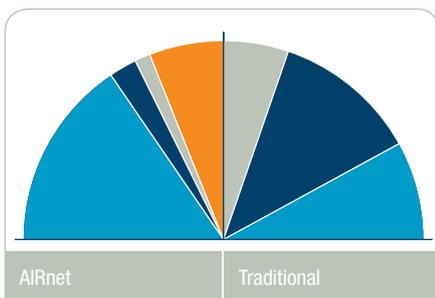
More good news:
AIRnet offers lots of savings.



If you look at the total cost of ownership of a piping system, AIRnet proves to be the most cost-effective solution. Let's do the math.



AIRnet is installed up to 85% faster and by one single technician, reducing the labor cost. All system extensions and modifications can be done equally fast.



In a compressor installation, a 1 bar pressure drop leads to 7% more energy consumption. AIRnet offers minimal pressure drop and thus more savings. The leak-resistant and corrosion-free pipes and fittings prevent downtime and ensure high efficiency.

- Material Cost
- Labor
- Leaks and Pressure Drop
- SAVINGS

AIRnet effectively reduces the cost of ownership of your piping system*

*Calculators are available to compute your potential savings!

AIRnet is a compressed air piping system that delivers quality air exactly where you need it, from compressor to the point of use.

PRODUCT RANGE

Diameter pipes and fittings	20, 25, 40, 50, 63, 80, 100, 158
Pipes	blue, green, straight 6 meter, straight 3 meter, S-bend, U-bend
Fittings	straight connections, reductions, tee, elbow 45°, elbow 90°, end cap, valves, quick drop, nipple, adaptor union, flange, threaded fittings
Fixtures	pipe clip, pipe clip spacer, valve support, flange support, pipe support/hanging solutions
Tools	spanner, drill bit, drill bit holder, pipe cutter, pipe cutter spare blade, deburr, torque wrench, slide fluid
Accessories	hose, conductivity strip, flange nuts and bolts, threaded couplings

PERFORMANCE CRITERIA



- ▶ For compressed air, vacuum and nitrogen gas
- ▶ Vacuum level: 0.013 bar abs
- ▶ Operating pressure:
 - 20-50 mm & 100 mm (3/4"-2", 4"): max 16 barg (232 psig)
 - 63-80 mm (2 1/2"-3"): max 13 barg (188 psig)
- ▶ Operating temperature limits:
 - 20-50 mm & 100 mm (3/4"-2", 4"): -20°C to 80°C (-4°F to 176°F)
 - 63-80 mm (2 1/2"-3"): -20°C to 70°C (-4°F to 158°F)
- ▶ Lowest allowable pressure dewpoint: -70°C (-94°F)
- ▶ Resistant to the effect of compressor oils (mineral oil/PAO based/Ester based oils)
- ▶ AIRnet pipes are resistant to direct UV radiation and fittings are resistant to indirect UV radiation
- ▶ Corrosion-free
- ▶ Leak-resistant
- ▶ Compatible with oil-free and oil-injected compressors
- ▶ For indoor installation (protected against direct sunlight, rain, snow or wind)

FITTINGS

	PF Series Polymer	Aluminum	Steel-Aluminum
Diameter	20-50 mm (3/4"-2")	63-80 mm (2 1/2"-3")	100 mm (4")
Material	PA6 with 30% fiberglass injection	Aluminum alloy EN-AB46100	Material clamp: sheet metal steel S355MC, acc EN10149-2 Fitting: cast aluminum AISi9Mg
Grip ring	Stainless steel	Stainless steel	Stainless steel AISI 30
Seal	Rubber NBR 70SH	Rubber NBR 70SH	Rubber NBR 70SH



AIRnet FITTING DESIGN

Diameters 20 - 50 mm (3/4 - 2") - PF Series



- 1 Strong-grip internal design**
Superior sealing, flexible grip ring and fool proof engineering design
- 2 Specific nut design**
Push-In, Pre Torque with standard hexagon nut profile
- 3 Specific BODY design**
Light weight, slim body with Easy to see Torque Indication
- 4 Specific inlet guide**
For easier pipe insertion and perfect alignment
- 5 Parts identity**
Part number and diameter are embossed

Diameters 63 - 80 mm (2 1/2 - 3")



- 6 Strong-grip internal design**
New design increasing grip, strength and safety (with stainless steel clinch ring)
- 7 Specific nut design**
Notches enable you to tightly secure the AIRnet spanner, without damaging the nut itself
- 8 Specific body design**
Very large inner body diameter eliminates the flow resistance and pressure drop
- 9 Specific inlet guide**
For easier pipe insertion and perfect alignment

Diameter 100 mm (4")

- 10 Strong-grip internal design**
New design concept for large diameter provides optimum grip performance (with stainless steel clamp-grip)
- 11 Specific nuts & bolts design**
4 sets of bolts and nuts with unique safety pin ensures 40 Nm grip
- 12 Specific body design**
Made up of corrosion resistant sheet metal to ensure light weight and compact design
- 13 Specific seal system**
Sealing system (seal + seal holder) is specially designed for compressed air or vacuum and ensures leak free piping system
- 14 Parts identity**
Part number and diameter are embossed



fast

Thanks to a smart design and low weight materials, AIRnet can be installed up to 85% faster than conventional systems.

easy

AIRnet pipes and fittings are assembled in just a few steps by a single installer, without the need for heavy machinery.

reliable

The durable, corrosion-free AIRnet pipes and fittings come with a 10-year warranty. Low friction and seamless connections minimize pressure drop.

Your Dealer