

AIRnet
aluminium
**Product
Information**

AIRnet is a reusable aluminum piping system designed in line with EN 13480-3 to deliver a fast, easy, and reliable distribution network for Compressed Air, Nitrogen, and Vacuum. AIRnet technologies and innovations are based on technical expertise gained from more than 140 years of experience with pressurized air applications and equipment.



PIPES

20 (3/4") - 25 (1") - 40 (1 1/2") - 50 (2") - 63 (2 1/2") - 80 (3") - 100 (4") - 158 (6") mm

Applications	Compressed Air and Vacuum	EN standard
Additional Gasses	Nitrogen, Helium, Argon, Neon, Xenon and Krypton	
Material	Extruded aluminum alloy EN AW-6060 T6 (similar to alloy 6063T5)	EN 755-2 (ASTM B241)
Safety factor	4 for all diameters (burst pressure)	(Calculated according to ASME B31.1)
Working pressure	Max 16 bar(g) (Max 232 psig) (D158: max 13 bar (188 psig) acc. ASME B31.1)	
Working temperature	-20°C to 80°C (-4°F to 176°F)	
Vacuum level	13 mbar(a) (0.189 psia)	
Dewpoint	Lowest allowable pressure dewpoint is -40°C (-40°F)	
Outside treatment	Polyester powder paint (QUALICOAT certified)	
Inside treatment	Chrome free conversion treatment	
Colors	Blue RAL 5012, Green RAL 6018 and Grey RAL 7001	



FITTINGS
20 (¾") - 25 (1") - 40 (1 ½") - 50 (2") mm (PF Series)

Connection	Push to fit technology	EN standard
Materials	Engineered polymer PA6 - GF30 fiberglass reinforcement Aluminum high pressure die casting EN AC-46100 (Similar to A03830) Wrought aluminum alloy EN AW-6026 (Similar to alloy 6082)	EN 1706 (ASTM B85) EN 755-2 (ASTM B221)
Seal fittings	NBR 70 Sh A (PTFE coating on pipe seal)	EN 755-2 (ASTM B241)



FITTINGS
63 (2 ½") - 80 (3") mm (Black Series)

Connection	Torque to grip technology	EN standard
Materials	Aluminum high pressure die casting EN AC-46100 (Similar to A03830) Aluminum permanent mold casting EN AC-43100 (Similar to A13600) Wrought aluminum alloy EN AW-6026 (Similar to alloy 6082)	EN 1706 (ASTM B85) EN 1706 (ASTM B85) EN 755-2 (ASTM B221)
Seal fittings	NBR 70 Sh A	



FITTINGS
63 (2 ½") - 80 (3") mm (PM Series)

Connection	Torque to grip technology, pre marked	EN standard
Materials	Aluminum high pressure die casting EN AC-43400 (similar to A360) Wrought aluminum alloy 6082	ASTM B85 / EN 1706 ASTM B221
Seal fittings	NBR 70 Sh A	



FITTINGS
100 (4") - 158 (6") mm

Connection	Bolt clamp technology	EN standard
Materials	Aluminum permanent mold casting EN AC-43100 (Similar to A13600) Stainless Steel EN 1.4301 (Similar to alloy 304)	EN 1706 (ESTM B85) EN 10088-2 (AISI 304)
Seal fittings	NBR 70 Sh A	



FITTINGS

100 (4") - 158 (6") mm (Quickdrops)

Connection	Bolt clamp technology Torque to grip technology	EN Standard
Materials	Aluminium high pressure die casting EN AC-44500 (similar to A413) Engineered polymer PA6 - GF30 fiberglass reinforcement	EN 1706 (ASTM B85)
Seal fittings	NBR 70 Sh A (PTFE coating on pipe seal)	

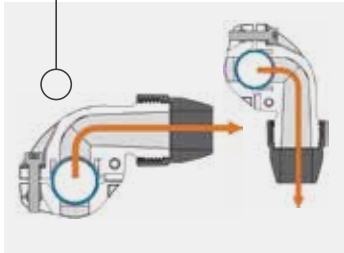


Guarantee
10
years



AIRnet is fast and easy to install and flexible for the future

Quickdrop design safeguards leaktight and condensate free droplines



Time and tooling

- Quick connections with no need to crimp, thread, solder or glue the pipe
- No heavy tooling or machinery required
- PF series and PM series can be connected to any existing network via simple use of adaptor unions and nipple sockets
- PF series is assembled by hand, a push of the pipe into the fitting is all it takes

Modularity

- Easy to handle and easy to work with lightweight materials
- Modular design supports extensions and modifications to meet new demands
- Components are interchangeable and reusable after disassembly
- Quickdrops are easily mounted, both horizontally and vertically

Durable and corrosion resistant materials



White torque indicators (PF Series)

AIRnet is reliable, safe, and maintenance free

Sustainability

- Optimized inner body design minimizes flow resistance and pressure drop in the fittings
- Low friction factor and seamless connections minimize pressure drops in the pipe network
- Superior sealing technology ensures a leak free system and maintains performance over time
- Durable and corrosion resistant materials offers a maintenance free system

Safety

- Safety factor of 4 for all diameters (burst pressure)
- Camera control and automatic assembly guarantee zero defect manufacturing
- Plastic components and pipe clips comply to UL 94 HB and UL 94 V-2 for flammability
- Torque indicators ensure sufficient torquing