



“

AIRnet is a state of the art modular “**air distribution system**”  
designed to deliver a **fast, easy and reliable** distribution network

”

## Applications

Compressed air

Vacuum

Nitrogen

Inert gases



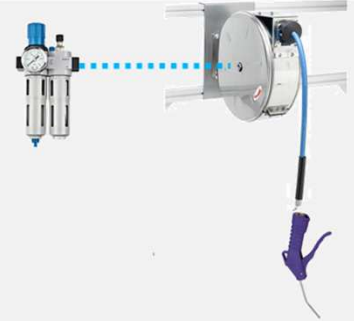
### AIRNET ALUMINUM



### AIRNET STAINLESS STEEL



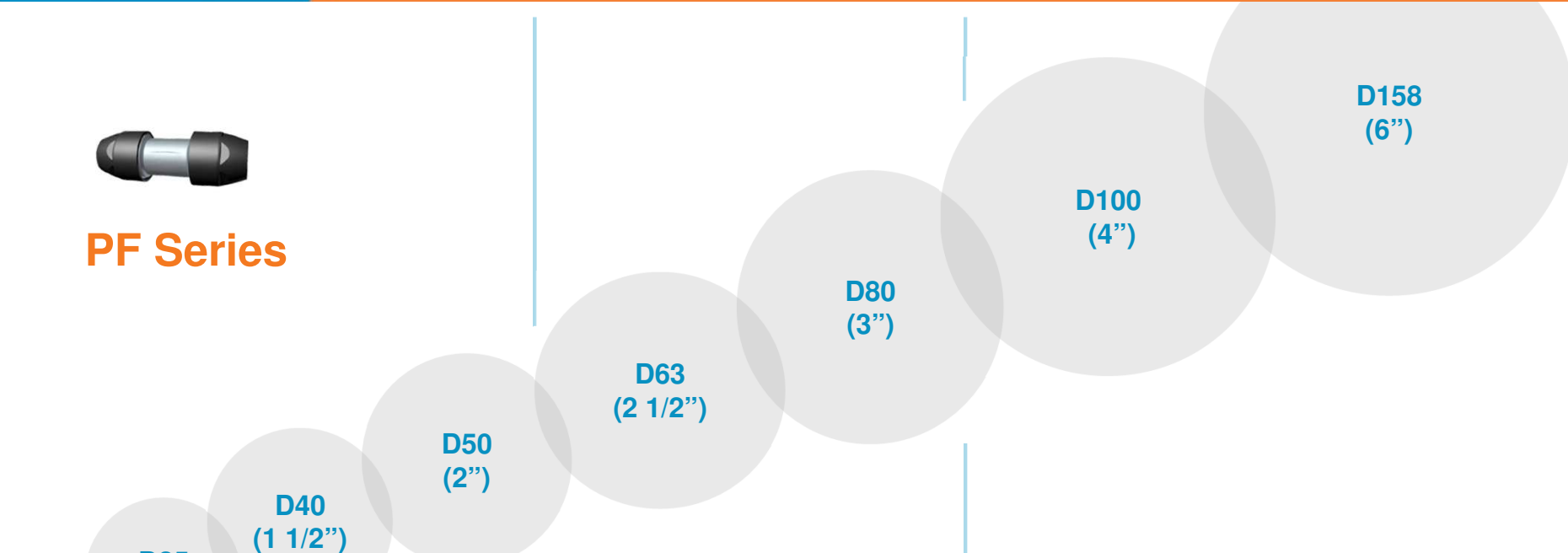
### AIRNET POU



# ***AIRnet ALUMINIUM***



### PF Series



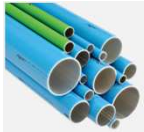
### Black Series



### D100 / D158







**Material** Extruded aluminum alloy EN AW-6060 T6



**Working pressure** Max 16 bar (g) – metric  
Max 232 psig – imperial



**Connection** Push to Fit technology (PF)  
**Material** Engineered polymer fiberglass reinforcement



**Working temp** -20 Deg C to 80 Deg C  
-4 Deg F to 176 Deg F



**Connection** Torque to grip technology  
**Material** Aluminum high pressure die casting



**Vacuum** 13 mbar (a)  
0.189 psia (29.5 HgV)



**Connection** Bolt clamp technology  
**Material** Aluminum permanent mold casting

## Conventional piping system

- Rust
- Internal contamination
- Product spoilage
- Thickness reduction
- Leakages
- Higher friction factor
- $\Delta P$  Increase
- Modifications cost is very high which increases overall maintenance cost
- No guarantee



## AIRnet

- + Polyester powder paint (Qualicoat certified) ensures 100% rust proof system
- + Smooth internal surface with chrome free conversion treatment
- + Clean air due to non-corrosive properties
- + Due to the non-corrosive properties, there is no impact on the thickness
- + Special seal fittings ensure leak tight system
- + Internally treated to minimize the frictional losses
- + The fittings are designed with pipe inlet guide to ensure the smooth flow on the bends which ensures minimum  $\Delta P$  across the system
- + Modular system, light weight & 100% reusable; very low Total Cost of Ownership
- + Comes with a standard 10 years guarantee



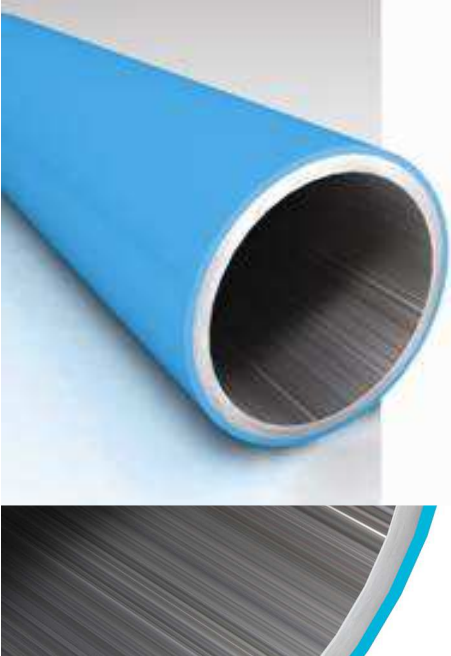


- + No leakages → energy savings
- + Lower pressure drop
- + No rusting / contamination → protects downstream equipments
- + Easy to modify / expand
- + Faster installation
- + 10 year guarantee
- + Turnkey solution





1. Few seconds required to cut the aluminium tube
2. Deburr and chamfrain
3. Unscrew the fitting nut
4. Tube greasing, optional
5. Push in the tube until stop
6. Tighten the nut by hand for 20-25 mm
7. Secure the tightening with spanner for larger diameters



**High initial friction factor**

**High initial  $\Delta P$**

**Friction factor increases with corrosion**

**Energy increases overtime**

**High leakage risk**



- No resistance to flow
- Friction factor constant over time
- Surface remains clean
- Fix leakage Quickly

- Test report En10204
- ISO 8573-1 certificate for particle & moisture content
- Silicone free statement
- Declaration of conformity
- Conductivity certificate
- Qualicoat
- Class 0



Class	Solid Particle Maximum number of particles per m <sup>3</sup>			Water Pressure Dew point (°C)	Oil (incl. Vapor mg/m <sup>3</sup> )
	0.1-0.5 micron	0.5-1.0 micron	1.0-5-micron		
0					
1	20 000	400	10	-70	≤0.01
2	400,000	6,000	100	-40	≤0.1
3	Not Specified	90,000	1,000	-20	≤1
4	Not Specified	Not Specified	10,000	3	≤5
5	Not Specified	Not Specified	100,000	7	Not Specified
6	Not Specified	Not Specified	Not Specified	10	Not Specified



- Class 1 : For solid particle content
- Class 2 : For dew point
- Class 0 : For oil vapors & aerosols



**The intake air should fulfill class 1 requirements**

**The intake air should fulfill class 0 requirements**

# ISO 8573-1 Class 0 certificate

**Industrial Service  
Energy and Environment**

TÜV Rheinland Energy GmbH  
51101 Köln

International Compressor Distribution n.v.  
Bloemesteinweg 957  
B-2610 Wilrijk  
Belgium

**Test certificate**  
Validation according ISO 8573-1:2010 Part 1:  
Contaminants and purity classes, AIRnet Piping

Tests regarding the contribution of the AIRnet piping to the vapor content in compressed air according to ISO 12500-2 were witnessed.

Witnessed tests have shown that the quality of the compressed air after a set-up made out of the complete range of Airnet components can be considered as

**Class 0 according to ISO 8573-1:2010**  
measured according to ISO 8573-5:2001 if the intake air fulfills these requirements as well.

This certificate is only valid for the single components which are specified in annex 1

i. V.   
Dr. rer. nat. Walter Dormagen

i. A.   
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Management board and  
Head office:  
Managing Director: Dirk Fenske  
Head office: Cologne  
Register court: Local Court,  
under registry number:  
Cologne, HRB 56171  
VAT ID: DE 814653669

**TÜVRheinland®**  
Precisely Right.

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21 March 2017

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# ISO 8573-1, 1:2 certificate

**Certificate of compliance to ISO 8573-1**

We the undersigned, AIRnet representative and SGS, confirm that the equipment, as described in the report of AIRnet nr. 9845058100, Ed.04 of 8/7/2016, respect ISO 8573-1:2010 under the testing conditions as described in the same report.

Based on testing, witnessed by SGS, respecting the ISO 8573 requirements regarding particle and vapour pressure dewpoint measurements, we confirm the following (for the details we refer to the report, mentioned above):

- **Solid particle content:** AIRnet piping respects ISO 8573-1:2010 class I with the condition that a purge is performed with compressed air after installation.
- **Vapour pressure dewpoint:** AIRnet piping respects ISO 8573-1:2010 class II depending on the relative humidity and temperature of the environment and the dryer selection.

AIRnet part numbers: all numbers listed in the catalogue.

AIRnet representative

David Pauwels  
Vice President Engineering and Technical Support  
Wilrijk, September 12th 2016

**AIRnet**

Representative SGS

Dirk Peeters  
Melsela, September 12th 2016

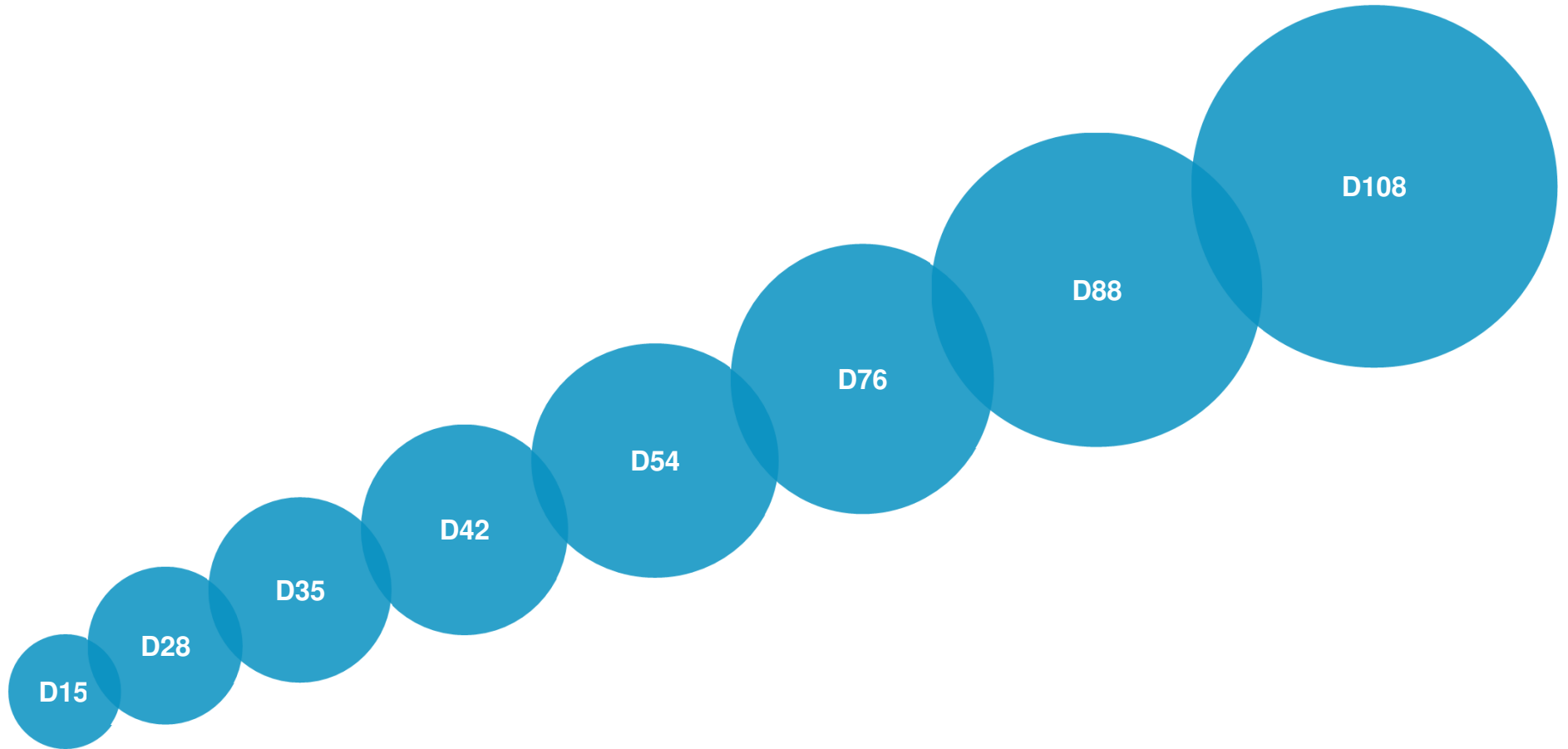
**SGS Belgium N.V.**

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Member of the SGS Group. Details: [www.sgs.com](http://www.sgs.com)

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# ***AIRnet STAINLESS STEEL***







## Working pressure

Max 16 bar (g) – metric  
Max 232 psig – imperial



## Working temp

-20 Deg C to 80 Deg C  
-4 Deg F to 176 Deg F



## Vacuum

13 mbar (a)  
0.189 psia (29.5 HgV)



## Press fit system

Max 16 bar (g) – metric  
Max 232 psig – imperial



## Sealing rings

FKM (FDA approved)



## Pipe material

SS 304L: Full range  
SS 316L: D15/28/42



## Fittings

SS 316L

- + No welding, no threading just “**push & press**”
- + No need for skilled & certified labor
- + 65% faster & cheaper to install compared to a welded system
- + Silicone free & Teflon free system
- + FKM sealing rings (approved by all international regulating bodies)
- + Stringent quality tests
- + ISO 8573-1 certified



**AIR** *NET*

**AIR** *NET*

**AIR** *NET*

*FAST | EASY | RELIABLE*

# ***AIRnet POU ACCESSORIES***



Hose reel



Spiral hose



Blow gun



Regulator



Rubber hoses



Filter + regulator + lubricator



Filter + regulator (FR)



Auto drains



PU tubes

For all the latest updates & access to the online catalog / documents, visit our website [www.airnet-system.com](http://www.airnet-system.com)



**AIRNET**

**AIRNET**

**FAST EASY RELIABLE**