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AIRnet Installation Instructions

Notice A: ISO 8573-1:2010

AIRnet fulfills the requirements of ISO 8573-1:2010 (1:2:0) provided that:

- A system purge is executed with compressed air after the installation, for at least 24 hours
- A properly sized certified point of use particle filter is used
- Only NSF approved lubricant 2810 0248 00 is used
- Class 0 valves are used
- The inlet air of the AIRnet piping system fulfills the requirements of ISO8573-1:2010 (1:2:0).

Without a point of use filter installed, AIRnet fulfills ISO 8573-1:2010 (2.2.0). AIRnet ball valves and butterfly valves are excluded from the certificate. When applicable, always check the compatibility of AIRnet components with the applied cleaning processes.

Notice B: Certified Installer

At AIRnet, we take pride in the quality and safety of our products. That's why we require that all installations are carried out by a certified installer, who is highly trained and equipped to handle all aspects of the installation process.

Notice C: Complete Comprehension

This comprehensive manual must be thoroughly read in its entirety in order to have a complete understanding of the AIRnet assembly process.



Operating Conditions

Operating Conditions

AIRnet pipes and fittings are designed to convey compressed air and vacuum. The system can also be used for nitrogen, helium, argon, neon, xenon and krypton.

AIRnet system can only be used to convey compressed air, Vacuum & inert gases and the allowed medium can be in direct contact with the final product and process. However, AIRnet system cannot be used for conveying the finished products, for example, chemicals, food products, cement etc.

AIRnet pipes and fittings must only be used within the pressure and temperature specifications referred to in the AIRnet Product Information Sheet.



AlRnet fittings are sensitive to direct UV radiation. In case of direct exposure, shield the fittings.



AIRnet pipes and fittings should be protected against rain, snow, and guano.



AIRnet system must be appropriately protected against violent impacts.



AIRnet pipes and fittings are not suitable for direct contact with soil. A watertight PVC pipe suited for underground or outside installations can be installed around the AIRnet pipe.

AIRnet aluminium supports pressure dewpoints up to -40°C and is expected to be operated in C3 and below corrosivity categories according to EN ISO 12944-2.



AIRnet pipes and fittings should not be used as support for electrical equipment, cables or earth conductors.



AIRnet pipes should never be connected directly to a source of vibrations (in these cases, use hoses instead).

Ensure accessibility of the AIRnet system for possible future expansion or maintenance.

Pressure relief valves must be installed where needed to guarantee that the working pressure cannot exceed the maximum working pressure of the AIRnet system.

AIRnet installations in explosive environments



AlRnet fittings are non-conductive and must be bonded with an electric wire (except the D158 / 6" equal socket and the D100 / 4" equal socket). Please refer to page 39 for more information

AIRnet installations in explosive environments must always be earthed.

AIRnet bonding and the earthing must be checked at frequent intervals to secure that the system cannot be electrically charged.

Cutting, deburring and assembly of AIRnet pipes may create sparks. Necessary precautions in explosive atmospheres must be taken.



Safety Instructions

Safety Instructions



AlRnet is not meant to bear weight beside its own weight. Heavier accessories incorporated into the AlRnet system (like filters or valves) need proper supporting.



Do not disassemble the inner parts of the nuts of the AIRnet fittings.



Do not use any other brand fittings or pipes in combination with AIRnet aluminum products.

There are AIRnet parts in the portfolio to interconnect with other piping systems using standard threaded (ISO, NPT) or flange connectors (DIN, ANSI).



Please consider the potential galvanic corrosion when combining parts with different material.

Before any installation, adjustment, repair work or other non-routine checks, relieve the AIRnet system of pressure and effectively isolate the system from all sources of pressure.



Installation, adjustments and repair work of an AIRnet system must be strictly in line with the instruction guides given in this installation manual.



Installers must use the necessary protection means (PPEs). When working at heights, use a harness for personal protection, and ensure that tools are securely fastened to prevent them from falling.

Installers must comply to all local safety requirements related to the application(s) in scope. Special care must always be taken to prevent suffocation risks when working with other gases than air.

Please conduct an LMRA (last minute risk assessment) before commencing an AIRnet installation.



Only genuine AIRnet fittings and tools should be used when installing, adjusting or repairing an AIRnet system.

All plugs and caps must be removed before installing the AIRnet pipes.



Check the surface of the AIRnet pipes before installing. There should be no scratches, abrasions, dents, burs, etc.



Use only solvents or chemicals which do not damage the materials of AIRnet. Please consult page number 14 in this document. If in doubt, contact your AIRnet rep if you need more information about compatible cleaning agents.



Before using the AIRnet system, installers must ensure that all necessary test controls and applicable rules for the specific installation are complied with local site conditions.

Never use damaged AIRnet fittings or tools.



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, Vacuum, Nitrogen, Helium, Argon, Neon, Xenon and Krypton. AIRnet technologies and innovations are based on technical expertise gained from more than 140 years of experience with pressurized air applications and equipment.



PIPES20 (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	64bar - 4x MAWP for all diameters (burst pressure)	(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 (according to QUALICOAT Standards)	
Inside treatment	Chrome free conversion treatment	
Colors	Blue RAL 5012, Green RAL 6018 and Grey RAL 7001	

^{*} Except for Black Series system, please refer to page 24.





PF SERIES FITTINGS 20 (3½") - 25 (1") - 40 (1 ½") - 50 (2") mm

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)



PM SERIES FITTINGS 63 (2 ½") – 80 (3") mm

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	



BIGGER DIAMETERS 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 (ASTM B85) EN 10088-2 (AISI 304)
Seal fittings	NBR 70 Sh A	









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

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)	



BLACK SERIES FITTINGS 63 (2 ½") - 80 (3") mm

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	

www.airnet-system.com



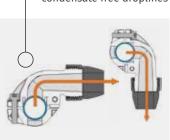






AIRnet is fast, easy to install and flexible for the future

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 (64 bar 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



LMRA (Last Minute Risk Assessment)

This checklist is a risk assessment to be performed on-site at the customer and must be preceded by a detailed risk assessment.



STEP 1: EVALUATION BEFORE THE START OF WORK

STEP I: EVALUATION BEFORE THE START OF WORK	YES	NO	N/A
Do I know what to do and how?			
Am I trained to do this kind of work?			
Is my work equipment suitable and in good condition / inspected?			
Do I have the necessary PPE, and do they offer appropriate protection?			
Do I have a work permit that allows me to start?			
Is my working environment free of slipping, tripping and/or falling hazards?			
Is my work environment sufficiently enlightened?			
Have I identified all energy sources and followed the Lock Out – Tag Out procedure?			
Do I know the VGM regulations of dangerous products that I am going to use?			
Is the atmosphere in and around my work environment safe? (confined space, explosion)			
Is the danger of falling objects excluded?			
Am I sufficiently protected against falls from height?			
Are the weather conditions good?			
Can I lift loads manually in an ergonomic way?			
Is my work environment defined?			
Is there regular supervision when I work in isolation?			
Am I aware of the risks of other activities in my work environment?			
Do I know the locations of first aid equipment (e.g. emergency shower, eyewash bottle)			
Do I know the locations of firefighting equipment (e.g.; extinguisher, reel)			
Do I know the alarm procedure and numbers in the event of a fire or accident?			
Do I know my escape route and evacuation site?			
Have I taken all measures to prevent environmental pollution?			

www.airnet-system.com



LMRA (Last Minute Risk Assessment)



	YES	NO	N/A
Did I read and understand the installation manual for AIRnet - www.airnet-system.com			
Is scaffolding and/or lifting equipment inspected and in good condition?			
Will the AIRnet system be installed within the limits of the product in terms of environment, pressure and temperature?			
Will the AIRnet system be used for the gasses mentioned in the technical datasheet OR has a written confirmation from the manufacturer been obtained that claims AIRnet can be used for this type of gas?			
Will the AIRnet system be properly earthed (electrically?)			
Did I check for any damage to the AIRnet material due to transport?			
Did I check if the tools used are in good condition and have been maintained as per requirement?			
Did I check if the right tools are available for carrying out the AIRnet installation?			

STEP 2: MEASURES TO ELIMINATE OR REDUCE EXISTING RISKS TO AN ACCEPTABLE LEVEL

STEP 3: PRESENT WHEN FORMATTING THIS LMRA

Name	Date	Signature



Commissioning Report

All AIRnet commissioning has to be registered in the F3 app!

Go to https://airnetinstructions.com/ to register your installation and get up-to-date information about AIRnet.

Commissioning data to be collected and submitted in the F3 app as shown below:

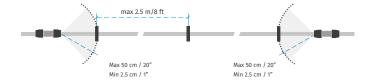
Certified installer:	Responsible AIRnet champion:		
Customer:	Commissioning date (dd/mm/yyyy):		
Customer address:			
Expansion of existing installation	New installation		
Before installation			
SAFETY All safety instructions at customer site have been acknowledged and applied. The AIRnet installation manual (latest version is available on the website: https://www.airnet-system.com/en) has been read and understood. The installation is carried out in accordance with the instructions in this manual. MEDIUM Compressed air Vacuum Nitrogen Other: TMAX "C / °F TMIN "C / °F TMIN "C / °F	AMBIENT CONDITIONS If installed outdoors: is the installation protected from Direct sunlight? Rain / snow / ice? Wind? NETWORK LAYOUT To ensure proper draining of condensate, pipes should be sloped at 1-2% and a drain point should be foreseen at every lowest point of the line. Ensure that pressure vessels are bolted to the floor, and that vibrations may not be transmitted to the AIRnet piping. Expansion loops Number of expansion loops: Longest straight line: m/ft		
Working pressure bar(g) / psi			

Installation

A pipe clip has been foreseen within 50cm (20") of every side of every fitting

☐ AND

A pipe clip has been foreseen every 2,5m (100") for longer stretches of pipe





Commissioning Report

All valves and flanges are supported by 2 pipe clips and a dedicated valve support	© Classic	Insertion depr have been che least 10% of fi	ecked on at	week Check
Torque markers have been verified on at least 10% of fittings For PF series 20mm (¾") to 50mm (2") - For PM series 63mm (2 ½") and 80mm (3") - For Bigger diameters 100mm (4") and 158mm (6").	© Check	Plack Series Verify torque re-torqueing a with the torqu and correspon - For Black serie ½") and 80mm (by all fittings ae wrench nding head. es 63mm (2	50 Nm 37 ft/lb
Commissioning				
1. Apply pressure of 1,5 l 2. Check if the pressure 3. Use leak finder spray and go back to step 1. 4. Increase pressure grad 5. Close the main valve a If the pressure is droppin 6. To be checked: 24h be Leaks / disconnections dete NO Yes, leaks Yes, discondent leaks No Yes, leaks Yes, leaks Yes, leaks Yes, leaks Yes, leaks	ifore handover cted during first pressurization as found connections cted during final pressurization as found	the line and the vessel of find the leak. Depress 5 minutes) end of the line for 30 r at 1,5 bar / 22 psi at working pressure	urize the systo	em, rectify the leak
Signatures				
AIRnet installer	AIRnet champion		Customer re	epresentative



Cleaning Products

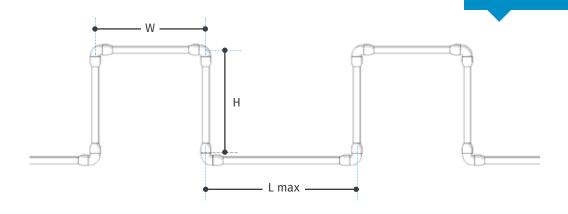
Product	Usage in the field	Aluminum of pipes	Blue coating on alu pipes	PF series fittings
Disinfection/ sterilization				
Ethyl Alcohol (ethanol) (60-90%)	Seldom, used on small external surfaces	Good	Good	Good
Isopropyl alcohol (isopropanol)	Seldom, used on small external surfaces	Good	Good	Good
Amphoterics		Good	Unknown	Unknown
Quaternary ammonium compounds (QAC)	environmental sanitation of noncritical surfaces	Good	Unknown	Unknown
Gluteraldehyde	high-level disinfectant for medical equipment, not for non-critical surfaces	Good	Unknown	Good (Butanal: partially resistant)
Formaldehyde	Seldom, produces carcinogenic fumes	Good	Unknown	Good (at concentration of 40% or less)
Whole Room disinfection/ sterilization				
QAC fogging		Unknown	Unknown	Unknown
Cleaning (components)				
surfactants (detergents in general)		Good	Unknown	Good
Ethylene diamine tetracetic acid (EDTA)		Unknown	Unknown	Good



Expansion loops

Long straight pipes will expand or contract due to temperature variations. To compensate for this effect, expansion loops are required. The number of expansion loops depends on the total length of the straight line and the maximum temperature variation. An expansion loop is a U-shaped construction that compensates the variation in length.

The below table clarifies the maximum possible straight distance vs. the temperature variation. When the length of the straight line exceeds the maximum, expansion loops are required to compensate for the variation in length.



	Ø20 mm / ¾"	Ø25 mm / 1"	Ø40 mm / 1½"	Ø50 mm / 2"	Ø63 mm / 2½"	Ø80 mm / 3"	Ø100 mm / 4"	Ø158 mm / 6"
н	1.5 m	/ 4.9 ft	2 m / 6.6 ft					
W	0.75 m	/ 2.5 ft	1 m / 3.3 ft					
Δt			Maximum distance between two expansion joints					
5°C / 9°F	211 m / 692 ft	168 m / 551 ft	187 m / 614 ft	150 m / 492 ft	119 m / 390 ft	94 m / 308 ft	75 m / 247 ft	47 m / 154 ft
10°C / 18°F	159 m / 522 ft	127 m / 417 ft	141 m / 463 ft	113 m / 371 ft	90 m / 295 ft	71 m / 233 ft	57 m / 186 ft	36 m / 118 ft
20°C / 36°F	107 m / 351 ft	85 m / 279 ft	95 m / 312 ft	76 m / 249 ft	60 m / 197 ft	47 m / 154 ft	38 m / 123 ft	24 m / 79 ft
30°C / 54°F	80 m / 262 ft	64 m / 210 ft	71 m / 233 ft	57 m / 187 ft	45 m / 148 ft	36 m / 118 ft	29 m / 94 ft	18 m / 59 ft
40°C / 72°F	64 m / 210 ft	52 m / 171 ft	57 m / 187 ft	45 m / 148 ft	36 m / 118 ft	29 m / 95 ft	23 m / 76 ft	14 m / 46 ft

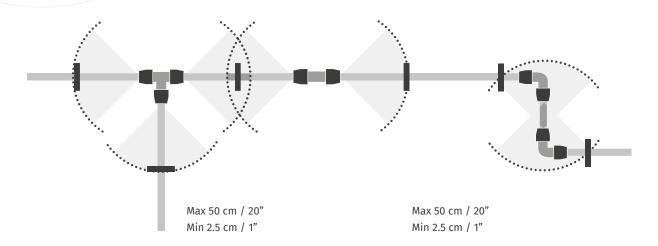
When using flexibles instead of rigid pipes as expansion loops, any length of flexible can be used.



Installation

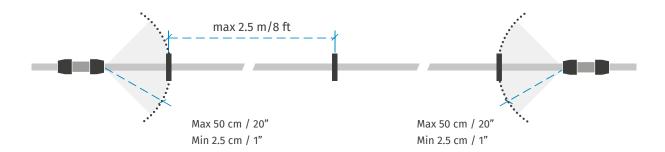
Pipe Clips Installation Diameters 20 - 158 mm / 3/4" - 6" Make sure the piping system is rigidly supported to the structure of the building so that movement due to external forces (e.g. wind) are prevented.

Rule #1 Every side of a fitting should have minimum 1 pipe clip within a distance of max 0.5 m / 20"



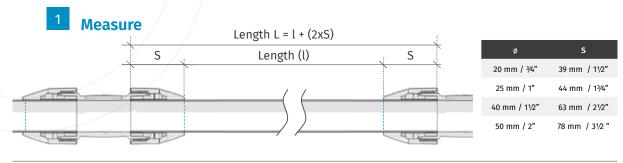
Rule #2

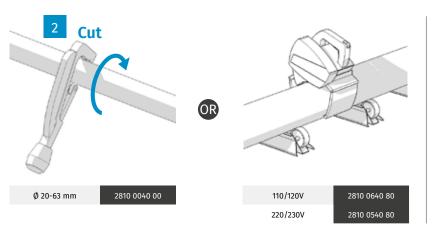
Maximum 2.5 m / 8 ft between 2 pipe clips

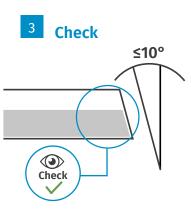


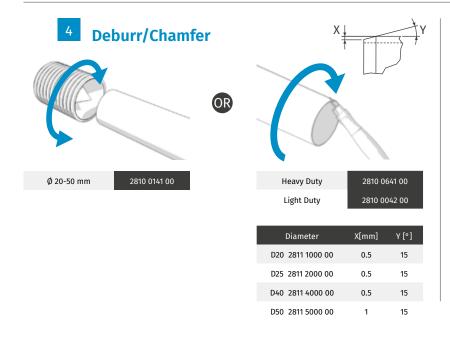


Installation - PF Series Diameters 20 - 50 mm / 3/4" - 2"









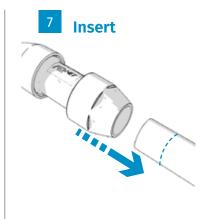


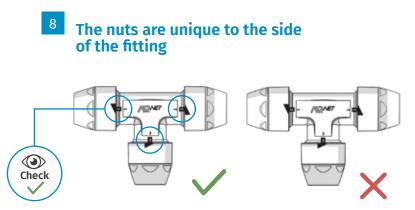


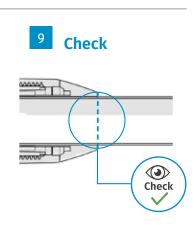
Installation - PF Series Diameters 20 - 50 mm / 3/4" - 2"













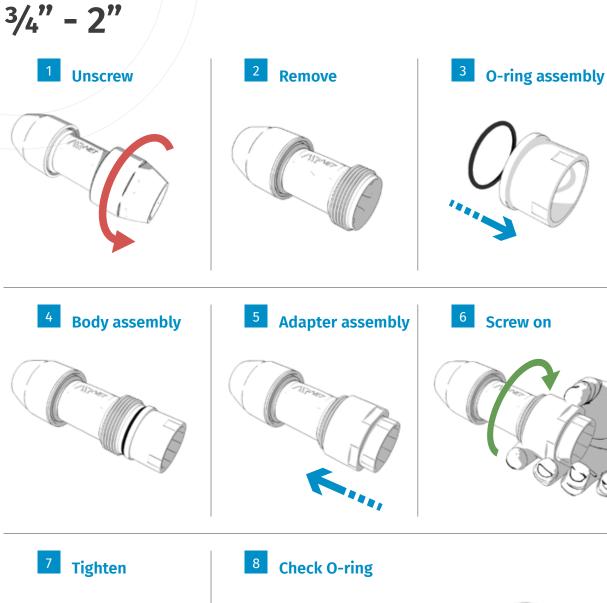


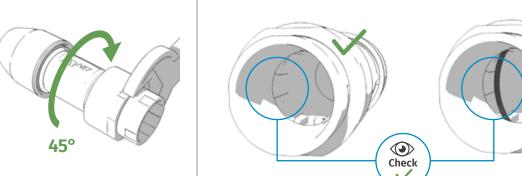


For updated and latest information on the list of chemicals that affects AIRnet, please refer to document number 2946 2422 00.



Installation - Adapter Union PF Series Diameters 20 - 50 mm / 3/4" - 2"



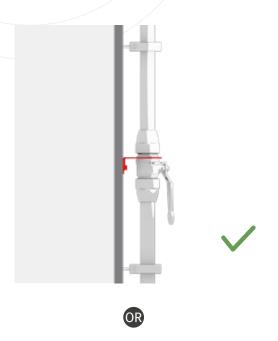


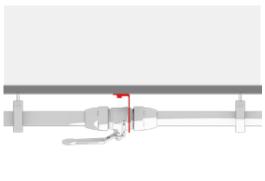


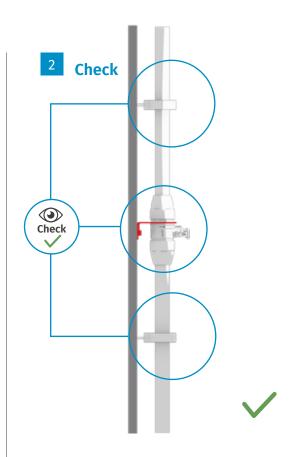
Installation - Valve Installation PF Series Diameters 20 - 50 mm

/ 3/4" - 2"









(Optional: Check DCM code)



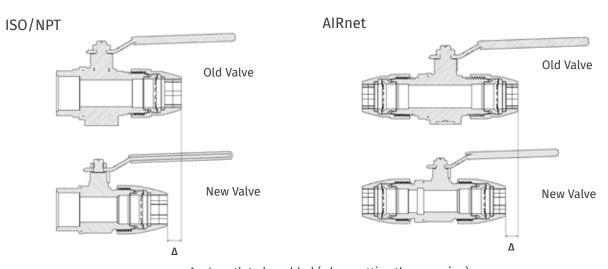


Installation - Valve Installation PF Series Diameters 20 - 50 mm / 3/4" - 2"

The new valves do not have the same dimension as the old valves. When substituting an old valve for the new version, you will need to use at least one new pipe having extra length according to the difference in length mentioned in the table shown below. The insertion depth of the new valve is the same as the previous one.

Δ	AIRnet	ISO/NPT	Δ	AIRnet	ISO/NPT
ø 20 mm	11 mm	7.3 mm	ø ³/4"	⁷ /16"	9/32"
ø 25 mm	14 mm	12.4 mm	ø 1"	9/16"	1/2"
ø 40 mm	1	8.3 mm	ø 1 ½"	1	1 1/32"
ø 50 mm	1	6.2 mm	ø 2"	1	1/4"

	Old Part Number	New Part Number	Description
	2811 1051 81	2811 1051 91	AIRnet Valve
D20	2811 1152 81	2811 1152 91	ISO Valve
	2811 1153 81	2811 1153 91	NPT Valve
	2811 2051 81	2811 2051 91	AIRnet Valve
D25	2811 2252 81	2811 2252 91	ISO Valve
	2811 2253 81	2811 2253 91	NPT Valve
	2811 4051 81	2811 4051 91	AIRnet Valve
D40	2811 4452 81	2811 4452 91	ISO Valve
	2811 4453 81	2811 4453 91	NPT Valve
	2811 5051 81	2811 5051 91	AIRnet Valve
D50	2811 5552 81	2811 5552 91	ISO Valve

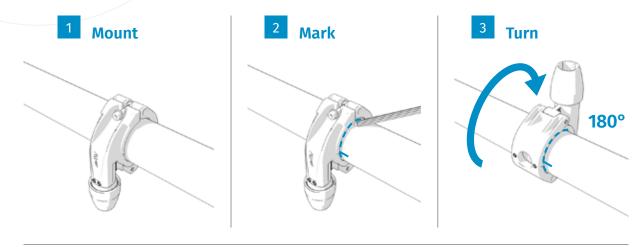


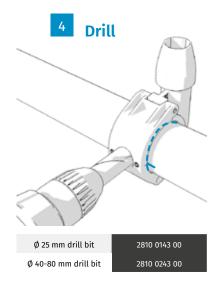
 Δ = Length to be added (when cutting the new pipe)

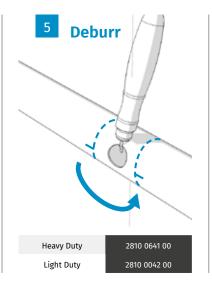


Installation Quickdrop Assembly Diameters 25 - 80 mm / 1" - 3"

System should be depressurized before installing the quickdrop!



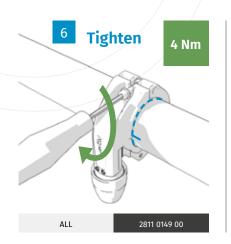


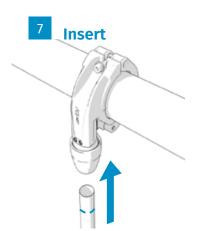


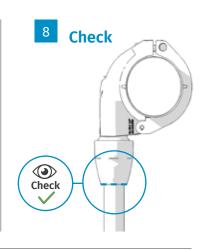
22



Installation Quickdrop Assembly Diameters 25 - 80 mm / 1" - 3"

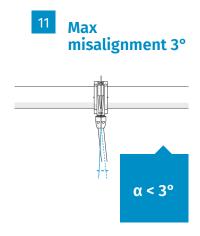


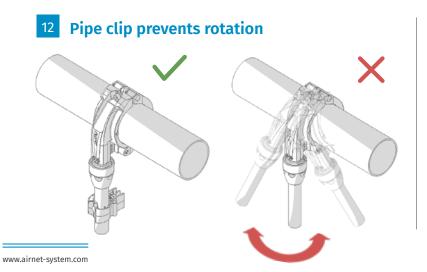






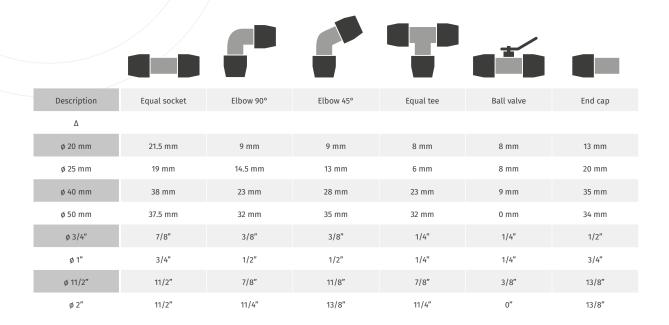


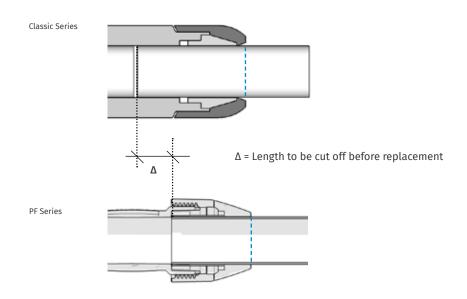






Installation - Replace Classic Series with PF Series Diameters 20 - 50 mm / 3/4" - 2"

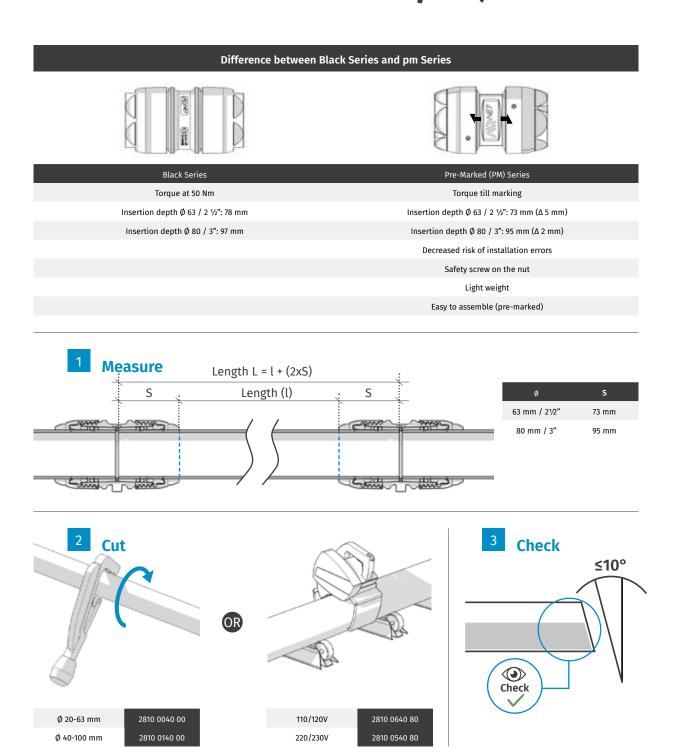




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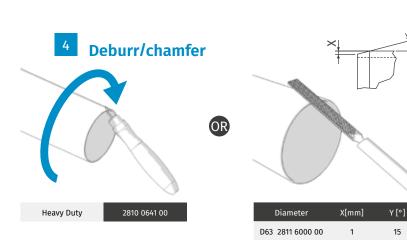
Installation - PM Series Diameters 63 - 80 mm / 2 ½" - 3"





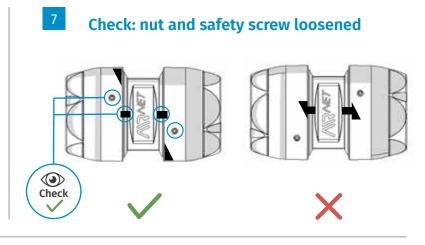
Installation - PM Series Diameters 63 - 80 mm / 2 1/2" - 3"

D80 2811 7000 00



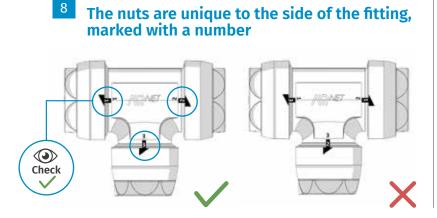


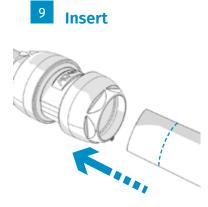




15

15



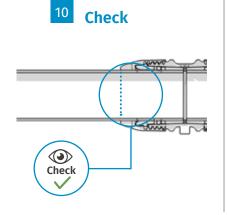


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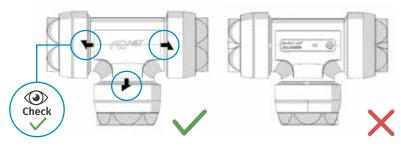


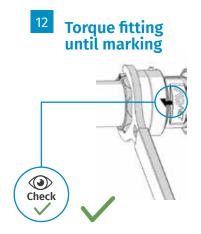
Installation - PM Series



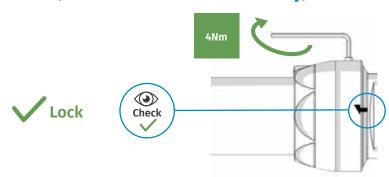


Fitting should be placed with markings visible from the ground



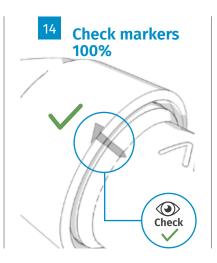


Use L key 3mm to lock the screw on the nut. (New feature for additional safety)



New torque wrenches / spanners:

63 mm spanner	2811 6028 90
80 mm spanner	2811 7028 90
63 mm body wrench	2811 6628 90
80 mm body wrench/63 mm adapter union nut wrench	2811 7728 90
80 mm adapter union nut wrench	2811 7728 91



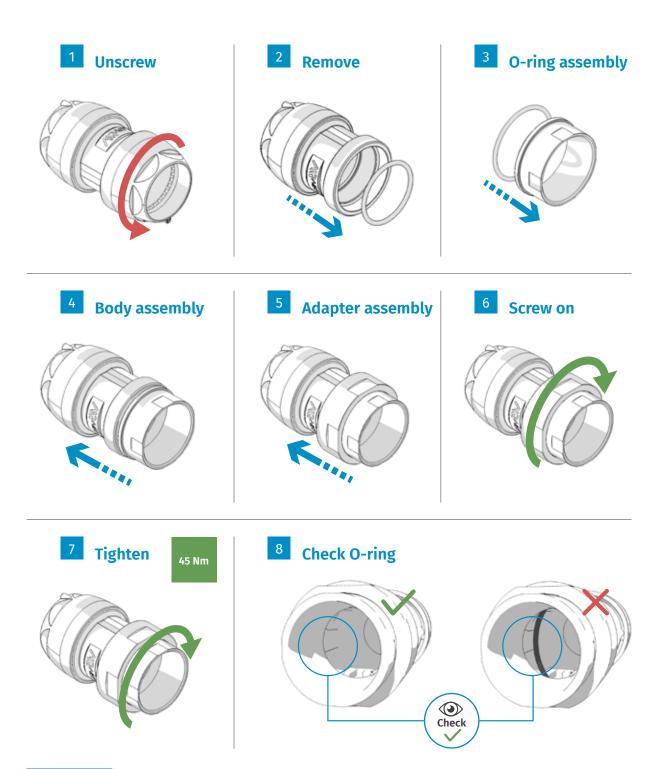
Max misalignment





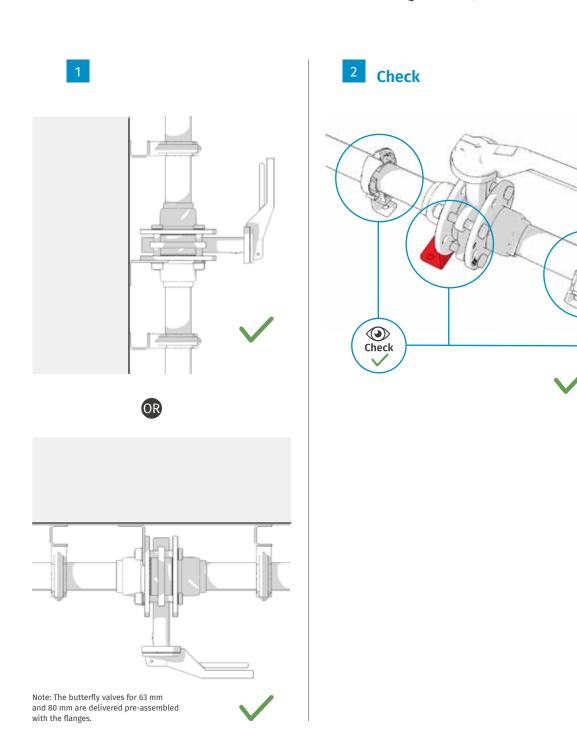


Installation - Adapter Union PM Series Diameters 63 - 80 mm / 2 ½" - 3"





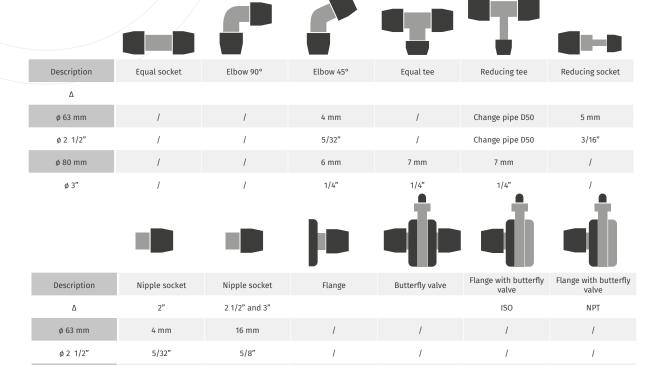
Installation - Adapter Union PM Series Diameters 63 - 80 mm / 2 ½" - 3"





You cannot reuse the black series fitting after it has been installed!

Installation - Replace Black Series with new PM Series Diameters 63 - 80 mm / 2 1/2" - 3"



6 mm

1/4"

8 mm

1/3"

12 mm

1/2"

Black Series

PM Series

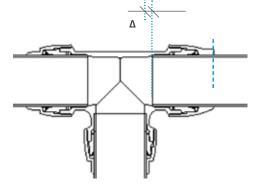
 Δ = Length to be cut off before replacement

11 mm

2/5"

14 mm

1/2"

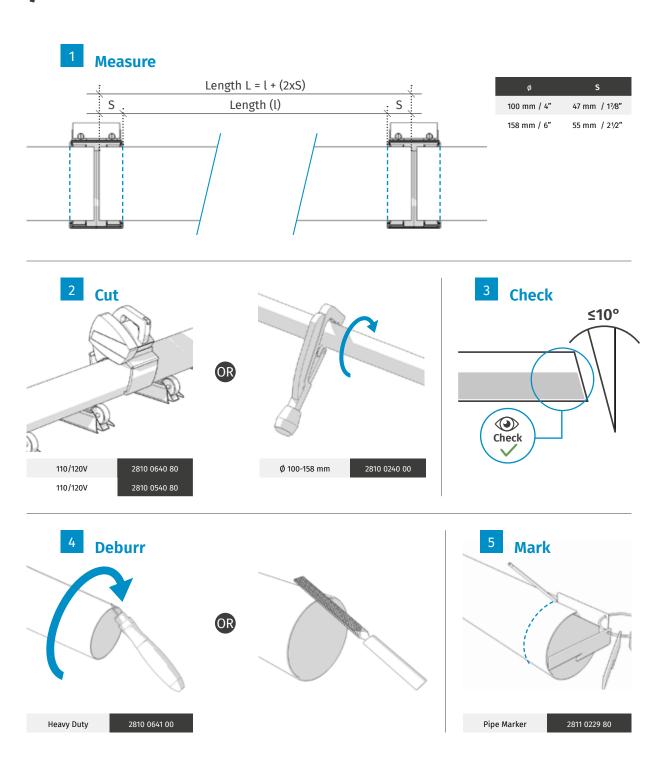


ø 80 mm

ø 3"

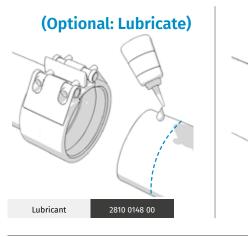


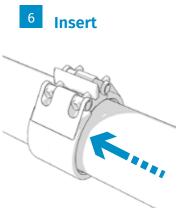
Installation - Diameters 100 - 158 mm / 4" - 6"

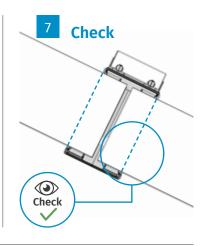


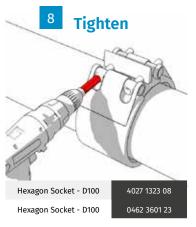


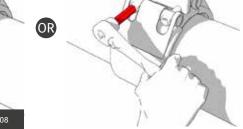
Installation - Diameters 100 - 158 mm / 4" - 6"

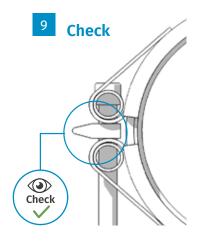




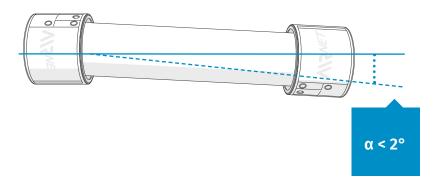








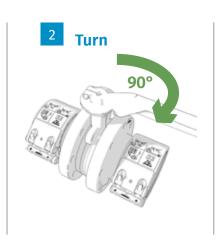
Max misalignment 2°

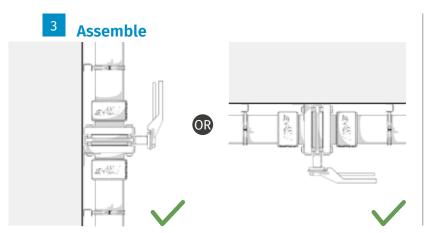


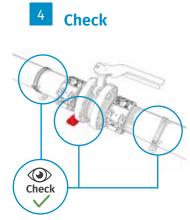


Installation - Butterfly Valve Diameters 100 - 158 mm / 4" - 6"

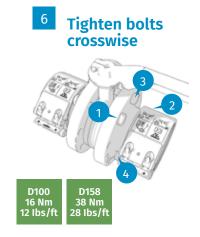


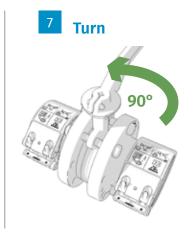








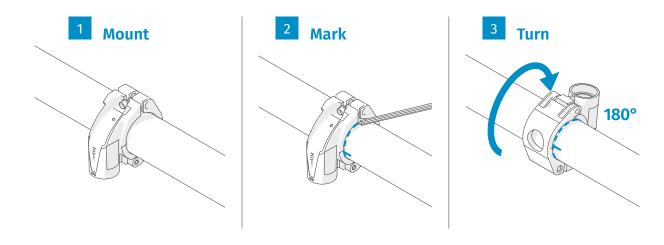


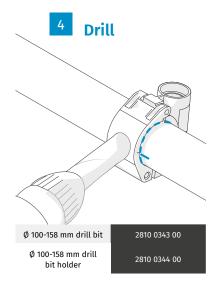


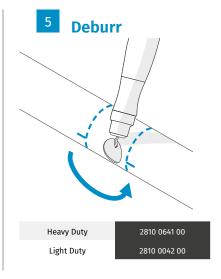


Installation - Quickdrop Assembly Diameters 100 - 158 mm / 4" - 6"

System should be depressurized before installing the quickdrop!

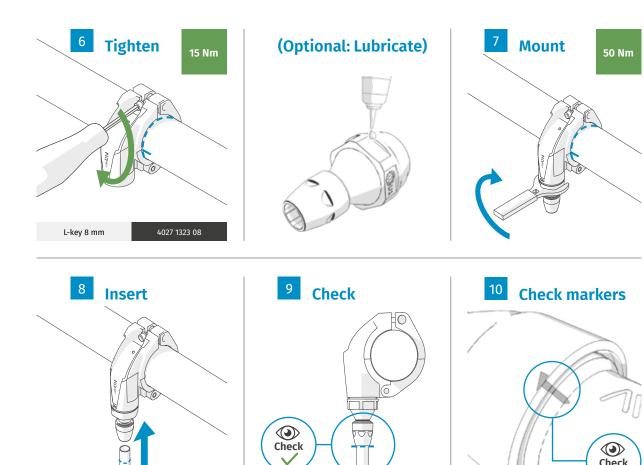






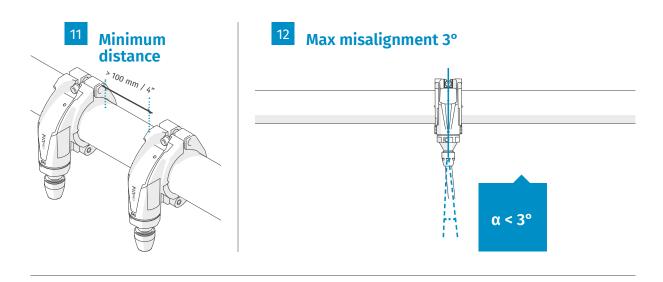


Installation - Quickdrop Assembly Diameters 100 - 158 mm / 4" - 6"

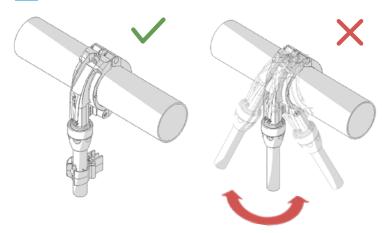




Installation - Quickdrop Assembly Diameters 100 - 158 mm / 4" - 6"

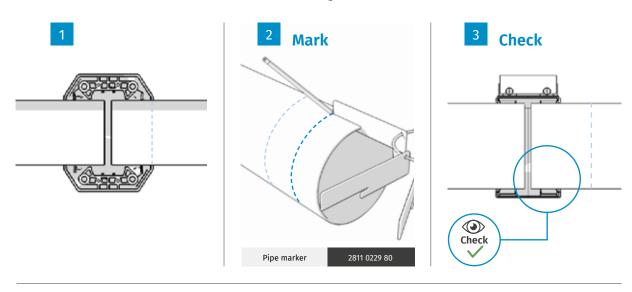


13 Pipe clip prevents rotation





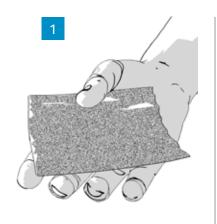
Installation - Replace old D100 Fittings with New D100 Fittings Diameter 100 mm / 4"



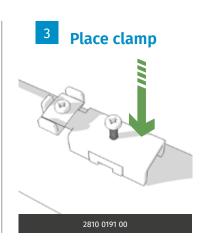
Note: When replacing the old D100 fitting with the new D100 fitting, only a new marking is needed, no cutting of pipes.

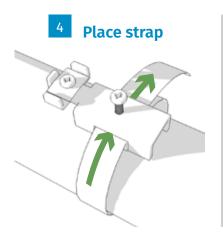


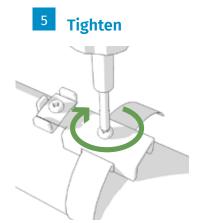
Installation - Mounting Conductivity Strap

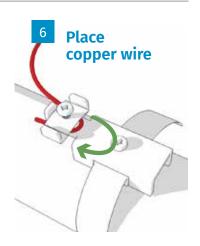


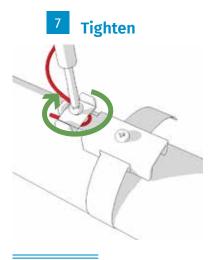


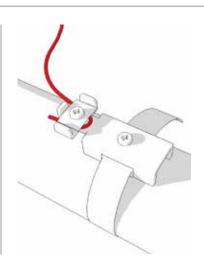












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