





# Version 1 -2021

Date of creation: November 2021

Please note that the latest version of the Aluminium Installation and Assembly Guide can be found on: <u>www.airnet-system.com</u>



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# **Operating Conditions**

#### **Operating Conditions**

AlRnet 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 or 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.



AIRnet 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 pipes and fittings 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 used to install around the AIRnet pipe.



AlRnet 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 (use hoses instead).

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

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

#### AIRnet installations in explosive environments



AIRnet 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 (PPMs). 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 (except for Black Series system, check page 24) 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 (¾") - 25 (1") - 40 (1 ½") - 50 (2") - 63 (2 ½") - 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)	
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 (<sup>3</sup>/<sub>4</sub>") - 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 (ASTM 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)	

#### \*\*\*\*



Quickdrop design

safeguards leaktight and

condensate free droplines



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

### 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 Black 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



# 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



### 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.

#### General

#### **STEP 1: EVALUATION BEFORE THE START OF WORK**

STEP 1: 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?			



### LMRA (Last Minute Risk Assessment)

AlRnet specific			
	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?			

#### 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**

Certified installer:	Responsible AIRnet champion:
Customer:	Commissioning date (dd/mm/yyyy):
Customer address:	
Expansion of existing installation	New installation

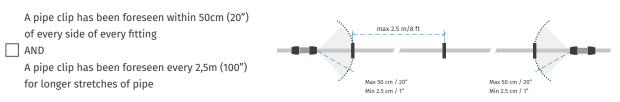
AMRIENT CONDITIONS

### **Before installation**

#### SAFETY

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

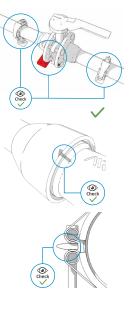
#### Installation



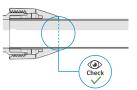


# **Commissioning report**

- All valves and flanges are supported by 2 pipe clips and a dedicated valve support
- 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")
  and Bigger diameters
  100mm (4") and 158mm (6").



Insertion depth markers have been checked on at least 10% of fittings



Verify torque by re-torqueing all fittings with the torque wrench and corresponding head. For Black series 63mm (2 1/2") and 80mm (3").



#### Commissioning

The installation has been tested according to the procedure below

- 1. Apply pressure of 1,5 bar / 22 psi to the system.
- 2. Check if the pressure is dropping between the end of the line and the vessel. If pressure remains stable, go to point 4.
- 3. Use leak finder spray or an ultrasonic leak detector to find the leak. Depressurize the system, rectify the leak
- and go back to step 1.
- 4. Increase pressure gradually (max 1 bar / 14 psi every 5 minutes)
- 5. Close the main valve and monitor the pressure at the end of the line for 30 minutes.
- If the pressure is dropping, go to point 3.
- 6. To be checked: 24h before handover

Leaks / disconnections detected during first pressurization at 1,5 bar / 22 psi

No No

- Yes, \_\_\_\_\_ leaks found
- Yes, \_\_\_\_\_ disconnections

Leaks / disconnections detected during final pressurization at working pressure

No

- Yes, \_\_\_\_\_ leaks found
- Yes, \_\_\_\_\_ disconnections

The pressure difference between the compressor room and final point of use is approved by the customer.

#### Signatures

AIRnet installer	AIRnet champion	Customer representative



**ANR**NET

Product	Usage in the field	Aluminum of pipes	Blue coating on alu pipes	PF series fittings	Brass couplings	NRB rubber seals of butterfly valves	Black coating on PM series	Stainless steel 304L	Stainless steel 316L	0-rings in SS fittings
Disinfection/ sterilization										
Ethyl Alcohol (ethanol) (60-90%)	Seldom, used on small external surfaces	Good	Good	Good	Good	Good	Resistant	Good	Good	Good
Isopropyl alcohol (isopropanol)	Seldom, used on small external surfaces	Good	Good	Good	Good	Good	Resistant	Good	Good	Good
Amphoterics		Good	Unknown	Unknown	Unknown	Unknown	Unknown	Good	Good	Unknown
Quaternary ammonium compounds (QAC)	environmental sanitation of noncritical surfaces	Good	Unknown	Unknown	Good	Unknown	Unknown	Good	Good	Unknown
Gluteraldehyde	high-level disinfectant for medical equipment, not for non-critical surfaces	Good	Unknown	Good (Butanal: partially resistant)	Good	Good	Unknown	Good	Good	Unknown
Formaldehyde	Seldom, produces carcinogenic fumes	Good	Unknown	Good (at concentration of 40% or less)	Good (at concentration of 40% or less)	Good (at concentration of 40% or less)	Good	Good	Good	Good (at concentration of 40% or less)
Whole Room disinfection/ sterilization										
QAC fogging		Unknown	Unknown	Unknown	Unknown	Unknown	Good	Unknown	Unknown	Unknown
Cleaning (components)										
surfactants (detergents in general)		Good	Unknown	Good	Good	Good	Good	Good	Good	Good
Ethylene diamine tetracetic acid (EDTA)		Unknown	Unknown	Good	Not resistant	Good	Unknown	Good	Good	Not resistant



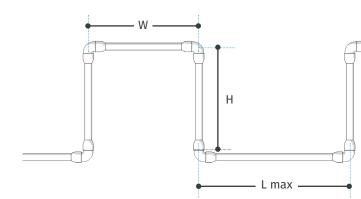




### **Expansion loops**

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.

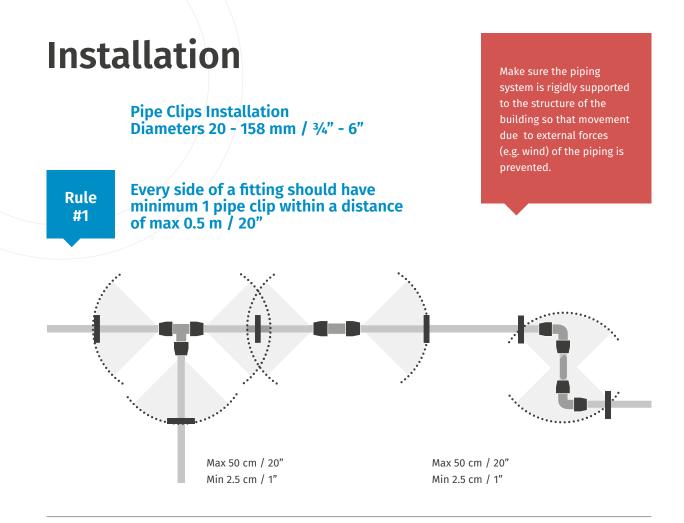
The below table clarifies the maximum possible straight distance vs. the temperature variation. When the length of the straight line exceeds the maximum, expansion loops are required to compensate for the variation in length.

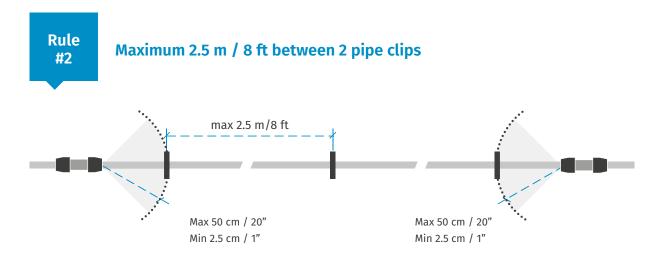


	Ø20 mm / ¾"	Ø25 mm / 1"	Ø40 mm / 11/2"	Ø50 mm / 2"	Ø63 mm / 21⁄2"	Ø80 mm / 3"	Ø100 mm / 4"	Ø158 mm / 6"
н	1.5 m ,	/ 4.9 ft			2 m /	6.6 ft		
w	0.75 m	/ 2.5 ft			1 m /	3.3 ft		
∆t			Maxim	um distance betw	een two expansion	joints		
5°C / 9°F	211 m / 692 ft	168 m / 551 ft	187 m / 614 ft	150 m / 492 ft	119 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 fixed pipes as expansion loops, any length of flexible can be used.



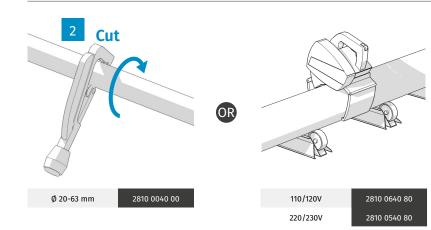


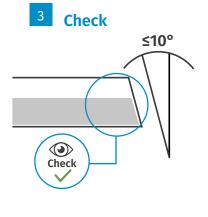




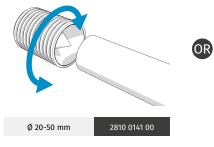
### PF Series Diameters 20 - 50 mm / 3/4" - 2"

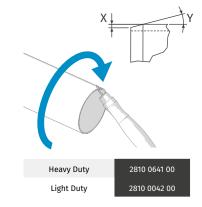
Measure	Length L = l + (2xS)	Ţ		
S	Length (l)	S	ø	S
		<u> </u>	20 mm / ¾"	39 mm / 1½"
	/ /	enne	25 mm / 1"	44 mm / 1³⁄4"
			40 mm / 1½"	63 mm / 2½"
	/		50 mm / 2"	78 mm / 3½ "





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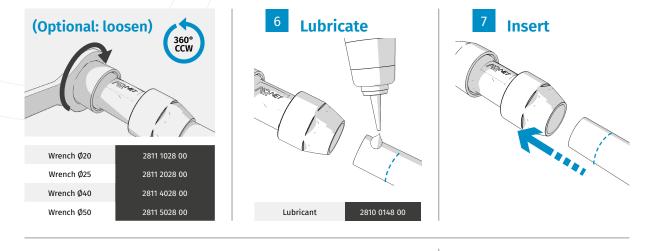


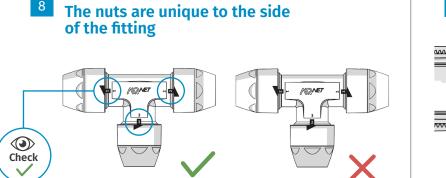


Diameter	X[mm]	Y [°]
D20 2811 1000 00	0.5	15
D25 2811 2000 00	0.5	15
D40 2811 4000 00	0.5	15
D50 2811 5000 00	1	15

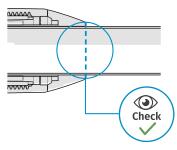


#### PF Series Diameters 20 - 50 mm / 3/4" - 2"



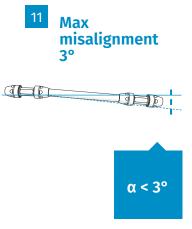








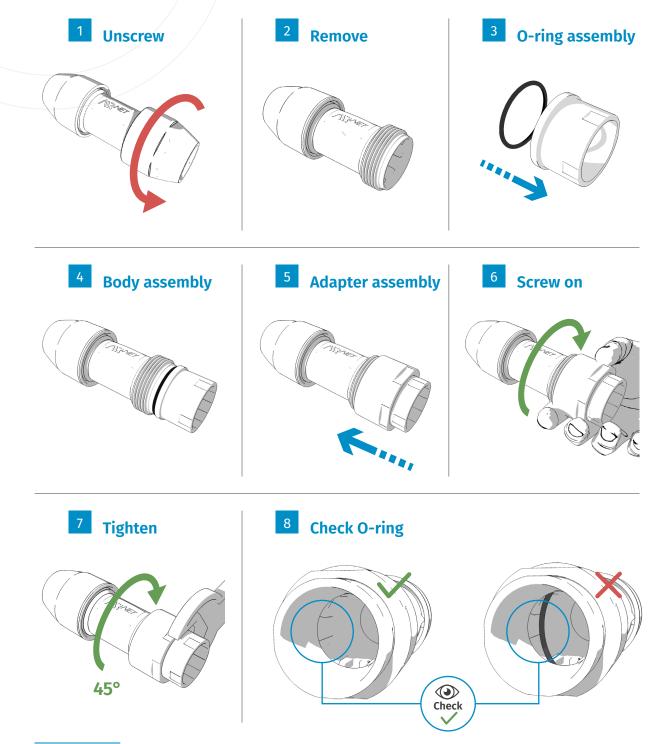




www.airnet-system.com



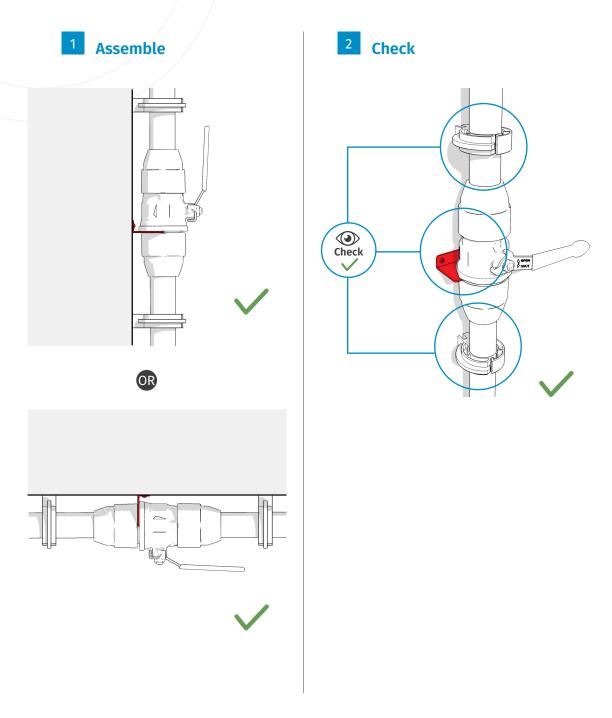
Adapter Union PF series Diameters 20 - 50 mm / ¾" - 2"



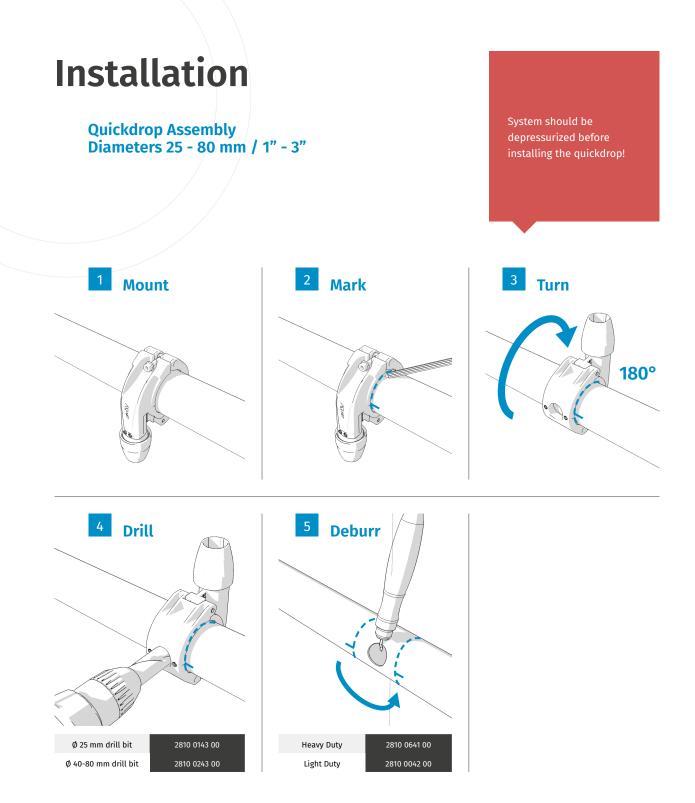


**Valve Installation** 

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

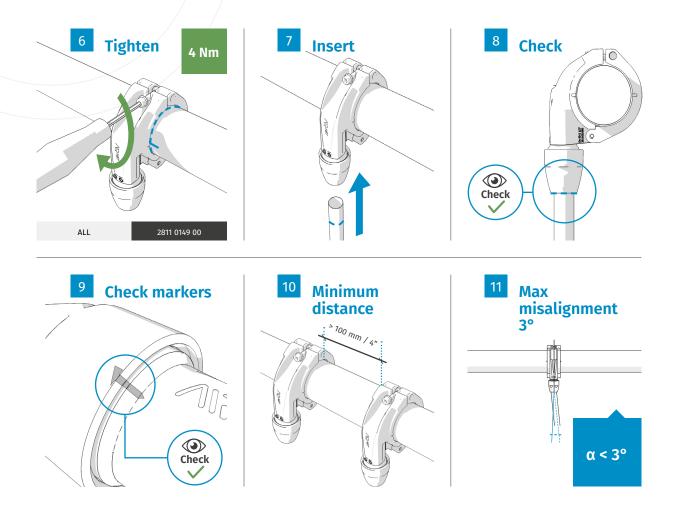








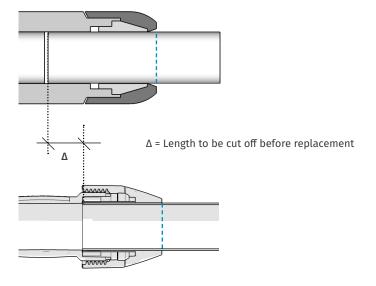
#### Quickdrop Assembly Diameters 25 - 80 mm / 1" - 3"





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

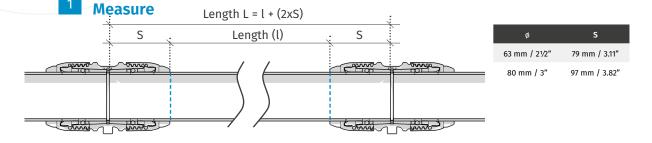
Δ						•
ø 20 mm	21.5 mm	9 mm	9 mm	8 mm	8 mm	13 mm
ø 25 mm	19 mm	14.5 mm	13 mm	6 mm	8 mm	20 mm
ø 40 mm	38 mm	23 mm	28 mm	23 mm	9 mm	35 mm
ø 50 mm	37.5 mm	32 mm	35 mm	32 mm	0 mm	34 mm
ø 3/4"	7/8"	3/8"	3/8"	1/4"	1/4"	1/2"
ø 1"	3/4"	1/2"	1/2"	1/4"	1/4"	3/4"
ø 11/2"	11/2"	7/8"	11/8"	7/8"	3/8"	13/8"
ø 2"	11/2"	11/4"	13/8"	11/4"	0"	13/8"

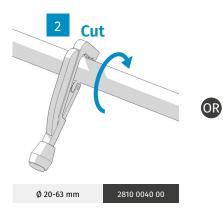


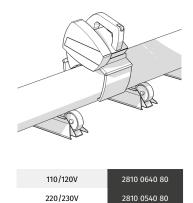


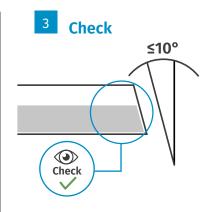
#### Black Series Diameters 63 - 80 mm / 2 1/2" - 3"

Black Series range is phased out in 2021. As from 2022 this section will be removed. Please contact your local AIRnet representative for historical information of previous AIRnet ranges. You cannot reuse the black series fitting after it has been installed!

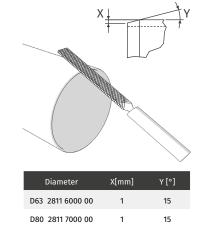








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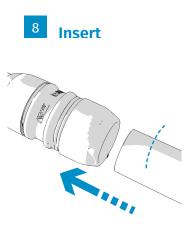
www.airnet-system.com

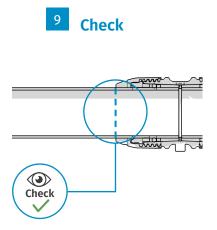


### Black Series Diameters 63 - 80 mm / 2 1/2" - 3"



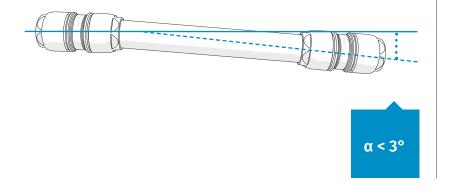


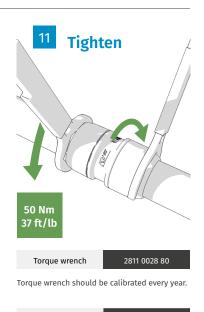










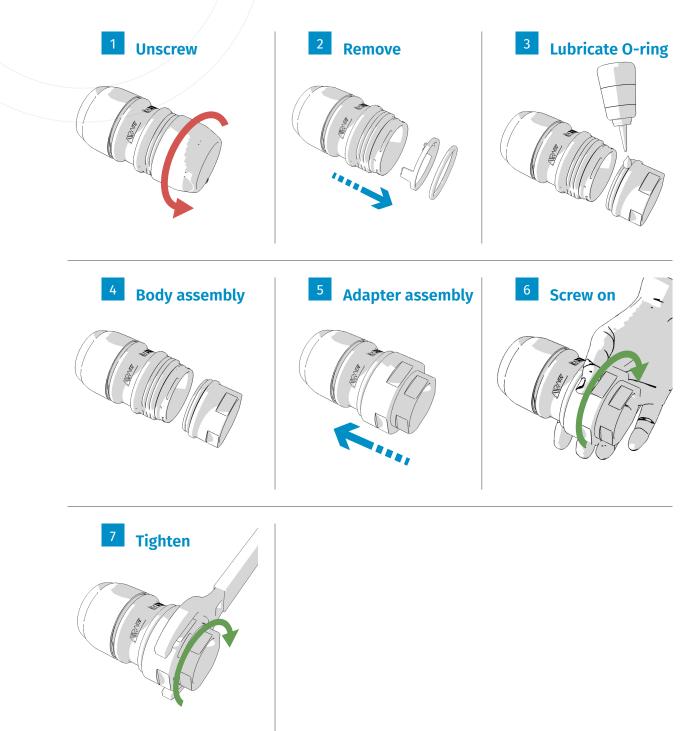




2811 6128 80 2811 7128 80

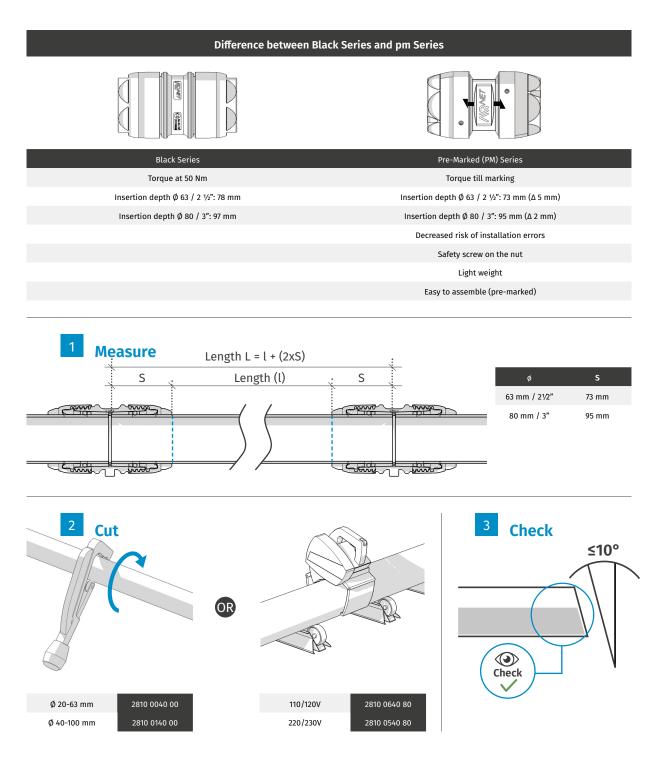


Adapter Union Black Series Diameters 63 - 80 mm / 21/2" - 3"



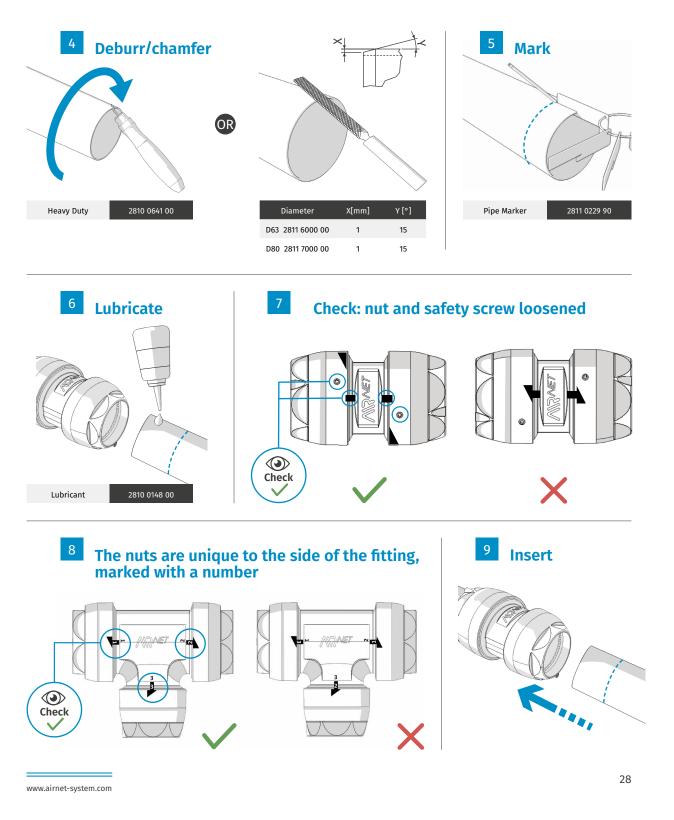


#### PM Series Diameters 63 - 80 mm / 2 1/2" - 3"



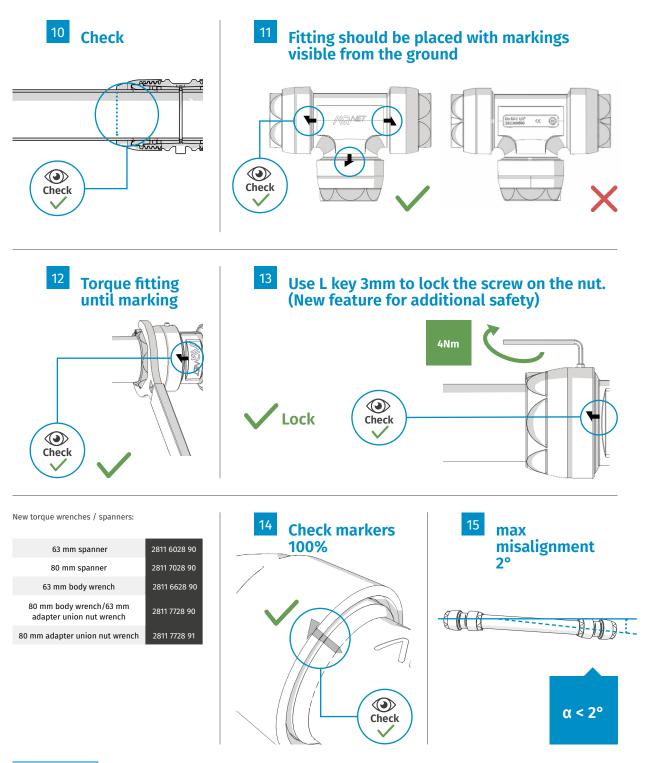


PM Series Diameters 63 - 80 mm / 2 1/2" - 3"



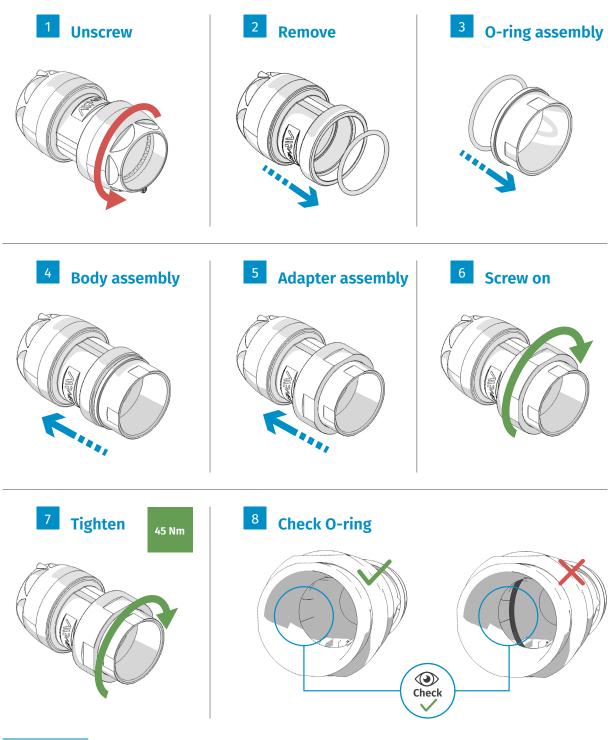


PM Series Diameters 63 - 80 mm / 2 1/2" - 3"





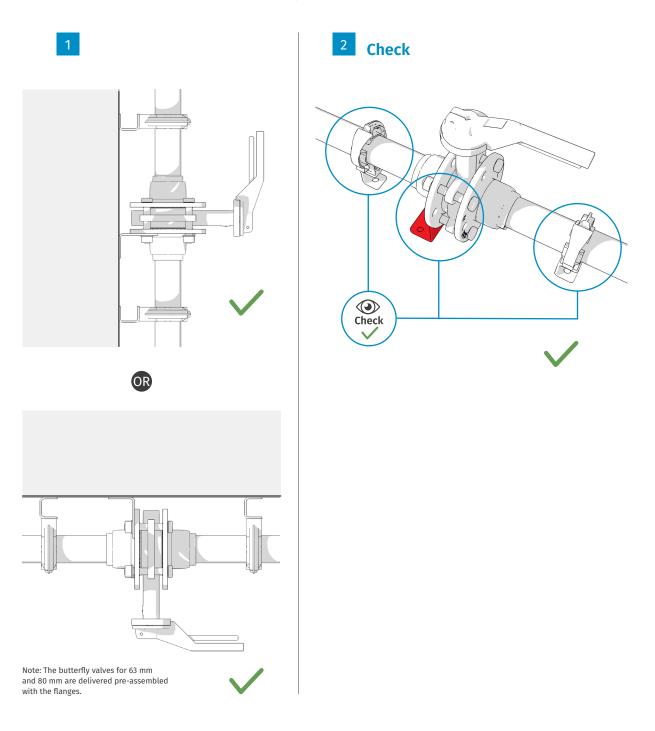
Adapter Union PM Series Diameters 63 - 80 mm / 2 ½" - 3"





#### Valve Installation

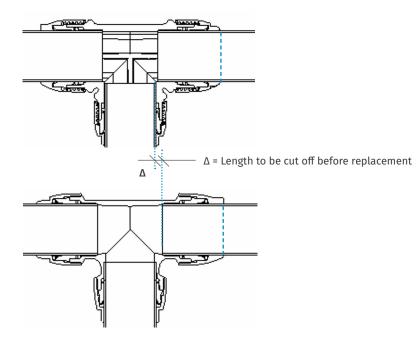
PM Series Diameters 63 - 80 mm / 21/2" - 3"





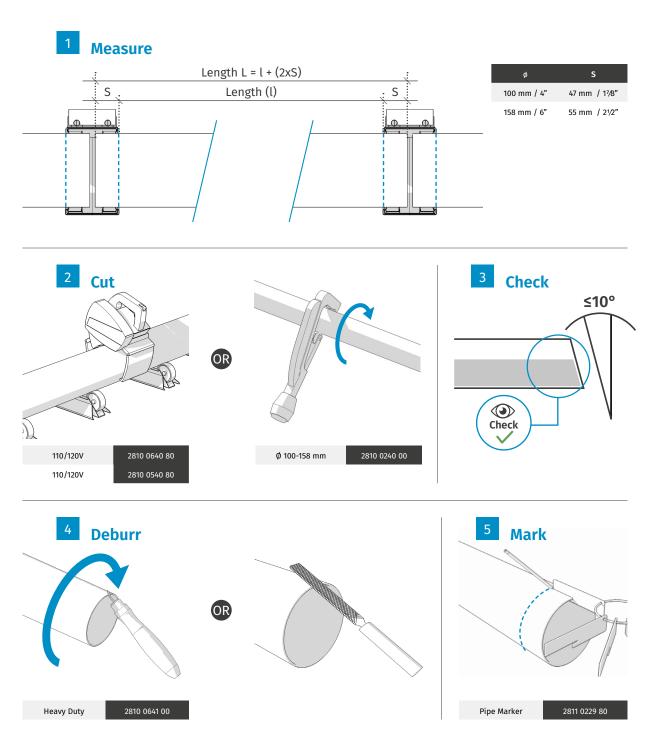
### Replace Black Series with new PM Series Diameters 63 - 80 mm / 2 1⁄2" - 3"

Δ					Ţ	
ø 63 mm	/	1	4 mm	/	Change pipe D50	5 mm
ø2 1/2"	/	/	5/32"	1	Change pipe D50	3/16"
ø 80 mm	/	/	6 mm	7 mm	7 mm	1
ø 3"	/	/	1/4"	1/4"	1/4"	1
				-İ-	۹İ	۹Ĵ.
Δ	2"	2 1/2" and 3"			ISO	NPT
ø 63 mm	4 mm	16 mm	1	1	/	/
ø2 1/2"	5/32"	5/8"	1	/	/	1
ø 80 mm	1	12 mm	6 mm	8 mm	11 mm	14 mm
ø 3"	/	1/2"	1/4"	1/3"	2/5"	1/2"



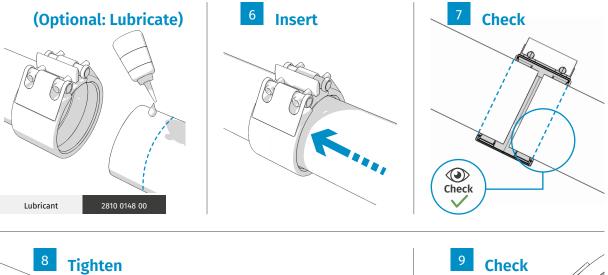


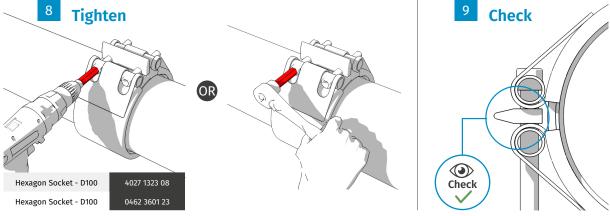
Diameters 100 - 158 mm / 4" - 6"



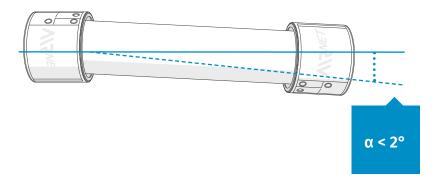


Diameters 100 - 158 mm / 4" - 6"



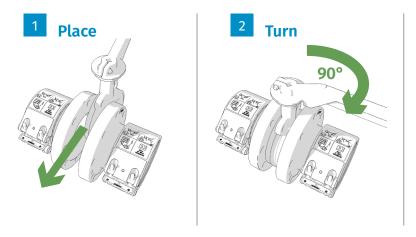


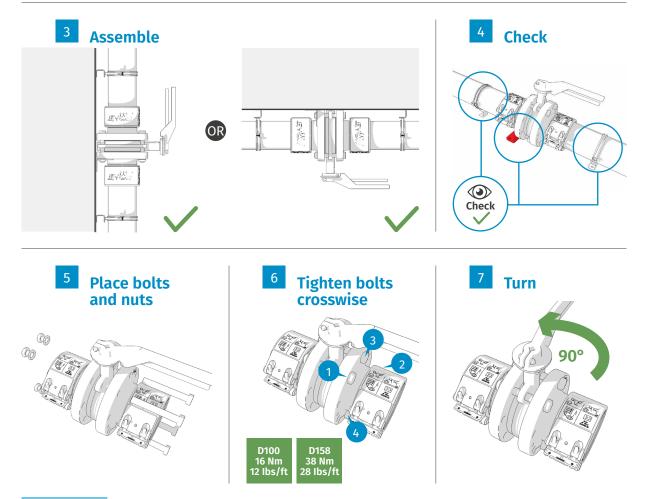
<sup>10</sup> Max misalignment 2°



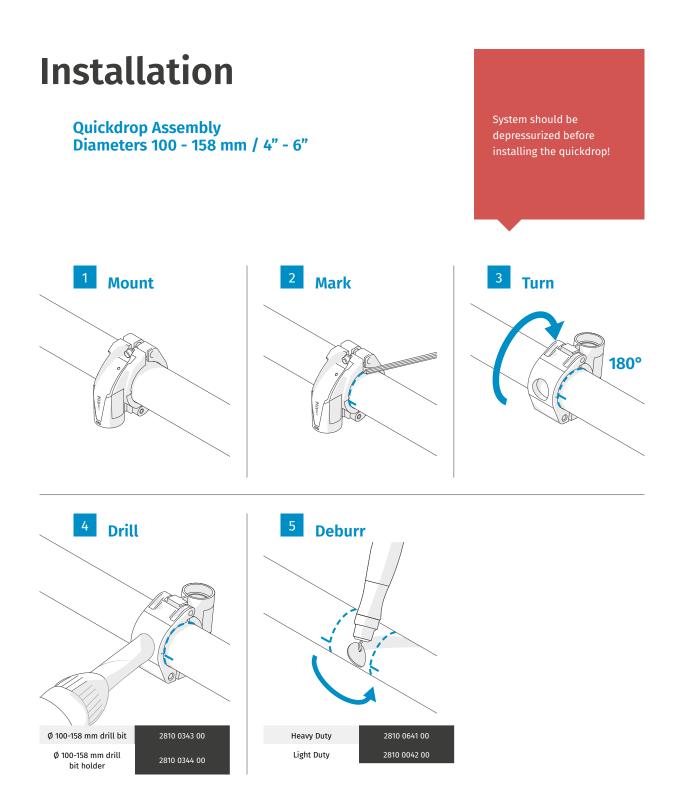


Butterfly Valve Installation Diameters 100 - 158 mm / 4" - 6"



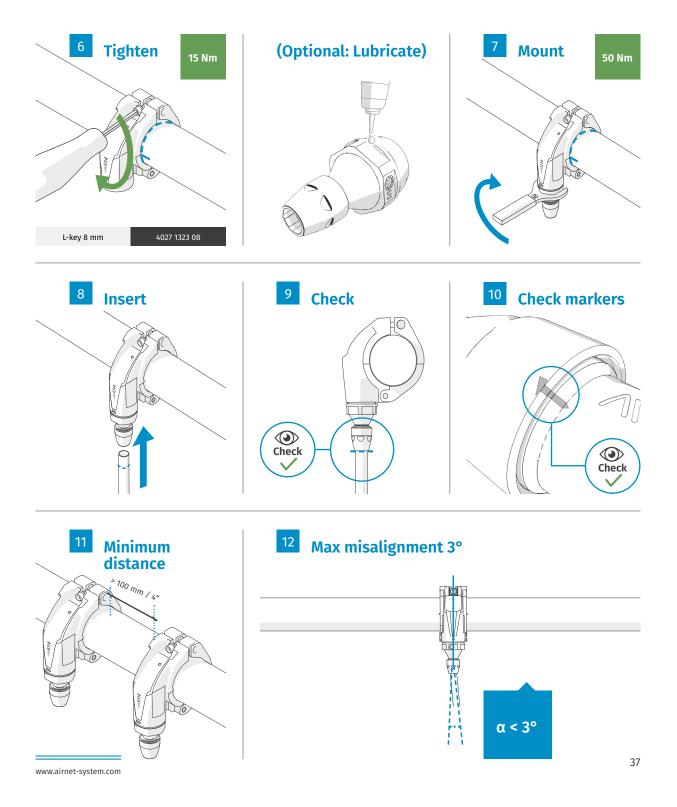






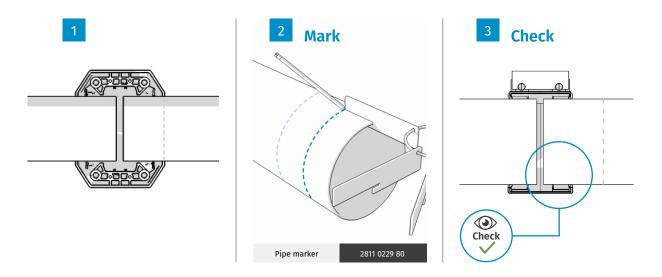


Quickdrop Assembly Diameters 100 - 158 mm / 4" - 6"





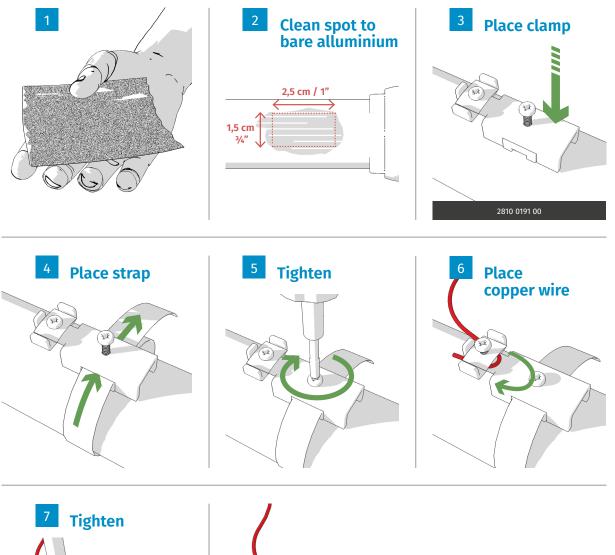
Replace old D100 fittings with new D100 fittings Diameter 100 mm / 4"

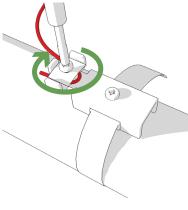


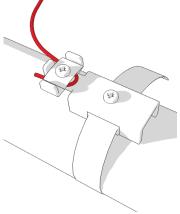
Note: When replacing the old D100 fitting with the new D100 fitting, only a new marking is needed, no cutting of pipes.



### Mounting Conductivity Strap









### AIRnet installation Instructions

Appendix 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
- 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.



www.airnet-system.com