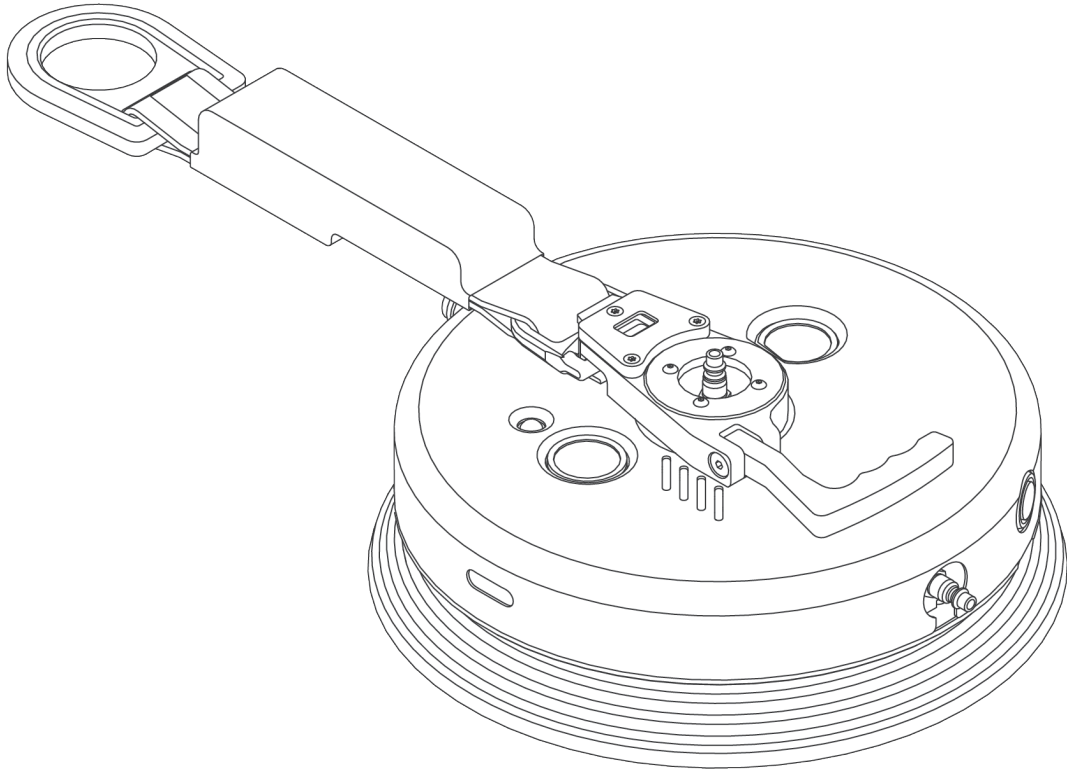




Operating Manual
MSA WinGrip® A1X Vacuum Anchor



Order No.: 15960-96/00

Print Spec: 10000005389 (F)

CR: 800000075408

WARNING!

These instructions must be provided to users before use of the product and retained for ready reference by the user. Read this manual carefully before using or maintaining the device. The device will perform as designed only if it is used and maintained in accordance with the manufacturer's instructions. Otherwise, it could fail to perform as designed, and persons who rely on this device could sustain serious injury or death.

The warranties made by MSA with respect to the product are voided if the product is not installed and used in accordance with the instructions in this manual. Please protect yourself and your employees by following the instructions.

Please read and observe the WARNINGS and CAUTIONS inside. For additional information relative to use or repair, call 1-800-MSA-2222 during regular working hours.

The Declaration of Conformity can be found under the following link: <https://MSAsafety.com/DoC>.

MSA is a registered trademark of MSA Technology, LLC in the US, Europe and other Countries. For all other trademarks visit <https://us.msasafety.com/Trademarks>.



For additional manual translations: Use QR Code or Link



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1 General Information

These instructions are for the benefit of the WinGrip A1X User, they have been produced in support of formal product training, conducted by MSA or an MSA approved trainer with the objective of minimising skill fade, they do not replace formal user training.

WARNING!

- Users of the WinGrip A1X Vacuum Anchor shall be medically fit and formally trained in the use of the system by MSA or an appointed training partner. WinGrip A1X Vacuum Anchor shall not be used by pregnant women, minors or those under the influence of alcohol or drugs.
- Instructions shall be retained and provided to all Users of WinGrip A1X Vacuum Anchor in the language of the destination country, even when resold.
- The WinGrip A1X Vacuum Anchor is only to be used for its intended purpose and within its limitations. Further clarification may be obtained from MSA.
- The WinGrip A1X Vacuum Anchor shall be protected from sharp edges, abrasive surfaces, fire, acids, caustic solutions or temperatures outside the working temperature range of 2°C (35.6°F) to + 50°C (125°F).
- The WinGrip A1X Vacuum Anchor shall not be altered or added to and shall be repaired in accordance with the manufacturer's instructions. Repairs shall be completed by a Technician in accordance with MSA's instructions.
- If an issue is identified, the WinGrip A1X Vacuum Anchor has been approved subject to a fall or any doubt exists as to the suitability of the WinGrip A1X Vacuum Anchor, it shall be tagged "unusable" and withdrawn from service.
- WinGrip A1X Vacuum Anchor should not be combined with energy absorbing lanyards (EN 355), which have not been tested together.
- WinGrip A1X Vacuum Anchor should not be used in combination with retractable type fall arresters (EN 360), unless they have been tested together.
- Where users intend to combine any personal fall protection equipment for fall arrest with type E anchor devices, they should seek guidance on its suitability from the manufacturer of that personal fall protection equipment before doing so.
- The WinGrip A1X Vacuum Anchor is only to be used at altitudes where the atmospheric pressure is equal to or greater than 830 mbar
- If using a combination of equipment creates any hazards or causes the safe operation of one item to interfere with another, do not use any of the equipment.
- A full body harness is the only acceptable body holding device to be used with the WinGrip A1X in a fall arrest system.
- Ensure air supply to WinGrip A1X Vacuum Anchor is maintained between 5.5 - 8.3 bar (80-120 psi).

Failure to follow these warnings can result in serious personal injury or death.

The MSA WinGrip A1X Vacuum Anchor is a temporary vacuum anchoring system mainly utilized within the aerospace industry to facilitate safe and efficient access for maintenance and construction tasks without permanently altering the supporting surface. It is intended for use on smooth, flat, non-porous surfaces such as aircraft wings that are free from dirt and contamination.

The WinGrip vacuum system utilises delivered compressed gas, air or nitrogen, through a venturi to generate the vacuum.

The MSA WinGrip A1X Vacuum Anchor may be supplied with a suitable self-contained high pressure gas cylinder. The sealed vacuum area of the MSA WinGrip A1X Vacuum Anchor is 0.07m² (108.5 sq. in.).

2 Intended Use and Product Limitations

MSA WinGrip A1X Vacuum Anchor is designed for a single User per attachment point. The maximum User weight (including tools and equipment) is 140 kg (308.6 lbs). It is lightweight 7 kg (15.4 lbs) and portable and may be used in both wet and dry situations, as long as the moisture has been wiped from the surface.

- The WinGrip A1X vacuum anchor on its own or used in a combination with an A1X Flying anchor is designed for one user only.
- Operated solely on compressed air or nitrogen, no electrical requirement.
- Max. curvature that the A1X can be used on; R=1.3 meter (4.3 ft) for 350 mm diameter (13.8 inches).
- Working temperature range of 2°C (35.6°F) to + 50°C (125°F)
- The A1X vacuum anchor provides up to 20 minutes of safe operation after vacuum generation ceases, provided the anchor vacuum gauge remains in the green zone. This capability is intended for use only during evacuation and only if safe to do so.
- A1X should be installed to withstand shear loading only at any angle between 0 and 90 degree. It's not suitable to be used upside down.
- When using the A1X flying anchor, where possible, ensure it is positioned at least 100 mm from any seam or riveted area.
- Modular system options, single or twin anchor, which can be tailored to customer needs and requirements.
- MSA WinGrip A1X shall be used with approved personal protective equipment for work positioning and prevention of falls from a height and full body harness. (See [5.5 System Requirements](#))

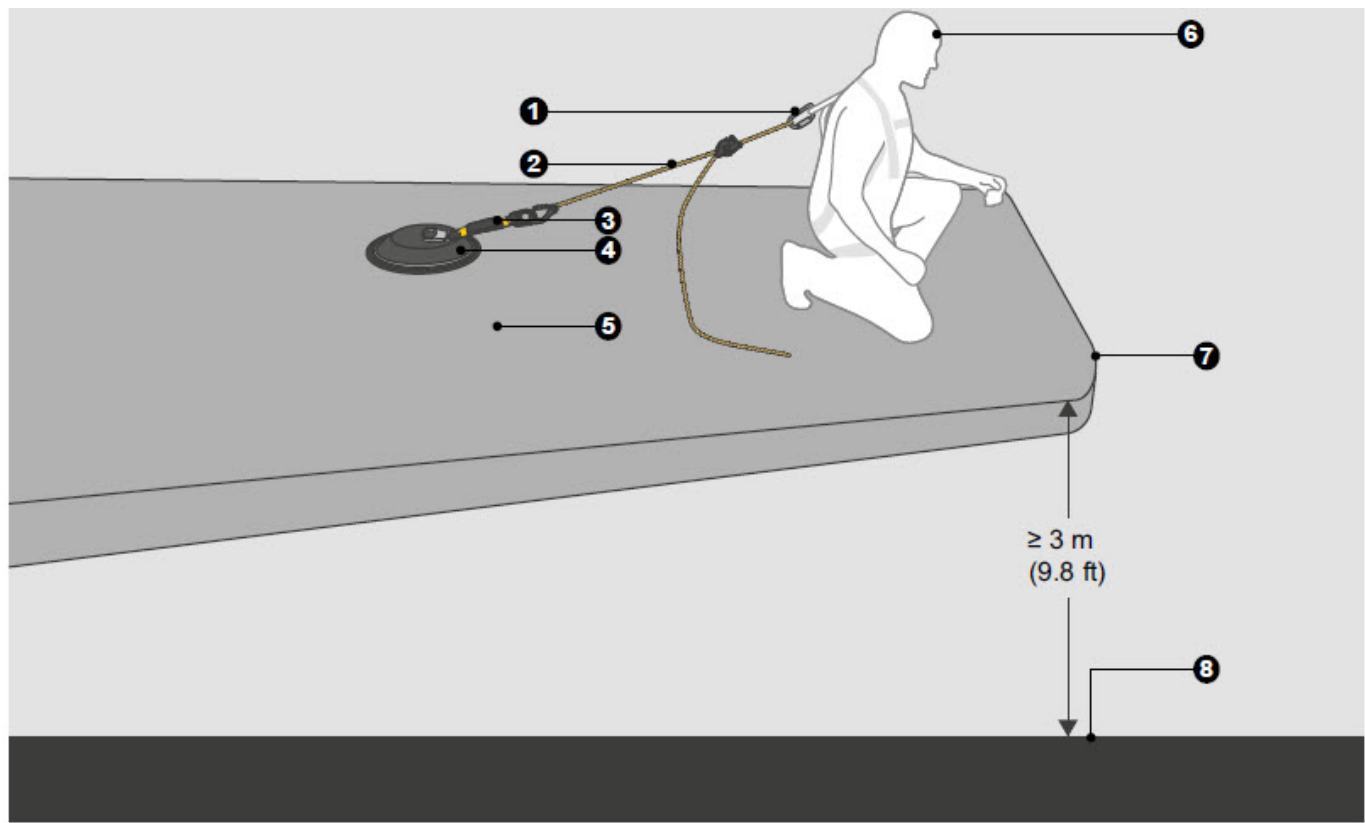
Each WinGrip A1X vacuum anchor contains simple go/no-go visual indicators and can be ready for use within 20 seconds of placement.

WARNING!

- Single user only. The maximum User weight (including tools and equipment) is 140 kg (308.6 lbs).
- It is NOT suitable to be used upside down.
- The device shall not be positioned such that water could accumulate and create a hazard, or used when there is a risk of frost or freezing conditions where the conditions create a hazard.
- The anchor device shall only be used for personal fall protection not for lifting equipment.
- The MSA WinGrip A1X Vacuum Anchor is primarily designed for restraint, with secondary fall arrest capability in worst case conditions. It provides a nominal reach radius of 1.6 m and limits dynamic fall forces on the user to a maximum of 4 kN (899 lbf).
- The MSA WinGrip A1X Vacuum Anchor rubber seal composition offers resistance against aerospace fluid contaminants whilst maintaining flexibility and a high resistance against shear loading. The maximum loads transmitted from the anchor to the surface is 87.1 kN/m² (12.6 psi); this force is horizontal.

Failure to follow these warnings can result in serious personal injury or death.

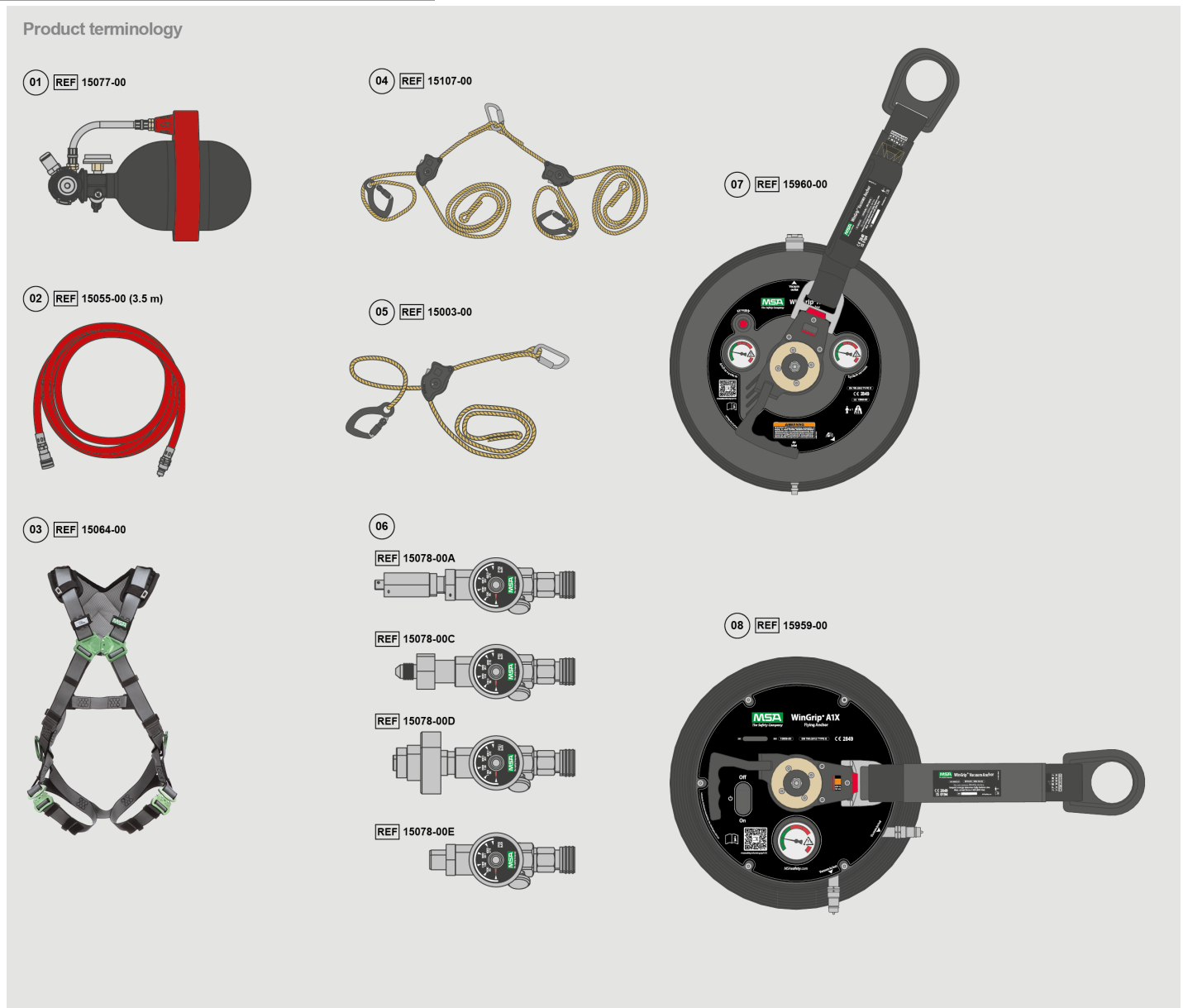
Figure 1 MSA WinGrip A1X Vacuum Anchor System



1	Attachment Point	5	Working Surface
2	Work Positioning Rope	6	User
3	Energy Absorbing Lanyard	7	Fall Hazard
4	MSA WinGrip A1X Vacuum Anchor	8	Ground / Obstruction

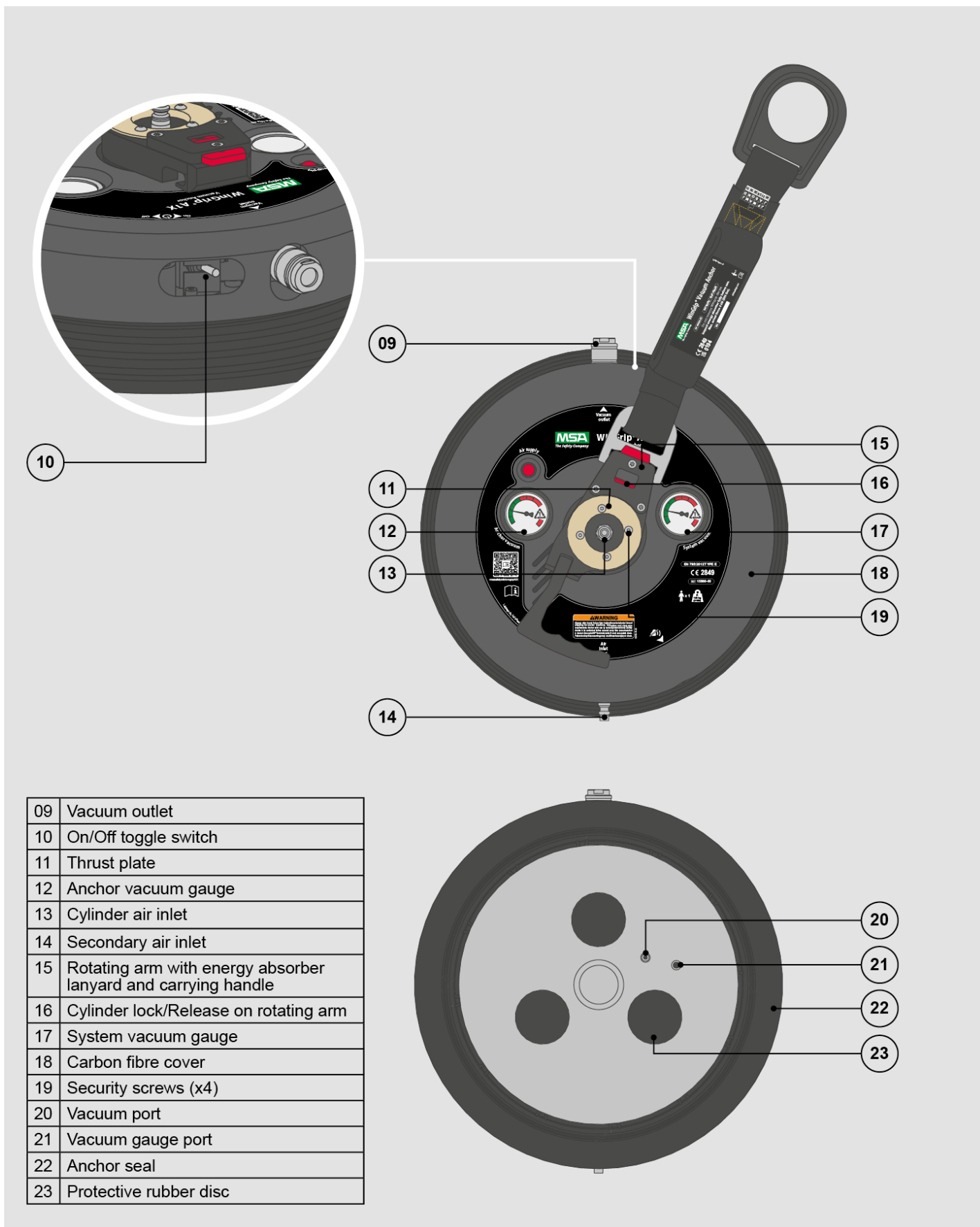
2.1 Product Terminology

Figure 2 WinGrip A1X Terminology



01	High Pressure Cylinder	05	Single Work Positioning Ropes
02	Primary Vacuum Hose	06	Filling Adaptor
03	Full Body Harness	07	WinGrip A1X Vacuum Anchor
04	Double Work Positioning Ropes	08	WinGrip A1X Flying Anchor

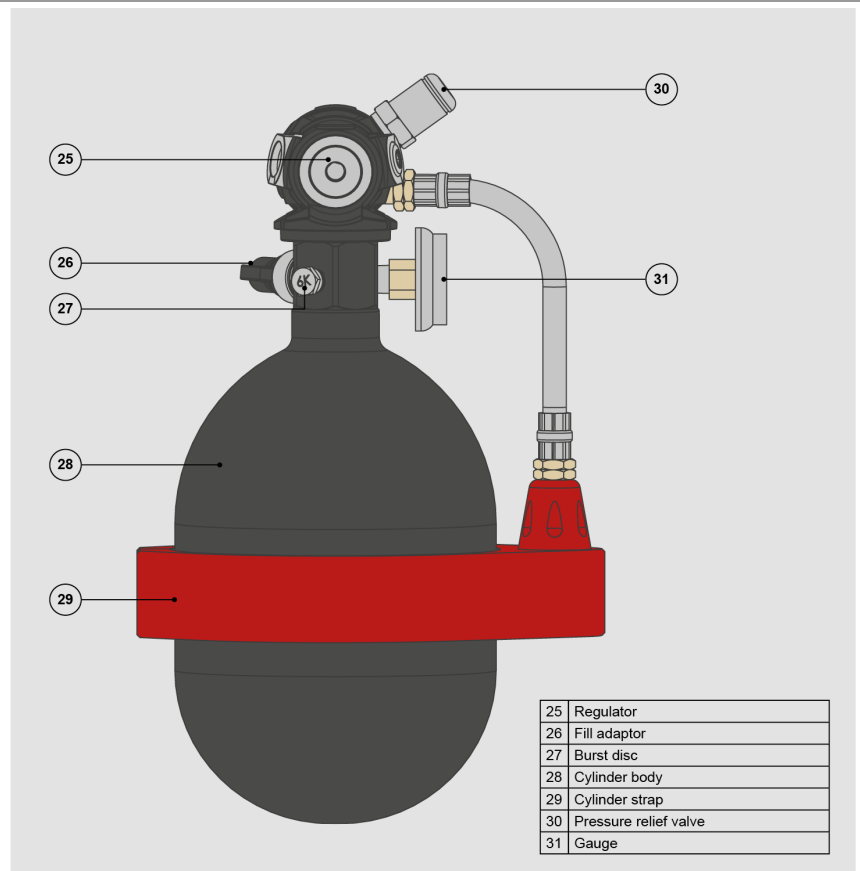
3 WinGrip A1X Product Information and Overview



3.1 WinGrip A1X High pressure Cylinders

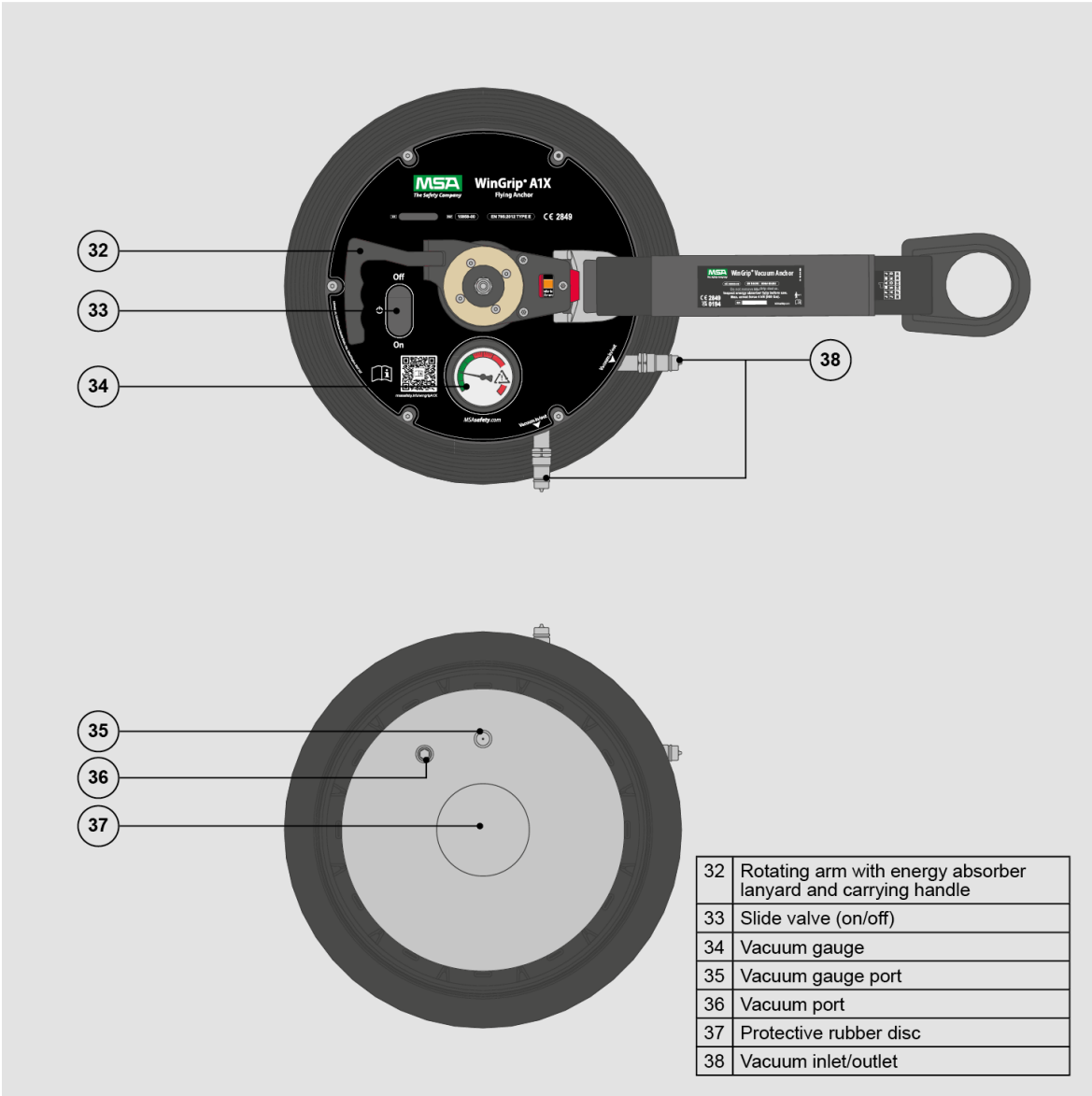
This is an Aluminium core with a black fibre glass gloss wrap. Regulator is also aluminium with a stainless-steel braided tube.

- Mass of assembly 1.8kg (4lbs)
- Cylinders marked DOT-SP-11005 require hydrostatic testing every 3 years
- Cylinders marked DOT-SP-14932 & ISO 11119-2 require hydrostatic testing every 5 years
- Cylinder service life of 15 years
- Maximum pressure 300bar (4350psi)
- Maximum filling rate: 70 l/ min



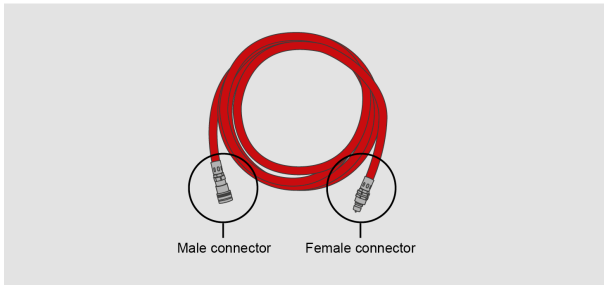
3.2 A1X Flying Vacuum Anchor

Used as a single point vacuum anchor in conjunction with the A1X. Connected to the A1X with a primary hose, vacuum is provided to the anchor from the A1X, once installed, the user whilst connected to a secure anchor can safely move on a working area must always be connected to a secure anchor before disconnecting.



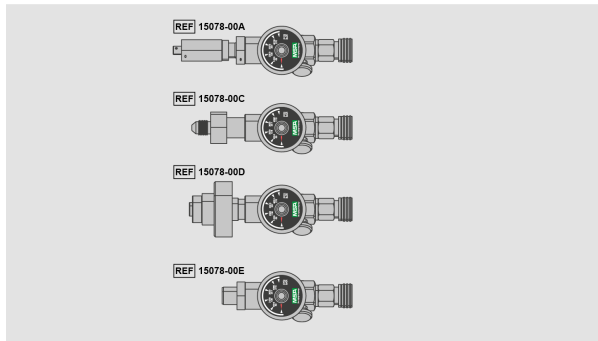
3.3 Primary Vacuum Hose

Flexible reinforced 3.5 meter (11.5 ft) rubber tubing with quick release male and female connectors.



3.4 A1X Filling Adapter

The filling adaptor is used to connect to the male coupling on the cylinder and to a nitrogen hose from the trolley. This then depending on the capacity of the trolley re-fuel the cylinder up to a maximum of 4350 psi or 300 bar. MSA offers a variety of adapters suitable for different hose fittings. Please contact MSA for technical support.



3.5 Full Body Harness

⚠ WARNING!

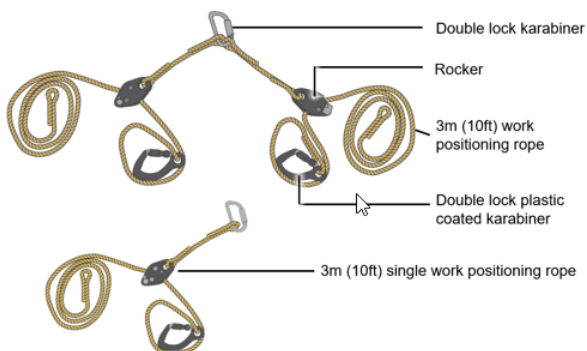
To ensure safety in any situation where a fall hazard exists, the WinGrip A1X product must always be used together with a full-body harness.

Failure to follow this warning can result in serious personal injury or death.

A full body harness must be used to distribute fall arrest loads across the shoulders, upper thighs, chest and pelvis. Featuring a center back fall arrest attachment point (dorsal D-ring) for clipping to a fall arrest connector. When used in combination with energy absorber lanyards the harness can sustain the forces developed during a fall.

3.6 Single and Double Work Positioning Rope

Rope used to secure the user to an anchor attachment point. The double work positioning rope is primarily used when an end user will require to employ more than one attachment point.



3.7 WinGrip A1X Storage Case

The WinGrip A1X anchor and the flying anchor are sold as a kit in different configurations and stored in purpose built rugged cases, easy to store and to protect the equipment.

4 Pre-Use Checks and Periodic Examination

The safety of the User relies upon the continued efficiency and durability of the equipment therefore pre-use checks shall be completed before each use as specified in [Table 1 Pre-Use Examination](#).

Periodic examinations shall be completed by a Technician, in accordance with the manufacturer's instructions. The interval will be dictated by the usage ([Table 2 Periodic Examination Interval](#)), local regulations or environmental conditions and shall be at least annually.

4 Pre-Use Checks and Periodic Examination

It is recommended that the device is marked with the date of next examination.

Records shall be kept of the results of the examination ([2 Intended Use and Product Limitations](#)).

Pre-Use Examination:

This is the first of four-control measures performed by an end user prior to attaching to the A1X vacuum anchor. This examination is to confirm accountability, serviceability, system performance and safety checks.

- Remove all components from the wheeled case ensuring all system components are available (subject to kit configuration).
- Examine each component and associated subcomponents to ensure they are serviceable.
- System Performance Check:
 - Ensure the A1X switch is set to the off position.
 - Connect a cylinder or airline to the anchor.
 - Ensure the Visiwink is GREEN.
 - During A1X start up mute the alarm.
 - Wait for the needle within the system gauge to settle in the green segment of the system gauge.
- Safety Check:
 - Remove the cylinder or disconnect the airline from the A1X
 - Listen for the audio alarm, this should sound a minimum of 10 intermittent whistle blast.
 - Confirm Visiwink has turned RED
 - Ensure the system gauge needle remains in the GREEN.

WARNING!

- If the device/system does not pass all pre-use checks or periodic examinations, do NOT use and call MSA service.

Failure to follow this warning can result in serious personal injury or death.

Table 1 Pre-Use Examination

Item	Function	Pre-Use Checks
MSA WinGrip A1X Vacuum Anchor	Single point vacuum anchor.	Ensure that the seal is clean and intact. Ensure atmospheric pressure is equal to or greater than 830 mbar. Ensure the surrounding temperature is within the working temperature of the anchor. Ensure the connectors are clean and rust free. Ensure the tamper proof seal is intact on the four (4) screws.
Energy absorber	Provides connection between the vacuum anchor and the User via a Work positioning rope.	Ensure that energy absorber is within date and that there is no evidence of excessive wear.
MSA WinGrip A1X Flying Anchor	Used as a single point vacuum anchor during installation, or when working on an area that cannot be accessed from the MSA WinGrip A1X Vacuum Anchor. The flying anchor is capable of storing a second MSA WinGrip cylinder.	Ensure that the seal is clean and intact. Ensure the energy absorber is undamaged and within service life. Ensure the connectors are clean and rust free.

Item	Function	Pre-Use Checks
MSA WinGrip A1X Vacuum Anchor cylinder	Set to deliver compressed air at 115 psi. May be filled by a Competent person (26 filling adapter is required). Has an in-built pressure release valve and safety burst disk (6500 psi).	Ensure the cylinder is filled, holding the charge and within current hydrostatic test.
Filling adapter	Used to refill the WinGrip air cylinder.	Visually examine the infill adapter for signs of deformation. Ensure connectors and bleed button function correctly
Primary vacuum hose	Flexible reinforced rubber tubing with a male and a female connector.	Ensure that the hose is intact and that the connector operates.
Full Body Harness	When used in combination with the Energy absorber the harness can sustain the forces developed during a fall.	Examine in accordance with manufacturer's instructions. Ensure the full body harness is within date.
Work positioning ropes	Used to secure the User to the attachment point. Double ropes have the advantage of attaching to two points and are therefore required during installation to provide 100% tie-off.	Ensure that all Work positioning ropes are intact and that the connectors operate correctly. Ensure the work positioning rope(s) are within date.
Product Markings	Identification of the product	Ensure the markings are legible

Table 2 Periodic Examination Interval

Usage	Interval
Infrequent to Light	Annually (12 months)
Moderate to Heavy	Semi-annually to annually (6-12 months)
Severe to Continuous	Quarterly to semi-annually (3-6 months)

Technician: A person, other than the User, who is trained and authorized by MSA to examine, repair and factory recertify MSA WinGripA1X, in accordance with MSA's instructions.

5 Installation and Use

WARNING!

- A written rescue plan and the means to implement it shall be in place to deal with emergencies that may arise during use.
- Ensure PPE is suitable, worn correctly and fulfills site specific criteria.

Failure to follow these warnings can result in serious personal injury or death.

Installation of a vacuum anchor has three phases - **Surface, Installation and Integrity.** (SII)

5.1 Air Supply

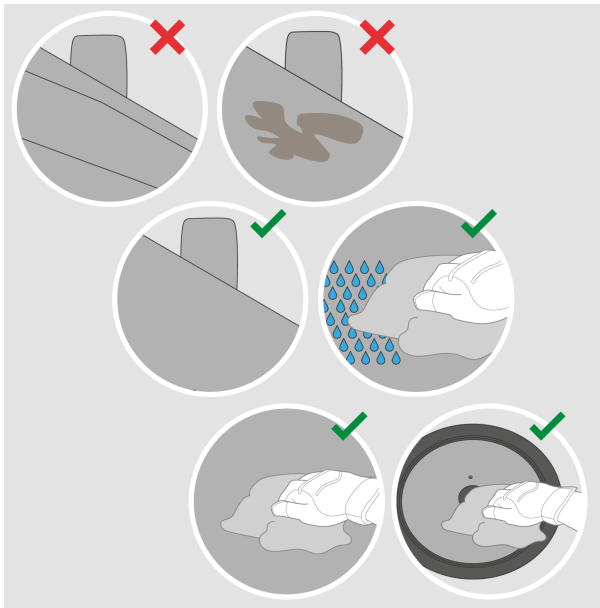
MSA WinGrip A1X Vacuum Anchor is designed to be used with a cylinder as a self-contained system. However, there is also the additional options of using a clean, dry supply of compressed air from a compressor, or a nitrogen trolley.

Whilst it is possible to use lubricated compressors system, filters and oil separators should be used to remove the oil from the air otherwise the performance of the anchor might be affected. Do not use lubricated air. If there is any leakage from the cylinder or fill connector, depressurize and remove the anchor from service. Contact an MSA Service Center for support.

The use of an additional vacuum anchor via a primary hose will greatly reduce the working time of the cylinder. It is therefore advisable to use shop air when a task requires the employment of the flying anchor. An additional cylinder can be stored on the MSA WinGrip A1X flying anchor and used as an additional supply in an emergency situation.

5.2 Surface, Installation and Integrity

S = Surface



WARNING!

- Do not install on a contaminated surface e.g. Glycol, used to de-ice aircraft.
- Ensure all the water is removed until the surface is dry.

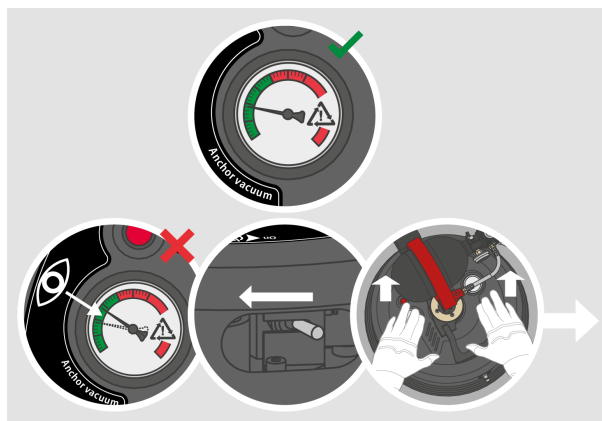
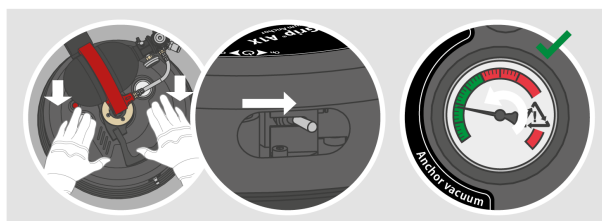
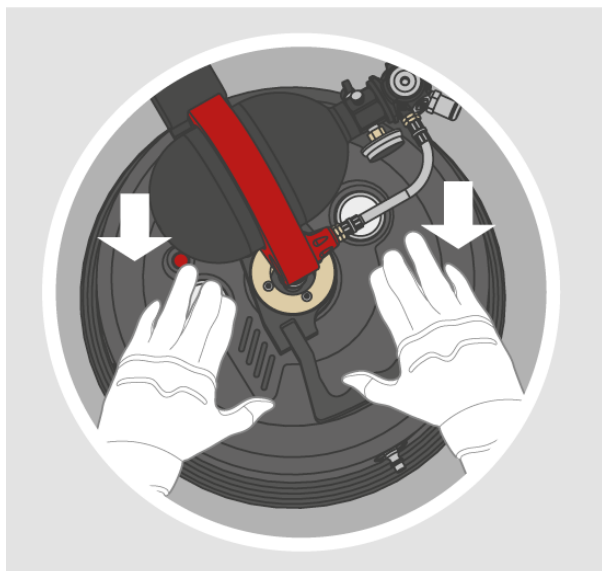
Failure to follow this warning can result in serious personal injury or death.

Ensure the surface is non-porous and avoid selecting uneven surfaces such as seams on the aircraft. Finally, ensure the anchor attachment point is easily accessed without over stretching.

Once you have selected your surface area. Using a cloth, clean the selected surface area of the aircraft where the anchor is to be installed and underneath the anchor.

Ensure the surface is non-porous, even and free from contamination. Remove all the water from the surface.

Clean the surface and anchor.



I = Installation

Once the anchor is located on the surface:

1. Press downwards on the anchor expelling the excess air from beneath the anchor seal.
2. Maintain the downward pressure, operate the switch to the ON position.
3. Upon hearing the audio alarm, press the mute switch, this will conserve your air/nitrogen.
 - Observe the needle within the anchor system gauge, once it reaches the green segment release the alarm mute switch, relax the downward pressure to the anchor.
 - Observe the position of the needle in the anchor gauge. This should be moving towards the green segment within the gauge and settle.

I = Integrity - A1X

⚠ WARNING!

- If the needle moves towards the red segment 1 graticule or more within the 20 seconds, this indicates a level of leakage between the surface and the anchor seal that will impact system performance.
- If again on a second attempt the needle moves towards the red segment remove the anchor from service.

Failure to follow these warnings can result in serious personal injury or death.

1. Once the needle within the anchor gauge has settled.
2. Switch OFF, then relocate the anchor repeating the same procedure.

If the needle within the gauge does not move during the 20 seconds' integrity test, the anchor is now correctly installed and is ready for use.

I = Integrity - A1X Flying Anchor

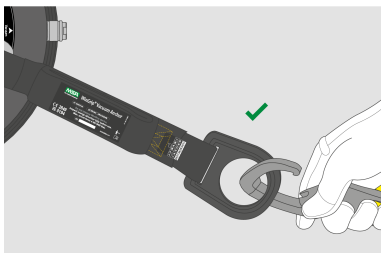
1. Detach the hose attached to the anchor.
2. Using the release sleeve on the hose press in and hold in position the protruding nipple on the anchor for a minimum of 20 seconds, at the same time observing the position of the needle within the anchor gauge.

⚠ WARNING!

- If the needle on the gauge moves towards the red by one

mark or more than this is evidence of a level of leakage that will affect system performance. Switch the slide valve to the OFF position, relocate, re-install, if fails again remove from service.

Failure to follow this warning can result in serious personal injury or death.



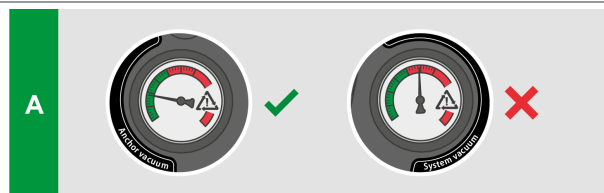
Attaching to an Anchor Attachment Point

NOTICE

When attaching to an anchor attachment point, ensure the gate of the carabiner is facing up. This will minimize the possibility of superficial damage to the substrate surface of the aircraft.

5.3 Audio Alarm Response

The A1X alarm will sound if you have exhausted your cylinder supply or had an interruption in your airline feed, the A1X is unable to generate vacuum. Actions upon hearing an alarm will be subject to the position of the needle within both the system and anchor gauges:



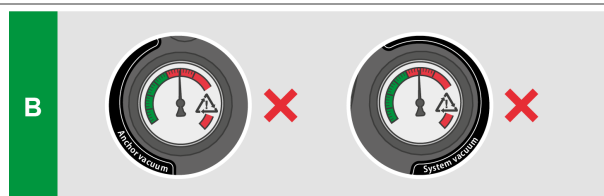
Anchor Gauge in Green, System Gauge in Red = Interruption in air supply.

1. Mute alarm
2. Replace cylinder (if available).
3. System gauge returns to green.
4. Continue to operate.
 - If you have no access to resolve air supply and can safely reach your access point from the anchor you are connected to, safely exit.

! WARNING!

- If you are unable to safely exit, remain connected to your anchor and await rescue.

Failure to follow this warning can result in serious personal injury or death.



Anchor Gauge in Red System Gauge in Red = Interruption in air supply.

1. Mute alarm.
2. Replace cylinder (if available).
3. If you are unable to restore air supply:
 - Sit down, remain connected to the anchor and await rescue.
 - If you have resolved air supply and achieved vacuum cut off, reinstall anchor, continue to operate (after ensuring, both gauges are in green).

! WARNING!

DO NOT detach from an anchor point, if it is NOT safe to do so.

Failure to follow this warning can result in serious personal injury or death.

5.4 Safe access

At all times access shall be achieved in a safe manner; observing the hierarchy of risk for fall protection.

At all times it is preferable to work in restraint. When moving, restraint is achieved through good rope discipline. When working in restraint is not possible and there is a potential to fall (e.g. working at a wing tip), then fall clearances shall be known and the fall path kept clear.

Careful consideration shall be given to access to the wing. Where a suitable anchor point is not available the flying anchor shall be used to achieve safe access.

Figure 3 WinGrip A1X Rope Adjustment

The 4Rs Method

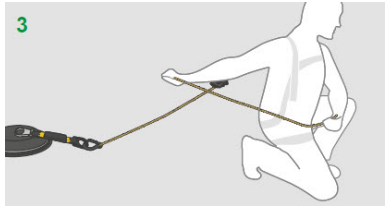
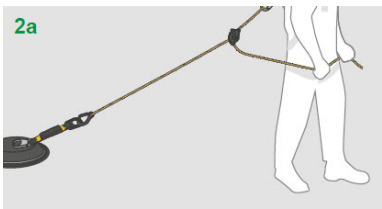
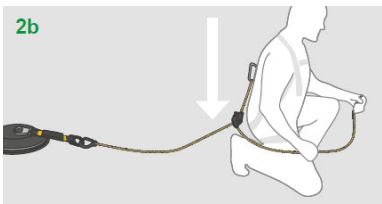
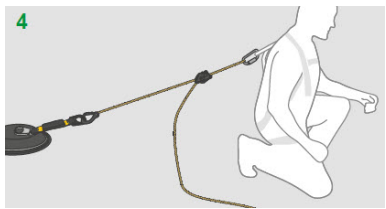
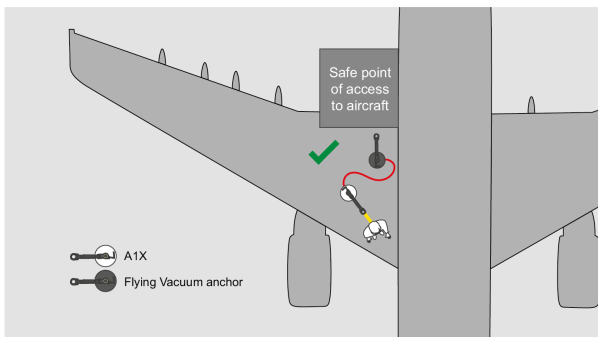
Release		Remove	
Reach	 	Restraint	

Figure 4 Safe Access

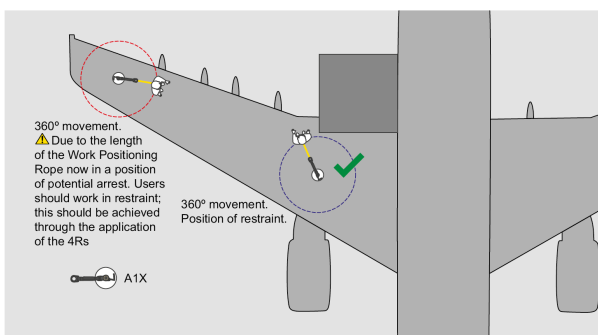


⚠ WARNING!

- If unable to safely access your working area from your safe point of access, a second anchor and a double work positioning rope will be required to maneuver on the structure.

Failure to follow this warning can result in serious personal injury or death.

Figure 5 Working in Restraint



⚠ WARNING!

- Due to the length of the Work Positioning Rope now in a position of potential arrest. Users should work in restraint; this should be achieved through the application of the 4Rs.

Failure to follow this warning can result in serious personal injury or death.

Figure 6 Working Near an Edge

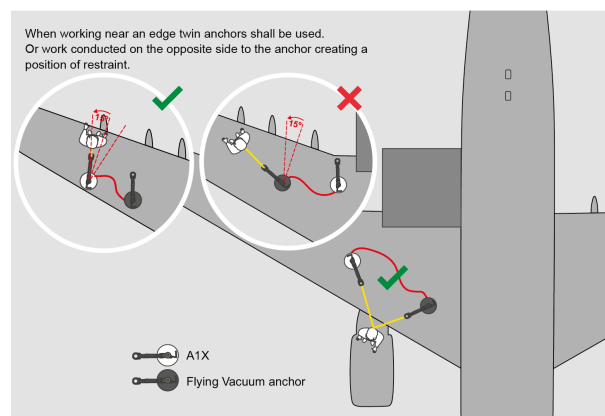
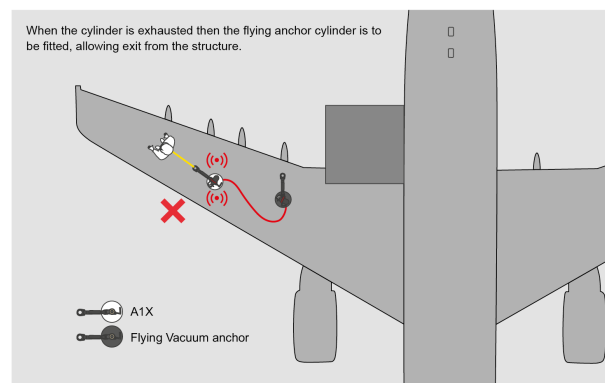


Figure 7 System Evacuation



5.5 System Requirements

Component	Standard
Anchorage Device	EN 795*
Harness	EN 361*
Connectors	EN 362*
Lanyards for work positioning and restraint	EN 358*
Belts for work positioning and restraint	EN 358*

This personal protective equipment (PPE) complies with European Regulation (EU) 2016/425 and the PPE Regulation (EU) 2016/425 as retained in UK Law and amended*.

**Considering harmonized/designated EN standards.*

This system meets the requirements of OSHA 1910.140 and OSHA 1926.502 by maintaining a factor of safety of at least two.

NOTE: The product may comply with standards shown. See product label for specific compliance information. Those designated with a certification mark are listed with the corresponding agency as compliant to the applicable standard.

6 Cleaning, Maintenance, Transport and Storage

The system components may require cleaning or disinfecting after use.

Components shall be thoroughly rinsed, using warm water and domestic detergent, and allowed to dry naturally, away from direct heat. Methyl alcohol may be used to remove heavy dirt deposits on metal and rubber components only.

Solvents, thinners and chemical cleaning agents shall not be used unless specified by MSA.

When not in use the MSA WinGrip A1X Vacuum Anchor components shall be stored in the case supplied. Any remaining compressed air or nitrogen should be vented from the cylinders. Operate the toggle switch valve to vent off any retained vacuum. If this is not performed, the toggle switch will become stiff due to retention of vacuum and difficult to operate..

The components shall not be subjected to unnecessary stress, pressure or rough handling. Wet components shall be dried naturally away from direct heat.

Incorrect storage may reduce the service life of the components.

Maximum product life MSA WinGrip A1X Vacuum Anchor service life is determined by the device condition as prescribed by pre-use checks and periodic examinations; there is no fixed service life. (See Table 2)

Continued use is dependent upon passing pre-use checks and periodic examinations.

Service life may be reduced by frequency and conditions of use or local regulations.

Additional information about the maximum service life are indicated in [9 Periodic Examination and Repair History](#).

The MSA WinGrip A1X shall be transported from one site to another in the case supplied, compressed air or nitrogen should be vented from the cylinders. Operate the toggle switch valve to vent off any retained vacuum.

Transport on site from one anchorage spot to another may be done using the incorporated handle.

WARNING!

If an issue is identified, a user has fallen while using the anchor or any doubt exists as to the suitability, the MSA WinGrip A1X shall be tagged “unusable” and withdrawn from service.

Failure to follow this warning can result in serious personal injury or death.

Prior to return to service MSA or a Technician shall confirm, in writing, that MSA WinGrip A1X Vacuum Anchor has passed examination.

WinGrip Component Disposal

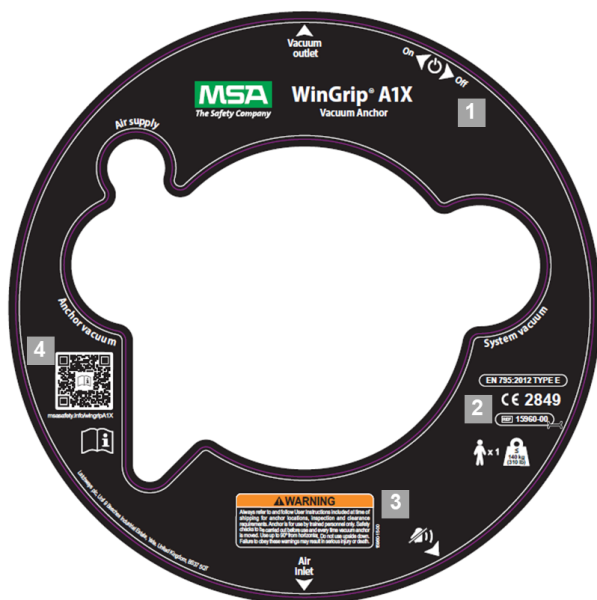
The stainless steel, aluminum, rubber and plastic parts of MSA WinGrip A1X Vacuum Anchors are recyclable. The harness and Energy absorber lanyards shall be cut, to prevent accidental use, and disposed of as domestic waste.

7 Certification and Approvals

Production Control Phase	
CE Production Conformity to Type Certificate	Inspec International B.V. (Notified Body No: 2849) Beechavenue 54, 1119 PW, Schiphol - Rijk, Netherlands
Notified Bodies	
CE Type Examination	SATRA Technology Europe Limited (Notified Body No: 2777) Bracetown Business Park Clonee, D15YN2P Republic of Ireland
Authorized EU Representative	
	MSA Technologies and Enterprise Services GmbH, Thiemannstr. 1, Berlin 12059, Germany

7.1 Product Label Information

MSA WinGrip A1X Label



1	Power Switch (On/Off)
2	Standard and Safety Information
3	Product Warning
4	Operating Manual Link and QR Code

NOTE: The A1X vacuum anchor serial number is positioned on an internal component and can be viewed through a slot around the circumference of the cover.

MSA WinGrip A1X Flying Anchor Label



1	Power Switch (On/Off)
2	Serial Number Information
3	Standard and Safety Information
4	Operating Manual Link and QR Code
5	Product Warning

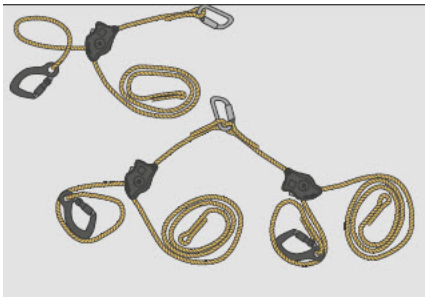
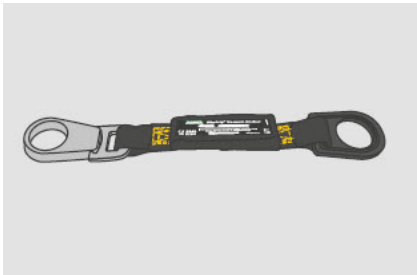
Equipment Record

Other relevant information:

9 Periodic Examination and Repair History

US

Service Life

	Full Body Harness Refer to the Full Body Harness User manual for service life information.
	MSA WinGrip Work Positioning Ropes Refer to the Work Positioning Ropes manual for service life information.
	Energy Absorber ≤ 10 Years

10 Warranty

Standard Conditions

MSA warrants this product to be in good working order during the warranty period. In the event that the product is found to be defective within the warranty period, a repair service will be provided free of charge by returning the product to MSA, in accordance with the details set out below.

MSA warrants this product to be in good working order during the warranty period. In the event that the product is found to be defective within the warranty period, MSA, at its sole discretion, may either i) repair the product; or ii) replace the product with a comparable product which may be new or remanufactured; or iii) refund the amount paid for the product, less a reasonable allowance for usage, upon its return. Any repair service will be provided free of charge at the authorized service center in the country in which the product was purchased.

Warranty Period

This limited warranty is valid for one year from the date of purchase by the customer. In the event the date of purchase by the customer cannot be established by a valid Warranty Registration or other evidence reasonably acceptable to MSA, the warranty will run from the date of manufacture of the product.

To Obtain Warranty Service

Warranty service is available in the authorized MSA service centers addresses of which are available from the MSA website or by returning the defective product to MSA, marked for the attention of the Service Manager at Unit 9, Beeches

Industrial Estate, Yate, BS37 5QT, UK. Any costs of secure transportation of the product to and from the service center or MSA will be borne by the customer. If the product was brought into a country which does not accept the MSA warranty card, the product must be returned to the country where it was purchased in order for it to benefit from the warranty.

Limitations

MSA does not warrant the following:

- Periodic check-ups, maintenance and repair or replacement parts due to normal wear and tear
- Failure to carry out periodic examinations as required by the product user instruction manual
- Defects caused by modifications carried out without MSA approval
- Costs incurred by MSA in making any adaptations or modifications of a product necessary for country specific technical or safety standards or specifications, or any other costs to adjust the product as result of any specifications which have changed since the delivery of the product.
- Damage resulting from the fact that a product is not conforming to country specific standards or specifications in another country than the country of purchase

Warranty repair service is excluded if damage or defects have been caused by:

- defects resulting from fair wear and tear, misuse, neglect or failure to carry out the inspection/certification procedure recommended by MSA;
- defects in goods which have been modified by someone other than MSA;
- defects in goods on which the identification numbers or marks have been altered or removed;
- defects in goods resulting from the use of a part or attachment or equipment fitted by someone other than MSA;
- Where, without the prior approval in writing of MSA, the goods contain components not listed on the MSA price list.
- If the total price of the goods was not paid by the due date of payment;
- Where the provisions and requirements of the latest product/goods Manual, technical and installation data sheets have not been complied with;
- The surface to which the goods are to be fixed. The customer shall ensure that all surfaces are suitable and that full account has been taken of all design considerations, including but not limited to, wind loads;
- Corrosion or other effects arising from elements within the area in which the goods are installed arising from entrapment of pollutant, arising from abnormal atmospheric pollution or contact with aggressive fumes or chemicals;
- Direct or indirect contact with corrosive material;
- Exposure to continuous temperatures, howsoever caused, greater than 50° C (125° F) or less than 2° C (35.6° F)
- Exposure to abnormal winds, ie those at or in excess of Force 12 on the Beaufort Scale;
- Fires, lightening, flood, explosion, abnormal winds, earthquake, acts of war, civil commotions, radiation, falling objects, vandalism and other extraneous causes;
- Consumable items such as pulleys, brackets, extension wires, tether lines, attachment brackets, rescue poles and anything else designated as such in the MSA manuals, technical or installation instructions, proposal or quotation as not being within MSA control shall be at the sole risk of the customer upon delivery to the customer;
- Variation in color, discoloration or degradation as a result of UV exposure to any goods or attachments. The customer must request advice from MSA if goods are to be installed in a severe hot climate as defined by the EOTA Technical Report TR010 (May 2004)

Statutory Rights

This warranty does not affect the customer's statutory rights under applicable national legislation in force, nor the customer's rights against the retailer arising from the sales/purchase contract. In the absence of applicable national legislation, this warranty will be the customer's sole and exclusive remedy, and neither MSA nor its subsidiaries shall be liable for any incidental or consequential damage for breach of any expressed or implied warranty for this product.