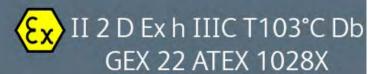


EX-certified Cutting tools

User Manual Cutting Tools

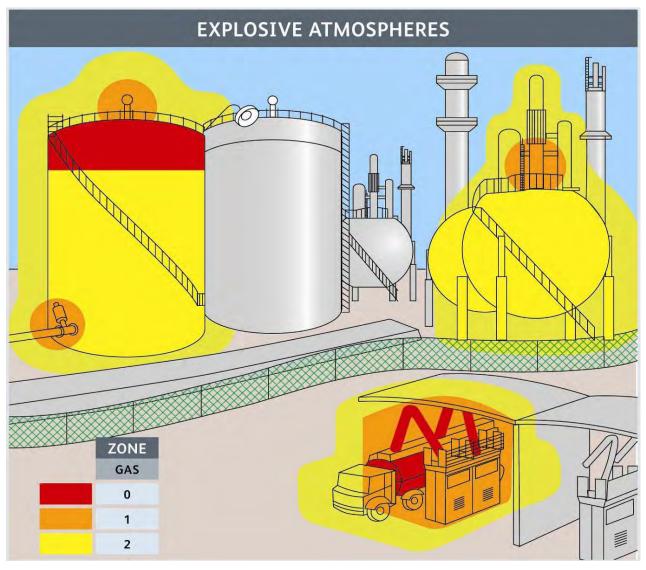






Cut the heat - Cut the risk





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Important Safety Information - Read before using Safety Tools



Always keep this Manual in a safe and accessible place

Keep this instruction manual for future reference. Additional safety information may be available from the authorized agent in your country. Consult them when necessary. Do not remove or allow any labels or markings on the tool to become obscure.



Important safety information

Read these instructions thoroughly before use. Failure to do this may result in serious injury. The user of this equipment must be competent in its use. The user must ensure that the equipment is selected, installed, and used according to regulations and is checked thoroughly before use. The equipment must only be used for its intended purpose and be maintained regularly.

Safety is a primary consideration when using Safety Tools equipment. The tools should be used correctly with a good understanding of how to use the tools safely. The tools, together with attachments and accessories, should only be used for the purpose for which they were designed. Safety devices and accessories supplied should be used appropriately. Do not use outside the design intent unless first agreeing upon such use with the manufacturer and authorized agent. Read and fully understand all the instructions before installing, using, servicing, or maintaining the equipment. Training is available through Safety Tools Allmet and the authorized agent in your region. Training from Safety Tools Allmet and the Authorized agent in your region is required prior to using Safety Tools Cutting & Weld Seem Removal tools.

Training can also be performed using Livestream services such as Microsoft Teams and Zoom.



WARNING

Before using or servicing the tool, read and understand the following information to reduce the risk of injury. The features and descriptions of our products are subject to change without prior notice.

This product is designed for cutting & removing material using abrasives. The abrasives are very hard and solid (9.7+ Rockwell scale). No other use permitted - for professional use only.

Before servicing the pneumatic tool, the compressed air supply must be disconnected or shut off.

Training is required before using Safety Tools Cutting Equipment. Safety Tools Allmet offers training at our office in Norway, offsite, and with the use of Microsoft Teams and Zoom. Training is also available through the Authorized Agents.

*See water control box information on pages 17-19



Disposal

When disposing of components, lubricants, etc., ensure the relevant safety procedures are carried out.



Air Pressure

Check hose size and air pressure. The air pressure at the tool inlet with the grinder running shall not exceed the maximum operating pressure of 7 bars or lower if otherwise specified. The tool is designed for a working pressure of 6.3 bar (90 psi). The compressed air must be clean. The installation of a filter is recommended. For maximum efficiency and performance, comply with the specification of the air hose (antistatic, earthed hose). Avoid the risk of hose whipping – regularly check the hose, hose fitting, and clamp conditions.

Always use the correct and clean air hose and fittings and check that they are all in good condition and are correctly installed. Do not use damaged, frayed, or deteriorated hose end fittings. Replace them when necessary. Always store hoses properly. A hose failure can cause injury. The air hose may come off and whip. Use only antistatic hoses in ATEX zones. Air should be supplied at a constant pressure of 6.3 Bar at the tool with the trigger fully depressed. In-line lubricators and air filters are not required unless the plant air supply is likely contaminated. Adding air engine oil to the tool after prolonged use is recommended. See maintenance information in the user manual.





Water Pressure

Check hose size and water pressure. The water pressure shall not exceed the maximum operating pressure of 4 bar. The tool is designed for an optimal working pressure of 2.3 bar. The water must be clean. The installation of a filter is recommended. For maximum efficiency and performance, comply with the hose specification (antistatic). Avoid the risk of hose whipping – regularly check the hose, fitting, and clamp conditions.

Always use a clean water hose and fittings and check that they are all in good condition and are correctly installed. Do not use damaged, frayed, or deteriorated hose end fittings. Replace them when necessary. Always store hoses properly. A hose failure can cause injury. The hose may come off and whip. Use only earthed hosing in ATEX zones. See Gexcon report. Water should be supplied at a pressure greater than 4 Bar for maximum efficiency.



Cutting Temperatures

Safety Tools Allmet Explosive tests were performed using a robotic system. Using non-mechanical systems to reach high heat levels is impossible when the tools are used under human conditions. The average temperature range when using the Safety Tools Allmet Cutting equipment is 25°C - 45°C. It is not possible to exceed 100°C (T4) when using Safety Tools Cutting equipment under normal human conditions.

Safety Tools Ex Grinding Equipment is suitable for ambient temperatures greater than -20 °C to 40 °C. (see Special Conditions for safe use on Pages 7-8).

- The air supply must be dry & clean.
- Water Supply should be clean (filter recommended) and above 4 bar.



Types of Steel Tested

Safety Tools Allmet performed testing on the following material types:

- Stainless Steel Grades 304/316
- Carbon steels
- Titanium
- 6Mo stainless steel

*All excess metal fragments must be removed from Safety Tools discs prior to use.



Maintenance

To obtain maximum efficiency from the pneumatic tool, preserve its features, and avoid repeated repairs, a routine inspection and repair program are recommended at least every 1000 hours. The intervals between the various inspections depend on the amount of exertion on the power tool.

Safety Tools ATEX-certified Air Tools must be properly maintained and tested by competent and trained personnel. The tool should be taken out of service for examination and repair at any sign of malfunction or unusual behaviour. If repairs are necessary, contact the authorized agent in your country. It is recommended to dismantle air tools for overhauling and cleaning after 500 hours of operation or once every six months.

- After cleaning the tool for use, ensure it has been correctly assembled. With all fasteners tightened.
- Check the rotation frequency of the tool without an attached disc after each Maintenance or service.
- If you are uncertain about the correct way to service a tool, contact the authorized agent in your region.
- Only trained people should service and maintain Safety Tools Allmet equipment.

*See water control box information on pages 15 - 18 of this Manual.



Check the free speed of the tool at regular intervals and after each operation or maintenance task. Remove the disc to check the speed. The maximum allowed speed shown on the tool must not be exceeded, and the vibration level must not be excessive.

Air Engine speeds

Our cold cutting tools are designed for use with the following ATEX-certified air tool:

Engine type	RPM	Max air pressure	Air hose diameter
(A-0105) Fuji FCD-10X-52 special	1000	6,3 Bar	9.5mm (3/8 inch)



Noise

The operator must wear ear protection when the noise level at their position exceeds 83dB or 85 dB. It is recommended that the operator wears the ear protector even if the noise level is less than 83dB or 85 dB.

Noise levels while grinding with Safety Tools Equipment.

- The lowest reading is 80 dB
- The highest reading is 85 dB
- The average reading is 80.5 dB



Vibration Analysis HAV

Safety Tools Allmet tools have a low vibration level. Follow the guidelines for vibration wherever you are. 3-part testing shows an average vibration level of $<2.5 \text{ m/s}^2$.s



Posture

Safety Tools are generally used as a hand-held unit. It is recommended that it is used while standing on a firm surface. It may be used in other positions, but it is important that the operator is secure and has a firm grip and footing. Refer to risk analysis document for further guidance.

Safety Tools Allmet also has Robotic Systems and Automated Tool Guides. Contact Safety Tools Allmet or the Authorized Agent in your region for more information.

Protective Equipment











Always wear the necessary protective equipment when using this equipment. Safety goggles/face shields, gloves, and hearing protection are required. Ensure all clothing is close fitting to prevent becoming snagged in moving parts.

Safety Goggles/face shield	Mandatory
Hearing Protection	Mandatory
Safety Gloves	Mandatory
Safety Hat	Optional
Respiratory Protection	Optional

Follow local guidelines.



Special Hazard Conditions for Misuse



Projectile Hazards for Misuse

- Always wear impact-resistant eye and face protection when involved with or near the operation, repair or maintenance of the tool or changing accessories on the tool.
- Make sure all others in the area wear impact-resistant eye and face protection.
- Even small projectiles can injure eyes and cause blindness.
- Use barriers to protect others from wheel fragments and grinding sparks.
- We recommend to weekly/monthly measure the air tool speed with a tachometer to ensure it is not greater than the RPM marked on the grinding accessory.
- Tools / Equipment and its accessories must not be modified in any way.
- Before use, all excess metal fragments must be removed from Safety Tools discs. Soft metals such as aluminium can generate sparks when mixed with other metals. Safety Tools recommends using a separate disc on different types of steel.

Entanglement Hazards for misuse

- Keep away from rotating drive spindle and abrasive. Rotation will continue for several seconds after the throttle has been released. Do not lay the tool down until rotation has stopped.
- Do not wear jewellery or loose clothing.
- Choking can occur if neckwear is not kept away from tools and accessories.
- Scalping can occur if the hair is not kept away from tools.

Mounting Hazards for misuse

- Shut off the air supply, relieve the air pressure hose, and disconnect the tool from the air supply when changing accessories.
- Shut off the water supply, relieve the hose of water pressure, and disconnect the tool from the water supply when changing
 accessories.
- Use only recommended disc A-0502 or A-0503 or alternative re-sharpened versions of these discs.
- Do not use files or discs that are cracked.
- Correct mounting is necessary to prevent injury.
- Safety Tools Air Tools are specially designed to work only with Safety Tools Cutting Discs. Only Use Safety Tools, Air Tools and Accessories as they are intended. Do not use it with other accessories or Air Tools/power tools.

Operating Hazards for Misuse

- Operators and maintenance personnel must be physically able to handle the tool's bulk, weight, and power.
- Ensure that the workpiece is adequately supported.
- Maintain a balanced body position and secure footing.
- Avoid contact with rotating spindle and accessories to prevent harming hands and other body parts. Wear protective equipment.
- Do not use if vibration becomes excessive: check the accessory for damage or incorrect mounting.
- Electrostatic discharge is risky if used on plastic and other non-conductive materials.

Workplace Hazards for Misuse

- Slip/Trip/Fall is a major cause of severe injury or death. Be aware of excess hose left on the walking or work surface.
- High sound levels can cause permanent hearing loss. Use hearing protection as recommended by your employer or occupational health and safety regulations.
- Repetitive work motions, awkward positions, and exposure to vibration can harm hands and arms. If numbness, tingling, pain, or skin whitening occurs, stop using a tool and consult a physician.



Air Supply and Connection Hazards for misuse

- Air under pressure can cause severe injury.
- Always shut off the air supply, drain the air pressure hose, and disconnect the tool from the air supply when not in use, before changing accessories, or when making repairs.
- Never direct air at yourself or anyone else.
- Hose whipping can cause serious injury. Always check for damaged or loose hoses and fittings.
- Whenever universal twist couplings are used, lock pins must be installed.
- As stated on the tool nameplate, do not exceed the maximum air pressure of 6.3 bar/90 psi.
- Check and maintain air hoses regularly.
- The ambient temperature for safe use must be greater than 0°C.
- Use only Antistatic hoses with minimum 1 M Ω resistance. Safety Tools Allmet can supply suitable houses.
- Make sure the air supply is clean and dry.

Water Supply and Connection Hazards for Misuse

- Water under pressure can cause severe injury.
- Always shut off the water supply, drain the air pressure hose, and disconnect the tool from the water supply when not in use, before changing accessories, or when making repairs.
- Never direct water at yourself or anyone else.
- Hose whippings can cause serious injury. Always check for damaged or loose hoses and fittings.
- Whenever universal twist couplings are used, lock pins must be installed.
- Do not exceed the maximum water pressure of 10 bar from a water supply
- Check and maintain water hoses regularly.
- Make sure the water supply is clean.
- The ambient temperature for safe use must be greater than 0° Celsius. Water may freeze at a temperature close to 0° Celsius. Make sure water does not freeze before use.

Special Conditions for Safe Use

- The air tool must be earthed for use in an Atex Gas zone 1. The supply air hose can be of an antistatic type with a minimum 1-Mohm resistance. Alternatively, can the water control box A-0310 be grounded with a cable with a grounding clamp. The air hose following the equipment from the A-0310 water control box to the air tool is of antistatic type with satisfactory ohm resistance. STA can supply Suitable air houses for the supply of air.
- For use in Atex gas zone 2, there is no requirement for an antistatic or earthed hose. The person is itself recognized as earthed enough. Antistatic hoses can be used in Atex gas zone 2 or in a non-gas-rated area.
- For use in a dusty environment, ensure the workplace is clean for dust accumulation before use of A-0300, A-0301, or A-0302. Make sure the water control system is working.
- Maximum air supply pressure when running is to be set at 6,3 Bar.
- The discs A-0502 and A-0503 shall only be used with an air tool with max 1000RPM and can only be used against the
 following listed materials:
 - o Stainless steel grades 304/316
 - o carbon steels
 - o 6Mo stainless steel
 - o titanium.
- The air tool must only be supplied from the water and pressurized air controller A-0310 WATER CONTROL BOX.
- Water cannot be used as a cooling medium at ambient temperatures below 0°C.
- For ambient temperatures below 0°C, an isopropanol/ethanol-water mixture with 50% water can be used as a cooling medium.



Older equipment from Safety Tools may have pre-existing markings referencing the old certificate, Ex II2GcT4. These pre-existing markings may be combined with the new marking, Ex II2GDExhIIAT4Gb, or in short form Ex II2GDExh. This combination can consist of one or more of the following:

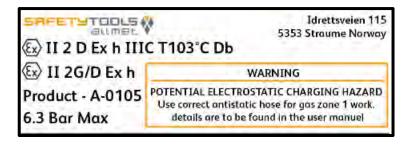
- Both marking types are on the same equipment.
- Two separate pieces of equipment, each with one of the marking types
- The equipment itself has not been changed during the certificate update, and any pre-existing markings are to be considered the same equipment as equipment with the new markings.

Markings for the cutting and weld seam equipment A-0301, A-0302 and A-0303 may have some design differences, but should contain this information:

A-0310 water control box Marking:



Airtool A-0105 Marking:



A-0502 Cutting disc Marking:



A-0503 Weldseam disc Marking



Preparations:

Before Start-up

- Ensure the workstation/work area and the surroundings are safe and clear of oil, grease, dust, etc.
- Ensure sufficient space for the cutting tool and the task to be carried out.
- Provide the best access for air hoses.
- Provide the best access for water hoses.
- Verify that the working pressure is 6,3 bar for the Air engines. (Air pressure)
- Verify that the water pressure supply to the control box is above 4 bar and maximum 10 bar.

WORKING POSITION

- Use the correct lifting technique. Do not use the hose as a lifting handle.
- Adopt a good stance and avoid overreaching
- Make sure that air hoses are fitted with whip checks.
- Make sure that water hoses are fitted with whip checks.



ASSEMBLING THE TOOL

- The operator must use the correct tool for the task at hand.
- Install the rotating disc.
- Do not exert unnecessary force during this work, let the tool do the job.
- Ensure that the equipment has the required marking according to the ATEX. / Gexcon certificate.
- Do not modify the tool without first contacting Safety Tools Allmet
- Do not use the tool until you are entirely familiar with its operation.
- For use in Atex gas zone 1, the equipment must be earthed. The use of an antistatic air hose is sufficient, but alternative use of a grounding clamp is also an alternative (see page 7 for details)
- Do not use the equipment if it emits unusual sounds, unusual vibration, or if the speed (RPM) varies.
- Do not touch a rotating file or disc during operations, which may lead to injury.
- If you have long hair or wear loose garments/jewellery, avoid your hair or garment/jewellery being caught in the equipment. Make sure hair and garments/jewellery are not near the rotating parts.

READY FOR USE

- Lubricate the air engines. After prolonged use, one drop of air motor oil into the air supply connector is optimal.
- Make sure that the cutting tool is fitted with safety START \STOP
- Make sure that the air hose has been installed correctly. Check all connections
- Inspect the hoses visually to ensure that they do not leak air.
- Test the machine by using the tool for approx. Thirty (30) seconds to ensure everything has been correctly installed.

START-UP OF ROTATING DISCs

- Wear mandatory personal safety equipment
- Make sure that you use the appropriate working posture.
- Do not start the rotation when holding the disc on the surface. The disc must rotate when it impacts the material. Do not apply too much force while cutting. Use of less force will increase the efficiency and lifespan of the motor & disc.
- Place the disc on the workpiece and pull it toward you. Guide the disc back and repeat the process until finished.
- The ambient temperature for safe use must be greater than 1°C.
- When changing the disc, ensure the air supply hose is disconnected.
- If there is a prolonged stoppage, isolating and disconnecting the air and water supply is necessary.

AFTER USE MAINTENANCE

- Clean the Air engines.
- Remove excess steel and rust from rotating discs.
- Lubricate the air engine(s). After prolonged use, one to two drops of air motor oil into the air supply connector is optimal.
- Clean and dry the equipment.
- Place the tool in the safety suitcase securely.
- Remove any fragments from the place of work.
- Make sure that the safety suitcase is stored appropriately.
- It is recommended to dismantle Safety Tools Air tools for overhauling and cleaning periodically after 500 hours of operation or once every six months. Service of Safety Tools equipment should only be done by Safety Tools Allmet or an authorized Safety Tools agent.
- Safety Tools Allmet Water Control Box should be serviced and maintained after 500 hours of operation. Contact Safety Tools Allmet or the Authorized Agent in your region for Water Control Box Maintenance information.

^{*}See water control box information on pages 17 - 19 of this Manual.



Cutting & Weld Seam Equipment Overview











A-0310 Water Control Box

The Water Control Box is used to regulate the flow of air and water. There are internal regulators & filters that help to keep a consistent flow. Settings must be adjusted prior to each use. On top there are 4 gauges: Water Inlet, Water Adjust, Air Inlet & Air Adjust. These need to be set according to the information on page 17, 18 and 19 in this manual.

Training is required prior to using through Safety Tools or the authorized agent in your region.

The Fuji Angle Grinder **A-0105** has special guards that are attached to for both the Cutting & Weld Seam Disks.

When used with the Cutting Disk there are also two special chucks that are used to hold the disk firmly in place. The air tool has a male quick connector that fits the air hose.

A-0503 Weld removal disc

The Weld Seam Disk is 10mm thick. On many of the jobs our clients use this disk in combination with our Cutting Disk - at a 45-degree angle.

*All excess metal fragments must be removed from Safety Tools discs prior to use

A-0502 Cutting disc

The Cutting Disk is 5mm thick and gives a very clean cut. It works more like a milling tool than a cutting tool. The special design of the cutting teeth and the hardness along with the slow rotation speed our air tool allow it to cut through very dense steel.

*All excess metal fragments must be removed from Safety Tools discs prior to use.







The Armored Hose has both water and air incorporated into it. See Gexcon Certificate for detailed information.

Air hose has a quick Safety connector that fits the Fuji Air tool A-0105. (*Not shown in picture*)



A-0073

The Guard for Cutting System attaches to the Fuji Angle Grinder (A-0105) with a Phillips head screwdriver.

In the corner there is a hole where the Water Nozzle Connector (A-0079) is attached.



A-0074

The Guard for Weld Seam System attaches to the Fuji Angle Grinder (A-0105) with a Phillips head screwdriver.

In the corner there is a hole where the Water Nozzle Connector (A-0079) is attached.



A-0079

Water Nozzle with Connector is the water supply line incorporated into the hose system.

Screwed into the Guard before it is attached to the water supply hose. It shall not be screwed into the disc itself.







A-0077A

(This picture shows back and front side of the <u>Front</u> chuck)

The Front Piece of the Cutting Disk Chuck is attached after the Cutting Disk.

The back view should be faced towards the Cutting Disk. Use the Chuck Key to tighten.



A-0077C

This picture shows back and front side of the <u>Back</u> chuck)

There are two Cutting Disk Chucks. The Back Piece should be placed back view towards the Air Tool.



A-0206 Chuck Key

The 36mm Chuck Key is used to tighten the front piece of the Cutting Chuck.

Insert the two sprockets into the front piece of the Cutting Disk Chuck and turn clockwise to tighten and counterclockwise to loosen.



19mm A-0204 22mm A-0208

The 19mm and 22mm Spanners are used for fastening and loosening of our weld removal disc A-0503.



Cutting & Weld Seam removal System



Safety Tools Air Tools, Cutting Disc & Weld Seam Disc

Safety Tools Allmet has two Discs that can be attached to our Ex-Air Tool (A-0105). Cutting Disc (A-0502) and Weld Seam Removal Disc (A-0503). Both discs have separate attachable safety Guards for use with the Air Tool A-0105. (see page 11).

Both discs also are secured with a different method.

*See pages 15-16 for the Cutting Disc and 14 for the Weld Seam Disc.

Water Control Box

Both systems use water and air that flows through our Water Control Box (A-0310). Set water adjustments before each use, which helps regulate a consistent water flow between 2.0 & 2.2 Bars. Water usage is approximately 6 litres per hour when the flow is appropriately set.

There are four (4) gauges on top of the box:

- Water Inlet Water pressure into the box 4 Bar Minimum
- Water Adjust Set using water adjustments on the side of the box (see arrows above)
- **Air Inlet** 7.3 Bar Optimal
- **Air Adjust** 6.3 Bar Maximum

^{*}See Water Control Box operating instructions on pages 17 - 19 of this Manual.



Weld Seam Disc Mounting







When attaching and removing the Weld Seam Disk (A-0503) to the A-0105 Air Tool you will need the following accessories:

- 19mm spanner.
- 22mm Spanner.
- Vise with soft grip (optional not pictured)

Below left picture:

- Attach using gloved hands the Weld Seam Disk to A-0105 Safety Tools Ex-Air Tool
- Screw Disk threads clockwise to put on. and counterclockwise to take off the Weld Seam Disk

After the Weld Seam Disk is attached examine the Guard for Weld Seam (A0074) - if needed adjusts using a Philips Screwdriver (*not included*).

The guard must not be in contact with the Weld Seam Disk

Make sure the Water Nozzle with Connecter (A-0079) is secure and in place.

The water nozzle must not be in contact with the inside of the Weld Seam removal Disk.

To complete the tightening of the Weld Seam Disk, use both 22mm and 19mm Spanners.

- Place the 22mm Spanner on the Weld Seam Disk as shown in picture and tighten/loosen.
- Place the 19mm Spanner on the inside sprocket of the Weld Seam Disk and hold firmly in place.

To remove the Weld Seam Disk, **reverse** the process.

Notice.

- Only Trained personell should remove or attach the Weld Seam Disk to the Air Tool.
- We recommend wiping a little copper slip grease in the threads of the disk before and after use.



Cutting Disc Mounting



When attaching and removing the Cutting Disk (A-0502) to the A-0105 Ex Air Tool you will need the following accessories:

- Cutting Disk Chuck Front (A-0077A)
- Cutting Disk Chuck Back (A-0077C)
- Chuck Key (A-0206)
- 36mm Spanner

Start with mounting the guard for the cutting disc.

*Only trained personell should mount / dismount the cutting disc on the air tool.



Step 1

Place Cutting Disk Chuck (A0077C) back view first on to the (A-0105) Air Tool sprocket.

Make sure it is fit into the notched spindle extending out of the air tool.

*Only trained personell should mount / dismount the cutting disc on the air tool.



Step 2

After the above step is completed, the picture to the left is how the mounting should look.

The Chuck plate back A-0077C is now mounted.

At this stage you are ready to put on the Cutting Disk (A-0502).

Go to step 3.



Cutting Disc Mounting continued



Step 3

IMPORTANT!

Put on the A-0502 cutting disc and make sure that the text and ATEX symbols are facing the **front** side towards you.

*Only trained personell should mount / dismount the cutting disc on the air tool.

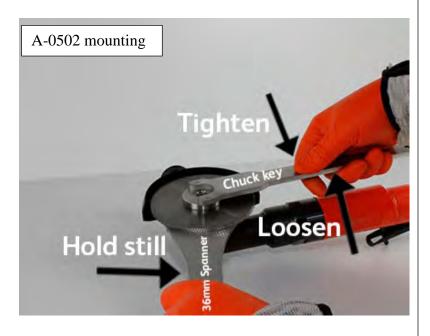


Step 4

After the Cutting Disk (A-0502) is in place, screw on the front piece of the Chuck plate (A-0077A) back view facing the disk.

Screw on clockwise by hand until tight.

*Only trained personell should mount / dismount the cutting disc on the air tool.



Step 5

To complete the tightening of the Cutting Disc, use the **Chuck key** and the **36mm Spanner**

- 1. Fasten the 36mm Spanner to the back chuck (*See step 2*)
- 2. Place the Cutting Chuck Spanner into the two holes of the front piece of the Cutting Chuck.

Fasten and loosen as shown in the picture.

*To remove the Cutting Disc, reverse the process.



Water Control Box



Connector threads can be changed to meet your standards.







Water Control Box - Introduction

Safety Tools Allmet sends out the Water Control box with Cejn Serie 310 ¼ inch BSP connectors (outside threads).

Connector threads can be changed to meet your standards.

If you have any questions, contact Safety Tools Allmet or the authorized agent in your region.

Adjustments & Inlets

On one side of the Water Control Box there is:

- Water Inlet Adjustment controls water flow in
- Water Outlet Adjustment -regulates water flow
- Water Drain Drains excess water
 - o Use before and after set-up to drain water
- Water Inlet Connect water into box
- Air Inlet Connect air into box

*Only Trained personell should operate the Water Control Box.

Air & Water Outlets

On the opposite side of the Water Control Box there is the Air & Water outlet.

This is where the hoses from the T4 Ex-Air tool is connected. Connect the water before the air.

- Air Outlet Air flows from Water Control Box to Air Tool
- Water Outlet Water flows form Water Control Box to lubricate Cutting & Weld Seam Discs

*Only Trained personell should operate the Water Control Box. .



Water Control Box overview







Gauges

There are 4 gauges on top of the Water Control Box.

- Water Inlet 4 Bar minimum
- Water Adjust 2.0 2.2 Bars
 - Use water adjustments valves on side to set, keep air tool running while doing this.
- Air Inlet 7.3 Bar Optimal
- Air Outlet 6.3 Bar Maximum (*under use*)

*Only Trained personell should operate the Water Control Box.

Water Gauges

The Water pressure into the box needs to be:

- 4 Bar minimum
- 10 Bar maximum

The Water Adjust Gauges need to be adjusted between 2.0 to 2.2 for the Air Tool to operate.

If the water pressure goes below 1,6 bars the tool will automatically shut off. If the water pressure goes above 2.5 bars the tool will automatically shut off. If this happens, adjust accordingly.

Air Gauges

- Air Inlet (7.3 Bars Optimal)
- Air Adjust (6.3 Bars Maximum)

*Only Trained personell should operate the Water Control Box.



Setting the Water Control Box for use







Step 1

- Make sure Water Drain valve is closed.
- Turn Water Inlet Adjustment valve clockwise until closed.
- Turn Water Outlet Adjustment valve clockwise until closed.
- Attach Air & Water hoses to Inlets.
- Attach air and water hose from Air tool to water outlet and air outlet on the control box.
- Turn Water **Outlet** & Water **Inlet** valves Adjustments approximately $1/16^{th}$ of a turn counterclockwise (open).

Step 2

- Hold Air Tool Trigger on and check flow of water flowing from the Water Nozzle to the Disk. It should be a light spray. Adjust water outlet adjustment valve to desired water flow.
- Continue to hold the trigger on the Air Tool and gently adjust the Water Inlet Adjustment valve so that the Water Adjustment Gauge is set between 2.0 - 2.2 Bars.
- Release Air Tool Trigger and wait for Water Adjust Gauge to drop to Zero.

The system is now set and ready for use. Test by holding the Air Tool Trigger. It may take a few second before Air tools goes with full throttle.





Warnings

Warning statements describe conditions that may lead to personal injuries, including fatal injuries, if the tool is not used correctly and the warnings are not fully followed.

Caution statements describe conditions that may lead to equipment damage.

Warning: Do not use this tool until you are completely familiar with the safe operation of the tool, all accessories,

and safety devices. Improper use can lead to severe injury. This

Manual defines the proper use of this equipment. Before using this tool for any other use, please consult the manufacturer. Please consult your dealer if you do not understand any part of this Manual or operating

procedure for this tool

Warning: Always shut off and disconnect the tool from the energy source when not in use or left unattended for any

time. The air in the tool and supply hose should be discharged prior to disconnecting from the energy

source.

Warning: All excess metal fragments must be removed from Safety Tools discs prior to use.

Warning: Do not lay the tool down until all rotating parts have come to a complete stop.

Warning: The Tool should be earthed via proper connection to a certified air hose.

Warning: All air hose connections should be secured using" whip-check" restraining devices

Warning: Do not exceed the maximum air pressure.

Warning: Always use safety goggles with this tool. Ordinary safety spectacles are not suitable. Full face shields

may also be used.

Warning: Use gloves always when using this tool. Gloves should be suitable for the task

Warning: Adding unsuitable accessories can create hazards. Use accessories or attachments only in accordance with

the operating instructions.

Warning: Do not wear loose clothing while operating this tool. Neckties, rings, bracelets, or other jewellery may get

caught in the tool and should be removed or covered. Suitable non-slip footwear is recommended. Wear

protective hair covering to contain long hair.

Warning: Keep a sound footing and balance at all times. Don't overreach. A rotating disc can catch an article of

clothing and cause personal injury.

Warning: Secure work. Use clamps if necessary to secure the workpiece.

Warning: Only use this tool in well-lit and ventilated areas. If necessary, wear respiratory

Protection from dust created from the use of this tool

Warning: Do not fit any damaged accessories to this tool. Only use accessories in good condition, free from visible

cracks.

Caution: Use the correct tool. Don't force tool or attachment to execute a task for which it is not intended