



Leading manufacturer of airgun regulators and accessories

Air Tank Regulator suitable for



And many other Airgun brands and models

with standard tank thread M18x1.5



Congratulations on your purchase of the Altaros air regulator for air tank. We believe you will be fully satisfied with our product and this regulator will provide you with desired results on your airgun.

This manual has been written to ensure maximum safety when installing and operating the regulator. Since you are working with a device that is operated at very high pressure, take maximal effort and attention to explore this manual. When is high pressure used incorrectly, a dangerous and deadly situation may arise, keep this in mind and approach high pressure issue very carefully since all responsibility for your health and health of your loved ones is up to you!

Draining the airtank and unscrewing the valve

First, it is necessary to drain the bottle to zero pressure, otherwise, the valve can not be safely unscrewed. For the first unscrewing of the valve from the bottle, it may be necessary to hold the bottle in the vice, but first, try unscrewing the valve by simply holding the bottle in your hand. If unscrewing valve by hand is not possible to attach bottle into the vice. To avoid scratching the bottle when it is attached to the vice, it is advisable to wrap it with the sandpaper with the smooth side towards the bottle.

Installation and position of the regulator between the bottle and the valve

First, the valve is screwed into the regulator. You need to be sure there is an o-ring in the regulator groove. Then screw the regulator back into the bottle and again check the presence of the o-ring in the bottleneck.

For tightening, use a screw that you use as a lever (tighten regulator slightly). The screw can be screwed into the pin or manometer side holes - never use a pin or pressure gauge as a lever to un/screw regulator!



Check the cleanness of the O-rings used on the pressure gauge and the filling pin, and that the small o-ring at the bottom of the filling pin is slightly squeezed between the pin wall and the bolt head (not too much, but not too little - slightly with fingers only). Screw the pressure gauge and manometer into the regulator body only with your fingers (not with a wrench or pliers!) So that the upper stopper of the manometer and the pin touches the regulator surface. The position of the filling pin and the pressure gauge on the regulator can be changed.



Filling pin

For the initial regulator, the installation uses basic o-rings, which are already present in the regulator's bottom groove.

In case that position of your manometer/pin does not suit to your airgun, use one of the following combinations of sealing rings to change the position of the holes on the regulator. All rotations, number of turns are compared to a basic position with o-ring.

Basic position with o-ring:Basic position with o-ring:



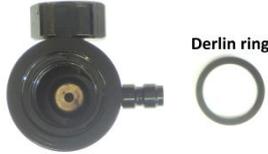
Basic o-ring + bigger steel ring = rotation 1/3 turn:



Basic o-ring + small steel ring = rotation 1/2 turn:



Black derlin o-ring (Used only without ruber o-ring !!!) =Rotation 3/4 turn:



Bassic o-ring+ small steel ring + bigger steel ring =Rotation 4/5 turn:



Other possible combinations, Derlin + stell ring,Derlin+ 2 steel ring, etc.

Once the optimal position is found, make sure that both the filling pin and the manometer are screwed into the regulator. Regulator screw-in airtank/valve and the valve screwed into the rifle body. If so, you can proceed to the first airtank filling.

Initial filling

NEVER fill through the original filling on the rifle, always fill only through the filling pin on the regulator. Pressure in air tank is always shown on the regulator manometer. If you fill through the original filling pin there is a chance that you damage regulator, or cause the bottle to be pressurized to a higher pressure than recommended by the manufacturer. If you have a manometer on your air tank then this manometer will show you regulated pressure! When attaching the quick coupler to the pin, be careful that the ball lock of the quick coupling is properly locked on the filling pin. The first filling does with pressure around 2-3 bars per second. According to the bottle type, it can be pressurized up to 250 bar (3600 PSI). After your filling is done, bleed the pressure out of the filling system and remove the quick coupling from the regulator filling pin.

How to set the required output pressure on the regulator

Altaros regulator output pressure can be set from 100bar (1450 PSI) to 150bar (2200 PSI). For a quick set is on the regulator engraved scale according to which the desired output pressure can be set. Never un/screw setting plastic screw out of scale range. The total scale range of 100-150bar corresponds to approximately 2/3 turn. Unscrewing, or screwing setting screw more than 1 turn may result in a malfunction of the regulation and scale will not show you regulated pressure. Groove on red marked half of setting plastic screw represents pointer which shows you currently set pressure on the scale. To change the pressure on the regulator, just simply rotate the set screw with the flat screwdriver in the appropriate direction according to the regulator scale.



Troubleshooting:

- 1) It is not possible to fill the bottle – small o-ring on bottom of filling pin is too squeezed, a bit unscrew small screw on pin.
- 2) After the filling, the pressure escapes through the hole on the pin – small o-ring on bottom of filling pin is too loose. Screw small screw slightly.
- 3) The pressure leaks around the pin/manometer- Check small o-ring, it has to be clean without any damage. Screw manometer/pin till stopper touch surface of the regulator. Screw it always by fingers only.

Contact informations:



Altaros Air Solutions s.r.o.

Liberec, Czech Republic

www.altaros.cz E-mail : regulator@altaros.cz