

HUMA-AIR.COM

Market Leader In Accuracy

Welcome to Huma-Air. We design and manufacture brand- and model specific precision regulators for PCP air rifles.

By using only the highest quality materials such as aircraft grade aluminum, aluminum-bronze, chrome-moly steel and precision belleville springs, our ultra-compact regulators are high performing with less than 1% fluctuation.

Regulator installation guide Brocock Compatto



For adjustment tips, frequently asked questions and a complete list of installation manuals and instructions on how to adjust your Huma-Air regulator

<https://www.huma-air.com/Fitting-instructions>



Or go there directly by scanning the QR code



Before you you start, realize this;

- Working on a high pressure rifle could potentially be harmful or lethal to you or bystanders if you do not know what you are doing.
- The pictures of the rifleparts in this manual are universal and mend as an example to explain the working principle. They might not be equal to the parts in your rifle.
- Do not attempt to install this regulator yourself if you do not have a clear understanding of how these pcp rifles and regulators work.
- Do not attempt to install this regulator if you are not skilled to work on an airrifle; contact your local gunsmith to do the fitting.
- Installation and operation is done completely at your own risk.
- Installing this regulator might void your rifle's factory warranty.
- Your rifle may never be filled higher in pressure as stated in your rifle's manual.
- Do not attempt to fit this regulator in another rifle as mentioned in our order conformation.
- These regulators are not suitable to use as a CO2 to HPA conversion, this could potentially be harmful or lethal to you or bystanders.
- We cannot be held liable for any accidents in relation to this regulator and its installation.

Before you start, make sure that the rifle is unloaded, remove the magazine and make absolutely sure ALL the air is drained from the pressure tube. If there is a pressure gauge, it will give you just an indication. Dry fire the rifle or follow the manufactures instructions and double check to make sure all the air is out of the rifle



If the regulator is fitted and there is no output pressure after filling the pressure tube, something might be wrong causing the airflow to block totally.

Please beware even though there is no output pressure, the pressure tube is fully charged with high pressure air!!

If you are not able to relieve the pressure of the pressure tube according to the manufacture instructions or by dry firing the rifle then:

Contact a professional gunsmith to retrieve a solution!

- **DO NOT** try to unscrew or to open the pressure tube in any way.
- **DO NOT** try to pierce/drill or to use force to open the pressure tube or unscrew parts in an attempt to relieve the blocked pressure.
- **These actions can cause serious injury or death to you or bystanders**

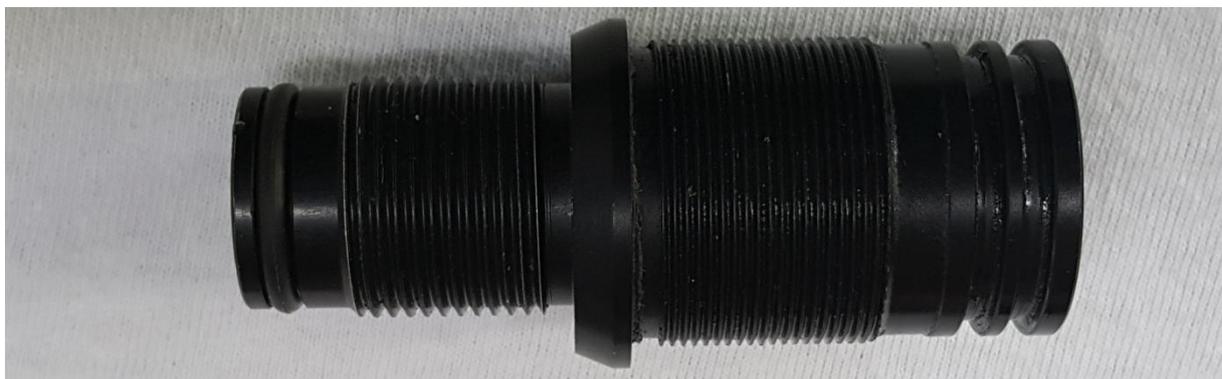
After you have totally drained the pressure tube, mark the breech side of the tube and unscrew it from the action.



Unscrew the adapter from the pressure tube. It can be tight so a piece of rubber or leather belt can help you unscrew it without causing damage.



Remove the 2 o-rings that seal the adapter to the cylinder.



Now take your regulator and using a silicone grease. Grease the o-ring. Lightly grease the inside of the airtube where the reg will sit. This helps sliding in the regulator.

Slide the regulator in the tube about 1 mm further as were it will be pushed in by the adapter. Carefull not to damage the o-rings. The regulator has a tiny breathole, please assemble the regbody with this hole facing upwards to the breech., (when pressurized the regulator will be pushed to the adapter automaticly)



Make the the treads of the tube and valvehouse clean of grease and screw it back into the pressure tube. Tighten it by hand, and after you have tighten it unscrew the valvehouse for about a quarter of a turn leaving a tiny gap between tube and adapter. This will help your regulator to breath free.

Now you can assemble your pressure tube again to the rifle. Check if the gap of about 0,5 mm between adapter and pressure tube is still there, and then pressurize it.

You might re-adjust the hammer spring tension to do the fine tuning to your rifle and adjust it optimal and check if it is within legal limits.

In cooperation with Brocock LTD you can find below some factory guidelines to achieve the best results.

Please note: these are guidelines and they can vary by individual rifles. Only make the modifications when you are convinced of your own skills.

Brocock Compatto setting guideline						
Caliber	Power setting	Regulator pressure	Breech port size (original)	Breech port size (advised)	Barrel port size (original)	Barrel port size (advised)
.177	12 ft/lbs	90-95 bar	2.2 mm	2.6 mm	2.4 mm	2.7 mm
.22	12ft/lbs	70-80 bar	2.2 mm	2.6 mm	2.4 mm	2.7 mm
.177	FAC	120 bar	2.2 mm	3 mm	2.4 mm	3.1 mm
.22	FAC	130 bar	4 mm	4 mm	4 mm	4 mm
.25	FAC	122 bar	4 mm	4 mm	4 mm	4 mm

The regulator is delivered with an extra o-ring. This o-ring is slightly bigger as the one originally fitted and can be used as a compensation of the large cylinder diameter tolerances. So if your regulator does not seal properly or has a noticeable sloppy fit, please exchange the o-ring.

