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Inline regulator

IMPORTANT INFORMATION BEFORE USE

- Always secure your scuba tank firmly or lay it horizontally on the ground, before installing the regulator. The regulator will ad weight what may cause the bottle to fall over
- Make sure the pressure gauge and de-pressurize is tightened before every use
- Always test the outgoing pressure before every use.
- Never pressurize the regulator without a proper fill-set screwed into the regulator.
- Never pressurize the regulator with the setscrew turned in totally. The regulator will block and it won't be possible to unscrew it from the bottle.
- 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 use this regulator yourself if you do not have a clear understanding of how these pcp rifles and regulators work.
- Your rifle may never be filled higher in pressure as stated in your rifle's manual.
- These regulators are not suitable to use in combination with CO2 guns or rifles. this could potentially be harmful or lethal to you or bystanders.
- We cannot be held liable for any accidents in relation to this regulator it's use and installation.

HUMA-AIR Inline Regulator

This regulator with integrated fill set can be used on a 200/300 bar scuba bottle
The regulator is equipped with a pressure indicator and a de-pressurize/bleed screw, so it can be used as a solitary fill set.
You can also screw your existing fill set into the regulator.
The gauge gives a pressure indication. Always refer to the pressure gauge on your rifle or external fill set.

Instructions for first use:
In front of the regulator there is a big bronze set screw
With this screw you can set the maximum outgoing pressure
Screw the stainless steel part of regulator directly into the valve of the scuba bottle,
(If you use an external fill set, it can be screwed into the regulator)
Screw the filling hose into the regulator and close the end of the hose with an end cap,
Now turn the brass bodypart of the reg fully open (1 turn) until the endstop.
Slowly open the valve of the scuba and check the outgoing reg-pressure,
If needed, you can adjust the working pressure by adjusting the big reg set screw.
Close the bottle's valve and de-pressurize the reg before you remove it from the bottle.
Adjust the setscrew according to the tabel below and repeat the steps above
When finished, the regulator is ready for use.

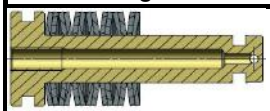
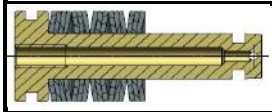
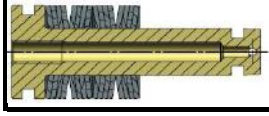
Using and adjusting the regulator:
Screw the reg directly into the valve of the scuba bottle.
Turn the brass bodypart of the regulator fully in (1 turn clockwise) till the endstop.
(If you use an external fill set, it can be screwed into the regulator)
Screw the filling hose into the regulator and close the end of the hose with an end cap,
Slowly open the valve of the scuba and check the outgoing reg-pressure,
You can now raise outgoing pressure by turning the brass body part counter clockwise to the preferred pressure
When you have adjusted the regulator to your wishes you can depressurize the fill hose, remove the endcap and fill your pressure tube.
Never pressurize the regulator without having the fill hose attached. This can cause seriously injury or death.

NOTE: If you want to lower the regulator pressure during use, always open up the de-pressurize screw of the regulator simultainiously with turning the brass bodypart clockwise, so the pressure can be reduced by releasing air.
Lowering the pressure without de-pressurizing will cause damage to your regulator
Raising the pressure can been done during use by turning the bronze part counter clockwise (1 turn till the endstop)

In the collar of the stainless steel part of the regulator there is a M4 allen bolt. You can use this bolt to adjust the force needed to turn the brass body part for the pressure setting.

The regulator comes pre-set in the medium setting, with max outgoing pressure of 200 bar
This setting is the most common setting for average use. If needed you can re-adjust the spring setting to "low or high"
You can change the spring stack in the reg by removing the C-clip in the back of the reg,
Then use an M3 bolt to pull out the reg piston, which holds the spring stack,
Remove the upper o-ring from the piston before changing the spring stack,
Do not forget the white plastic disk on top of the reg piston when re-assembling the reg.

If the position of the pressure gauge is not right when the reg is screwed into the bottle, you can swap the the gauge and bleed screw. The gauge and bleed screw are interchangeable with each other. Remember to move the the pressure gauge O ring if swapping them over. You need to de-presurize the regulator to do this

Base setting*	Maximum outgoing pressure	Spring stacking	Pressure setting (clockwise)
 Low	Max. 125 bar	7 x 2 pc. |(())(())(())((	1/4 turn = 12,5 bar decrease
 Med.	Max 200 bar	1x4 + 4x3 pc. |((((()))((()))(((	1/4 turn = 25 bar decrease
 High	Max 250 bar	4 x 4 pc |))))((((()))))((((	1/4 turn = 28 bar decrease

You will get the best regulating behaviour if your preferred pressure is close to, but below maximum working pressure of the chosen base setting. (if you shoot at 100 bar, chose the low setting. If 180 is desired then chose medium setting)