

ご使用になる前に

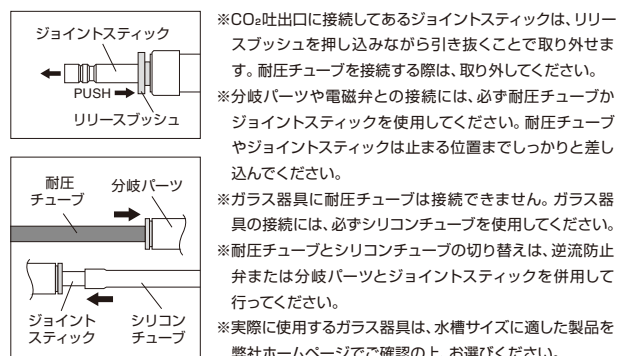
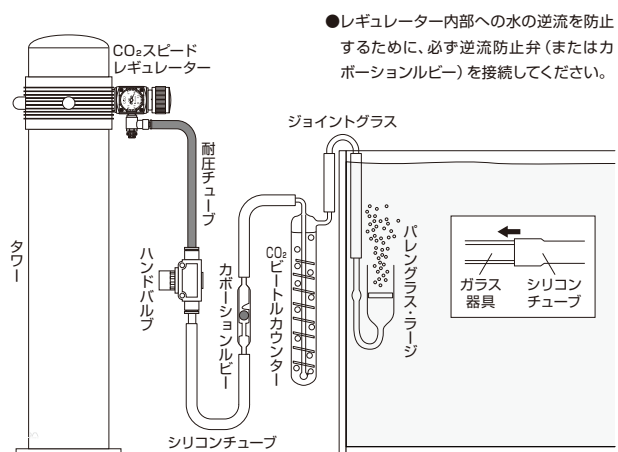
- 本製品をご使用になる前に、必ずこの説明書をよく読み、正しい使用方法を理解した上でご使用ください。正しい使用方法がわからないままのご使用は、絶対におやめください。
- この説明書は、読み終わった後も大切に保管し、必要なときにお読みください。

●安全上の注意

※必ずよくお読みください。

- この製品は、水草および熱帯魚などの育成を目的に開発された製品です。この目的以外には使用しないでください。
- この使用説明書をよく読み、正しい方法でご使用ください。
- この製品は大型CO₂ポンペ専用です。タワーなどの大型CO₂ポンペをご利用ください。CO₂小型カートリッジポンペを取り付けることはできません。
- 液化炭酸ガス以外のポンペには使用できません。誤って酸素ガスのポンペに使用すると、爆発など重大な事故の発生する危険性があります。
- ご使用前に、CO₂ポンペとCO₂レギュレーターを取り付け部に変形やゴミなどの付着、その他の異常がないことを必ず確認してください。
- CO₂レギュレーターを取り付ける際には、必ずパッキンが付いていることを確認し、レンチなどの工具でしっかりと締め込んでください。締め込みがあまりいと、元栓を開いた時に高圧のCO₂が吹き出すおそれがあります。
- CO₂ポンペは必ず立てた状態でご使用ください。横に寝かせた状態で使用すると、CO₂レギュレーターが故障する原因となります。
- 故障の原因となりますので、CO₂レギュレーターやCO₂ポンペは水でぬらさないようにしてください。また、絶対に水中に入れないでください。
- この製品に接続するCO₂添加器具は、ADA純正品をご使用ください。
- CO₂添加器具を接続する際は、必ず逆流防止弁またはカポーションルビー（ガラス製逆流防止弁）を取り付けてご使用ください。水がチューブを逆流すると、CO₂レギュレーターや電磁弁などが故障する原因になります。
- 使用中にCO₂ポンペの表面に白い霜が付着した場合は非常に低温になっていますので、素手で触らずに布などを巻いて取り扱ってください。
- CO₂ポンペからCO₂レギュレーターを取り外す前に、必ずポンペの元栓が開まっていることを確認してください。
- 使用前、使用中、使用後に問わず、CO₂ポンペは絶対に火の中に入れてください。

2.接続例

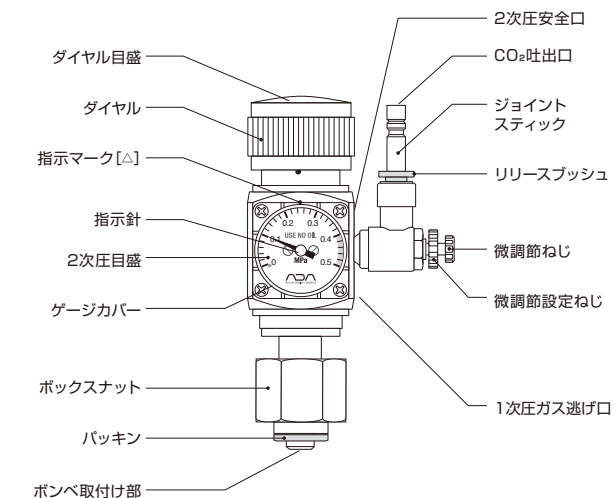


ポンペが破裂する危険性があります。また、直射日光が当たる場所など、高温（40℃以上）になる場所での保管やご使用はおやめください。

- 生体の病気や死亡、水草の枯れなどについて弊社は責任を負いません。
- 子どもの手の届かない所で使用および保管してください。

1.CO₂スピードレギュレーターの特長

CO₂スピードレギュレーターは、大型CO₂ポンペ専用の圧力可変式減圧レギュレーターです。ポンペ内の高圧ガスを、設定した圧力に減圧します。この減圧機能により分岐パーツや電磁弁などを接続でき、多様なCO₂添加が行えます。



ADA
aqua design amano

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MADE IN JAPAN

401303S14JE19B07

English

IMPORTANT

- Before the installation of this product, make sure to read this instruction manual carefully and understand all of its directions.
- Please keep this instruction manual even after reading it and refer back to it when needed.

●Safety Instruction

※Please read carefully

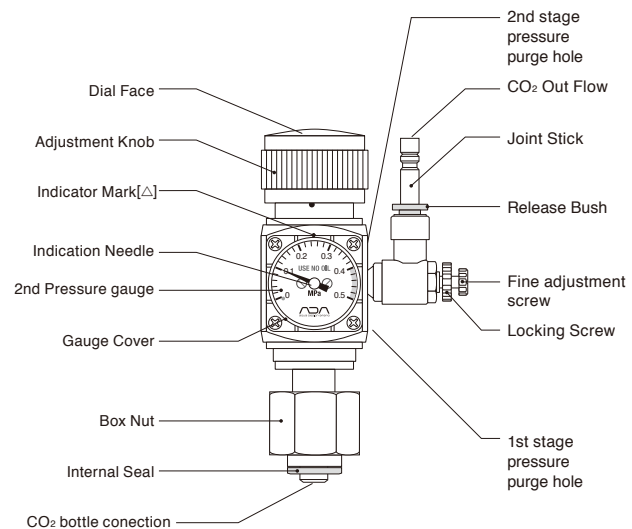
- This product is designed for growing and maintaining aquatic plants and tropical fish in an aquarium. Do NOT use this product for any purpose other than aquarium use.
- Read the instruction manual carefully and use this product properly.
- This product is exclusively designed for a large size CO₂ bottle. It cannot be connected with a small size CO₂ cartridge.
- This is to be used for liquefied CO₂ bottle ONLY. The use of O₂ (oxygen) bottle may lead to serious accidents such as explosion of the bottle.
- Before the attachment of CO₂ regulator, please make sure to confirm the internal seal is in a right place, and fix firmly with tools such as a wrench. If not fixed completely, high pressure CO₂ gas may leak when opening the CO₂ bottle valve.
- Before the installation, make sure there are no deformations or attachment of dusts on the connection point of CO₂ bottle and CO₂ regulator.
- Please use CO₂ bottle in upright position. The use of regulator in a lying position may become a cause of malfunction.
- Do NOT mount the CO₂ bottle with wet hands. Keep CO₂ regulator and CO₂ bottle away from water.
- Please use ADA genuine products for CO₂ distribution parts.
- Always use CHECK VALVE or CABOCHON RUBY (optional) with this product. Back-flow of water may cause the breakage of CO₂ regulator and solenoid valve.
- In case white frost appears on the surface of CO₂ bottle during use, do NOT touch with bare hands, Cover it with a cloth for handling.
- Before detaching the CO₂ bottle, make sure the CO₂ bottle valve is completely shut off.
- Do NOT throw CO₂ bottle into the fire during use, as well as before and after use. It may cause explosion of the CO₂ bottle. Avoid a place of high temperature (40°C or above) and direct sunlight for using and storing this product.
- ADA is not responsible for death and/or disease of aquatic plants or organism.
- KEEP OUT OF REACH OF CHILDREN

CO₂スピードレギュレーター
使用説明書ADA
NATURE
AQUARIUM
CO₂ SPEED REGULATOR

ADA
aqua design amano

1. Special Features of CO₂ SPEED REGULATOR

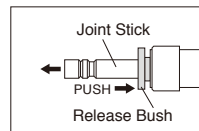
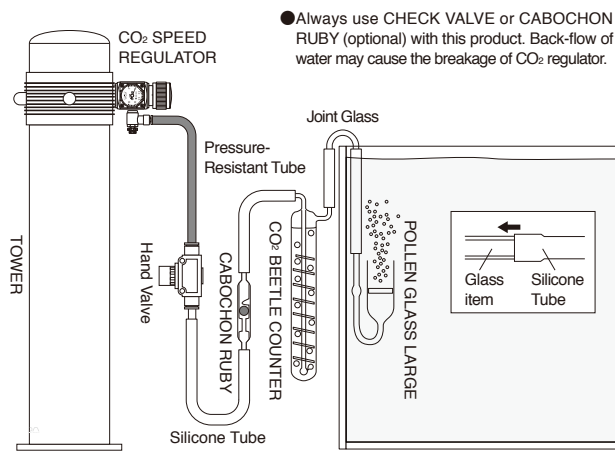
CO₂ SPEED REGULATOR is equipped with an adjustable pressure inhibition system to be manually controlled freely at desired pressure level, for a large CO₂ bottle. This allows CO₂ SPEED REGULATOR to be connected to CO₂ distribution parts, and solenoid valve.



4.仕様

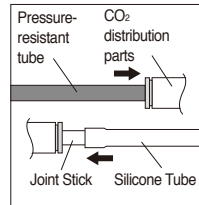
レギュレーター	
2次圧力	0~0.35MPa可変
2次圧力安全装置作動圧	0.9MPaまでに作動
使用温度範囲	0~40℃

2. Connection Diagram



※Joint Stick can be removed by pulling out it while pushing the Release bush. Please remove Joint Stick when connecting CO₂ regulator with Pressure-resistance tube.

※For connection with CO₂ distribution parts and solenoid valve, make sure to use Pressure-resistance tube or Joint Stick. Insert a Pressure-resistance tube or Joint Stick firmly to the end until it stops.



※Pressure-resistance tube cannot be connected with glass items directly. For connection with glass items, make sure to use Silicone Tube.

※For conversion of Pressure resistance tube and Silicone tube, please sandwich Check Valve or CO₂ distribution parts and Joint Stick between Pressure resistance tube and Silicon Tube.

※When selecting glass items, please visit our web site, and choose the Product fitting to the aquarium size.

3. Installation

※Please read carefully

- ① Make sure the [OFF] sign on the adjustment knob is set to [△] indicator mark of the gauge cover.
 - ② Before attaching CO₂ regulator to CO₂ bottle, make sure to confirm Fine adjustment screw is tightly closed with the Locking Screw loose.
 - ③ Confirm the Internal seal set in a right position, and attach the regulator to the CO₂ bottle and screw on Box Nut. Then tighten the Box Nut with a wrench.
 - ④ Slowly open up the main tap of the CO₂ bottle, and slowly turn the adjustment knob to the right, until the Indication Needle indicates the desired outflow pressure. (Usually, it is set 0.1-0.2MPa)
 - ⑤ Open up the Fine adjustment screw and confirm the CO₂ gas is coming out of the CO₂ outflow pipe.
 - ⑥ Once CO₂ flow is confirmed, close the Fine adjustment screw, and connect CO₂ distribution system, following the Connection Diagram. Once setup is complete, adjust the supply amount of CO₂ with Fine adjustment screw. In order to keep the supply amount fixed, tighten the Locking Screw while holding the Fine adjustment screw in position.
 - ⑦ For stopping the CO₂ supply, set the Adjustment knob back to OFF sign. When restarting the CO₂ supply, rotate the Adjustment knob until the Indication needle indicates the same outflow pressure as before.
- ※When handling the Fine adjustment screw or Locking screw, please operate with fingers. The use of screw driver or pincers put excessive force on the screws, and becomes a cause of breakage.
- ※Do not use the fine adjustment screw for a purpose of controlling CO₂ supply shut off or restarting. Frequent adjustment by Fine adjustment screw, or placing excessive force on the screw wears out the screw, and it makes fine adjustment difficult. Please use the adjustment knob or hand valve for the CO₂ supply on/off operation.

4. Specifications

Regulator

2nd stage pressure: 0-0.35MPa adjustable

2nd stage pressure safety mechanism working pressure: 0.9MPa

Operating temperature limit: 0-40°C