

# Custom Scuba Tools 2019



# Custom Scuba Tools

These are the tools I presently have available. If you have a specific tool that you do not see, let me know, I may be able to make one for you. I ship via USPS in a flat rate box. Shipping cost is a flat \$8 assuming all the tools you order will fit in one box, pretty much one of everything I make will fit in one box. Small tools are \$4. To order tools or for more information contact me at [customscubatools@hotmail.com](mailto:customscubatools@hotmail.com)

Herman

## Ring Nut Tool: \$35

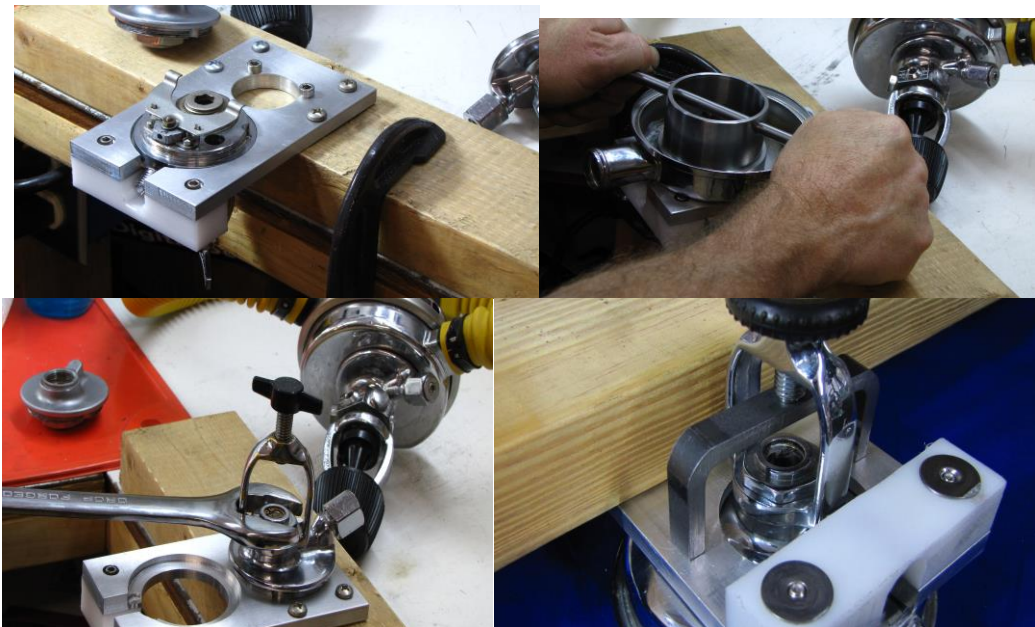
This tool is used to remove the main body ring of US Divers and Voit 2 stage double hose regs including the Voit Trieste and the new Argonaut Kraken from Vintage Double Hose. The tool engages all 4 notches in the ring preventing slipping that can damage the ring, cans or body of the regulator.



Shown with body wrench.

## Body Wrench \$40:

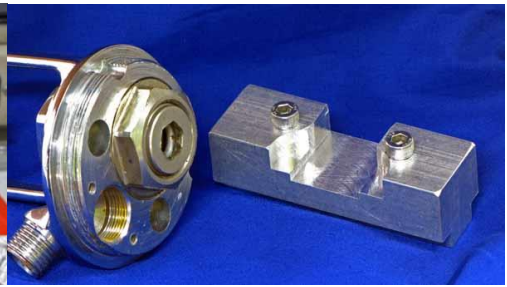
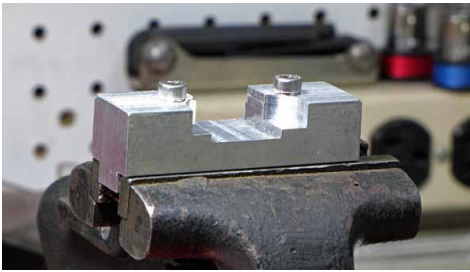
This tool is the companion to the Ring Nut tool. It holds the main body of US Divers and Voit 2 stage double hose regulators. The tool provides 3 functions, it can be used to hold the main body while removing and installing the ring nut, it holds the body of the regulator securely allowing easy installation and removal of the HP nozzle assembly and is a general reg stand for assembly and testing of the regulator. The tool can be permanently mounted to a work bench, mounted to a 2x4 that can be "C" clamped to a bench or it can be held in a 3.5 inch or larger vise. The body wrench starting in 2017 comes with an additional clamp to secure the reg to help remove those stubborn corroded on body rings. See the instructions at the end of the catalog.





## **DA/RAM Body Tool \$10**

This travel sized tool is used to assist in removing the high pressure stages from DA and RAM bodies. When clamped in a vise, the tool holds the main body securely allowing the easy removal or replacement of the high pressure stage or a Phoenix.



## **HP Nozzle Assembly \$15:**

This tool makes the difficult task of assembling the high pressure nozzle of Royal Aquamasters, DA Aquamasters, Phoenixes and their Voit counterparts a snap. [This tool also works with the new Vintage Double Hose Argonaut Kraken.](#) Just set the forcing cone on top of the nozzle, insert the parts in the proper order and press the parts into the nozzle with the ram. The tool also works on many single hose regulators including all Conshelf models, Titan (older version), Mares MR-12 (later version) and many other regulators that use a similar design.. If the HP parts are held in with a circlip, odds are it will work. See the instructions at the end of the catalog.



## **DA Navy/ Broxton IP gauge \$25**

The DA Navy and Broxton regulators do not have an external way to test or set the IP on the regulator. This IP gauge allows you to check or set the IP on these regulators. The horseshoe lever and LP nozzle are removed and the gauge is screwed into the port. You supply a downstream second stage and hose. The second stage is used to vent the IP and acts as a relief valve if the high pressure stage is leaking.





## **HPR/Argonaut Second Stage Adjustment Tool \$15**

This tool makes adjusting the Phoenix HPR and Argonaut Kraken second stages from Vintage Double Hose a snap. It holds the LP poppet with a screwdriver blade while allowing you to adjust the nylon lock nut with precision. This tool also works with the later US Diver Conshelf second stage that have an access port as well as any other second stage that has a similar design



## **HPR and USD Second stage assembly tool. \$5**

Assembling the HPR/Argonaut or standard second stage of a DA Aquamaster or Royal Aquamaster can be a bit of a pain. This tool make the assembly easy. Simply place the LP seat holder and spring into the tool, put the second stage over the seat holder and screw it into the assembly tool. Now install the lever (HPR), washer(s) and nut on the LP seat holder. The assembly can now be removed from the tool and installed in the regulator. The LP seat can be installed before or after the second stage is assembled.



## **Regulator Vise Tool \$15**

Not a vintage tool but useful for servicing single hose regulators. The tool is installed in a LP or HP port of a regulator and then the tool is locked in a vise. The tool holds the regulator secure during servicing and prevents vise damage to the regulator body. The tool has 2 ends, one is 3/8x24 which fits LP ports and old style HP ports. The other is 7/16x20 for modern HP ports. 2 of them installed in a Phoenix can be used as a handy way to tighten the Phoenix rather than using a large wrench.





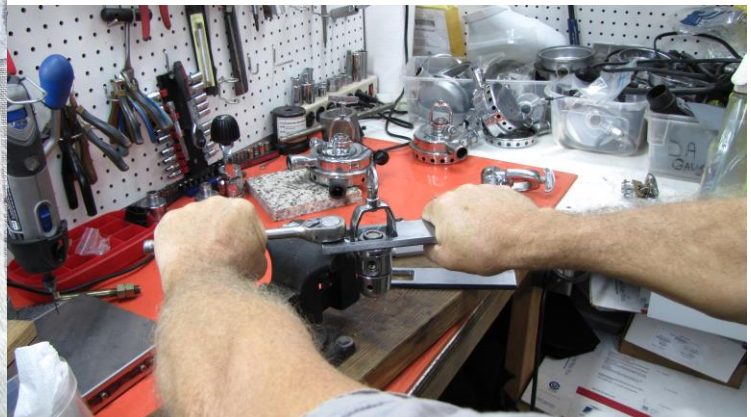
## **Voit MR-12, Titan and Trieste HP assembly tool \$15**

This tool removes and installs the HP assembly of Voit/AMF MR-12s, Trieste and Titans. For stubborn HP assemblies, a pull bar can be inserted into the cross hole for more torque.



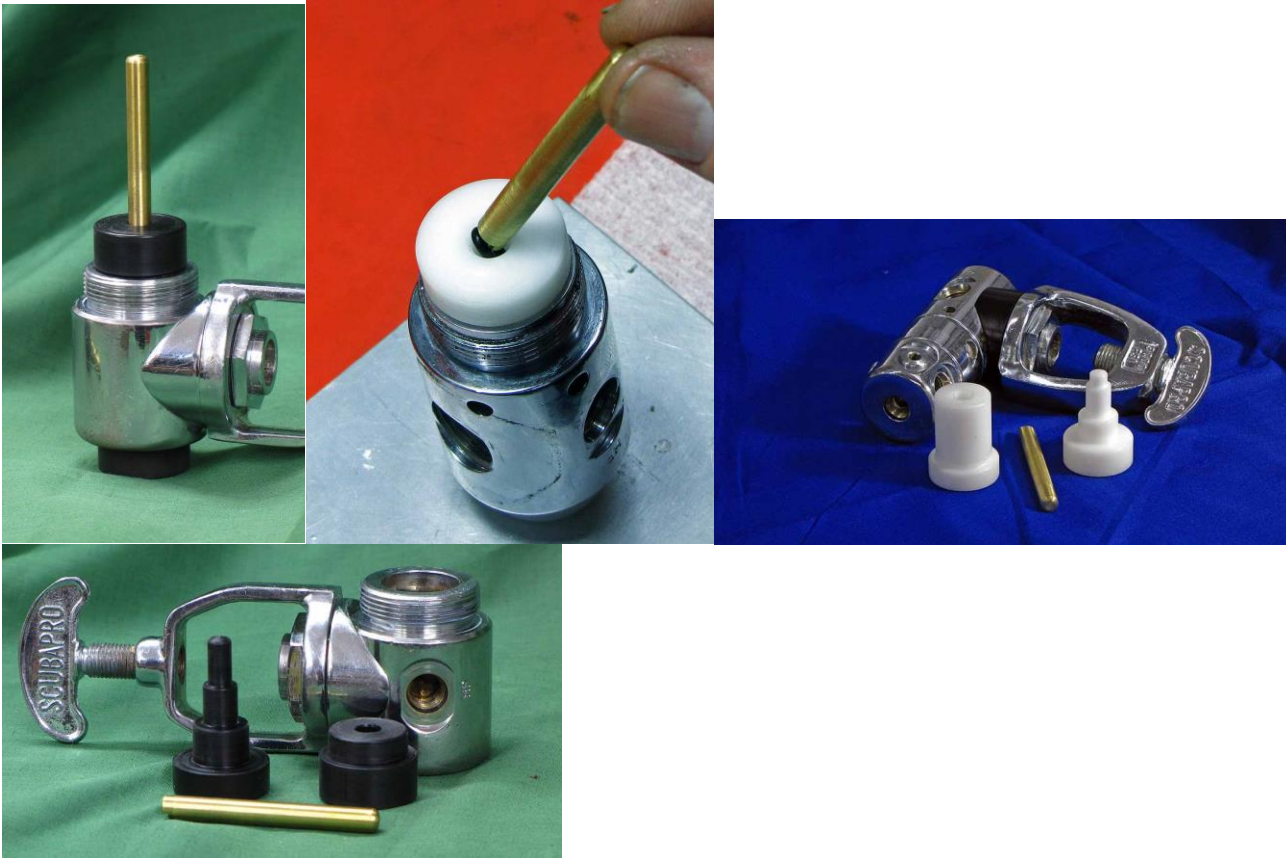
## **HP Stage Removal/Installation Tool \$15/ \$20 with 3/8 drive**

This tool is new for 2019. It is designed to remove or install any 1 inch nozzle or yoke retainer. It will remove the HP nozzles from most double hose regs including USD, Dacor, Voit and Nemrod and the yoke retainers and yoke nuts on any single hose reg that uses a 1 inch retainer. It will also fit the 2 sided yoke nuts on USD Mistral regs. The tool is solid .300 inch thick steel and comes in 2 versions, one with a 3/8 square hole for adding a ratchet or pullbar to add a lot more torque for those really tight retainers and the other with no hole for a lower price. The tools are now blued to help prevent rust.



## Scubapro MK-5 /6/10 Piston Oring tool \$15 each/\$25 both

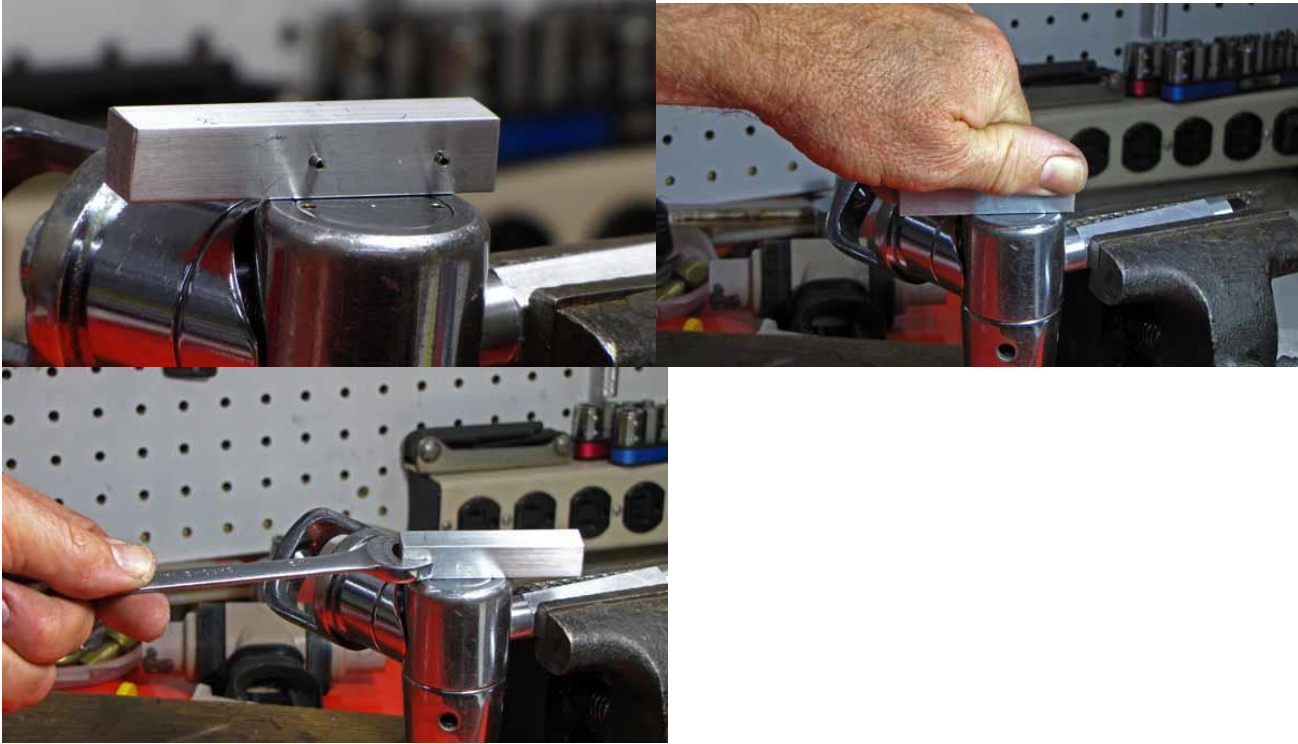
The Scubapro MK-5 and MK-10 regulators are popular with divers who do their own service work. For the most part these regs are easy to service but the one difficult part of servicing these regs is inserting the piston oring. This tool makes this job easy. The tools include a lower guide, an upper guide and an insertion rod. The reg is placed on the lower guide, the upper guide is installed in the reg then the Oring is inserted into upper guide and pressed into place with the insertion rod. MK-5 tools are black delrin, MK-10 tools are white delrin, for no other reason than to make identifying them easier. **Both tools are also available as a set with one insertion tool for \$25.** See the instructions at the end of the catalog.





## **MK-5/6/7/10 Pin Spanner     \$5**

This handy little tool is used to remove and install the HP seat cap on Scubapro MK-5/6/7 and MK-10 first stages. If more torque is needed for those stubborn, over tightened caps, a wrench can be used.

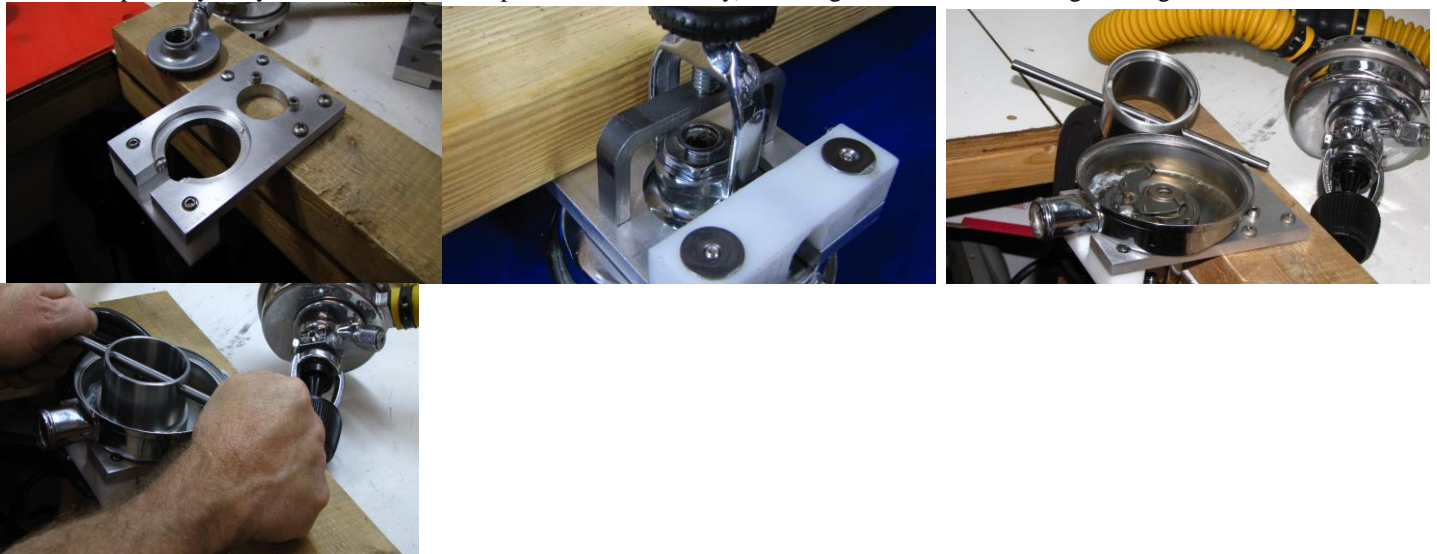




# Tool Instructions.

## Body Wrench Instructions:

The body wrench provides 3 functions that simplify servicing and repair of US Divers and Voit double hose regulators. It can be used to hold the main body during the removal and installation of the body ring nut, it holds the main body to allow the removal and installation of the HP nozzle and it acts as a stand for assembling the regulator. For 2017 the tool includes a yoke retainer which holds the regulator firmly in the body wrench for removing even the most stuck on rings. Mount the body wrench to solid work bench using the 4 holes provided. It can also be mounted to a 2x4 that is clamped to the bench or held in a 3.5 inch or bigger vise. The reg is placed in the wrench and held in place by the yoke retainer (shown upside down for clarity) The ring can be removed using the ring tool.



To remove or install the high pressure stage, place the body on the 2 cap screws in the wrench. The horse shoe lever and second stage must be removed but the diaphragm and spring retainer can remain installed.



## HP Nozzle Assembly Tool

The high pressure assembly tool is used to install the internal parts into US Divers and similar regulators. Place the regulator or nozzle on a solid surface. Place the HP seat, lower spring and balance chamber into the regulator. Place forcing cone on the top of the regulator then place the upper spring, filter, washer (if you are using the 2 piece filter) and circlip. Circlips have a rounded edge and a sharp edge, you must look carefully to see the difference. It is important to place circlip in with the rounded side down. Hold the forcing cone firmly on the regulator and press the assembly into the regulator with the plunger. You can feel the circlip snap into place. Remove the forcing cone and plunger. Inspect the circlip to ensure it is correctly seated.





## **MK-5 and 10 Oring Tool**

The MK-5 and 10 tools are designed to install the piston stem oring into the body of the regulator. Both tools are used in the same manner. The MK-10 is shown here but the procedure is the same for both. The MK-5 tool is black, the MK-10 is white for no other reason than to easily distinguish between them.

Insert the stepped portion of the tool into the body of the regulator, then place the regulator on a solid work surface. Install the oring guide portion of the tool into the body. Lubricate the proper oring, pinch it together and slide it into the hole of the oring guide. Using the notched end of the brass pushrod, push the oring into the regulator until it slides into the regulator body. Rotate the brass pushrod 360 degrees to help seat the oring into it's groove. Remove the tool parts and inspect the oring to ensure it is properly installed.

