

Tighten the bolts and check them again for rocking motion.

With the bands are properly installed. Get your tanks filled and enjoy many dives with your new Halcyon Cylinder Bands.



Warning: To lessen the possibility of catastrophic failure of the manifold, you must purge all gas from the tanks before you loosen the band bolts to adjust or remove your Halcyon Tank Bands. Never loosen the hex nut or Nylok stop nut on a band while either tank is pressurized.



Top bands should rest just below the shoulder break of the tanks

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HALCYON TANK BANDS

HALCYON

DIR DIVE SYSTEMS



INSTALLATION MANUAL

ASSEMBLING DOUBLES WITH HALCYON TANK BANDS

Tools Required:

Any two of the following:

Adjustable wrench

Deep socket wrench 1/2"

Box end wrench 1/2"

Manifold Preparation

Begin by breaking your manifold down into its three components– isolator crossbar and left/right valves. Take care to note that one side of the isolator crossbar is designed to use reverse threads. This side is usually marked with a notched set nut, and/or a groove on the isolator crossbar. Make sure the manifold you have is listed on the label inside the tank bands. Failure to use a compatible manifold could result in manifold damage. The bands are designed for the isolator spacing of the manifolds listed.

Doubles Assembly

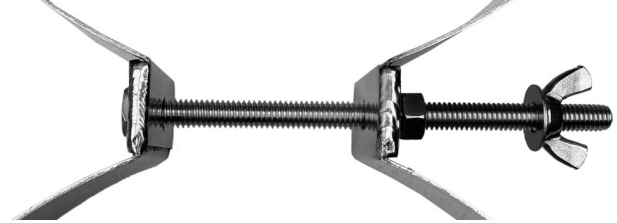
Proper assembly requires a flat work area. Your work area should be reasonably clean and free of dust and other contaminants. Rest the cylinders on their sides, and arrange them with the neck of the cylinders toward you. The cylinders need to be parallel.

Install each valve in the cylinders so that when the regulator orifice is rotated to face up, the valve knob in the left most cylinder is parallel to the floor and thus oriented to the left, and the valve in the right most cylinder is parallel to the floor and thus oriented to the right.

If your manifold has been in use on another set of doubles– or if you are breaking apart an existing set to hydro/VIP tanks, Halcyon suggests that you take advantage of the opportunity to rebuild your manifold. A Halcyon Manifold rebuild kit (64.100.020 for 3/4" thread, 64.100.025 for M25 thread) is available from your Halcyon dealer. Be sure to use appropriate lubrication for the O-rings and to tighten the valve snorkel before reassembly. For non-Halcyon manifolds, follow instructions from the manufacturer for servicing their manifold.

Place the cylinders parallel so that you can install the isolator. Begin to install the isolator making sure that you have the notched side screwing into the correct valve. Start slowly making sure that both sides engage the threads equally. This may take a few tries. Be careful not to damage the fine thread on the manifold. If you feel any resistance after you have the isolator started, move the cylinders to keep them parallel as you thread the isolator. Rotate the isolator until two threads remain visible. Once you have the manifold installed you are ready to install the bands.

Threaded bolt with split washer/hex bolt



Without the bolts in the bands, place the upper band at the top of the cylinder where the curve of the cylinder neck ends. You will need to rotate the isolator (either tighten or loosen) so the bands will snug against the tanks. Put a bolt in the band and secure using either the Nylok nut or the hex nut and split washer.



Caution: Your Halcyon Band Kit includes both Nylok stop nuts and split washers/hex nuts to secure the bands to your tanks. Although Halcyon recommends using the split washers and hex nuts, some people prefer to use the Nylok stop nuts. If you do use the Nylok stop washers, we recommend that you apply an anti-seize compound to the threads of the nuts to prevent galling, or seizing, on the bolt. Bolts stripped from seized stop nuts are not covered under Halcyon's warranty.

Do not over-tighten the bolt. Make sure the bolt is fed thru from the back so the threaded side is on the same side as the valve outlets. Place the lower band on the cylinders and then insert a bolt, again making sure that the threaded end of the bolt is on the same side as the valve outlets. You will need to place a back plate on the assembled doubles to make sure the distance between the bands is correct before you snug the bolt. With the bolts snug, you should be able to rotate the isolator about a 1/2 turn either direction. If you can't rotate the isolator, then the manifold needs adjusted till you can turn it with the bands snug. Make the adjustment by rotating the crossbar to change the spacing of the manifold. After the adjustment, snug the bands and check the isolator again. Once you have the isolator adjusted properly, tighten the bands making sure they don't move out of alignment with the back plate holes. While tightening the bands, you should ensure that the tanks remain level; please refer to the next paragraph for instructions for leveling the tanks. Do not over-tighten the band bolts to the point that it causes any distortion of the plate where the bolts pass through. You may also decide if you wish to tighten the jam nuts on the manifold at this time. Some people like them loose, some like them tight.

While the cylinders may be parallel, it is important to verify that they are also in the same plane as they rest on the flat work area. In order to check parallel alignment, simply rotate the doubles horizontally to check that they do in fact remain stable and do not exhibit any undesired rocking motion. If they have any rocking motion you will need to loosen the bands and readjust them on a flat surface.