

IQ System Manifold for Single Calibration Gas Source to Multiple Docks

When a series of IQ docks is connected to a single cylinder of calibration gas, a manifold is used to disperse the calibration gas from the cylinder to the docks.

1. Parts

The 54-46-115 manifold is comprised of:

- (1) small black elbow fitting
- (3) small black T-fittings
- (2) pieces of gas tubing 5" long
- (1) piece of gas tubing 10" long
- (1) piece of gas tubing 1" long



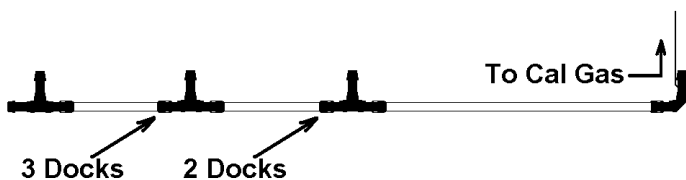
2. Assembly

2.1 Single Docks

The manifold is unnecessary for single dock applications. Simply use the 24" piece of tubing that came with the dock to connect the demand flow regulator on top of the calibration gas cylinder to the GAS port on the back of the dock.

2.2 Multiple Docks

1. Insert the Demand Flow Regulator into the calibration gas cylinder.
2. Modify the tubing assembly as follows depending on how many docks will be connected. If 4 docks will be used, no modifications are necessary. For 2 or 3 docks, begin by separating the tubing at the location described below.



Tubing Separation Points

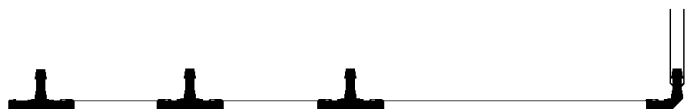
Once this is accomplished, set the two parts aside. The section that will be used is shown in the following images (depending on the number of docks).



Manifold for two docks



Manifold for three docks



Manifold for four docks

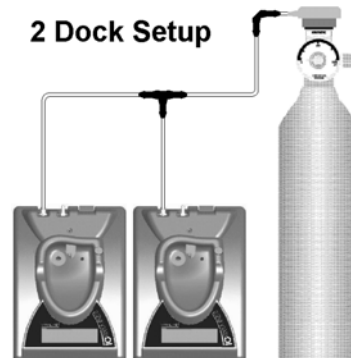
3. Each dock is delivered with a 24" piece of tubing with a white quick disconnect fitting, which is normally used to connect a single gas cylinder directly to a single dock. Connect the white quick disconnect fittings to the GAS ports on the docks and connect the open ends to the manifold's open T-fittings. For enhanced docks, remove the black elbow fitting entirely from the 24" piece of tubing and run the smaller diameter tubing directly from the docks to the open T-fittings.

At this point, tubing should run from each dock's GAS port to the T-fittings. There should be no open T-fittings at this point in the procedure, but there should be one piece of open tubing on the elbow fitting.

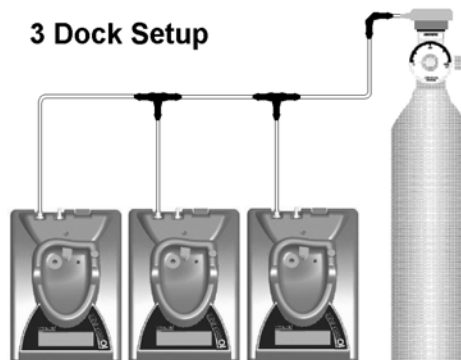
4. Connect the open piece of tubing on the elbow fitting to the Demand Flow Regulator.

3. Final Appearance

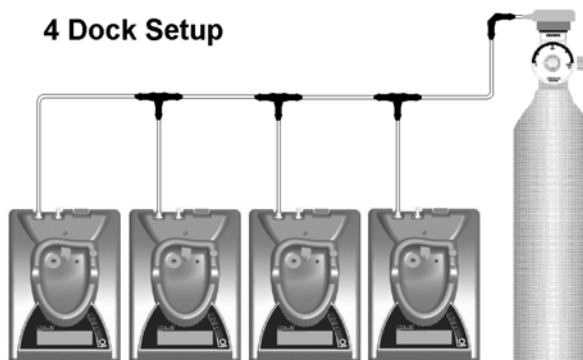
2 Dock Setup



3 Dock Setup



4 Dock Setup



Note: Tubing lengths in these images are not to scale.

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