

FATHOM
D I V E S Y S T E M S

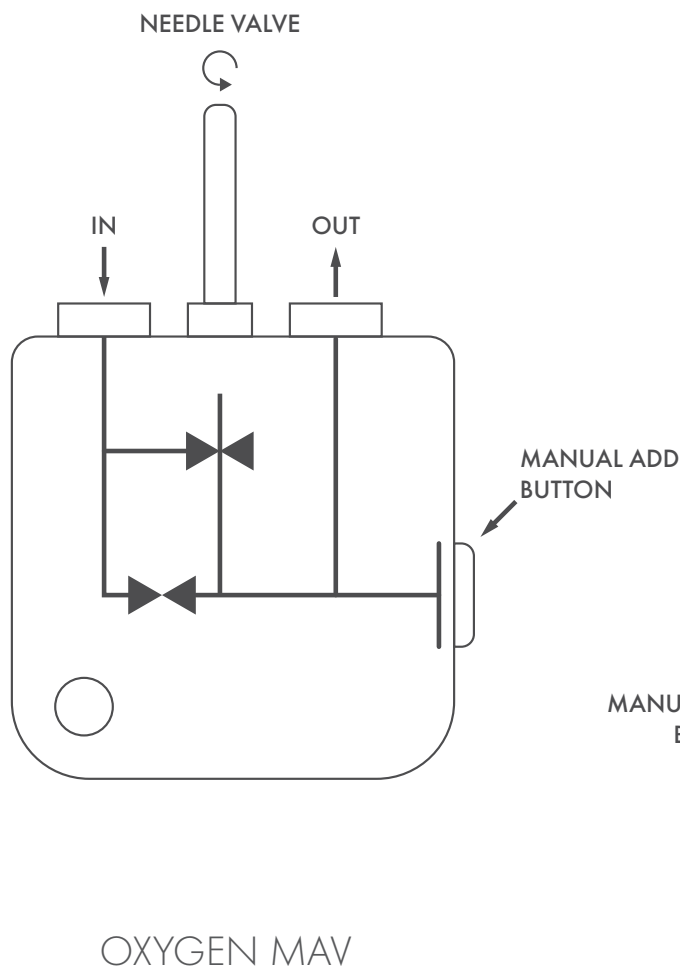
MAV User Manual

v1.0



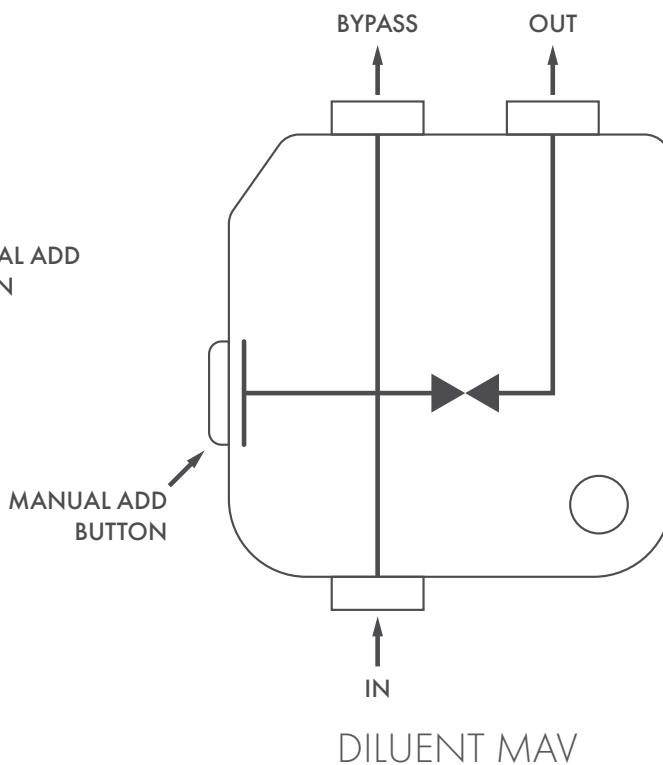
Oxygen MAV

The Manual Addition Valves (MAVs) are the mechanisms which allow the diver to manually inject oxygen or diluent into the loop. The needle valve is incorporated into the oxygen MAV, which is set by the diver to replace metabolized oxygen. Once the needle valve is dialed into the diver's metabolic needs, it only needs to be adjusted when those needs change, such as when swimming versus deco. The manual add is used to increase dropping PO₂ in the loop, i.e., during ascent. The MAVs use an industry standard BC inflator cartridge that can easily be rebuilt or replaced. The oxygen MAV uses 90 durometer Viton o-rings due to the increased IP pressure and oxygen service.



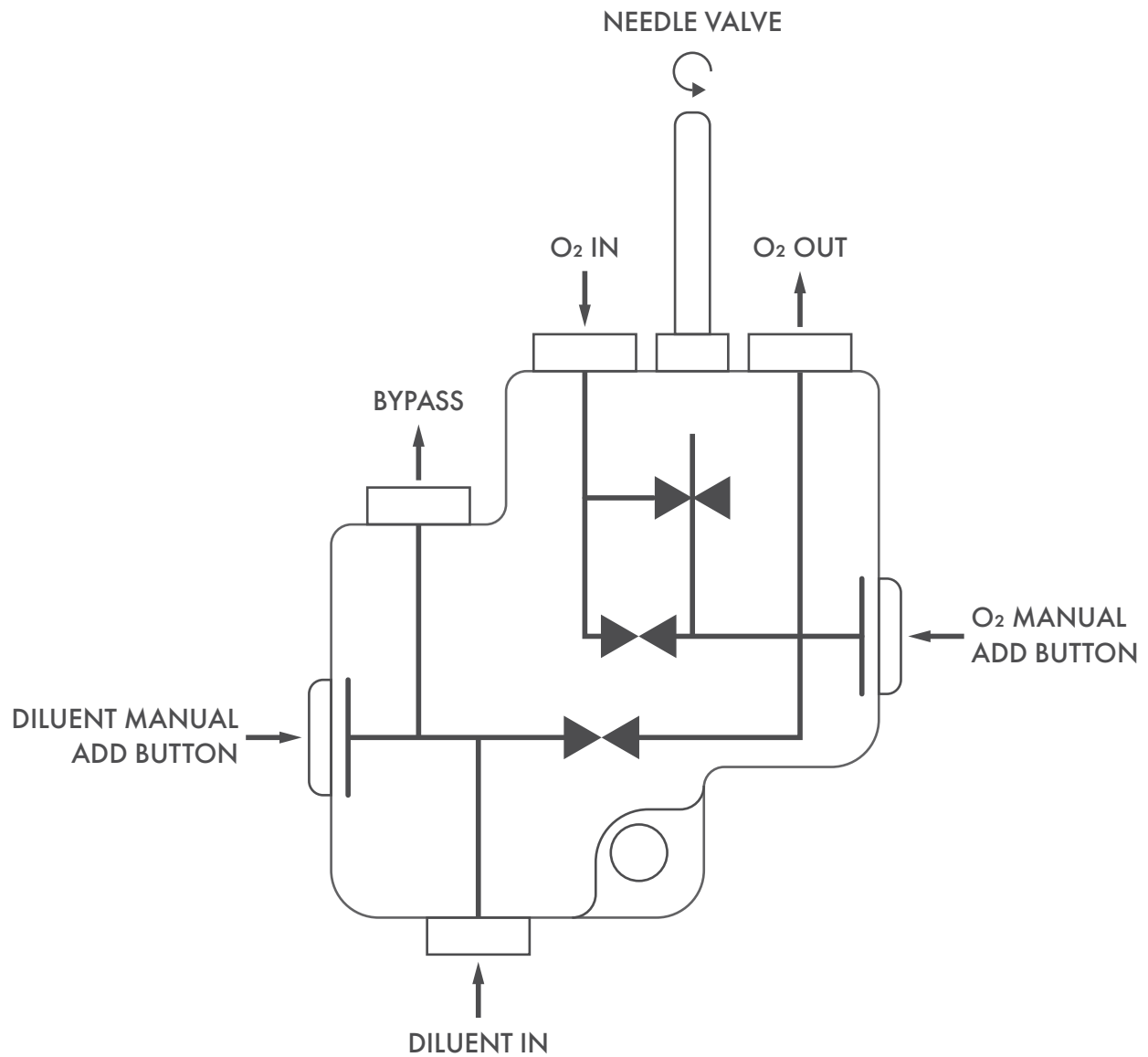
Diluent MAV

Offboard diluent gas is plumbed in through a female QC-6 connector on the bottom of the diluent MAV. The diluent MAV also has a bypass port, which can be used to plumb gas to a BOV or ADV. Like the oxygen MAV, the diluent MAV uses an industry standard BC inflator cartridge that can easily be rebuilt or replaced.



Dual MAV

The FATHOM Dual Manual Addition Valve (MAV) combines both functions into a single MAV.





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