



Multitorr User Guide



The BL500 is a configuration of the Flotec Mass Casualty Assembly. It can be utilized to distribute a single oxygen source to up to 7 patients. To operate, it must be connected via an oxygen supply leader hose to a pressure regulated oxygen source.

The oxygen source must be regulated to 50 PSI. Sources may include portable cylinders with an oxygen regulator, liquid oxygen systems, or ambulance interior systems.

Inlets utilize a **Female DISS-1240 Swivel** connector. At each point of use, there can be a **DISS-1240 Check Valve**, **Flowmeter**, or **Resident Nipple Adapter** outlet. See below for basic information on each of these.



Female DISS-1240 Swivel allows for easy connection to oxygen supply hose. This utilizes a hand tight connection.





Male DISS-1240 Check Valves allow for the connection to female DISS-1240 fittings. These will not permit flow through until mated.

Flowmeters can be configured for flow settings up to 25 LPM. These allow for easy configuration of flows to each point of use.

Resident Nipple Adapters are preselected for flows, but multiple can be attached to an outlet to allow selection of a singular desired flow. These allow configurable flows much like a flowmeter, but are not adjustable. Note that these are reusable with suitable cleaning procedures in place.

Available configurations:		Medical gases:
Inlet pressure:	50 PSI	Oxygen or Medical Air
Flow capacity:	Up to 150 LPM total, source dependent	Replacement parts: Flowmeter, customer specified Female DISS 1240 swivel inlet Resident Nipple Adapter Handle Foot
Inlet configuration:	Female DISS 1240 Swivel	
Outlet configuration options:	DISS-1240 Check Valves	
	Resident Nipple Adapters Hose Barbs	
Storage temperature range:	0 to 120° F (-18 to 49° C)	
Flow accuracy	±20% for flows 1.5 Lpm and below	
	±10% for flows above 1.5 Lpm	



<p>Warnings!</p> 	<p>Do not use this device while smoking, around open flames, or around sparks or while welding. Smoking and supplemental oxygen can result in death.</p> <p>Do not remove from its gas source without first venting the pressure inside the device.</p> <p>Should the device appear to not be operating as specified, immediately stop using the device, depressurize the device, then remove it from the gas source (if safe to do so), then contact Flotec.</p> <p>Disassembly, assembly, and testing of devices should be performed only by trained personnel.</p>
<p>Installation</p> <p>BL500 come preassembled as configured on order. Installation includes connecting the device to a pressure source and connecting the outlets to points of use.</p> <p>The primary connections on a BL500 will be Female DISS-1240 Swivels, Male DISS-1240 Check Valves, Hose Barbs, and reusable Resident Nipple Adapters.</p>	<p>INLET CONNECTION: Female DISS-1240 Swivel</p> <ul style="list-style-type: none"> Inspect fittings for damage. If damaged, do not use, contact Flotec. Inspect fittings for contamination. Clean if needed. Connect the threads between male and female DISS-1240. Tighten the female swivel by hand until hand tight. Do not use tools to overtighten as this may damage threads.  <p>OUTLET CONNECTIONS: Male DISS-1240 on Flowmeter & Manifold</p> <ul style="list-style-type: none"> Inspect fittings for damage. If damaged, do not use, contact Flotec. Inspect fittings for contamination. Clean if needed. Connect the threads between male and female DISS-1240. Tighten the fittings. Use appropriate tightening torque depending on the nature of the fittings used.   <p>OUTLET CONNECTIONS:</p> <p>Hose barb on Flowmeter and Resident Nipple Adapter on Manifold</p> <ul style="list-style-type: none"> Inspect the Hose Barbs or Resident Nipple Adapters for damage. If damaged, do not use, contact Flotec. Inspect the Hose Barbs or Resident Nipple Adapters for contamination. Clean if needed. <ul style="list-style-type: none"> Resident Nipple Adapters are reusable, but should be cleaned before each use. Use your own device reuse procedures for this. Flotec recommends at least wiping with alcohol between reuse. Press the hose onto the Hose Barb or Resident Nipple Adapter. If the fit between the two is not tight then change or modify the hose used. Hose can wear down or stretch over time and repeated use. <p>Note: When a customer specifies a BL500 to include Resident Nipple Adapters, they will attach to the device through the device's Male DISS-1240 Check Valves and the Resident Nipple Adapter's Female DISS-1240 Swivel. Follow the instruction above (OUTLET CONNECTIONS: DISS-1240 on Flowmeter & DISS-1240 on Manifold) to ensure that the Resident Nipple Adapters are installed correctly.</p>



<p>Use</p> <p>If any questions arise upon use, please contact Flotec.</p>	<ul style="list-style-type: none"> • Before each use, check for damage, contamination, leakage, and correct flows. If there are any signs that the device is not working correctly, do not use the device, contact Flotec. • Connect the inlet pressure source and the outlet hoses as specified in Installation. If you need assistance connecting the device to a specific gas source, contact Flotec. • Turn on the pressure source. • Once the correct pressurized flow of medical gas is applied to a Flowmeter, rotate the knob to increase or decrease the flow, there will be a satisfying click as the device lines up to each flow position. The flow setting can be identified by the decal that can be seen through the window in the Flowmeter body. So long as adequate gas pressure is applied through the inlet, the outlet will maintain its designated flow. Be aware that: <ul style="list-style-type: none"> ○ It is not possible to turn the flow setting from the zero position directly to the full-open position in a single click; ○ Flotec Flowmeters only intended to be used at the indicated positions. Do not attempt to set them between positions; ○ It is possible to set the Flowmeter between positions, but the flow will not be correctly metered between positions; & ○ Do not use Flotec devices for unintended medical gases. They are configured only for the gas identified. • Please note that while the device will work over the temperature range of 0 °F to 120 °F (-18 °C to 49 °C), the flows and pressures were calibrated to 70 °F and 14.7 psia (21 °C and 1 Bar). The further the atmospheric conditions are from the calibration conditions, the less accurate the flows will be. • The total Flow through the device is specified to be capable of flowing at least 150 LPM total. This is heavily dependent on the pressure source being able to satisfactorily deliver medical gas. • Be aware that in some configurations the flowmeters can be set to a maximum total flow that is above that which the source is able to provide. If the total demand of the device is above that which the source is able to provide then the output at each flowmeter will be less than indicated. • Do not attempt to remove the device from its pressure source without having vented the internal pressure. • While the system is capable of outputting more than 150 Lpm at most tank pressures, do not rely on the system to output more than 150 Lpm at any tank pressure. • If there are ANY questions about the device, do not hesitate to contact us using the contact information above.
<p>Maintenance</p>	<ul style="list-style-type: none"> • All devices should be cleaned periodically. Clean as appropriate to the use and exposure of the device; for general use alcohol wipes are sufficient. • The expected lifetime of the device is 10 years. We strongly suggest returning these devices every five years for a complete review and servicing. Devices serving a more critical role may be returned more often, if needed, to ensure safety.
<p>Storage</p>	<ul style="list-style-type: none"> • For longest device life, while the device is not in use, store inside an airtight, opaque container. This can be easily achieved by placing the device inside a sealable plastic bag then inside a cardboard box. • Storage temperatures must stay between 0 °F and 120 °F (-18 °C to 49 °C).

We value your feedback. Please send any feedback, positive, negative, or constructive to QA@floteco2.com