

64. LEAK TESTER FOR TESTING RESPIRATORY EQUIPMENT



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SPECIFICATION FOR FACE MASK LEAK TESTER SET

DESCRIPTION

The Mask Leak tester shall consist of two dummy heads fixed on a base plate, a micro suction generator generates a suction, which is applied to the dummy head through a rubber tube. The M.L.T. shall consist of two fixed heads on a based plate. A Micro suction generator that could be attached to dummy through a rubber tube through a micro flow meter. The tester shall be capable of attaining a steady stage reading within 40 sec & shall be powered with a built in timer that stop and the circulated freezes the displays after 40 Second. The test result shall be shown by glowing red or green LED there by meaning **Fail or Pass** status of the mask tested. The tester shall be ready for next operation by pressing a **reset** switch.

The materials used the communication of components of leak tester shall conform to international standard and a certificate to this effort from an independent test lab orating of repeat shall be submitted along with officer. The unit shall be marked with the relevant speed, Name of the manufacture, Year of Manufacturing of the operating materials. The complete Leak Tester not shall be provided in a carrying case prefabricated water & dust resistant type. The suction generated by the micro suction generator is further reduced using a needle valve and passed through a micro flow meter and applied to the cavity of the dummy head. The mask to be tested is fitted on the dummy head by tightening the straps. The suction generator supplies a known amount of the suction to the cavity of the mask.

The steady state reading is attained in a time of less than 40 seconds. There is a built-in timer, which stops the circuit and freezes the displays after 40 seconds. The operator can decide whether the mask passes or fails seeing the criteria given. A decision making circuit is also incorporated which automatically compares the test values with admissible values and declares the result by glowing green/red LED meaning pass/fail.

By pressing the RESET switch the tester is ready for testing the next mask.

MATERIALS	The materials used in the manufacture of the leak tester set shall be as under
	1. Dummy heads F.R.P
	2. Base Gr. HE. 9.ISI 9500
	3. Top cover Gr. HE.91 ISI 9500
	4. Flow sensor Poly Carbonate
	5. Suction sensor Gr.HE 15,733
	6. Suction controller
	7. Flow controller

	8. Needle valve SS 314 9. Suction Generator 10. Tubing PVC 11. Timer controller 12. Solenoid Valves Aluminum Base
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MARKING	<p>Each leak tester set shall be embodied with a label, conforming to details as given in this specification. The manufacturer shall legibly and indelibly write the description of the stores, stores reference. Number and the name of the manufacturers. The year of manufacture shall be legibly and indelibly marked by stamping or engraving.</p> <p>The words open this side up and ' top' shall be marked on left and right hand edges of packing case respectively.</p>
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