

FLUID EXPOSURE TANK

(AS PER IS : 17051 : 2018)

PRIORITY SOLUTIONS

D-103, PHASE-VII, INDUSTRIAL AREA
MOHALI –PUNJAB 160055 (IND)
INDIA

MOBILE NO:9915553754/9815553754
TELEPHONE : +91-0172-5093754

E-mail: prioritysolutions@live.in
Website: www.machinedparts.in



1. Technical Specification and Operation

NAME OF EQUIPMENT: FLUID EXPOSURE TANK (CLAUSE 8.2 OF IS 17050:2018)

This standard prescribes the minimum performance requirements of bullet resistant jackets for protection against small arms and ammunition and provides procedures for their evaluation. The scope of the standard is limited to physical and ballistic evaluation of bullet resistant jackets against in-service small arms ammunition *used by the Indian armed forces, paramilitary, state police forces and other law enforcement agencies.*

3.1 Technical Data

S.NO	DESCRIPTION OF PARAMETER	VALUE
1	Maximum overall dimensions(LXWXH)	2200 X 950 X 1350 MM
2	Supply Voltage	3 PHASE,440V AC,50Hz
3	Current consumption	10 A
4	Tank Capacity	1KL
6	Temperature range	27 ±5°C

2.3 PRINCIPLE OF MACHINE:

FLUID EXPOSURE (8.2)

Both SAPs and HAPs shall be subjected to the tests specified in (8.2.1 and 8.2.2.)

8.2.1 *Water Resistance*

Sample shall be submerged vertically in water under a water column of 150 ± 10 mm (from topmost level of the panel) for minimum 30 min without any fold and bend with 50 mm clearance around the panel. The water in the bath shall be clean potable tap water at a temperature of $27 \pm 5^\circ\text{C}$. After removing the samples from water, samples shall be placed vertically and allowed to dry for 10 min. Ballistic test shall be completed within 40 min after drying time.

8.2.2 *Sea Water Resistance*

Sea water shall comprise of 30 g/l aqueous solution of sodium chloride, prepared using grade 3 reagent grade water (see IS 1070) at a temperature of $27 \pm 5^\circ\text{C}$. The sample shall be submerged in this solution for minimum of 30 min under a head of 145 ± 10 mm (see Note) from the topmost surface of the panel. After removing the samples from the solution, samples shall be placed vertically and allowed to dry for 10 min. Ballistic test shall be completed within 40 min after drying time.

NOTE — The equivalent head of sea water is 0.975 times the head of fresh water for the same pressure difference

1. Composition of Machine

The photograph illustrates the general assembly of the machine.

