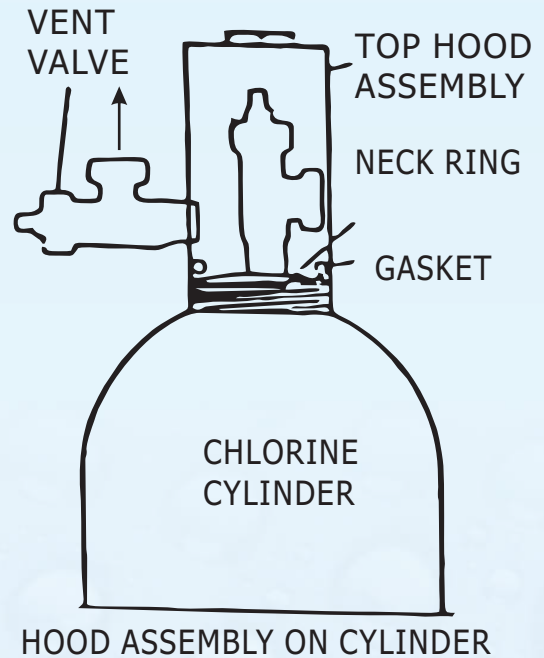
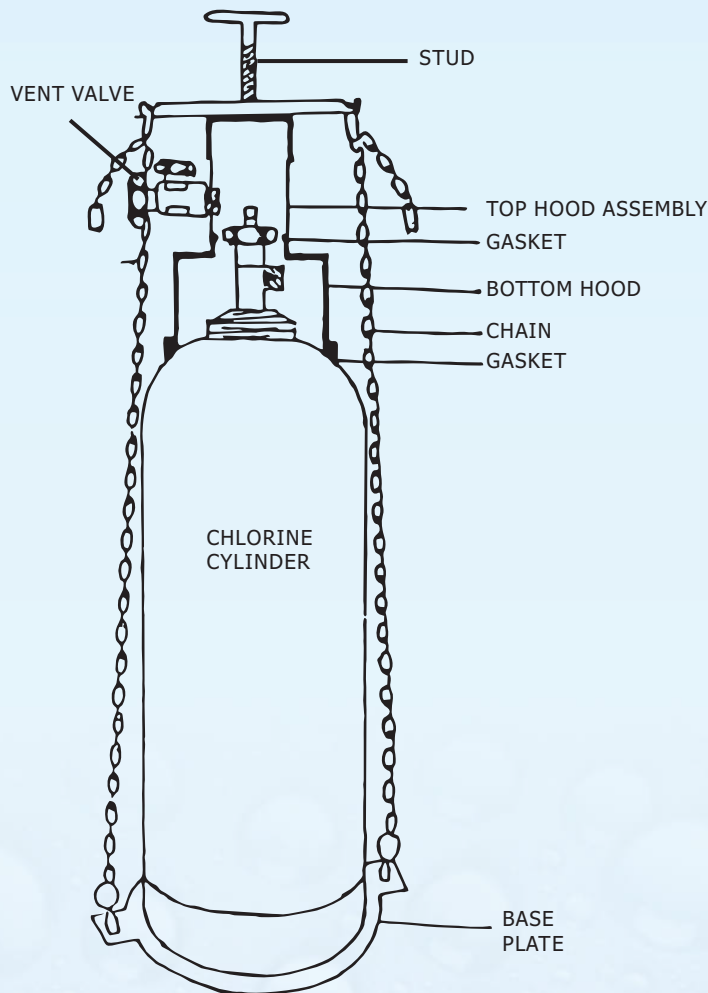


# SATHYA SAI

## CHLORINE EMERGENCY SAFETY KIT





## USE OF EMERGENCY KITS

An emergency kit consists of various appliances and tools, such as gaskets, Yokes, Hoods, Clamps, Chains, Pins, Wooden Pigs etc. of Standard Sizes, to fit Chlorine Cylinders and tonners generally in use. Separate Kits are available for Cylinders and Tonners. The Gadgets are designed to be of use in controlling/stopping leakages from valves, side walls. These are not useful in case of leakages from the chime of tonner.

### VALVE LEAKS :-

Leakages from the valve are the most common type encountered in handling Chlorine Cylinders/Tonners. There are basically four types of Valve Leaks, and these can be adequately controlled with the use of emergency kits.

- |      |                                      |   |  |
|------|--------------------------------------|---|--|
| I.   | Leak From Valve Packing              | : | Tightening the packing nut with a spanner should control the leakage.  |
| ii.  | Leak From Valve Seal Or Spindle      | : | This happens due to the valve not closing properly. Gently open and close the vale to remove any scales. If this fails remove the outlet cap, insert a gasket (lead or Teflon) and refill the outlet cap with a spanner.   |
| iii. | Lead due to defective inlet threads. | : | The threads hight either be worn out or broken. Tighten the valve carefully into the cylinder/tonner applying steady (but not too much) pressure with a spanner. If this fails, do not try to repair the valve. But control the outflow of chlorine through the use of the valve hood. |
| iv.  | Broken Valve                         | : | Outflow of chlorine gas should be controlled through the use of a valve hood assembly.   |



## HOW TO OPERATE EMERGENCY KITS

1. Remove the outlet cap of the vent valve fitted with the top Hood Assembly in the kit, and open the vent valve.
2. Check the threads of neck-ring of the cylinder : If they are not worn out, then mount the top.
3. If the neck ring threads are worn out, the slide over the cylinder, on a base plate. (we advice to keep the cylinder of Chlorine on base plate always in the time of consumption. hood assembly directly on to the cylinder enclosing the cylinder valve.
4. Insert the gasket on the cylinder and then put the top and bottom hood assembly on the gasket.
5. Mount the yoke on Top Hood Assembly.
6. Fix chains to yoke and base plate.
7. Fit the stud on Yoke and tighten the stud to such an extend that the gasket on cylinder provides a sealing.
8. Close the vent valve of the hood, and check for any leakage of Chlorine from this valve and the gasket on the cylinder.
9. Make connection to th event valve of the hood for transferring Chlorine to proves, or to the neutralizing section, as the case may be.



## USE OF YOKE AND CHAIN ASSEMBLY FOR BODY WALL LEAKS

1. Loosen the top cap screw, of the yoke.
2. Place the Gasket and Steel Patch centrally on the leak.
3. Position the top cap screw in the depression of the steel patch.
4. Now tighten the top cap screw slowly and steadily so that the patch gives a leak - free sealing. (if it is found that the wall of the cylinder is weakening while tightening the top cap screw, do not apply further pressure.)
5. Check for leak around the steel patch. If gas is still escaping. Tighten the top cap screw further : till the leak is completely sealed.



## PROPORTIONS OF ALKALI AND WATER RECOMMENDED FOR DEFUSING THE LEAKING CHLORINE CYLINDER

Chlorine Container Capacity	Caustic Soda & Water		Soda Ash & Water		Hydrated lime & Water	
	Weight Kg.	Volume litre	Weight Kg.	Volume litre	Weight Kg.	Volume litre
45	58	182	136	450	58	566
68	90	270	220	680	82	815
100	128	408	323	1000	120	1198
900	1160	3680	2720	9050	1160	11350

**CAUTION : KEEP THE SUPPLY OF CAUSTIC SODA, SODA ASH OR LIME AVAILABLE. DO NOT PUSH THE LEAKING CYLINDER IN THE ALKALI TANK. CONNECT THE CYLINDER TO A TEFLON PIPE AND PUT THE PIPE IN ALKALI TANK.**



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