WATER CORPORATION ABN 28 003 434 917	**Chemical Facility** **Operations Equipment Specification** ***CHLORINE MALLET***

Doc ID 58573731	**Custodian** Senior Principal Engineer, WT, Engineering
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1 Purpose

The purpose of this specification is to describe the requirements for chlorine mallets used at Water Corporation sites where chlorine drums or cylinders are connected for use.

2 Scope

This specification applies to mallets used at chlorine facilities and is mandatory. Mallets not meeting the requirements listed below, shall NOT be used. Hammers or other implements shall NOT be used.

3 Definitions

ABS	Aluminium/Bronze/Silicon
Chlorine Container	Includes drums and cylinders

4 References

AS/NZS 2927:2019 - The Storage and Handling of Liquefied Chlorine Gas

Dangerous Goods Safety (Storage and Handling of Non-explosives) Regulations 2007 WA

Multi Chlorine Spanner: https://nexus.watercorporation.com.au/otcs/cs.exe/app/nodes/58573779

WC Chlorine Operating Procedures and Work Instructions

5 Specification

The **Chlorine Mallet** is a tool for use by authorised personnel for un-sticking a tight spindle valve on chlorine containers. The mallet has a long hardwood handle (~240mm) and a high grade rubber head weighing ~450g (~16oz) that makes it an ideal tapping tool (max length 300mm).

Note: Chlorine spindle valves may be manufactured from mild steel or ABS and both have the potential to be tight, but more so the mild steel valves.

- The **Chlorine Mallet** shall ONLY be used in conjunction with the ***Multi Chlorine Spanner*** and *MUST NOT* be used to strike the smaller standard chlorine valve key.
- In the event that a tight spindle valve is unable to be opened with the standard Multi Chlorine Spanner, then the Chlorine Mallet may be used to tap the Multi Chlorine Spanner in order to open the chlorine drum or cylinder spindle valve.
- It is recommended that the force of the Chlorine Mallet onto the large open end of the Multi Chlorine Spanner should correspond to the mallet being raised to a maximum height of only 300mm (12 inches) above the Chlorine Spanner.
- One or two taps with the Chlorine Mallet should un-stick the tightly closed chlorine spindle valve. If after the second tap the valve does not become un-stuck, then the chlorine container shall be tagged and the cover or cap placed back and then returned to the supplier in accordance with the Reporting of Chemical Container Faults Work Instruction: https://nexus.watercorporation.com.au/otcs/cs.exe/app/nodes/58574849

NOTE: Implements other than the standard Mallet **must not be** used as they might damage or break off the chlorine spindle valve, causing a significant to major chlorine leak. This standard type of mallet should be available from most hardware stores.

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