1 Purpose

The purpose of this specification is to describe the requirements for washers used for chlorine drum and cylinder connections at Water Corporation chlorine facilities.

2 Scope

This specification applies to all washers used for connections at Water Corporation chlorine facilities and is mandatory.

3 Definitions

N/A

4 References

AS/NZS 2927:2019 - The Storage and Handling of Liquefied Chlorine Gas
Dangerous Goods Safety (Storage and Handling of Non-explosives) Regulations WA
5 SPECIFICATION

CHLORINE GAS WITHDRAWAL SYSTEMS

• Lead washer
  24mm (OD) x 14.5mm (ID) x 1.5mm thick
  Store MMR - 19998

Suitable for gas withdrawal systems, this washer is to be located in between either the TOP chlorine drum spindle valve OR the cylinder spindle valve, and the vacuum regulator yoke.

NOTE: Disposable NITRILE gloves shall be worn when using lead washers.
CHLORINE LIQUID WITHDRAWAL SYSTEMS

• Tesnit Blue washer (BA-U) (Butan Rubber)
  22mm (OD) x 9.6mm (ID) x 3mm thick
  Store MMR - 21718

OR

• Lead washer
  22mm (OD) x 9.6mm (ID) x 1.3mm thick
  Store MMR - 20002

Both the Tesnit and Lead washers are suitable for liquid withdrawal systems and are to be located in between the BOTTOM chlorine drum spindle valve and the auxiliary valve (the point at which the auxiliary valve (pigtail isolation valve) and the drum spindle valve connect).

NOTE: Disposable NITRILE gloves shall be worn when using lead washers.
### Chlorination Facility Operations Equipment Specification

**CHLORINE WASHERS**

---

**Not Permitted for Use in WC**

- Sigma - 511 Flexitallic washers (two types - pink)
- IXOM - fibre washers (are delivered attached to valves - white/green, shall be removed and discarded)

**NOTE:** These and any other washers not listed in this spec must **NOT** be used at any Water Corporation chlorine facility without prior consent from the Senior Principal Engineer, WT, Engineering.

---

**Document Revision History**

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>26 Feb 2002</td>
<td>Document developed by RB &amp; reviewed by NH</td>
</tr>
<tr>
<td>7 May 2007</td>
<td>Document reviewed by RB &amp; NH</td>
</tr>
<tr>
<td>17 Sept 2008</td>
<td>Document placed in Aqua PM# 1081434</td>
</tr>
<tr>
<td>3 Aug 2010</td>
<td>Document place Cordoc format by SZ</td>
</tr>
<tr>
<td>25 Aug 2010</td>
<td>Document reviewed by RB &amp; NH</td>
</tr>
<tr>
<td>10 Oct 2013</td>
<td>Document reviewed by SZ &amp; NH</td>
</tr>
<tr>
<td>17 Oct 2017</td>
<td>Sec4: references updated; Sec5: updated</td>
</tr>
<tr>
<td>20 Oct 2020</td>
<td>Document reviewed by SZ Sec5 updated</td>
</tr>
</tbody>
</table>