



**STATE OF WISCONSIN**

Department of Safety and Professional Services  
 1400 E Washington Ave.  
 Madison WI 53703

Mail to:  
 INDUSTRY SERVICES DIVISION  
 Elevator (Conveyance) Safety Program  
 141 NW Barstow St, 4<sup>th</sup> Floor Waukesha,  
 WI. 53188-3789

Email: [dspd@wisconsin.gov](mailto:dspd@wisconsin.gov)  
 Web: <http://dspd.wi.gov>

Voice: 262 521-5444 • FAX: 262 548-8614 • TTY: 608 267-2416

**Testing, Inspecting, Witnessing and Sealing of Hydraulic Elevator Control Valves**

CONDITION	PROCEDURE
<p><b>(A)</b>            Existing control valve has provision for a seal but no seal is installed</p> <p style="text-align: center;"><b>OR</b></p> <p>An existing seal was broken as part of repairing the existing valve.</p> <p><b>NOTE: DELIBERATELY ADJUSTING A VALVE TO LIFT MORE THAN RATED LOAD IS NOT PERMITTED UNDER ANY CIRCUMSTANCES.</b></p>	<p><b>Is the working pressure available in the State database, it is permanently marked on the pumping unit, tank or controller or in the maintenance record that is reasonable based on the empty-car running pressure?</b></p> <p>→ <b>YES</b></p> <ol style="list-style-type: none"> <li>1). Perform the relief valve test required by 8.6.5.14.1 and the static test required by 8.6.5.14.2.</li> <li>2). Adjust if necessary.</li> <li>3). Seal the valve.</li> <li>4). Complete the Periodic Hydraulic Elevator Test form SBD-3E.</li> <li>5). Update the elevator maintenance record.</li> </ol> <p>→ <b>NO</b></p> <ol style="list-style-type: none"> <li>1). Perform full load test to determine working pressure. Calculations will not be accepted in lieu of full-load determination of working pressure.</li> <li>2). Perform all steps under "Yes" above.</li> </ol>
<p><b>(B)</b>            New or replacement hydraulic control valve is installed</p>	<p><b>Is this an Emergency Repair?</b></p> <p>→ <b>YES</b></p> <ol style="list-style-type: none"> <li>1). Submit application to perform the work. Check "Emergency Repair" on the application form.</li> <li>2). Schedule the inspection immediately.</li> <li>3). After valve installation perform full-load test to determine working pressure or calculations to estimate working pressure.</li> <li>4). Adjust relief setting as necessary.</li> <li>5). Seal the setting – elevator is permitted to be placed in service.</li> <li>6). Update the elevator maintenance record.</li> <li>7). In the presence of the inspector, perform full-load test to verify working pressure. Calculations will not be accepted in lieu of full-load determination of working pressure for final sealing. If necessary, adjust relief setting and reseal valve.</li> <li>8). Update the elevator maintenance record.</li> </ol> <p>→ <b>NO</b></p> <ol style="list-style-type: none"> <li>1). Submit application to perform the work.</li> <li>2). Schedule the inspection for completion date.</li> <li>3). In the presence of the inspector, perform full load test to determine working pressure. Calculations will not be accepted in lieu of full-load determination of working pressure.</li> <li>4). Adjust relief setting as necessary.</li> <li>5). Seal the setting.</li> <li>6). Update the elevator maintenance record.</li> </ol>

<p><b>(C)</b>  <b>Valve is sealed by another contractor or by a State or City of Milwaukee inspector in the past.</b>  *Some seals were installed by inspectors without witnessing full-load tests. This will assure that settings are correct.</p>	<p><b>Are working and relief pressures noted and do actual pressures match these?</b>  <b>→ YES</b>  Leave the valve as it is.  <b>→ NO</b>  Go to the procedure under <b>(A)</b> on this chart.</p>
<p><b>(D)</b>  <b>Valve cannot be sealed</b>  *The sealing of valves was not required for elevators with contract dates prior to November 1, 1964.</p>	<p><b>Are working and relief pressures noted and do actual pressures match these?</b>  <b>→ YES</b>  Leave the valve as it is.  <b>→ NO</b>  Go to the procedure under <b>(A)</b> on this chart.</p>

Elevator companies are encouraged to provide their own unique seal. Hydraulic valve seals must be provided with a metal tag meeting ASME A17.1, 8.6.1.7.2.

**Date:** 1-30-2015, revision to documents dated 5-20-2013, 2-20-2009 and 3-22-2005.