



Subject:

Replacement of Hydraulic Control Valves

Issue:

This information bulletin is to clarify the testing requirements for newly replaced hydraulic control valves.

Requirements:

Replacement of any hydraulic control valve, whether make or model is same or different than the original, shall be tested as follows:

1. Where a control valve is replaced with a valve of a **different make and model**, the speed of the car shall be verified **with rated load** and with no load, in both directions.
2. Where a control valve is replaced with a valve of the **same make and model**, but the no load speed in the down direction of the original valve cannot be determined, the speed of the car shall also be verified **with rated load**, and with no load, in both directions.
3. Where a control valve is replaced with a valve of the **same make and model**, and the no load speed in the down direction is set to the **same** value as the original valve, the speed of the car may be verified **with no load** in both directions.

Procedure:

When hydraulic control valve is replaced the **Hydraulic Elevator Valve Replacement Test Declaration** document (see attached bottom of document) must be completed by the elevator contractor and sent to AEDARSA within 24-hours of the replacement.

Background:

The original requirements for replacement of hydraulic elevator valve was set out in a STANDATA 2014-001 and since that time the regulatory requirements have changed to the following;

1. The Elevating Devices Codes Regulation AR192/2015
2. The adopted code is ASME A17.1-2013/CSA B44-13.
3. The code requirements for replacement of hydraulic valve replacement are;
 - a. Alteration Section of the code states "8.7.3.24 tests shall be performed as specified in 8.10.3.2.2 (t), (u), (v), (y) and 8.10.3.2.3 (cc)"
 - b. Acceptance Section of the code states 8.10.3.3.2 (o) Where an existing control valve is replaced or where relief or check valves or the supply piping and fittings are replaced with a valve of a different type see 8.10.3.2.3(cc) Car Speed [3.28.1(k)]. The speed of the car shall be verified with rated load and with no load, in both directions (Item 3.30 ASME A17.2).

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4. Authority to Seal the Relief Pressure:

A temporary seal is required to be placed on the relief pressure setting once a procedure is completed by an elevator contractor. Only a Safety Codes Officer that is designated by the Safety Codes Council to an agency listed in the Authorized Accredited Agency is permitted to remove a temporary seal and replace it after confirmation of documentation with AEDARSA

Implementation:

This information bulletin comes into force July 1, 2021.

Original signed by:

Dean McKernon
AEDARSA, VP of Operations

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Appendix:

Hydraulic Elevator Control Valve Replacement Test Declaration Document

General	Date:	Elevator #:	# Floors:
	Government #:	Class: <input type="checkbox"/> Passenger <input type="checkbox"/> Freight	
	Building Name:		
	Address:		
	City:		
	Owner:	Speed:	Capacity:

Hydraulic Tests	Working Pressure posted in Machine Room? Yes <input type="checkbox"/> No <input type="checkbox"/> Full Load Working Pressure: psi
	Relief Pressure _____ psi.
	Was the Stop Ring engaged during relief pressure test? Yes <input type="checkbox"/> No <input type="checkbox"/>
	Is there provision for the Relief Valve to be sealed? Yes <input type="checkbox"/> No <input type="checkbox"/>
	Bypass Pressure Tested? (Note The valves bypass pressure test is a different test and not to be confused with the relief pressure test) Yes <input type="checkbox"/> No <input type="checkbox"/>
	Is the hydraulic control valve is the same type and manufacturer as the original? Yes <input type="checkbox"/> No <input type="checkbox"/>
	If the hydraulic control valve is not the same type and or manufacturer provide details, the valve type and manufacturer here
	Has all the manufacturers installation and testing instruction been followed and completed? Yes <input type="checkbox"/> No <input type="checkbox"/>
Explain items Marked as NO above:	

Contractor performing tests:		
Name of Mechanic:	Signature:	Date:
<i>Your signature on this form constitutes your legally binding representation that the work herein referred to complies with all applicable regulations, codes, and standards. A copy of this form must be submitted to AEDARSA, and a copy of the signed document shall be posted in the machine room for use by elevator and inspection personnel</i>		

AEDARSA USE ONLY			
SCO Name	SCO ID	Signature:	Date Valve Sealed

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