

Alteration of Valves

Technical Bulletin 8/2011

Alteration of control valves per WAC 296-96-1006 is an alteration even if you change a valve like for like.
(see attachment)

Asme A 17.1 2004/2005 code requires that when you change a control valve you must comply with all parts of ASME A 17.1 rule 8.6.3.11 and 3.19
(see attachment)

Rule 3.19.4.7 requires an overspeed valve. When changing a control valve you must install an overspeed valve.
(see attachment)

Once work is performed you cannot return the conveyance to service unless you have passed an inspection.

Alteration of shut off valves per WAC 296-96-1006 is an alteration even if you change a valve like for like.
(see attachment)

ASME A17.1 8.6.3.11 requires that when replacing valves, piping or fittings you must conform to 3.19. 3.19 requires overspeed valves. If you install new shut off valves or new piping or fittings you must also install an overspeed valve. (see attachment)

If you change or replace piping or fittings an overspeed valve is required.

All of the above replacements are considered alterations in Washington. You will need a permit and must pass an inspection before returning the elevator back to service.

Valves

WAC 296-96-01006 What type of conveyance work requires permitting and inspection?

(1) All installation and relocation of conveyances requires permitting and inspection. All conveyance work must be performed by an elevator mechanic licensed to perform work in the appropriate category. (See WAC 296-96-00910).

(2) All alterations require permitting, inspection, and must include but are not limited to:

(a) Items identified in ASME A17.1.

(b) Any conveyance work that requires the conveyance to be tested prior to being returned to service, including:

(i) The replacement or repair of any parts, the installation of which would require recalibration or testing (e.g., brakes, hydraulic valves and piping, safeties, door reopening devices, governors, communication systems, cab interiors, car/hall buttons, etc.); or

(ii) Work performed on components or equipment affecting or necessary for fire and life safety (e.g., cab interiors, systems associated with fire recall, etc.).

(3) Permits and fees are not required for normal function and necessary maintenance and repair performed with parts of equivalent materials, strength, and design or for any conveyance exempted by RCW 70.87.200.

Contact the department if you have any questions or need assistance determining if a permit and inspection are required.

ASME A17.1 8.7.3.24 Valves, Pressure Piping, and Fittings. Where an existing control valve is replaced with a valve of a different type, it shall conform to [3.19](#). Where relief or check valves or the supply piping or fittings are replaced as part of an alteration, the components replaced shall conform to the applicable requirements of [3.19](#). Where electrically operated control valves are installed in place of existing mechanically operated control valves, for rated speeds of more than 0.5 m/s (100 ft/min), existing terminal stopping devices consisting of an automatic stop valve independent of the normal control valve and operated by the movement of the car as it approaches the terminals, where provided, shall be permitted to be retained.

Valves

3.19.4.7 Overspeed Valves. When provided,overspeed valves and their connections and attachments shall conform to 3.19.4.7.1 through [3.19.4.7.6](#).

8.6.3.11 Replacement of Valves and Piping. Where any valves, pipings, or fittings are replaced, replacements shall conform to [3.19](#) with the exception of [3.19.4.6](#). Replacement control valves must conform to the Code under which it was installed.