

Chapter 296-303 WAC
SAFETY STANDARDS FOR LAUNDRY MACHINERY AND OPERATIONS

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WAC

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WAC 296-303-010 Laundry machinery and operations—Scope and application. This chapter applies to moving parts of equipment used in laundries and to conditions peculiar to this industry, with special reference to the point of operation of laundry machines. This chapter does not apply to dry-cleaning operations.

[Order 74-18, § 296-303-010, filed 5/6/74.]

WAC 296-303-01001 General industrial safety standards. (1) General. These standards must be augmented by the Washington state general safety and health standards, and any other regulations of general application which are or will be made applicable to all industries.

(2) Additional requirements. You must comply with the provisions of the standards referenced in this section. In the event of any conflict between this section and WAC 296-303-015 through 296-303-040, the requirements of WAC 296-303-015 through 296-303-040 must apply. The provisions of this chapter must prevail in the event of conflict with, or duplication of, provisions contained in chapters 296-24, 296-62, and 296-800 WAC.

(a) Industrial lighting. American National Standard Practice for Industrial Lighting, ANSI A11.1-1965 (R-1970).

(b) Floor and wall openings, railings, and toeboards. American National Standard Safety Requirements for Floor and Wall Openings, Railings, and Toeboards, ANSI 12.1-1956.

(c) Identification of piping systems. American National Standard Scheme for the Identification of Piping Systems, ANSI A13.1-1956.

(d) Mechanical power transmission apparatus. American National Standard Safety Standard for Mechanical Power Transmission Apparatus, ANSI B15.1-1971.

(e) Pressure piping—Power piping. American National Standard Code for Pressure Piping—Power Piping, ANSI B31.1.0-1967. Addenda to the American National Standard Code for Pressure Piping—Power Piping, ANSI B31.1.0a-1969.

(f) Sanitation. American National Standard Requirements for Sanitation in Places of Employment, ANSI Z4.1-1968.

(g) Local exhaust systems. American National Standard Fundamentals Governing the Design and Operation of Local Exhaust Systems, ANSI Z9.2-1960.

(h) Gas appliances and gas piping. American National Standard for the Installation of Gas Appliances and Gas Piping, ANSI Z21.30-1964.

(3) WAC 296-24-012 and 296-800-360 must apply where applicable to this industry.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, and 49.17.060. WSR 17-18-075, § 296-303-01001, filed 9/5/17, effective 10/6/17; WSR 07-03-163, § 296-303-01001, filed 1/24/07, effective 4/1/07. Statutory Authority: RCW 49.17.010, [49.17].040, and [49.17].050. WSR 01-11-038, § 296-303-01001, filed 5/9/01, effective 9/1/01; Order 74-18, § 296-303-01001, filed 5/6/74.]

WAC 296-303-01003 Definitions. Dampening machine. A machine used for dampening clothes or other textiles.

Drying room. An enclosure used for drying clothes or other textiles, and containing any power-driven mechanism.

Drying tumbler. A machine within which clothes or other textiles are dried by air, and which usually consists of an enclosure inside of which is a revolving cylinder.

Enclosed. The object or equipment or part thereof is so guarded that accidental contact at the point of danger, during the regular operation of the equipment, is not possible.

Extractor. A power-driven centrifugal machine used for removing surplus moisture from clothes or other textiles by centrifugal action.

Guarded. Covered, shielded, fenced, enclosed, or otherwise protected by means of suitable covers or casings, barrier rails, safety bars, or screens, to eliminate the possibility of accidental contact with, or dangerous approach by, persons or objects.

Ironer. A hand- or power-operated machine, with one or more rolls or heated surfaces in contact, used for ironing or smoothing clothes or other textiles.

Laundry. An establishment wherein the washing, ironing, or other finishing of clothes, or any other textiles is done, but excluding printing, bleaching, dry cleaning, or dyeing of clothes or other textiles.

Marking machine. A power-driven machine used for marking clothes or other textiles.

Moving parts. Gears, sprockets, revolving shafts, clutches, belts, pulleys, or other revolving or reciprocating parts that are attached to, or form an integral part of, a machine.

Point of operation. The point or points at which clothes or other textiles are inserted or manipulated in the operation of the machine.

Power transmission. Pertains to equipment such as shafting, gears, belts, pulleys, or other parts used for transmitting power to the machine, and shall include prime movers.

Prime movers. Includes steam, gas, oil, and air engines or motors, and steam and hydraulic turbines.

Safety interlock. A device that will prevent the operation of the machine while the cover or door is open or unlocked and will hold the cover or door closed and locked while the basket or cylinder is in motion.

Sewing machine. A machine used for sewing or stitching clothes or other textiles.

Shaker (clothes tumbler). A revolving cylinder used for shaking out clothes or other textiles.

Shaping machine. A power-driven machine used to shape, mold, or otherwise finish clothes or other textiles; this term shall also in-

clude shaping tables, stands, or shelves upon which the machine may be mounted.

Starch mixer. A power-driven machine used for mixing or processing starch.

Starching machine. A power-driven machine used for the starching of clothes or other textiles.

Washing machine. A power-driven machine used for washing clothes or other textiles. It generally consists of a stationary case or shell inside of which is a revolving perforated cylinder.

Wringer. One or more power-driven rolls used for removing surplus moisture from clothes or other textiles.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, and 49.17.060. WSR 17-18-075, § 296-303-01003, filed 9/5/17, effective 10/6/17; Order 74-18, § 296-303-01003, filed 5/6/74.]

WAC 296-303-020 Point-of-operation guards—Scope and application. All sections of this chapter which include WAC 296-303-020 in the section number apply to point-of-operation guards.

[Order 74-18, § 296-303-020, filed 5/6/74.]

WAC 296-303-02001 Washroom machines. (1) Marking machine. Each power marking machine must be equipped with a spring-compression device of such design as to prevent injury to fingers, should they be caught between the marking plunger and platen; or the marking machine must be equipped with a control mechanism that will require the simultaneous action of both hands to operate the machine; or there must be a guard that will act as a barrier in front of, and which will prevent the operator's fingers from coming into contact with the marking plunger.

(2) Washing machine.

(a) Each washing machine must be equipped with an interlocking device that will prevent the inside cylinder from moving under power when the outer door on the case or shell is open, and will also prevent the door from being opened while the inside cylinder is in motion. This device should not prevent the movement of the inner cylinder under the action of a hand-operated mechanism or under the operation of an "inching device."

(b) Each washing machine must be provided with means for holding open the doors or covers of inner and outer cylinders or shells while being loaded or unloaded. Spring loaded devices are an acceptable means.

(3) Extractor.

(a) Each extractor must be equipped with a metal cover.

(b) Each extractor must be equipped with an interlocking device that will prevent the cover from being opened while the basket is in motion, and will also prevent the power operation of the basket while the cover is not fully closed and secured. This device should not prevent the movement of the basket by hand to ensure an even loading.

(c) Each extractor must also be effectively secured in position on the floor or foundation so as to eliminate unnecessary vibrations, and must not be operated at a speed greater than that given in the manufacturer's rating, which must be stamped on the inside of the bas-

ket where it is easily visible, in letters not less than one-fourth inch in height. The maximum permissible speed must be given in revolutions per minute.

(d) Each engine individually driving an extractor must be provided with an approved engine stop and a speed-limit governor. It is suggested that where an extractor is driven by a direct-current motor a "no field" release be installed to prevent overspeed, which may result from an open or broken field.

(4) Power wringer. Each power wringer must be equipped with a safety bar or other guard across the entire front of the feed or first pressure rolls, so arranged that the striking of the bar or guard by the hand of the operator or other person will stop the machine.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, and 49.17.060. WSR 17-18-075, § 296-303-02001, filed 9/5/17, effective 10/6/17; WSR 07-03-163, § 296-303-02001, filed 1/24/07, effective 4/1/07; Order 74-18, § 296-303-02001, filed 5/6/74.]

WAC 296-303-02003 Starching and drying machines. (1) Starching machine (cylinder or box type). Each starching machine, cylinder or box type, must be enclosed or guarded so as to prevent the operator or other person from coming into accidental contact with the cylinder or box while the machine is in motion.

(2) Drying-room fan. Each drying-room fan, any part of which is within 7 feet of the floor or working platform, must be guarded with wire mesh or screen of not less than No. 16 gauge, the openings of which will reject a ball one-half inch in diameter.

(3) Drying tumbler.

(a) Each drying tumbler must be equipped with an interlocking device that will prevent the inside cylinder from moving under power when the outer door on the case or shell is open, and also prevent the door from being opened while the inside cylinder is in motion. This device should not prevent the movement of the inner cylinder under the action of a hand-operated mechanism or under the operation of an inching device.

(b) Each drying tumbler must be provided with means for holding open the doors or covers of inner and outer cylinders or shells while being loaded or unloaded.

(4) Shaker (clothes tumbler).

(a) Each shaker or clothes tumbler of the single-cylinder type must be equipped with a device that will automatically prevent the tumbler from moving while the door is open.

(b) The tumbler must also be enclosed or guarded so as to prevent accidental contact by the operator or other person while the machine is in motion.

(c) Each shaker or clothes tumbler of the double-cylinder type must be equipped with an interlocking device that will prevent the inside cylinder from moving when the outer door on the case or shell is open and will also prevent the door from being opened while the inside cylinder is in motion. This device should not prevent the movement of the inner cylinder under the action of a hand-operated mechanism or under the operation of an inching device.

(d) Each shaker or clothes tumbler of the double-cylinder type must be provided with means for holding open the doors or covers of inner and outer cylinders or shells while being loaded or unloaded.

(5) Exception. Provisions of (3), (4)(a), (c) and (d) of this section must not apply to shakeout or conditioning tumblers where the clothes are loaded into the open end of the revolving cylinder and are automatically discharged out of the opposite end.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, and 49.17.060. WSR 17-18-075, § 296-303-02003, filed 9/5/17, effective 10/6/17; Order 74-18, § 296-303-02003, filed 5/6/74.]

WAC 296-303-02005 Finishing machines. (1) Dampening machine.

Each roll-dampening machine must be so equipped that the rolls will be entirely enclosed and so arranged as to prevent the fingers of the operator or other person from being caught between the rolls. This may be accomplished by:

(a) A slot or hopper;

(b) A rod or strip located directly in front of the feed and extending the full length of the rolls.

(2) Ironer.

(a) Each flat-work or collar ironer must be equipped with a safety bar or other guard across the entire front of the feed or first pressure rolls, so arranged that the striking of the bar or guard by the hand of the operator or other person will stop the machine. The pressure rolls must be covered or guarded so that the operator or other person cannot reach into the rolls without removing the guard. This may be either a vertical guard on all sides or a complete cover. If a vertical guard is used, the distance from the floor or working platform to the top of guard must not be less than six feet.

(b) Each body-type ironer, roll or shoe type, including sleeve and band ironers, must be equipped with a safety bar or other guard across the entire length of the feed roll or shoe, so arranged that the striking of the bar or guard by the hand of the operator or other person will stop the machine. The hot roll or shoe must also be covered in such a way that the operator or other person cannot come into contact with the heated surfaces.

(c) Each combined rotary-bosom and coat ironer must be equipped with a safety bar or other guard across the entire length of the feed roll or shoe, so arranged that the striking of the bar or guard by the hand of the operator or other person will stop the machine. The hot roll or shoe must also be covered in such a way that the operator or other person cannot come into contact with the heated surfaces.

(d) Each ironing press (excluding hand or foot powered ones) must be equipped with a guard or means that will prevent the fingers of the operator or other person from being caught between the ironing surfaces.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, and 49.17.060. WSR 17-18-075, § 296-303-02005, filed 9/5/17, effective 10/6/17; Order 74-18, § 296-303-02005, filed 5/6/74.]

WAC 296-303-02007 Miscellaneous machines and equipment. (1)

Sewing machine. Each sewing machine must be equipped with a guard permanently attached to the machine, so that the operator's fingers cannot pass under the needle. It must be of such form that the needle can be conveniently threaded without removing the guard. This requirement

will not apply to domestic-type sewing machines having a presser-foot which is in the "down" position during operation of the machine.

(2) Exhaust or ventilating fans. Each exhaust or ventilating fan within seven feet of the floor or working platform must be completely covered with wire mesh of not less than No. 16 gauge, and with openings that will reject a ball one-half inch in diameter.

(3) Steam pipes.

(a) All steam pipes that are within seven feet of the floor or working platform, and with which the worker may come into contact, must be insulated or covered with a heat-resistive material or must be guarded to prevent direct contact with the worker.

(b) Where pressure-reducing valves are used, one or more relief or safety valves must be provided on the low-pressure side of the reducing valve, in case the piping or equipment on the low-pressure side does not meet the requirements for full initial pressure. The relief or safety valve must be located adjacent to, or as close as possible to, the reducing valve. Relief and safety valves vented to the atmosphere must be so constructed as to prevent injury or damage caused by fluid escaping from relief or safety valves. The vents must be of ample size and as short and direct as possible. The combined discharge capacity of the relief valves must be such that the pressure rating of the lower-pressure piping and equipment will not be exceeded if the reducing valve sticks or fails to open.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, and 49.17.060. WSR 17-18-075, § 296-303-02007, filed 9/5/17, effective 10/6/17. Statutory Authority: Chapter 49.17 RCW. WSR 89-11-035 (Order 89-03), § 296-303-02007, filed 5/15/89, effective 6/30/89; Order 74-18, § 296-303-02007, filed 5/6/74.]

WAC 296-303-025 Operating rules—Scope and application. All sections of this chapter which include WAC 296-303-025 in the section number apply to operating rules.

[Order 74-18, § 296-303-025, filed 5/6/74.]

WAC 296-303-02501 General. (1) Floors.

(a) The floors of every room in a laundry that are used for washing purposes must be properly constructed of cement, tile, or similar material. The floors must be watertight, free from projections, crevices, or dangerous gradients. They must be maintained in good repair and drained so that no water may accumulate.

(b) The floors of every room except washrooms must be constructed of hardwood or any impervious material, free from protruding nails, splinters, or loose boards, and must be so maintained.

(2) Table tops, shelves, and machine woodwork. Table tops, shelves, and machine woodwork must be constructed of materials properly surfaced, finished free from splinters, and so maintained.

(3) Markers. Markers and others handling soiled clothes must be warned against touching the eyes, mouth, or any part of the body on which the skin has been broken by a scratch or abrasion; and they must be cautioned not to touch or eat food until their hands have been thoroughly washed.

(4) Ventilation. Where artificial ventilation is necessary to the maintenance of comfortable working conditions, an adequate ventilating system must be installed as specified in chapter 296-62 WAC, Part L of the general occupational health standards.

(5) Instruction of employees. Employees must be properly instructed as to the hazards of their work and be instructed in safe practices, by bulletins, printed rules, and verbal instructions.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, and 49.17.060. WSR 17-18-075, § 296-303-02501, filed 9/5/17, effective 10/6/17; Order 74-18, § 296-303-02501, filed 5/6/74.]

WAC 296-303-02503 Mechanical. (1) Safety guards.

(a) No safeguard, safety appliance, or device attached to, or forming an integral part of any machinery must be removed or made ineffective except for the purpose of making immediate repairs or adjustments. Any such safeguard, safety appliance, or device removed or made ineffective during the repair or adjustment of such machinery must be replaced immediately upon the completion of such repairs or adjustments.

(b) No machine must be operated until such repairs and adjustments have been made and the machine is in good working condition.

(2) Steam-pressure apparatus. Steam machines must not be operated at a pressure above that given by the manufacturer's pressure rating as shown on name plate. If the steam source is at a pressure higher than that given by the manufacturer's rating, a stop valve, reducing valve, pressure gauge, and safety valve must be installed, in the order named, from the source. The safety valve must be located in a non-hazardous place.

(3) Machine adjustments. No moving parts of any machine must be oiled, cleaned, adjusted, or repaired while said machine is in operation or in motion except that the rolls of adjusting machines not equipped with hand-power means must be operated at the slowest speed possible with an operator constantly at the starting mechanism.

(4) Extractors. Each extractor must be dismantled and inspected at least once a year and, if necessary, repaired. Overdriven extractors, if provided with handholes through which basket and rings can be inspected, need not be dismantled.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, and 49.17.060. WSR 17-18-075, § 296-303-02503, filed 9/5/17, effective 10/6/17; Order 74-18, § 296-303-02503, filed 5/6/74.]

WAC 296-303-030 Moving parts. (1) Machine guarding (other than point of operation). Moving parts of machines, such as gears, sprockets, belts, pulleys, and shafts, must be guarded in accordance with the requirements of chapter 296-806 WAC, Machine safety.

(2) Prime-mover guarding. Moving parts of prime movers such as fly-wheels, cranks and connecting rods, tail rods or extension piston rods, and governor balls, must be guarded in accordance with the requirements of chapter 296-806 WAC, Machine safety.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, and 49.17.060. WSR 17-18-075, § 296-303-030, filed 9/5/17, effective

10/6/17; WSR 04-14-028, § 296-303-030, filed 6/29/04, effective 1/1/05; Order 74-18, § 296-303-030, filed 5/6/74.]

WAC 296-303-040 Starting and stopping devices. (1) Each power-driven machine must be provided with means for disconnecting from the source of power. Starting and stopping devices for machines must be located so as to be operable from the front of the machine, and constructed to allow proper guarding of belts and pulleys.

(2) Doors of washing machines, extractors, and tumbler/shaker dryer machines, must have a cut-off micro switch or other method to shut off power when loading doors are opened, making inner cylinder, tumbler, or shaker mechanisms inoperative while the door is open. In those situations where the cylinder or mechanism continues to rotate/move, and present a hazard after the power is off, an interlocking device, breaking switch, or a time-delay switch is additionally required to prevent injury.

[Statutory Authority: RCW 49.17.010, 49.17.040, 49.17.050, and 49.17.060. WSR 17-18-075, § 296-303-040, filed 9/5/17, effective 10/6/17. Statutory Authority: Chapter 49.17 RCW. WSR 89-11-035 (Order 89-03), § 296-303-040, filed 5/15/89, effective 6/30/89; Order 74-18, § 296-303-040, filed 5/6/74.]