

## ECLA EUROPEAN CLASSIFICATION

### E03D WATER-CLOSETS OR URINALS WITH FLUSHING DEVICES; FLUSHING VALVES THEREFOR

- E03D1/00** Water flushing devices with cisterns; [N: Setting up a range of flushing devices or water-closets; Combinations of several flushing devices]
- E03D1/00B** . [N: Cisterns in combination with wash-basins, urinals, or the like (domestic plumbing installations [E03C](#))]
- E03D1/00C** . [N: Realisations of and provisions for preventing "sweating" of cisterns]
- E03D1/01** . Shape or selection of material for flushing cisterns
- E03D1/012** . . Details of shape of cisterns, e.g. for connecting to wall, for supporting or connecting flushing-device actuators [N: (mounting frames with incorporated cisterns [E03D11/14B2](#))] [C9909]
- E03D1/012B** . . . [N: of built-in cisterns] [N1202]
- E03D1/02** . High-level flushing systems
- E03D1/02B** . . [N: Cisterns with floats actuating the flushing]
- E03D1/04** . . Cisterns with bell siphons
- E03D1/05** . . . with movable siphon bells
- E03D1/05B** . . . . [N: which are pushed upwards by means of own buoyancy, springs, counterweights, or the like]
- E03D1/05C** . . . . [N: providing an air lock] [N1202]
- E03D1/06** . . Cisterns with tube siphons
- E03D1/07** . . . with movable or deformable siphon tubes
- E03D1/08** . . . Siphon action initiated by air or water pressure [N: (actuating mechanisms therefor [E03D5/02C](#))]
- E03D1/08B** . . . . [N: in tube siphons]
- E03D1/08B2** . . . . . [N: by injection of air or water in the short leg of the siphon]
- E03D1/08B4** . . . . . [N: by pump, valve, or the like, in the short leg of the siphon or a vacuum pump in the long leg of the siphon]
- E03D1/10** . . . Siphon action initiated by raising the water level in the cistern, e.g. by means of displacement members
- E03D1/10B** . . . . [N: in cisterns with tube siphons]
- E03D1/12** . . . Siphon action initiated by outlet of air
- E03D1/12B** . . . . [N: in cisterns with tube siphons]
- E03D1/14** . . Cisterns discharging variable quantities of water (twin or multiple flushing cisterns [E03D1/22](#); flushing devices operated by pressure of the water supply system and discharging variable quantities of water [E03D3/12](#)) [N: also cisterns with bell siphons in combination with flushing valves]
- E03D1/14B** . . . [N: in cisterns with tube siphons and with tube siphons in combination with flushing valves]
- E03D1/14D** . . . [N: in cisterns with flushing valves]

- E03D1/14D2 . . . . [N: having a single flush outlet and an additional float for delaying the valve closure] [N0009]
- E03D1/14D3 . . . . [N: having multiple flush outlets] [N0009]
- E03D1/16 . . Cisterns for periodical discharge
- E03D1/16B . . . [N: with bell or tube siphons]
- E03D1/18 . . Cisterns empty when not in action, [N: e.g. with pressure tanks, with swivel-mounted cisterns]
- E03D1/18B . . . [N: with bell or tube siphons]
- E03D1/18D . . . [N: with flushing valves]
- E03D1/20 . . Cisterns with tiltably-mounted containers [N: for operation, e.g. by the seat [E03D5/04](#)]
- E03D1/22 . . Twin or multiple flushing cisterns
- E03D1/24 . Low-level flushing systems
- E03D1/26 . . Bowl with flushing cistern mounted on the rearwardly extending end of the bowl (shape or material of the cistern [E03D1/01](#); constructional features of the bowl [E03D11/02](#) to [E03D11/12](#))
- E03D1/26B . . . [N: provided with a bell or tube siphon]
- E03D1/26D . . . [N: exclusively provided with flushing valves as flushing mechanisms]
- E03D1/28 . . Bowl integral with the flushing cistern
- E03D1/28B . . . [N: provided with a bell or tube siphon]
- E03D1/28D . . . [N: provided with flushing valves]
- E03D1/30 . Valves for high or low level cisterns; Their arrangement (inlet valves, valves in general [F16K](#)) [N: Flushing mechanisms in the cistern, optionally with provisions for a pre- or a post-flushing and for cutting off the flushing mechanism in case of leakage (flushing valves [E03D1/14D](#), [E03D1/18D](#), [E03D1/26D](#), [E03D1/28D](#))]
- E03D1/30B . . [N: with valves kept in open position by means of air or water pressure or by vacuum]
- E03D1/30D . . [N: with valves with own buoyancy]
- E03D1/30D2 . . . [N: with articulated valves]
- E03D1/30F . . [N: with articulated valves ([E03D1/30D2](#) takes precedence)]
- E03D1/32 . . Arrangement of inlet valves (devices for reducing noise [E03D9/14](#)) [N: noise-reducing means [E03D11/00](#)]
- E03D1/33 . . Adaptations or arrangements of floats (actuating-floats in general [F16K33/00](#))
- E03D1/34 . . Flushing valves for outlets; Arrangement of outlet valves
- E03D1/35 . . . Flushing valves having buoyancy
- E03D1/36 . . Associated working of inlet and outlet valves
- E03D1/38 . . Adaptations or arrangements of flushing pipes (noise-absorbing means in pipe systems [F16L55/00](#)) [N: noise-reducing means in the flushing mechanism not in combination with flushing valves [E03D11/00](#); provisions in the flushing pipe for evacuating leakage water from the cistern]
- E03D3/00** **Flushing devices operated by pressure of the water supply system** [N: flushing valves not connected to the water-supply main, also if air is blown in the water seal for a quick flushing]
- E03D3/02 . Self-closing flushing valves (self-closing valves in general [F16K21/04](#))

- E03D3/04 . . with piston valve and pressure chamber for retarding the valve-closing movement
- E03D3/06 . . with diaphragm valve and pressure chamber for retarding the valve-closing movement
- E03D3/08 . . with other retarding devices
- E03D3/10 . Flushing devices with pressure-operated reservoir, e.g. air chamber
- E03D3/12 . Flushing devices discharging variable quantities of water (flushing cisterns discharging variable quantities of water [E03D1/14](#))
  
- E03D5/00** **Special constructions of flushing devices** (in motor vehicles or trailers [B60R15/00](#); in railway carriages [B61D35/00](#); in ships [B63B29/14](#); in aircraft [B64D11/02](#)), [N: e.g. closed flushing system]
  
- E03D5/00B . [N: Grey water flushing systems]
- E03D5/00B1 . . [N: Constructional details of cisterns for using greywater] [N1202]
- E03D5/01 . using flushing pumps
- E03D5/012 . combined with movable closure elements in the bowl outlet (bowls with closure elements between bottom or outlet and outlet pipe [E03D11/10](#))
- E03D5/014 . . with devices for separate removal of liquids and solids
- E03D5/016 . with recirculation of bowl-cleaning fluid
- E03D5/02 . operated mechanically or hydraulically ([E03D5/01](#), [E03D5/12](#) take precedence) [N: (or pneumatically) also details such as push buttons, levers and pull-card therefor]
- E03D5/02B . . [N: Operating automatically ([E03D5/10](#) takes precedence)] [C1202]
- E03D5/02C . . [N: Operated hydraulically or pneumatically]
- E03D5/02D . . [N: Devices preventing overflow or locks inhibiting the use of the flushing system (devices preventing overflow of the bowl contents and seals for the bowl outlet [E03D11/00](#)); Devices preventing sucking-up of sealing and flushing water]
- E03D5/02E . . [N: Pusher plates and actuating mechanisms for built-in cisterns] [N1202]
- E03D5/04 . . directly by the seat or cover [N: combined with devices for opening and closing shutters in the bowl outlet and/or with devices for raising and lowering seat or cover; Raising or lowering seat and/or cover by flushing or by the flushing mechanism]
- E03D5/06 . . directly by the door
- E03D5/08 . . directly by the foot [N: combined with devices for opening or closing shutters in the bowl outlet and/or with devices for raising or lowering seat and cover and/or for swiveling the bowl]
- E03D5/09 . . directly by the hand
- E03D5/092 . . . the flushing element, e.g. siphon bell, being actuated through a lever
- E03D5/094 . . . the flushing element, e.g. siphon bell, being actuated through a cable, chain or the like
  
- E03D5/10 . operated electrically ([E03D5/01](#), [E03D5/12](#) take precedence), [N: e.g. by a photo-cell; also combined with devices for opening or closing shutters in the bowl outlet and/or with devices for raising/or lowering seat and cover and/or for swiveling the bowl]
- E03D5/10B . . [N: touchless, e.g. using sensors] [N1202]

- E03D5/12 . discharging periodically (high-level cisterns for periodical discharge [E03D1/16](#))
  
- E03D7/00** **Wheeled lavatories** (wheeled closets without flushing [A47K 11/00](#); construction of land vehicles [B62](#))
  
- E03D9/00** **Sanitary or other accessories for lavatories** (hand tools for cleaning the toilets bowl [A47K11/10](#); seats or covers for closets [A47K13/00](#); body supports, other than seats for closets [A47K17/02](#); devices for preventing contamination of drinking-water pipes [E03C1/10](#)) [N: Devices for cleaning or disinfecting the toilet room or the toilet bowl; Devices for eliminating smells (cleaning, disinfecting or deodorising the seat [A47K13/30](#))]
  
- E03D9/00D . [N: Automatic cleaning devices]
- E03D9/00E . [N: Devices adding disinfecting or deodorising agents to the bowl]
- E03D9/00F . [N: Devices for eliminating smells by diffusing deodorants in lavatories] [C9810]
- E03D9/02 . Devices adding a disinfecting, deodorising, or cleaning agent to the water while flushing (apparatus for disinfection [A61L2/00](#); treatment of water in general [C02F](#))
- E03D9/02B . . [N: consisting of solid substances introduced in the bowl or the supply line]
- E03D9/03 . . consisting of a separate container with an outlet through which the agent is introduced into the flushing water, e.g. by suction; [N: Devices for agents in direct contact with flushing water] [C1202]
- E03D9/03B . . . [N: Devices connected to or dispensing into the flushing pipe] [N0111]
- E03D9/03C . . . [N: Devices connected to or dispensing into the bowl] [N0111]
- E03D9/03D . . . [N: Devices placed inside or dispensing into the cistern] [N0111]
- E03D9/03D1 . . . . [N: Devices connected to the actuation mechanism ([E03D9/03D2](#) takes precedence)] [N0111]
- E03D9/03D2 . . . . [N: Scoop-like devices] [N0111]
- E03D9/03D4 . . . . [N: Active dispensers, i.e. comprising a moving dosing element ([E03D9/03D1](#) takes precedence)] [N0111]
- E03D9/03D6 . . . . [N: Passive dispensers, i.e. without moving parts] [N0111]
  
- E03D9/04 . Special arrangement or operation of ventilating devices (ventilating rooms in general [F24F](#))
- E03D9/05 . . ventilating the bowl
- E03D9/052 . . . using incorporated fans
  
- E03D9/06 . Auxiliary chambers with water connection to the flushing pipe and adapted to receive utensils for bowl-cleaning, e.g. brushes
  
- E03D9/08 . Devices in the bowl producing upwardly-directed sprays; Modifications of the bowl for use with such devices (showers [A47K3/28](#); bathing devices for special therapeutic or hygienic purposes [A61H33/00](#), for specific parts of the body [A61H35/00](#)); [N: Bidets; Combinations of bowls with urinals or bidets; Hot-air or other devices mounted in or on the bowl, urinal or bidet for cleaning or disinfecting] [M1109]
- E03D9/08B . . [N: Hand-held spray heads for bidet use or for cleaning the bowl] [N1202]
  
- E03D9/10 . Waste-disintegrating apparatus combined with the bowl [N: special flushing devices [5/00](#)]

- E03D9/12 . Means to prevent freezing of lavatories
- E03D9/14 . Noise-reducing means combined with flushing valves (noise-absorbing means in pipe systems [F16L55/00](#)) [N: if not in combination with flushing valves [E03D11/00](#); noise-reducing means in valves in general [F16K47/00](#)]
- E03D9/16 . Water pressure regulating means in flushing pipes
- E03D11/00** **Other component parts of water-closets (pipe-joints or couplings in general [F16L](#))** [N: e.g. noise-reducing means in the flushing system (noise-reducing means in combination with flushing valves [E03D9/14](#)), flushing pipes mounted in the bowl, seals for the bowl outlet, devices preventing overflow of the bowl contents; devices forming a water seal in the bowl after flushing, devices eliminating obstructions in the bowl outlet or preventing backflow of water and excrements from the waterpipe]
- E03D11/02 . Water-closet bowls (auxiliary chambers with connections to flushing water for bowl-cleaning utensils [E03D9/06](#); modified for using upwardly-directed sprays [E03D9/08](#); seats or covers [A47K13/00](#)) [N: Bowls with a double odour seal optionally with provisions for a good siphonic action; siphons as part of the bowl (parts or details of bowls [E03D11/13](#))]
- E03D11/02B . . [N: Combined with wash-basins, urinals, flushing devices for chamber-pots, bed-pans, or the like]
- E03D11/04 . . Bowls of flat shape with only slightly inclined bottom [N: Squat-type closets]
- E03D11/06 . . Bowls with downwardly-extending flanges [N: for the sake of flushing]
- E03D11/08 . . Bowls with means producing a flushing water swirl
- E03D11/10 . . Bowls with closure elements provided between bottom or outlet and the outlet pipe; Bowls with pivotally supported inserts
- E03D11/11 . . Bowls combined with a reservoir, e.g. containing apparatus for disinfecting or for disintegrating
- E03D11/12 . Swivel-mounted bowls, e.g. for use in restricted spaces [N: slidably or movably mounted bowls; combinations with flushing and disinfecting devices actuated by the swiveling or sliding movement of the bowl] [C1202]
- E03D11/12B . . [N: Height adjustable bowls] [N1202]
- E03D11/13 . Parts or details of bowls; Special adaptations of pipe joints or couplings for use with bowls [N: e.g. provisions in bowl construction preventing backflow of waste-water from the bowl in the flushing pipe or cistern, provisions for a secondary flushing, for noise-reducing]
- E03D11/13B . . [N: Supports for bowls]
- E03D11/14 . . Means for connecting the bowl to the wall, e.g. to a wall outlet
- E03D11/14B . . . [N: Mounting frames for toilets and urinals] [N9909]
- E03D11/14B2 . . . . [N: with incorporated cistern (wall built-in flushing cisterns, connecting a cistern to the wall [E03D1/012](#))] [N9909]
- E03D11/16 . . Means for connecting the bowl to the floor, e.g. to a floor outlet
- E03D11/17 . . Means for connecting the bowl to the flushing pipe
- E03D11/18 . Siphons (for pipes in general [F16L43/00](#), [F16L45/00](#)) [N: if as part of the bowl [E03D11/02](#); connecting the siphon to the bowl]
- E03D13/00** **Urinals (without flushing devices [A47K11/00](#))** [N: Means for connecting the urinal to the

flushing pipe and the wastepipe; Splashing shields for urinals]

- E03D13/00B . [N: intended for use by women] [N1202]
- E03D13/00D . [N: Accessories specially adapted for urinals] [N1202]
- E03D13/00E . [N: Waterless or low-flush urinals; Accessories therefor (siphons [E03C1/28B](#)) [N1202]