

# Plumbing

# 22.00.00

## Description:

The purpose of the section is to highlight the current applicable UMD Design Standards for basic design and installation of plumbing fixtures and equipment.

## Related Sections:

- 10 21 00 Restroom Requirements

## Effective Date:

January 1, 2023

## Applicable Standards:

- WSSC – Washington Suburban Sanitary Commission

## General Requirements:

The provisions of WSSC apply, as well as industry standard good design practice for educational institutions. The design must reflect the University's need to perform maintenance and repair without interruption to educational activity. The University encourages the Plumbing consultant to employ water saving and energy-efficient design, consistent with goals of LEED and the project budget.

## Specific Requirements:

### Products:

#### Piping:

- See the Piping / Valves section.
- See the Mechanical Design Standards section for the required color code.

#### Valves

- See the Piping / Valves section.
- Gate and plug valves shall not be used without approval from the Plumbing Shop.

#### Fixtures

- Furnish fixtures and appurtenances in accordance with the following schedule.

Fixture	Material	Manufacturers	Notes
Water Closet	Flush valve, wall hung with heavy-duty carrier, white vitreous china elongated bowl and open toilet seat. Tank type will not be permitted.	American Standard, Toto, and Kohler	Valve by Sloan, American Standard, Toto, Zurn and Delany
Urinal	Wall hung vitreous china, without strainers.	American Standard, Toto, and Kohler	Valve by Sloan, American Standard, Toto, Zurn and Delany
Lavatory	Wall hung or oval self-rimming where installed in countertops. Vitreous china material.	American Standard and Kohler	Faucet by American Standard, Kohler and Chicago Faucet
Sink	Stainless steel, self-rimming. Compartment quantity and size as required for function.	Elkay and Just	Faucet by American Standard, Kohler and Chicago Faucet
Mop Sink	Wall mounted, cast iron, self-supporting P-trap with clean out.	American Standard and Kohler	Faucet by American Standard and Kohler
Electric Water Cooler	Wall mounted, ADA compliant with hand-operated (valve-type) bubblers.	Oasis, Elkay and Halsey Taylor	

# Plumbing

# 22.00.00

Emergency Eye Wash	Squeeze handle operation and ABS plastic eye/face wash head. Thermostatic mixing valve with built-in shutoff in the event of hot or cold water supply failure.	Gardian and Haws	
--------------------	--	------------------	--

Design Guidelines:

- Provide a back-up pump for all domestic hot water re-circulating systems.
- Provide a separate re-circulating pump for each domestic hot water system that has a different temperature setpoint.
- Provide a valved by-pass on pressure reducing valve assemblies.
- Waterless urinals are not allowed.