

PART III – HDS FACILITIES PLANNING, DESIGN AND CONSTRUCTION STANDARDS

DIVISION 22 – PLUMBING Updated 2021 - Feb - Modified for HDS

Housing and Dining Facilities (HDS) has adopted amendments for all HDS facilities. Confirm applicable standards with Project Representative on a per Project basis.

Housing and Dining Services takes the following exceptions highlighted in Gray.

DIVISION 22 – PLUMBING

22 05 00 – COMMON WORK RESULTS FOR PLUMBING

A. Meters (Non–Utility) and Gages for Plumbing Piping:

3. Discussion:

e. HDS: Install isolation valves on all riser stacks serving residential units.

22 10 00 – PLUMBING PIPING

i. HDS: No Foreign copper piping or fittings

22 11 00 – FACILITY WATER DISTRIBUTION

A. Domestic and Industrial Water Piping (above grade):

1. Acceptable Products:

c. HDS: Larger than 2.5" Type-L copper with brazed fittings

d. HDS: For 2" and under PEX is acceptable in residential dwellings or sleeping units.

i. PEX pipe shall be color coded, RED for domestic hot water and BLUE for domestic cold water.

e. HDS: For 4" or smaller, Viego press fittings or Nibco press fittings.

f. HDS: Aquatherm and HDPE are acceptable (see HDS acceptable products above)

C. Domestic and Industrial Water Piping Specialties – Hose Bibbs and Wall Hydrants:

3. Discussion:

f. HDS: Commercial kitchen application will have tempered water hose connection for cleaning.

E. Domestic and Industrial Water Circulation Pumps:

2. Acceptable Products:

e. HDS: Weil

3. Products Not Allowed:

b. HDS: Armstrong and Bell & Gossett

4. Discussion:

c. HDS: All pumps shall be wet rotor type.

22 13 00 – FACILITY SANITARY SEWERAGE

A. Sanitary Waste and Vent Piping:

2. Products not Allowed:

b. HDS: Foreign-made piping and fittings

PART III – HDS FACILITIES PLANNING, DESIGN AND CONSTRUCTION STANDARDS

DIVISION 22 – PLUMBING Updated 2021 - Feb - Modified for HDS

C. Sanitary Waste Piping Specialties – Floor Drains:

1. Discussion:

- a. All restrooms shall have floor drains with positive slope to the drain.
 - ii. HDS: Does not apply to residential restrooms.

E. Sanitary Waste Pumps and Pump Stations:

3. Discussion:

- h. HDS: Must be grinder style pumps

22 34 00 – FUEL-FIRED DOMESTIC WATER HEATERS

A. Instantaneous Tankless Gas Water Heaters:

1. Acceptable Products:

- c. HDS: Nortiz
- d. HDS: Wel/Melain

3. Discussion:

- g. HDS: Redundancy

B. Gas-Fired Storage Tank Water Heaters:

2. Products not Allowed:

- b. HDS: Aerco

22 35 00 – DOMESTIC WATER HEAT EXCHANGERS

B. Domestic Instantaneous Heating Water-to-Hot Water Heat Exchangers:

2. Products not Allowed:

- b. HDS: Aerco Smartplate

22 42 00 – COMMERCIAL PLUMBING FIXTURES

A. Water Closets and Urinals:

1. Acceptable Products:

- d. HDS: Sloan

2. Products not Allowed:

- b. HDS: Mansfield, Moen

B. Lavatories and Sinks:

1. Acceptable Products:

- a. Lavatories:
 - iii. HDS: Sloan

2. Products not Allowed:

- b. HDS: American Standard, Just, Dura Top, Toto, Mansfield, Moen

3. Discussion:

- f. HDS: Enameled steel in residential restroom

PART III – HDS FACILITIES PLANNING, DESIGN AND CONSTRUCTION STANDARDS

DIVISION 22 – PLUMBING Updated 2021 - Feb - Modified for HDS

C. Showers:

1. Acceptable Products:
 - b. HDS: American Standard, Kohler, Delta, Zurn, Chicago, Sloan
2. Products not Allowed:
 - b. HDS: Toto, Mansfield, Moen, Crane

D. Disposals:

2. Products not Allowed:
 - b. HDS: Toto, Mansfield, Moen

E. Faucets and Trim:

1. Acceptable Products:
 - a. Lavatory Faucets:
 - vi. HDS: Delta
 - vii. HDS: Sloan
 - c. Trim:
 - vi. HDS: Sloan
2. Products not Allowed:
 - b. HDS: Mansfield
 - c. HDS: Moen
 - d. HDS: T&S
3. Discussion:
 - g. HDS: All faucets will be commercial grade
 - h. HDS: Integrated check valves on all faucets

F. Flushometers:

1. Discussion:
 - a. All flushometer valves shall be manually operated.
 - ii. HDS: All flushometers shall be autosensing with manual override on all public and communal water closet and urinals. (Diaphragm style)

22 47 00 – DRINKING FOUNTAINS AND WATER COOLERS

A. Drinking Fountains:

3. Discussion:
 - k. HDS: Water coolers shall have a “Bottle” filling valve assembly in addition to drinking spout.

END OF DIVISION