**SECTION 224713 – DRINKING FOUNTAINS**

**PART 1 – GENERAL**

* 1. **RELATED DOCUMENTS**

Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

* 1. **SUMMARY**
1. Section Includes:
	1. Drinking Fountains
	2. Bottle Fillers
	3. **ACTION SUBMITTIALS**

 A. Product Data: for each type of Drinking Fountain

a. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.

b. Includes operating characteristics, and furnished specialties and accessories.

B. Sustainable Design Submittals

a. Product Data: For water consumption.

b. Applies to LEED V4 or previous versions, ASHRAE 189, and Green Globes

C. Shop Drawings: Include diagrams for power, signal, and control wiring.

* 1. **CLOSEOUT SUBMITTALS**
		+ 1. Operation and Maintenance Data: For Drinking Fountains to include in operation and maintenance manuals.
	2. **MAINTENANCE MATERIAL SUBMITTALS**
		+ 1. Furnish extra materials that are packaged with protective covering for storage and identified with labels describing contents.
			2. Filter Cartridges: Equal to <Insert number> percent of amount of each type installed, but no fewer than <Insert number> of each type.
	3. **WARRANTY**
		+ 1. Refer to Sloan’s warranty policy located on Sloan.com
			2. URL https://legal.sloan.com/warranty-policy.html

**PART 2: PRODUCTS**

* 1. **Drinking Fountains**

A. Bottle Filler <**Insert drawing designation**>: On Wall Bottle Filler, Filtered and Refrigerated Water

 Basis of Design Product: Subject to compliance with requirements, provide Sloan Valve Company**: DRS 100-FIL-REF** delivers 8.0 gallons per hour of 50°F drinking water, using a sensor-activated system with a 20-second max run time. The Unit includes a display showing the number of plastic bottles saved and total water dispensed. White filter indication light with LED lights illuminating the filling area. Easy-access swing-open cabinet door and filter designed for 3,000 gallons while reducing TOTAL PFAS, lead, microplastics, and more.

 Product: DRS 100-FIL-REF [(Specification)](https://www.sloan.com/commercial-bathroom-products/bottle-fillers/dropspot/drs100)

 Standard: ADA, NSF 42, NSF 53, NSF 401, Prop 65

 Material: 304 Stainless Steel (Stainless Finish) or Galvanized Steel (Black Finish)

 Dimensions: L 7 9/10th (201mm) , W 19” (483 mm), H 51 2/3rd (1,306 mm)

 Fill Rate: 1.2 gpm

 Finish: Stainless Steel or Black

 Type: Indoor

 Activation: Infrared Sensor

 Mounting: On Wall

 Chilling Capacity: 8.0 (gph) or (30.3 lph)

 Full Load Amperage: 5.3 amps

 Filter: TOTAL PFAS 3.000 gal

 Supply Piping: 3/8” NPS

 Drain Piping: 1 ¼” NPS

B. Bottle Filler <**Insert drawing designation**>: On Wall Bottle Filler, Filtered and Unrefrigerated Water

 Basis of Design Product: Subject to compliance with requirements, provide Sloan Valve Company**: DRS 100-FIL-UNREF** delivers 8.0 gallons per hour of 50°F drinking water, using a sensor-activated system with a 20-second max run time. The Unit includes a display showing the number of plastic bottles saved and total water dispensed. White filter indication light with LED lights illuminating the filling area. Easy-access swing-open cabinet door and filter designed for 3,000 gallons while reducing TOTAL PFAS, lead, microplastics, and more.

 Product: DRS 100-FIL-UNREF [(Specification)](https://www.sloan.com/commercial-bathroom-products/bottle-fillers/dropspot/drs100)

 Standard: ADA, NSF 42, NSF 53, NSF 401, Prop 65

 Material: 304 Stainless Steel (Stainless Finish) or Galvanized Steel (Black Finish)

 Dimensions: L 7 9/10th (201mm) , W 19” (483 mm), H 51 2/3rd (1,306 mm)

 Fill Rate: 1.2 gpm

 Finish: 304 Stainless Steel or Black

 Type: Indoor

 Activation: Infrared Sensor

 Mounting: On Wall

 Chilling Capacity: 8.0 (gph) or (30.3 lph)

 Full Load Amperage: 5.3 amps

 Filter: TOTAL PFAS 3.000 gal

 Supply Piping: 3/8” NPS

 Drain Piping: 1 ¼” NPS

C. Bottle Filler <**Insert drawing designation**>: On Wall Bottle Filler, Unfiltered With Refrigerated Water

 Basis of Design Product: Subject to compliance with requirements, provide Sloan Valve Company**: DRS 100-UNFIL-REF** delivers 8.0 gallons per hour of 50°F drinking water, using a sensor-activated system with a 20-second max run time. The Unit includes a display showing the number of plastic bottles saved and total water dispensed. White filter indication light with LED lights illuminating the filling area. Easy-access swing-open cabinet door and filter designed for 3,000 gallons while reducing TOTAL PFAS, lead, microplastics, and more.

 Product: DRS 100-UNFIL-REF [(Specification)](https://www.sloan.com/commercial-bathroom-products/bottle-fillers/dropspot/drs100)

 Standard: ADA, NSF 42, NSF 53, NSF 401, Prop 65

 Material: 304 Stainless Steel (Stainless Finish) or Galvanized Steel (Black Finish)

 Dimensions: L 7 9/10th (201mm) , W 19” (483 mm), H 51 2/3rd (1,306 mm)

 Fill Rate: 1.2 gpm

 Finish: 304 Stainless Steel or Black

 Type: Indoor

 Activation: Infrared Sensor

 Mounting: On Wall

 Chilling Capacity: 8.0 (gph) or (30.3 lph)

 Full Load Amperage: 5.3 amps

 Filter: Not applicable

 Supply Piping: 3/8” NPS

 Drain Piping: 1 ¼” NPS

D. Bottle Filler <**Insert drawing designation**>: On Wall Bottle Filler, Unfiltered and Unrefrigerated Water

 Basis of Design Product: Subject to compliance with requirements, provide Sloan Valve Company**: DRS 100-UNFIL-UNREF** delivers 8.0 gallons per hour of 50°F drinking water, using a sensor-activated system with a 20-second max run time. The Unit includes a display showing the number of plastic bottles saved and total water dispensed. White filter indication light with LED lights illuminating the filling area. Easy-access swing-open cabinet door and filter designed for 3,000 gallons while reducing TOTAL PFAS, lead, microplastics, and more.

 Product: DRS 100-UNFIL-UNREF [(Specification)](https://www.sloan.com/commercial-bathroom-products/bottle-fillers/dropspot/drs100)

 Standard: ADA, NSF 42, NSF 53, NSF 401, Prop 65

 Material: 304 Stainless Steel (Stainless Finish) or Galvanized Steel (Black Finish)

 Dimensions: L 7 9/10th (201mm) , W 19” (483 mm), H 51 2/3rd (1,306 mm)

 Fill Rate: 1.2 gpm

 Finish: 304 Stainless Steel or Black

 Type: Indoor

 Activation: Infrared Sensor

 Mounting: On Wall

 Chilling Capacity: 8.0 (gph) or (30.3 lph)

 Full Load Amperage: 5.3 amps

 Filter: Not Applicable

 Supply Piping: 3/8” NPS

 Drain Piping: 1 ¼” NPS

E. Bottle Filler <**Insert drawing designation**>: On Wall Bottle Filler with Single level Cooler, Filtered and

 Refrigerated Water

 Basis of Design Product: Subject to compliance with requirements, provide Sloan Valve Company**: DRS 110-FIL-REF** delivers 8.0 gallons per hour of 50°F drinking water, using a sensor-activated system with a 20-second max run time. The Unit includes a display showing the number of plastic bottles saved and total water dispensed. White filter indication light with LED lights illuminating the filling area. Easy-access drop down door and filter designed for 3,000 gallons while reducing TOTAL PFAS, lead, microplastics, and more. Patent pending push bar activation at any push point.

 Product: DRS 110-FIL-REF [(Specification)](https://www.sloan.com/commercial-bathroom-products/bottle-fillers/dropspot/drs110)

 Standard: ADA, NSF 42, NSF 53, NSF 401, Prop 65

 Material: 304 Stainless Steel (Stainless Finish) or Galvanized Steel (Black Finish)

 Dimensions: L 19” (483 mm), W 19” (483 mm), H 39 3/5 (1,006 mm)

 Fill Rate: 1.2 gpm

 Finish: 304 Stainless Steel or Black

 Type: Indoor

 Activation: Infrared Sensor (Bottle Filler), Cooler (Manual)

 Mounting: On Wall

 Chilling Capacity: 8.0 (gph) or (30.3 lph)

 Full Load Amperage: 5.3 amps

 Filter: TOTAL PFAS 3.000 gal

 Supply Piping: 3/8” NPS

 Drain Piping: 1 ¼” NPS

F. Bottle Filler <**Insert drawing designation**>: On Wall Bottle Filler with Single level Cooler, Unfiltered

and Refrigerated Water

 Basis of Design Product: Subject to compliance with requirements, provide Sloan Valve Company**: DRS 110-UNFIL-REF** delivers 8.0 gallons per hour of 50°F drinking water, using a sensor-activated system with a 20-second max run time. The Unit includes a display showing the number of plastic bottles saved and total water dispensed. White filter indication light with LED lights illuminating the filling area. Easy-access drop down door and filter designed for 3,000 gallons while reducing TOTAL PFAS, lead, microplastics, and more. Patent pending push bar activation at any push point.

 Product: DRS 110-UNFIL-REF [(Specification)](https://www.sloan.com/commercial-bathroom-products/bottle-fillers/dropspot/drs110)

 Standard: ADA, NSF 42, NSF 53, NSF 401, Prop 65

 Material: 304 Stainless Steel (Stainless Finish) or Galvanized Steel (Black Finish)

 Dimensions: L 19” (483 mm), W 19” (483 mm), H 39 3/5 (1,006 mm)

 Fill Rate: 1.2 gpm

 Finish: 304 Stainless Steel or Black

 Type: Indoor

 Activation: Infrared Sensor (Bottle Filler), Cooler (Manual)

 Mounting: On Wall

 Chilling Capacity: 8.0 (gph) or (30.3 lph)

 Full Load Amperage: 5.3 amps

 Filter: Not applicable

 Supply Piping: 3/8” NPS

 Drain Piping: 1 ¼” NPS

G. Bottle Filler <**Insert drawing designation**>: On Wall Bottle Filler with Bi-level Cooler, Filtered and Refrigerated Water

 Basis of Design Product: Subject to compliance with requirements, provide Sloan Valve Company**: DRS 120-FIL-REF** delivers 8.0 gallons per hour of 50°F drinking water, using a sensor-activated system with a 20-second max run time. The Unit includes a display showing the number of plastic bottles saved and total water dispensed. White filter indication light with LED lights illuminating the filling area. Easy-access drop down door and filter designed for 3,000 gallons while reducing TOTAL PFAS, lead, microplastics, and more. Patent pending push bar activation at any push point. Available with Cane Apron.

 Product: DRS 120-FIL-REF [(Specification)](https://www.sloan.com/commercial-bathroom-products/bottle-fillers/dropspot/drs120)

 Standard: ADA, NSF 42, NSF 53, NSF 401, Prop 65

 Material: 304 Stainless Steel (Stainless Finish) or Galvanized Steel (Black Finish)

 Dimensions: L 19” (482 mm), W 38 1/8 (968 mm), H 39 11/16 (1,007 mm)

 Fill Rate: 1.2 gpm

 Finish: 304 Stainless Steel or Black

 Type: Indoor

 Activation: Infrared Sensor (Bottle Filler), Cooler (Manual)

 Mounting: On Wall

 Chilling Capacity: 8.0 (gph) or (30.3 lph)

 Full Load Amperage: 5.3 amps

 Filter: TOTAL PFAS 3.000 gal

 Supply Piping: 3/8” NPS

 Drain Piping: 1 ¼” NPS

H. Bottle Filler <**Insert drawing designation**>: On Wall Bottle Filler with Bi-level Cooler, Unfiltered and Refrigerated Water

 Basis of Design Product: Subject to compliance with requirements, provide Sloan Valve Company**: DRS 120-UNFIL-REF** delivers 8.0 gallons per hour of 50°F drinking water, using a sensor-activated system with a 20-second max run time. The Unit includes a display showing the number of plastic bottles saved and total water dispensed. White filter indication light with LED lights illuminating the filling area. Easy-access drop down door and filter designed for 3,000 gallons while reducing TOTAL PFAS, lead, microplastics, and more. Patent pending push bar activation at any push point. Available with Cane Apron.

 Product: DRS 120-UNFIL-REF [(Specification)](https://www.sloan.com/commercial-bathroom-products/bottle-fillers/dropspot/drs120)

 Standard: ADA, NSF 42, NSF 53, NSF 401, Prop 65

 Material: 304 Stainless Steel (Stainless Finish) or Galvanized Steel (Black Finish)

 Dimensions: 19” (482 mm), W 38 1/8 (968 mm), H 39 11/16 (1,007 mm)

 Fill Rate: 1.2 gpm

 Finish: 304 Stainless Steel or Black

 Type: Indoor

 Activation: Infrared Sensor (Bottle Filler), Cooler (Manual)

 Mounting: On Wall

 Chilling Capacity: 8.0 (gph) or (30.3 lph)

 Full Load Amperage: 5.3 amps

 Filter: Not applicable

 Supply Piping: 3/8” NPS

 Drain Piping: 1 ¼” NPS

**PART 3 – EXECUTION**

* 1. **EXAMINATION**
		+ - 1. Examine roughing-in of water supply and sanitary drainage and vent piping systems to verify actual locations of piping connections before water-closet installation.
				2. Examine walls and floors for suitable conditions where water closets will be installed.
				3. Proceed with installation only after unsatisfactory conditions have been corrected.
	2. **INSTALLATION**

A. Install level and plumb according to roughing-in drawings.

B. Install off-the-wall carrier supports, affixed to building substrate for wall mounted fixtures.

C. Install water supply piping with shut off valve on supply to each fixture to be connected to domestic water distribution piping. Use ball or gate valve. Install valves in locations where they can be easily reached for operation. Valves are specified in Section 22.0523.12 “Ball valves for plumbing piping”and section 22.0523.15 “Gate valves for plumbing piping.”

D. Install trap and waste piping on drain outlet of each fixture to be connected to sanitary drainage system.

E. Insulate all water supply lines subject to condensation

F. Seal joints between fixtures and walls using sanitary type, one part, mildew resistant, silicone sealant, match sealant color to fixture color. Comply with sealant requirements specified in section 079.200 “Joint Sealants”

Indicate on Drawings those water closets that are required to be accessible.

**3.3 CONNECTIONS**

A. Connect fixtures with water supplies, stops and risers with traps, soil, waste, and vent pipe. Use size fittings required to match fixtures.

1. Comply with water piping requirements specified in Section 221116 “Domestic Water Piping.”

2. Comply with soil and waste piping requirements specified in Section 221316 “Sanitary Waste and Vent Piping.”

3. When installing piping adjacent to fixture, allow space for service and maintenance.

**3.4 ADJUSTING**

1. Adjust fixture flow regulators for proper flow and stream.

**3.5 CLEANING AND PROTECTION**

1. After installing fixtures, inspect unit, remove paint splatter or other spots, dirt and debris. Repair any damaged finish to match original finish.

2. Install protective covering for installed water closets and fittings.

3. Do not allow use of fixture for temporary facilities unless approved in writing by owner.

**END OF SECTION 224713**