

1. PART 1 – GENERAL

1.1 References

- .1 American Society for Testing and Materials International (ASTM).
 - .1 ASTM A 126-[95(2001)], Specification for Gray Iron Castings for Valves, Flanges and Pipe Fittings.
 - .2 ASTM B 62-[02], Specification for Composition Bronze or Ounce Metal Castings.
- .2 Canadian Standards Association (CSA International).
 - .1 CSA-B64 – 10.01, Backflow Preventers and Vacuum Breakers.
- .3 Plumbing and Drainage institute
 - .1 PDI-WH201-[92], Water Hammer Arresters Standard.

2. PART 2 - PRODUCTS

2.1 Floor Drains (DP-1)

- .1 Floor Drains to CSA B79.
- .2 Type 1: cast iron body, round shape, adjustable nickel –bronze strainer, epoxy coating on cast iron body, anchor flanges for membrane type floor, trap guard serie TG, or SURE SEAL.
 - .1 Acceptable products : ZURN, model ZN-415-B5-P or equivalent from Watts/ANCON.

2.2 Cleanouts (C.O.)

- .1 Cleanout Plugs: heavy cast iron male ferrule with brass screws and threaded brass or bronze plug. Sealing-caulked neoprene gasket. All in an access box adjusted flush to floor.
 - .1 Floor Access: round cast iron body and frame with adjustable secured top with anchor lugs and:
 - .1 Plugs: bolted ABS with neoprene gasket.
 - .2 Cover for finished Floors: polished grade 304 stainless steel with deep flange, complete with vandal-proof locking screws.
 - .2 Acceptable products : Watts-Ancon, model CO-1204-R-3-113M

2.3 Water Hammer Arrestors

- .1 Copper construction, type: to PDI-WH201.

2.4 Back Flow Preventers

- .1 Preventers: to CSA-B64 Series, application as indicated on plans.

2.5 Vacuum Breakers

- .1 Breakers: to CSA-B64 Series, laboratory faucet intermediate.

PART 3 - EXECUTION

2.6 Cleanouts

- .1 Bring cleanouts to wall or finished floor unless serviceable from below floor in the case of a floor mounted cleanout.
- .2 Building drain cleanout and stack base cleanouts: line size to maximum NPS4.

2.7 Water Hammer Arrestors

- .1 Install on branch supplies to fixtures or group of fixtures and where indicated.

2.8 Back Flow Preventors (D.A.R.)

- .1 Install in accordance with CSA-B64 Series, where indicated and elsewhere as required by code.
 - .1 At the main supply of laboratories and on sprinkler lines of hoods connected to domestic cold water line.
- .2 Pipe discharge to terminate over nearest drain or service sink.
- .3 Install back flow preventers at 1500 mm maximum height in a place where it is easy accessible for inspection and periodic test.