

Part 1 General

1.1 PRODUCT DATA

- .1 Submit product data in accordance with Section 01 33 00 – Submittal Procedures.
- .2 Indicate on manufacturer's catalogue literature following: valves.

1.2 CLOSEOUT SUBMITTALS

- .1 Provide maintenance data for incorporation into manual specified in Section 01 78 00 - Closeout Submittals.

1.3 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate and recycle waste materials in accordance with Section 01 74 21 – Construction/Demolition Waste Management and Disposal.
- .2 Collect and separate plastic, paper packaging and corrugated cardboard in accordance with Waste Management Plan

Part 2 Products

2.1 PIPE

- .1 Steel pipe: to ASTM A53, Schedule 40, seamless or ERW as follows:
 - .1 NPS 1/2 to 2, screwed.
 - .2 NPS 2 1/2 and over, plain end.

2.2 JOINING MATERIAL

- .1 Screwed fittings: approved thread sealer compound.
- .2 Welded fittings: to CSA W47.1.

2.3 FITTINGS

- .1 Steel pipe fittings, screwed, flanged or welded:
 - .1 Malleable iron: screwed, banded, Class 150.
 - .2 Steel pipe flanges and flanged fittings: to ASME B16.5.
 - .3 Welding: butt-welding fittings.
 - .4 Unions: malleable iron, brass to iron, ground seat, to ASTM A47/A47M.
 - .5 Bolts and nuts: to ASME B18.2.1.
 - .6 Nipples: schedule 40, to ASTM A53/A53M.

2.4 VALVES

- .1 Provincial Code approved, lubricated ball type.

Part 3 Execution

3.1 PIPING

- .1 Install in accordance with Section 23 05 05 – Installation of Pipework, supplemented as specified herein.
- .2 Install in accordance with applicable Provincial/Territorial Codes.
- .3 Install in accordance with CAN/CGA B149.1, 2015 edition.
- .4 Install drip points:
 - .1 At low points in piping system.
 - .2 At connections to equipment.

3.2 VALVES

- .1 Install valves with stems upright or horizontal unless otherwise approved by Departmental Representative.
- .2 Install valves at branch take-offs to isolate pieces of equipment, and as indicated.

3.3 FIELD QUALITY CONTROL

- .1 Test system in accordance with CAN/CGA B149.1 (2015) and requirements of authorities having jurisdiction.

3.4 PURGING

- .1 Purge after pressure test in accordance with CAN/CGA B149.1 (2015).

3.5 PRE-START-UP INSPECTIONS

- .1 Check vents from regulators, control valves, terminate outside building in approved location, protected against blockage, damage.
- .2 Check gas trains, entire installation is approved by authority having jurisdiction.

3.6 CLEANING AND START-UP

- .1 In accordance with requirements of CAN/CGA B149.1 (2015).

END OF SECTION 23 11 23