


**Ranhill  
SAJ**

## **SPECIFICATION FOR STAINLESS STEEL WATER METER POSITION**

**SPECIFICATION SAJ WM / SS / 001  
(Rev.2.0 / 07.2018)**

**Ranhill  
SAJ**  
QUALITY ASSURANCE DEPARTMENT  
SAJ RANHILL SDN. BHD.

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## Specification for Stainless Steel Water Meter Position

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**SPECIFICATION FOR STAINLESS STEEL**  
**WATER METER POSITION**

**1.0 GENERAL**

- 1.1 This specification is applicable to Stainless Steel Water Meter Position
- 1.2 The objective of this specification is to provide necessary information on the dimensions and various material requirement for stainless steel water meter ( $\frac{1}{2}$ " or 15mm) position connected to public main.
- 1.3 Stainless Steel Water Meter Position for single meter is shown in Drawing.

**2.0 FEATURES REQUIRED**

- 2.1 Stainless Steel pipe; all incoming and outgoing pipe are  $\frac{3}{4}$ " (20mm)
- 2.2 All Brass Valve and fittings shall be Dezincification Resistant Type
- 2.3 The design and pipe work layout of the single meter positions shall comply with the dimensions shown in Drawing Typical Domestic Single Meter Installation With Inline Lockable Valve.
- 2.4 All Stainless Steel screwed ends and fittings shall be as:
  - 2.7.1 Wall thickness : ANSI Class 150 / ANSI B 16.34
  - 2.7.2 Threaded ends : BS 21
- 2.5 All Stainless Steel pipes and fittings (including Brass) shall be threaded to BS 21.
- 2.6 In situation where PE/PA pipes and fittings were to be used for drain crossing or in the exposed environment, metal sleeve made of stainless steel or Galvanised Iron (G.I) pipes to protect the PE/PA pipes shall be provided.

- 2.7 Brass Lockable Valve used shall be installed with lock facing unobstructed side of the position.
- 2.8 Shortpiece shall be  $\frac{3}{4}$ " (20mm) long screw stainless steel with minimum length of 100mm.
- 2.9 Maximum height of the water meter shall be 450mm and 150mm depth.
- 2.10 Every communication pipe, service pipe and distribution pipe when laid under a roadway shall not be less than 450mm (1FT. 6IN) from the surface of the road (Rule 25(2) Water Supply Rules, Johor).
- 2.11 Lead wire seal equivalent or better to be installed from meter union and meter body.
- 2.12 Wire seal on meter body shall be intact at all times.

### 3.0 MATERIALS

- 3.1 All Stainless Steel pipes used shall be Grade 304, complying with ASTM A312 (Schedule 40S) or BS 4127.
- 3.2 All fittings shall be Stainless Steel pipe fittings conforming to ASTM A351 or Brass Threaded fittings conforming to BS 143 and 1256.
- 3.3 Brass 'Lockable' Ball Valve (Full Bore Type) shall comply with BS 6675; 1996 or BS 1552; 1995.
- 3.4 Brass Gate Valve shall conform to BS 5154 and shall be of Full Bore type
- 3.5 All Polyethylene (PE) pipe and fittings use as communication pipes shall have a minimum thickness and pressure rating of PN10 and manufactured to MS 1058 or EN 12201.

- 3.6 All PE pipes used shall comply with SAJ PS / PE / 001, SAJ Specification For PE Pipes For Water Supply System.
- 3.7 All PE pipe used shall be marked with SIRIM certification numbers.

#### 4.0 TEST AND INSPECTION

- 4.1 Pipework for meter positions to be buried or concealed shall not be covered before they are examined, tested to the required working pressure and approved by SAJ.
- 4.2 The whole pipework shall be accepted as satisfactory if no signs of leakage.
- 4.3 The contractor shall make good all leakage and replace any defective parts to the approval of SAJ all at his own expenses.

