



水務署
Water Supplies Department

總部 Headquarters

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30 March 2022

Distribution: To all Licensed Plumbers and Authorized Persons

Dear Sirs,

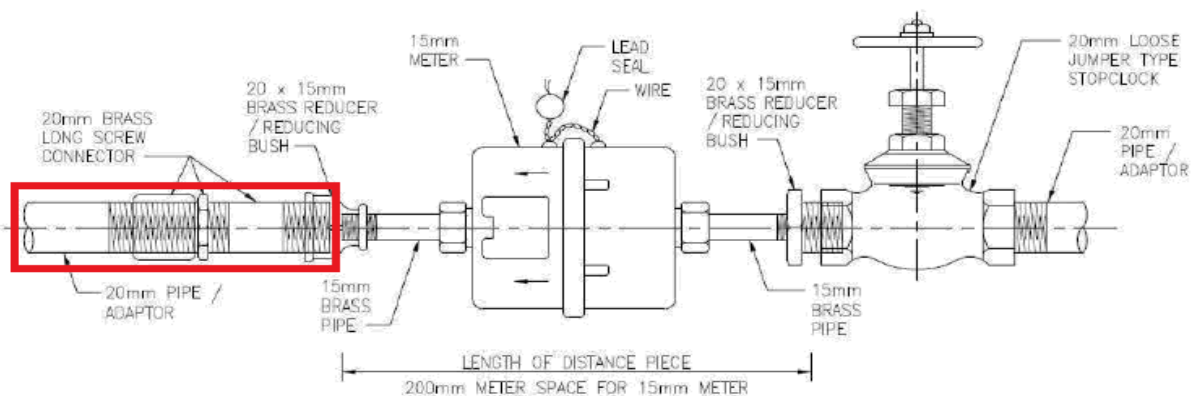
Circular Letter No. 2/2022
Control Measures on Long Screw Connector / Flange Adaptor
for Water Meter in Inside Service

Long screw connector / flange adaptor for water meter is commonly used in the inside service and is regarded as a fitting under the Waterworks Ordinance. It is installed at the downstream of water meter so as to facilitate installation and maintenance of the water meter and the associated pipework. In order to further enhance material control of water supply fittings, Licensed Plumbers shall be required to report the use of long screw connector / flange adaptor for water meter to the Water Authority (WA) using Form WWO 1149¹.

¹ Plumbing works must not commence until the plumbing proposals have been approved by the WA in writing. Before proceeding with the works under the approved plumbing proposals, the licensed plumber is required to submit Form WWO 46 to apply for the permission of the WA. Form WWO 1149 should also be submitted together with Form WWO 46 if such submission has not been made.

EXISTING REQUIREMENTS AND CONTROL MEASURES ON LONG SCREW CONNECTOR / FLANGE ADAPTOR

2. For 15mm water meter, Clause 3.2.1.2 of Technical Requirements for Plumbing Works in Buildings (TR) states that a long screw connector shall be provided immediately after the bush at the delivery side. The meter position for water meter of all sizes shall also be similarly provided with corresponding fittings of appropriate sizes. Fig. 3 of TR states that the long screw connector for 15mm water meter shall be of size 20mm and its construction material shall be of brass (copper-zinc alloy/黃銅), i.e., brass and the grade of which shall comply with material standards stated in TR (i.e., BS EN 1982: 2008, BS EN 12420: 2014, BS EN 12163: 2016, BS EN 12164: 2016, BS EN 12165: 2016, BS EN 12167: 2016).



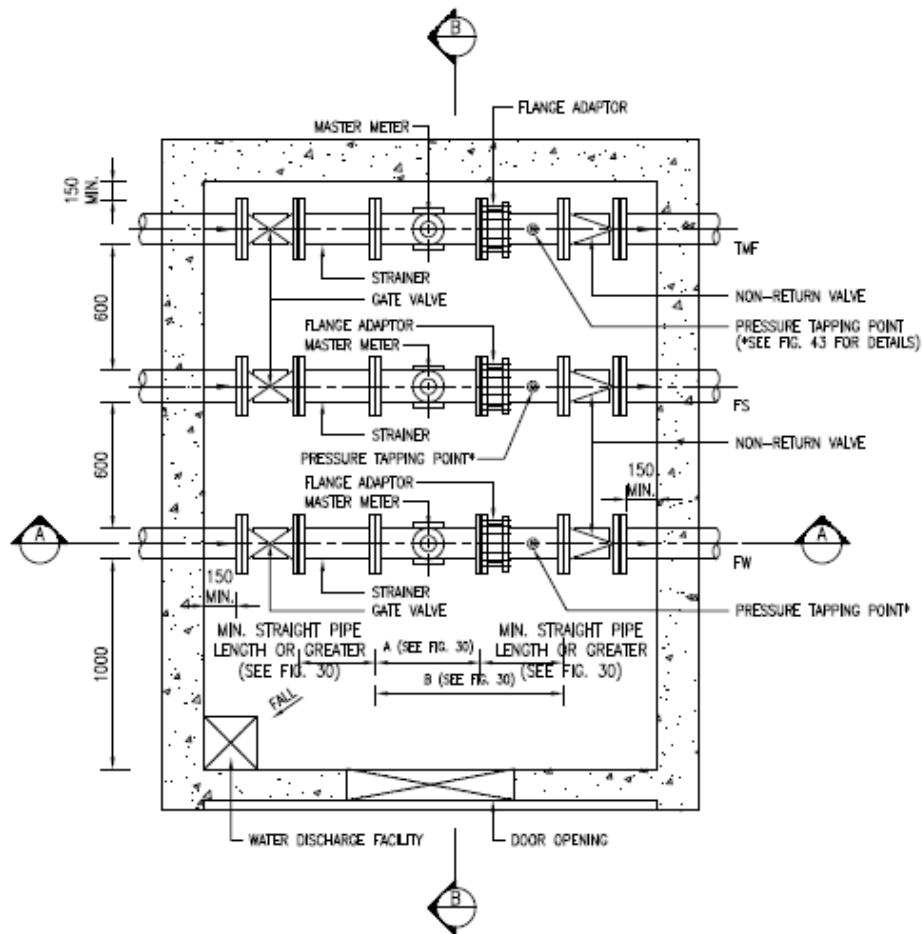
NOTES:

1. ALL THREADING TO BS 21.
2. METER POSITION TO BE USED FOR LINED G.I., COPPER AND THERMOPLASTIC INSIDE SERVICE.

TYPICAL INSTALLATION OF A 15mm DIAMETER WATER METER

Fig 3 of Technical Requirements for Plumbing Works in Buildings (TR)

3. For large size of water meters, flange adaptor shall be used and Fig. 27 of TR shall be referred.



SECTIONAL PLAN OF MASTER METER ROOM

Fig 27 of Technical Requirements for Plumbing Works in Buildings (TR)

NEW CONTROL MEASURES ON LONG SCREW CONNECTOR / FLANGE ADAPTOR

4. In order to further enhance material control of water supply fittings, long screw connector / flange adaptor of appropriate size for different meter sizes to be used in inside service shall be included as reporting item in Form WWO 1149 and General Acceptance (GA) shall be granted to compliant long screw connector / flange adaptor with testing specifications listed below.

Category	Pipes and Fittings
Type	Fittings (Long Screw Connector / Flange Adaptor for Water Meter)
Test item(s)	<ul style="list-style-type: none"> ● Dimension - (Clause 3.2.1.2 of TR for Long Screw Connector; Based on Manufacturer Requirement for Flange Adaptor) ● Chemical composition (body of long screw connector / flange adaptor) - (copper-zinc alloy, stainless steel or ductile iron with internal coating) ● Coating thickness - (WIS 4-52-01 Appendix B)

Note: For non-metallic materials in contact with fresh water intended for human consumption, the materials shall comply with the relevant requirements in BS 6920:2014.

RESPONSIBILITIES OF RELEVANT STAKEHOLDERS

5. To facilitate the material control on long screw connector / flange adaptor for water meter, the responsibilities of relevant stakeholders are given below:-

Developer/Project Owner/Contractor

- (i) To specify compliant long screw connector / flange adaptor in specifications for procurement and application in plumbing works of inside service.
- (ii) To provide product information and supporting documents of long screw connector / flange adaptor to be used in the project to Licensed Plumber for reporting in Form WWO 1149.

Licensed Plumber

- (i) To report the details of long screw connector / flange adaptor to be used in plumbing works in Form WWO 1149.
- (ii) To obtain supporting documents from Developer/Project Owner/Contractor for long screw connector / flange adaptor to be used in plumbing works for reporting in Form WWO 1149.

EFFECTIVE DATE

6. The effective date of reporting the use of the abovementioned long screw connector / flange adaptor will be **1 September 2022** to allow adequate time for the suppliers / contractors to apply for General Acceptance (GA) of long screw connector / flange adaptor for use in plumbing projects. All the Form WWO 1149 submitted on or after the above date will be required to report the use of long screw connector / flange adaptor for water meter.

ENQUIRY

7. Should you have any enquiry, please contact our Mechanical Engineer/Material Control at telephone no. 2294 2656.

Yours faithfully,

(Original signed)

(YAU Hau Yin)

for Water Authority

(with Chinese translation)

c.c. Housing Department (Attn: SM/QM)
 Buildings Department
 Architectural Services Department
 Fire Services Department
 The Hong Kong Housing Society
 The Hong Kong Institute of Architects
 The Hong Kong Institution of Engineers
 The Hong Kong Institute of Surveyors

The Chartered Institute of Plumbing and Heating Engineering – Hong Kong Branch
Hong Kong Plumbing and Sanitary Ware Trade Association Limited
Hong Kong Licensed Plumbing Professionals Association Limited
Hong Kong Plumbing General Union
Hong Kong Water Works Professionals Association Limited
The Hong Kong Institution of Plumbing and Drainage Limited
Plumbing Technology Student Association
The Association of Registered Fire Service Installation Contractors of Hong Kong Limited
The Real Estate Developers Association of Hong Kong
Hong Kong Institute of Vocational Education
Hong Kong Institute of Construction, Construction Industry Council
The Hong Kong Construction Association, Limited
Hong Kong General Building Contractors Association Limited
The Hong Kong Federation of Electrical & Mechanical Contractors Limited
Contractor's Authorised Signatory Association Limited
Registered Minor Works Contractor Signatory Association Limited
Hong Kong Registered Contractors Association Company Limited
Building Services Operation and Maintenance Executives Society
The Hong Kong Air Conditioning and Refrigeration Association Limited
Hong Kong Licensed Plumbers Union Limited
Hong Kong Metropolitan University Li Ka Shing School of Professional and Continuing Education
The Association of Electrical and Mechanical Engineering (Hong Kong) Limited
Pipeman Engineering (International) Limited
Hong Kong Institute of Water and Sanitation Safety

WSD 3318/15/81