

Verification Certificate

This is to certify that:

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Holds Certificate Number:

VC 638070

In respect of:

**IGEM/GM/PRS/6 and PP1547
Meter Connectors**

Type Samples representative of the products listed have been tested and examined to the relevant requirements of the normative reference listed and have been found to comply with these requirements, as detailed in the related test reports as listed on page 2 to 9.



For and on behalf of BSI:

Frank Lee, Product Certification Technical and Compliance Director

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Type Test Report Numbers: 3443556, 3167724, 9656957 and 3729561

Project Number: BSI-Q657165

Product Description

The items tested are suitable for use as domestic gas meter connectors for use with 1st, 2nd and 3rd family gases at pressures of up to 75mbar in accordance with IGEM/GM/PRS/6. A limited number of these items are also suitable for use with 4th family gases at pressures up to 75mbar in accordance with PP1547.

Description ⁽¹⁾	Model	Item number	Normative reference
¾" BS 746 union x DN20 hose x R¾" BS EN 10226 nipple (400mm)	TH-243-001	LA01	IGEM/GM/PRS/6: 2016
¾" BS 746 union x DN20 hose x R¾" BS EN 10226 nipple (460mm)	TH-243-001C	LA02	
1" BS 746 grooved union x DN20 hose x R¾" BS EN 10226 nipple (260mm)	TH-243-035	LS05	
1" BS 746 grooved union x DN20 hose x R¾" BS EN 10226 nipple (400mm)	TH-243-036	LS06	
1" BS 746 union x DN20 hose x R¾" BS EN 10226 nipple (330mm)	TH-175-021D	LS07	
1" BS 746 union x DN20 hose x R¾" BS EN 10226 nipple (400mm)	TH-175-021B	LS08	
1" BS 746 90° elbow union x DN20 hose x R¾" BS EN 10226 nipple (340mm)	TH-243-037	LS09	
1" BS 746 grooved union x DN20 hose x 1" BS 746 connector (300mm)	TH-243-038	LS10	
1¼" BS 746 union x DN32 hose x R1¼" BS EN 10226 nipple (400mm)	TH-175-031	LA11	
1¼" BS 746 union x DN32 hose x R1¼" BS EN 10226 nipple (400mm)	TH-243-006	LA11	
DN100 PN16 fixed flange x DN100 hose x DN100 PN16 floating flange (600mm)	TH-243-025	LA19	

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The following models are outside the scope of IGEM/GM/PRS/6 and are requested to meet specific client requirements. These models have different designs including diameters, lengths and configurations of components.

Description ⁽¹⁾	Model	Normative reference
¾" BS 746 union x DN20 hose x R¾" BS EN 10226 nipple (200mm)	TH-243-039	IGEM/GM/PRS/6: 2016
¾" BS 746 union x DN20 hose x R¾" BS EN 10226 nipple (375mm)	TH-243-040	
¾" BS 746 union x DN20 hose x R¾" BS EN 10226 nipple (450mm)	TH-243-001	
¾" BS 746 union x DN20 hose x R¾" BS EN 10226 nipple (425mm)	TH-243-041	
¾" BS 746 union x DN20 hose x R¾" BS EN 10226 nipple (455mm)	TH-243-042	
¾" BS 746 union x DN20 hose x R¾" BS EN 10226 nipple (500mm)	TH-243-001	
¾" BS 746 union x DN20 hose x R¾" BS EN 10226 nipple (600mm)	TH-243-043	
¾" BS746 union x DN20 hose x R¾" BS EN 10226 nipple (900mm)	TH-243-001	
1" BS746 union x DN20 hose x R¾" BS EN 10226 nipple (285mm)	TH-175-021G	
1" BS746 union x DN20 hose x R¾" BS EN 10226 nipple (325mm)	TH-175-021E	
1" BS746 union x DN20 hose x R¾" BS EN 10226 nipple (375mm)	TH-175-021C	
¾" BS746 union x DN20 hose x 1" BS746 union (190mm)	TH-243-020	
1" BS 746 union x DN20 hose x R¾" BS EN 10226 nipple (460mm)	TH-243-044	
2" BS746 union x DN50 hose x R2" BS EN 10226 nipple (580mm)	TH-175-032A ⁽³⁾	
2" BS746 union x DN50 hose x R2" BS EN 10226 nipple (600mm)	TH-175-032B ⁽³⁾	

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Description ⁽¹⁾	Model	Normative reference
¾" BS 746 union x DN20 hose x Snapon male (300mm)	TH-175-014	IGEM/GM/PRS/6: 2016
1" BS 746 union x DN20 hose x Snapon male (300mm)	TH-175-013	
W1 1/8"-14 x DN20 hose x Snapon male (300mm)	TH-175-016	
Snapon male x DN20 hose x Snapon male (300mm)	TH-175-012	
1" BS746 union 90° elbow x DN20 hose x R¾" BS EN 10226 nipple (260mm)	TH-243-003	
1" BS746 union 90° mitre bend x DN20 hose x R¾" BS EN 10226 nipple (335mm)	TH-243-016	
1" BS746 union 90° mitre bend x DN20 hose x 1" BS746 union (155mm)	TH-243-017	
1" BS746 union 90° mitre bend x DN20 hose x 1" BS746 union (350mm)	TH-243-030 ⁽²⁾	
G¾" ISO 228-1 union x DN20 hose x R½" BS EN 10226 nipple (225mm)	TH-243-004 ⁽²⁾	
G¾" ISO 228-1 union x DN20 hose x R½" BS EN 10226 nipple (265mm)	TH-243-004 ⁽²⁾	
G¾" ISO 228-1 union x DN20 hose x R½" BS EN 10226 nipple (315mm)	TH-243-004 ⁽²⁾	
G¾" ISO 228-1 union x DN20 hose x R¾" BS EN 10226 nipple (225mm)	TH-243-027	
G¾" 90° mitre bend x 20mm mitre dogleg x G¾" union (285mm)	TH-243-028 ⁽²⁾	
1" BS746 union 90° elbow x ½" 90° elbow x 22mm pipe (145.5mm)	TH-243-021	
1" BS746 union x DN25 hose x R1" BS EN 10226 nipple (390mm)	TH-243-010	
1" BS EN 10226 nipple x DN25 hose x R1" BS EN 10226 nipple (300mm)	TH-243-019	

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Description ⁽¹⁾	Model	Normative reference
1" BS746 union x DN32 hose x R1¼" BS EN 10226 nipple (400mm)	TH-243-005	IGEM/GM/PRS/6: 2016
1" BS746 union x DN32 hose x 90° R1¼" BS EN 10226 nipple (257mm)	TH-175-022 ⁽³⁾	
1¼" BS746 union x DN32 hose x R1¼" BS EN 10226 nipple (250mm)	TH-243-006	
1¼" BS746 union x DN32 hose x R1¼" BS EN 10226 nipple (500mm)	THF-001-453	
1½" BS746 union x DN32 hose x R1¼" BS EN 10226 nipple (500mm)	TH-243-007	
2" BS746 union x DN32 hose x R1¼" BS EN 10226 nipple (500mm)	TH-243-008	
R1" BS EN 10226 nipple x 1¼" BS746 union x DN32 hose x R1¼" BS EN 10226 nipple (580mm)	TH-243-009 ⁽²⁾	
2" BS746 union x DN50 hose x R2" BS EN 10226 nipple (580mm)	TH-243-011	
R2" BS EN 10226 nipple x 2" BS746 union x DN50 hose x R2" BS EN 10226 nipple (580mm)	TH-243-012 ⁽³⁾	
DN80 PN16 fixed flange x DN80 hose x 2" BS746 union (600mm)	TH-243-013	
DN80 PN16 fixed flange x DN80 hose x DN80 PN16 floating flange (600mm)	TH-243-014 ⁽³⁾	
DN80 PN16 fixed flange x DN80 hose x DN80 PN16 floating flange (1000mm)	TH-243-014	
DN80 PN16 fixed flange x DN100 hose x DN100 PN16 floating flange (600mm)	TH-243-024	
DN100 PN16 fixed flange x DN100 hose x DN100 PN16 floating flange (350mm)	TH-243-026	

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Description ⁽¹⁾	Model	Normative reference
¾" BS 746 union x DN20 hose x R¾" BS EN 10226 nipple (400mm)	TH-243-001AH ⁽⁴⁾	IGEM/GM/PRS/6: 2016 PP1547: 2021
¾" BS 746 union x DN20 hose x R¾" BS EN 10226 nipple (460mm)	TH-243-001CH ⁽⁴⁾	
1" BS 746 grooved union x DN20 hose x R¾" BS EN 10226 nipple (260mm)	TH-243-035H ⁽⁴⁾	
1" BS 746 grooved union x DN20 hose x R¾" BS EN 10226 nipple (400mm)	TH-243-036H ⁽⁴⁾	
1" BS 746 union x DN20 hose x R¾" BS EN 10226 nipple (330mm)	TH-175-021DH ⁽⁴⁾	
1" BS 746 union x DN20 hose x R¾" BS EN 10226 nipple (400mm)	TH-175-021BH ⁽⁴⁾	
1" BS 746 90° elbow union x DN20 hose x R¾" BS EN 10226 nipple (340mm)	TH-243-037H ⁽⁴⁾	
1" BS 746 grooved union x DN20 hose x 1" BS 746 connector (300mm)	TH-243-038H ⁽⁴⁾	
1¼" BS 746 union x DN32 hose x R1¼" BS EN 10226 nipple (400mm)	TH-175-031H ⁽⁴⁾	
1¼" BS 746 union x DN32 hose x R1¼" BS EN 10226 nipple (400mm)	TH-243-006H ⁽⁴⁾	
DN100 PN16 fixed flange x DN100 hose x DN100 PN16 floating flange (600mm)	TH-243-025H ⁽⁴⁾	

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Description ⁽¹⁾	Model	Normative reference
¾" BS 746 union x DN20 hose x R¾" BS EN 10226 nipple (200mm)	TH-243-039H ⁽⁴⁾	IGEM/GM/PRS/6: 2016 PP1547: 2021
¾" BS 746 union x DN20 hose x R¾" BS EN 10226 nipple (375mm)	TH-243-040H ⁽⁴⁾	
¾" BS 746 union x DN20 hose x R¾" BS EN 10226 nipple (450mm)	TH-243-001BH ⁽⁴⁾	
¾" BS 746 union x DN20 hose x R¾" BS EN 10226 nipple (425mm)	TH-243-041H ⁽⁴⁾	
¾" BS 746 union x DN20 hose x R¾" BS EN 10226 nipple (455mm)	TH-243-042H ⁽⁴⁾	
¾" BS 746 union x DN20 hose x R¾" BS EN 10226 nipple (500mm)	TH-243-001DH ⁽⁴⁾	
¾" BS 746 union x DN20 hose x R¾" BS EN 10226 nipple (600mm)	TH-243-043H ⁽⁴⁾	
¾" BS746 union x DN20 hose x R¾" BS EN 10226 nipple (900mm)	TH-243-001EH ⁽⁴⁾	
1" BS746 union x DN20 hose x R¾" BS EN 10226 nipple (285mm)	TH-175-021GH ⁽⁴⁾	
1" BS746 union x DN20 hose x R¾" BS EN 10226 nipple (325mm)	TH-175-021EH ⁽⁴⁾	
1" BS746 union x DN20 hose x R¾" BS EN 10226 nipple (375mm)	TH-175-021CH ⁽⁴⁾	
¾" BS746 union x DN20 hose x 1" BS746 union (190mm)	TH-243-020H ⁽⁴⁾	
1" BS 746 union x DN20 hose x R¾" BS EN 10226 nipple (460mm)	TH-243-044H ⁽⁴⁾	
2" BS746 union x DN50 hose x R2" BS EN 10226 nipple (580mm)	TH-175-032AH ⁽³⁾⁽⁴⁾	
2" BS746 union x DN50 hose x R2" BS EN 10226 nipple (600mm)	TH-175-032BH ⁽³⁾⁽⁴⁾	

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Description ⁽¹⁾	Model	Normative reference
3/4" BS 746 union x DN20 hose x Snapon male (300mm)	TH-175-014H ⁽⁴⁾	IGEM/GM/PRS/6: 2016 PP1547: 2021
1" BS 746 union x DN20 hose x Snapon male (300mm)	TH-175-013H ⁽⁴⁾	
W1 1/8"-14 x DN20 hose x Snapon male (300mm)	TH-175-016H ⁽⁴⁾	
Snapon male x DN20 hose x Snapon male (300mm)	TH-175-012H ⁽⁴⁾	
1" BS746 union 90° elbow x DN20 hose x R3/4" BS EN 10226 nipple (260mm)	TH-243-003H ⁽⁴⁾	
1" BS746 union 90° mitre bend x DN20 hose x R3/4" BS EN 10226 nipple (335mm)	TH-243-016H ⁽⁴⁾	
1" BS746 union 90° mitre bend x DN20 hose x 1" BS746 union (155mm)	TH-243-017H ⁽⁴⁾	
1" BS746 union 90° mitre bend x DN20 hose x 1" BS746 union (350mm)	TH-243-030H ⁽²⁾⁽⁴⁾	
G3/4" ISO 228-1 union x DN20 hose x R1/2" BS EN 10226 nipple (225mm)	TH-243-004CH ⁽²⁾⁽⁴⁾	
G3/4" ISO 228-1 union x DN20 hose x R1/2" BS EN 10226 nipple (265mm)	TH-243-004AH ⁽²⁾⁽⁴⁾	
G3/4" ISO 228-1 union x DN20 hose x R1/2" BS EN 10226 nipple (315mm)	TH-243-004BH ⁽²⁾⁽⁴⁾	
G3/4" ISO 228-1 union x DN20 hose x R3/4" BS EN 10226 nipple (225mm)	TH-243-027H ⁽⁴⁾	
G3/4" 90° mitre bend x 20mm mitre dogleg x G3/4" union (285mm)	TH-243-028H ⁽²⁾⁽⁴⁾	
1" BS746 union 90° elbow x 1/2" 90° elbow x 22mm pipe (145.5mm)	TH-243-021H ⁽⁴⁾	
1" BS746 union x DN25 hose x R1" BS EN 10226 nipple (390mm)	TH-243-010H ⁽⁴⁾	
1" BS EN 10226 nipple x DN25 hose x R1" BS EN 10226 nipple (300mm)	TH-243-019H ⁽⁴⁾	

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Description ⁽¹⁾	Model	Normative reference
1" BS746 union x DN32 hose x R1¼" BS EN 10226 nipple (400mm)	TH-243-005H ⁽⁴⁾	IGEM/GM/PRS/6: 2016 PP1547: 2021
1" BS746 union x DN32 hose x 90° R1¼" BS EN 10226 nipple (257mm)	TH-175-022H ⁽³⁾⁽⁴⁾	
1¼" BS746 union x DN32 hose x R1¼" BS EN 10226 nipple (250mm)	TH-243-006H ⁽⁴⁾	
1¼" BS746 union x DN32 hose x R1¼" BS EN 10226 nipple (500mm)	THF-001-453H ⁽⁴⁾	
1½" BS746 union x DN32 hose x R1¼" BS EN 10226 nipple (500mm)	TH-243-007H ⁽⁴⁾	
2" BS746 union x DN32 hose x R1¼" BS EN 10226 nipple (500mm)	TH-243-008H ⁽⁴⁾	
R1" BS EN 10226 nipple x 1¼" BS746 union x DN32 hose x R1¼" BS EN 10226 nipple (580mm)	TH-243-009H ⁽²⁾⁽⁴⁾	
2" BS746 union x DN50 hose x R2" BS EN 10226 nipple (580mm)	TH-243-011H ⁽⁴⁾	
R2" BS EN 10226 nipple x 2" BS746 union x DN50 hose x R2" BS EN 10226 nipple (580mm)	TH-243-012H ⁽³⁾⁽⁴⁾	
DN80 PN16 fixed flange x DN80 hose x 2" BS746 union (600mm)	TH-243-013H ⁽⁴⁾	
DN80 PN16 fixed flange x DN80 hose x DN80 PN16 floating flange (600mm)	TH-243-014H ⁽³⁾⁽⁴⁾	
DN80 PN16 fixed flange x DN80 hose x DN80 PN16 floating flange (1000mm)	TH-243-014H ⁽⁴⁾	
DN80 PN16 fixed flange x DN100 hose x DN100 PN16 floating flange (600mm)	TH-243-024H ⁽⁴⁾	
DN100 PN16 fixed flange x DN100 hose x DN100 PN16 floating flange (350mm)	TH-243-026H ⁽⁴⁾	

Notes:

- (1) BS21 for the threaded end connections is partially replaced by BS EN 10226-1:2004.
- (2) For these models, this certificate excludes clause 6.2 Pressure absorption.
- (3) For these models, this certificate excludes A3.4 Bending strength and elasticity test (part of clause 7.2).
- (4) Suitable for 1st, 2nd, 3rd and 4th* family gases.
* >98% Hydrogen gas (and Methane and Hydrogen blends not covered by first and second family gases)

Note: This certificate supersedes that dated 8th March 2022 and covers the inclusion of clause 6.2 (Pressure absorption) for models TH-243-007 and TH-243-007H.

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