

PT/583/0726 (July 2026)

**Assessment Schedule for the
UltraGrip Couplings, Reducing
Couplings and Flange Adaptors as
manufactured by Viking Johnson**



independent certification of your products & services

1. SCOPE

This schedule specifies the requirements for the UltraGrip Couplings, Reducing Couplings and Flange Adaptors as manufactured by Viking Johnson for use on pipes carrying potable water.

2. PRODUCT DESCRIPTION

2.1 Introduction

UltraGrip Couplings, Reducing Couplings and Flange Adaptors are made of ductile iron, with a Rilsan Nylon 11 coating.

UltraGrip pipe fittings are designed for use on pipes of the following materials:

- Ductile Iron.
- Steel.
- Polyethylene (PE).
- PVC.

The fittings have a nominal diameter of 350mm to 600mm and an operating pressure range from 0.8 bar to 16 bar, with a maximum angularity of 4 degrees.

2.2 Applicable standards

The following standards are applicable to this product:

- BS EN 14525⁽¹⁾.
- BS 8561⁽²⁾.
- BS EN 12842⁽³⁾.

2.3 Approval History

This is the first WRc Approved certification for the UltraGrip Couplings, Reducing Couplings and Flange Adaptors.

3. REQUIREMENTS AND TESTING

3.1 Materials and components

Material requirements

The gaskets shall comply with:

EPDM Compound Grade E to BS EN 681-1⁽⁴⁾.

Flanges shall comply with BS EN 1092-2⁽⁵⁾.

Sleeves, Flange adapters and End rings shall comply with BS EN 1563 grade GJS-450-10⁽⁶⁾.

Nuts and Bolts shall be to BS EN 3506-1⁽⁷⁾ Grade A2 Property Class 80 or 70 and BS EN 3506-2⁽⁸⁾ Grade A4 Property Class 80.

Washers shall be in accordance with BS 1449 PT2⁽⁹⁾ Grade 304 S15.

Small Surface Area Contact

When assessed against Advice Sheet 8: Small Surface Area Products⁽¹⁰⁾ for compliance with Regulation 31(4)(b) of the Water Quality Regulations⁽¹¹⁾, the UltraGrip Couplings and Flange Adaptors shall meet the requirements.

3.2 Type Testing

Leak tightness:

- Air test: when tested in accordance with BS EN 14525:2022, the product shall meet the requirements of clause 6.3.2.
- Hydrostatic pressure test: when tested in accordance with BS EN 14525:2022, the product shall meet the requirements of clause 6.3.3.

PT/583/0726 (July 2026)

**Assessment Schedule for the
UltraGrip Couplings, Reducing
Couplings and Flange Adaptors as
manufactured by Viking Johnson**



independent certification of your products & services

Leak tightness of joints to the positive internal pressure:

When tested in accordance with BS EN 14525:2022, the product shall meet the requirements of clause 7.1.

Leak tightness of joints to negative internal pressure:

When tested in accordance with BS EN 14525:2022, the product shall meet the requirements of clause 7.2.

Leak tightness of joints to dynamic internal pressure:

When tested in accordance with BS EN 14525:2022, the product shall meet the requirements of clause 7.3.

Hydrostatic strength test:

When used on PE and PVC-U pipes, the fittings shall meet the requirements of clauses 7.4 and 7.6 respectively as specified in BS EN 12842:2012.

Pull out test:

When used on PE100 pipes, the fittings shall achieve an axial end load equivalent of Type 2 performance as defined in IGN 4-01-02⁽¹²⁾.

Strength and resistance test:

When tested in accordance with BS EN 8561:2021, the flange adaptors shall meet the requirements of the clause 10.4.4.

3.3 Manufacture

To ensure the quality and performance of the UltraGrip Couplings, Reducing Couplings and Flange Adaptors, the manufacturing process shall include appropriate systems for the:

- Specification of component materials:
- Verification component materials received are to specification:
- Handling and storage of all component materials and finished products:
- Detailed drawing / schedule for manufacture and assembly of the UltraGrip Couplings, Reducing Couplings and Flange Adaptors, and;
- Fabrication and quality control of workmanship.

The coatings shall be applied in accordance with WIS 4-52-01A⁽¹³⁾.

3.4 Installation

When installed in accordance with the installation documentation⁽¹⁴⁾, the UltraGrip Couplings, Reducing Couplings and Flange Adaptors shall be reasonably expected to perform as described.

PT/583/0726 (July 2026)

**Assessment Schedule for the
UltraGrip Couplings, Reducing
Couplings and Flange Adaptors as
manufactured by Viking Johnson**



independent certification of your products & services

4. APPROVAL

The UltraGrip Couplings, Reducing Couplings and Flange Adaptors have been audited and successfully met all the requirements stated within this assessment schedule.

Signed:

Valid until 22 July 2031.

valves, fittings and accessories, PN designated. Cast iron flanges.

6. BS EN 1563:2018 Founding. Spheroidal graphite cast irons.
7. BS EN ISO 3506-1:2020 Fasteners. Mechanical properties of corrosion-resistant stainless steel fasteners. Bolts, screws and studs with specified grades and property classes.
8. BS EN ISO 3506-2:2020 Fasteners. Mechanical properties of corrosion-resistant stainless steel fasteners, nuts with specified grades and property classes.

5. REFERENCES

1. BS EN 14525:2022 Ductile iron and steel wide tolerance couplings and flange adaptors for use with pipes of different materials; ductile iron, grey iron, PVC-U, PVC-O, PE, fibre-cement.
2. BS 8561:2021 Specification for mechanical fittings for use in the repair, connection and renovation of pressurised water supply pipelines. Requirements and test methods.
3. BS EN 12842:2012 Ductile iron fittings for PVC-U or PE. Requirements and test methods.
4. BS EN 681-1:1996 Elastomeric seals. Material requirements for pipe joint seals used in water and drainage applications. Vulcanized rubber
5. BS EN 1092-2:2023 Flanges and their joints. Circular flanges for pipes, valves, fittings and accessories, PN designated. Cast iron flanges.
6. BS EN 1563:2018 Founding. Spheroidal graphite cast irons.
7. BS EN ISO 3506-1:2020 Fasteners. Mechanical properties of corrosion-resistant stainless steel fasteners. Bolts, screws and studs with specified grades and property classes.
8. BS EN ISO 3506-2:2020 Fasteners. Mechanical properties of corrosion-resistant stainless steel fasteners, nuts with specified grades and property classes.
9. BS 1449-2 Part 2:1983 Specification for stainless and heat-resisting steel plate, sheet and strip.
10. DWI Approval of Products for use with Drinking Water: Advice Sheet 8: Small Surface Area Products (Regulation 31(4)(b)).
11. England - regulation 31 of The Water Supply (Water Quality) Regulations 2016 (Statutory Instruments 2016 No 614);

Wales – regulation 31 of The Water Supply (Water Quality) Regulations 2010 (Welsh Statutory Instrument 2010 No 994 (W.99) – and Amendment Regulations 2016 (No. 410 (W. 129));

Scotland – regulation 33 of The Public Water Supplies (Scotland) Regulations 2014 and;

Northern Ireland – regulation 33, of The Water Supply (Water Quality)

PT/583/0726 (July 2026)

**Assessment Schedule for the
UltraGrip Couplings, Reducing
Couplings and Flange Adaptors as
manufactured by Viking Johnson**



independent certification of your products & services

Regulations (Northern Ireland) 2017
(Statutory Rules of Northern Ireland
2017 No.212).

12. IGN 4-01-02:2017 Issue 3 The
determination of end-loads for the
performance testing of fittings for
polyethylene pipe
13. WIS 4-52-01A: August 1994 Polymeric
anticorrosion (Barrier) coatings: Issue
1 - Requirements of the coating
system material.

UltraGrip Amplified DN350 to
DN600 Installation Instructions
(UltraGrip Amplified 350-600 IOM,
Version 4, 19/09/2025).

UltraGrip Support Liner for PE &
PVC Pipes DN350 to DN600
(DR11744_31_03_2025 –
11_09_25_V3)

UltraGrip Flange Adaptors
P10/P16 DN350-DN600,
Datasheet (DR1174_31_03_2025
– 11_09_25_V3)