

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	Uni Coupling B.V.
Address	Kerkdijk-Zuid 11a, Sint-Oedenrode, 5492 HW, Netherlands
Type	Pipe Couplings
Description	Axially restraint stainless pipe couplings for detachable sealing and anchoring of plain-ended pipes: UNI-Combigrrip: Carbon steel, Stainless steel, Cu and CuNiFe to PVC, PE, PP, PB or ABS UNI-Plastgrip: PVC, PE, PP, PB and ABS to PVC, PE, PP, PB or ABS
Trade Name	UNI-Combigrrip, UNI-Plastgrip
Application	For marine, offshore and industrial piping systems, the couplings are to be selected and installed in accordance with the manufacturer's recommendations
Specified Standard	Lloyd's Register's Rules for the: Classification of Ships - July 2021 (Ship Rules) Classification of Special Service Craft - July 2021 (SSC Rules) Classification of Inland Waterways Ships - July 2021 (IWW Rules) IACS Unified Requirement P2.11 Rev.5 (2021) (Type Approval of Mechanical Joints) Lloyd's Register Type Approval System - Test Specification No. 2, Dec. 2020, App. 4

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Ratings

Pipe Diameters : Ø 39 – 165 mm
Nominal Pressure : PN10
Temperature Range : EPDM Sleeve : -30°C up to +125°C
NBR Sleeve : -20°C up to +80°C

Other Conditions

For marine piping systems, the couplings are acceptable for non-essential piping systems in locations specified in the following Rules;

- Ship Rules, Part 5, Chapter 12, Section 2.12.
- SSC Rules, Part 15, Chapter 1, Section 5.8.
- IWW Rules, Part 5, Chapter 10, Section 2.11.

For other systems not mentioned in the Rules, not listed below or for Offshore or Industrial systems then these will be considered.

Restrictions:-

The couplings are not acceptable in the following locations:-

1. Class I & II piping
2. CO₂, starting and control air systems
3. Inside machinery spaces of category A or accommodation spaces for:-
 - a. Inert gas systems
 - b. Pipe systems for flammable liquids including corresponding vent and sounding pipes
 - c. Bilge lines
 - d. Ballast water systems
 - e. Sea- and Fresh Cooling water systems
 - f. Condensate return pipes
4. Steam systems
5. Bilge lines in other machinery spaces or high fire risk space
6. Scuppers and discharge (overboard). Deck drains, except for pipes above the free board deck
7. Pipe lines in cargo holds, tanks and other spaces which are not easily accessible
8. Fire main, water spray systems
9. Flammable fluids (Flash point > 60°)
10. Flammable fluids (Flash point ≤ 60°)

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- 11. In systems where pressure pulsations are present or likely to occur
- 12. Maximum working temperature and/or working pressure could be limited by the typical temperature limits for thermoplastic pipes

The pipe couplings are to be installed in accordance with the Manufacturer's instructions.

Suitable provision for expansion is to be made where necessary in each range of pipes.

For material combinations for the corresponding media the producer's recommendations and instructions to be sought.

Marking of the products to show:

Producer's name or trade mark, type designation, material combination, size, gasket material, torque and max working pressure or pressure Class.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

Previous Version: 16/30023

The Design Appraisal Document RTS-TA-PRJ11100366563 and its supplementary Type Approval Terms and Conditions form part of this Certificate.