

TYPE APPROVAL CERTIFICATE No. MAC098415XG/001

This is to certify that the product identified below is in compliance with the regulations herewith specified.

Description MECHANICAL JOINTS FOR PIPES

Type UNI-GRIP (G)

SLIP-ON JOINT - GRIP TYPE

AXIALLY RESTRAINED

Applicant UNI-Coupling by

KERKDIJK-ZUID 11A

5492 HW SINT-OEDENRODE

NETHERLANDS

Manufacturer UNI-Coupling by

Place of manufacture KERKDIJK-ZUID 11A

5492 HW SINT-OEDENRODE

NETHERLANDS

Reference standards Part C, Chapter 1, Section 10 of RINA Rules

Reference documents RINA Type approval system

Issued in HAMBURG on July 27, 2015. This Certificate is valid until July 26, 2020

RINA Services S.p.A. Giuseppe Russo

This certificate consists of this page and 1 enclosure

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Reference documents

- Housing, Gasket, Trunions, Washers, Gripring & Bolts Assembly drawings

- Uni-Coupling Technical Manual issued on 24,9,2014

- Burst Test, Tightness Test, Vibration Test, Pull-Out Test, Repeated Assembly Test, Vacuum Test, Pressure Pulsation Test & Fire Endurance Test Reports according to Final Test Plan dated 18.9.2014 as per IACS UR P2.11.5

- ISO-9001 & ISO14001 Quality Certificates

- Uni-coupling asbestos free material statement

Materials/Components

	W2		W5	
	DIN	AS	DIN	AS
Casing	1.4016	301	1.4571	316Ti
Lock Bars S-Type	1.0760	-	1.4571	316Ti
Lock Bars L-Type	1.4571			
Bolts	1.0760		A4-80	316
Anchor Ring	1.4310 / 301			
Rubber Sleeve	NBR / EPDM			
Pipe Material	carbon steel, stainless steel, Cu, CuNiFe			

Flame protection consists of housing made of stainless steel sheet according to drawing no. 1-W5-VB-xx-xx & 2-W5-VB-xx-xx and intumescent material covered by type approved tape.

Technical Characteristics

Design Pressure			
Size Range OD (mm)	PN		
from 21 up to 276	16		
from 64 up to 364	10		
from 318 up to 412	6		
from 318 up to 412	2.5		

Design Temperature			
Rubber Material / Size Range OD (mm)	Temperature Range		
NBR	-20°C up to 80°C		
EPDM / 21 up to 172	-30°C up to 125°C		
EPDM / 180 up to 406.4	-20°C up to 80°C		

Fields of Application

The slip on joints grip type are acceptable for the applications/locations shown in the Table 16 of Part C, Chapter 1, Section 10 of RINA Rules also where fire resistant coupling type is required and with the limitations as per Paragraph 2.4.5 Part C, Chapter 1, Section 10 of RINA Rules.

Acceptance Conditions

The gasket material must be resistant to the fluid conveyed in the pipe and also to the surrounding fluid if the coupling is installed inside a tank.

The couplings are to be installed in locations where leakage would not create a hazard by way of damage to electrical systems or otherwise create a hazard to the vessel, equipment or personnel onboard.

The acceptance of the a.m. products on board ship classed with RINA is subject to the satisfactory outcome of testing as per RINA Rules applicable.

The installation on board is to be carried out in accordance with the Manufacturer's instructions.

HAMBURG July 27, 2015

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