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Certificate No: LR2003327TA Issue Date: 10/06/2020 Expiry Date: 14/06/2024

## **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 Raccorderie Metalliche SPA

**Address** Strada Sabbionetana 59, Campitello Di Marcaria M, 46010, Italy

**Type** Profile Ring Tube Fittings

**Description** Stainless steel (quality of material, grade: AISI 316 L (X2CrNiMo17-12-2)

according to UNI - EN 10088) sanitary discharge pipes and form pieces with

slip- in socket joints, seals from EPDM.

Trade Name RM DRAIN

**Application** For use in non-pressurised (up to 0,5 bar) and vacuum sanitary discharge

systems everywhere above the freeboard deck and below the freeboard deck

in enclosed spaces where the drain pipes are not leading overboard.

Penetrations of watertight bulkheads or fire class divisions may be allowed if a

penetration of approved type is used.

**Specified Standard** EN 1124 Pipes and fittings of longitudinally welded steel pipes with spigot and

socket for waste water systems.

Ratings Sizes DN [mm]: 40 to 150

Temperature Range [°C]: -25 to +55 Design Pressure: up to 0,5 bar

1133000

**Torsten Schroeder** 

Senior Specialist to Lloyd's Register EMEA A member of the Lloyd's Register Group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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# **Type Approval Certificate**

**Other Conditions** 

Penetrations are to be separately approved by the Administration for the type of pipe and their operating pressures, on a case by case basis.

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.

The Design Appraisal Document No. HTS/ENS 30953-14 issue 1 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Document No: HTS/ENS 30953-14, Issue No. 1

## LLOYD'S REGISTER TYPE APPROVAL - DESIGN APPRAISAL DOCUMENT

Issued by: Hamburg Technical Support Office (HPC1461008)
Issued to: RACCORDERIE METALLICHE S.P.A.

For:

#### **RM PIPE STAINLESS STEEL PUSH FIT PIPING SYSTEM**

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System Procedure TA14 Version 03 (July 2017) and this Design Appraisal Document forms part of the Certificate.

#### **APPROVAL DOCUMENTATION**

Form 2571	Application for Type Approval	26.11.2018
14/20035	Previous LR TA Certificate	16.06.2014
HTS/ENS 30953-14	Previous Design Appraisal Document	16.06.2014
-	Catalogo_RM Drain 2019	2019
-	RM DRAIN Technical Information	06.06.2013
CQMP 019-016	Qualitative characteristics for buying raw material	10.04.2013
-	RM DRAIN - Technical Handbook	02/2017
RM DRAIN SAG	RM DRAIN – Socket Dimension	21.05.2013

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#### **TEST REPORTS**

PRJ1110012004-3 Production Quality Assessment report 26.06.2019 RP021-19 Pressure test report 2 bar for size DN 40, DN80 and DN150 carried out by 23.07.2019

Raccorderie Metalliche and witnessed by LR

Vacuum-, Leak- and Burst test report, carried out by Raccorderie 11.10.2013

Metalliche and witnessed by DNV

**Specialist** 

**Engineering Systems** 

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### **Supplementary Type Approval Terms and Conditions**

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations. Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the Lloyd's Register Type Approval System Procedure.

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