

TYPE APPROVAL CERTIFICATE No. MAC188324XG

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

Description Pipes couplings

Type SR 500 cutting ring EN ISO 8434-1

Applicant SCHWER FITTINGS GMBH

Hans Schwer Platz 1 D78588 Denkingen

GERMANY

Manufacturer SCHWER FITTINGS GMBH
Place of manufacture HANS SCHWER PLATZ 1

D78588 DENKINGEN

GERMANY

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

Issued in Hamburg on July 25, 2024. This Certificate is valid until July 24, 2029

Matthias Steinbusch

RINA Services S.p.A.

This certificate consists of this page and 1 enclosure



TYPE APPROVAL CERTIFICATE

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SR 500 cutting ring EN ISO 8434-1

Reference documents

Schwer Fittings main Catalogue "Katalog H-11_DG" "UH0060.0818.10.1D/GB" from page 9 to page 144.

IMA Dresden test report N. C7/3-S dated 19.07.2004.

RINA test reports N. 2008CS012379/1 ÷ /8 dated 4.08.2008 relevant to fire endurance tests in accordance with ISO 19921 - 19922 standards.

Materials/Components

Couplings and pipes: Stainless steel AISI 316Ti (1.4571)

O-ring sealing: VITON® and NBR

Technical characteristics

Pressure field:

For cutting ring pipe couplings fitted on systems for which the fire resistant type is not required:

Serie	Outside diameter (mm)	Maximum working pressure (bar)
L (light)	6 - 18 22 - 42	315 160
S (heavy)	6 - 14 16 - 30 38	630 400 315

For cutting ring pipe couplings fitted on systems for which the fire resistant type is required:

Serie	Outside diameter (mm)	Maximum working pressure (bar)
L (light)	6 - 15	250
	18 - 22	160
	28 - 42	100
S (heavy)	6 - 14	630
	16 - 25	400
	30 - 38	250





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Temperature field:

For arrangement with NBR sealing: from -30°C to +100°C.
For arrangement made of stainless steel only: from -60°C to +400°C.

For working temperature greater than +20°C, the maximum working pressure has to be decreased in compliance with the following percentage:

50°C 4.5%	250°C 24%
100°C 11%	300°C 29%
150°C 16%	350°C 31%
200°C 20%	400°C 33%

Fields of application

Application of the mechanical joints and their acceptable use for each service are indicated in Table 16, Part C, Chapter 1, Section 10 of RINA Rules for compression couplings.

Application of the mechanical joints depending upon the class of piping is indicated in Table 17 of a.m. Rules.

Threaded connection, different from the cutting ring mechanical joints, could be installed in accordance to the Tab. 15, Pt. C, Ch. 1, Sec. 10 of RINA Rules.

Piping thickness is to be in accordance with Ph. 2.2, Pt. C, Ch. 1, Sec. 10 of RINA Rules.

Acceptance conditions

The acceptance of the a.m. products on board ships and other units classed with RINA is subject to the satisfactory outcome of testing as per RINA Rules.

The installation on board of mechanical joints is to be made in accordance with the Manufacturer's assembly instructions.

The pipe couplings are to be marked with:

Manufacturer's name or trademark
Designation type reference
Design condition

Hamburg July 25, 2024







WORKSHOP APPROVAL STATEMENT No. REC188324XG

Further the ascertainments carried out and based of the documentation submitted, RINA hereby declares that:

Description Workshop Approval

Type SR 500 cutting ring EN ISO 8434-1

Applicant SCHWER FITTINGS GMBH

Hans Schwer Platz 1 D78588 Denkingen

GERMANY

Manufacturer SCHWER FITTINGS GMBH

Place of manufacture Hans Schwer Platz 1
D78588 Denkingen

GERMANY

Reference standards RINA Rules

On the basis of the proofs of the qualification level and experience, upon satisfactory outcome of the inspection carried out at the Company facilities and following the review of the relevant work procedures and instructions, the recognition as APPROVED WORKSHOP has been granted to the Company, in compliance with the RINA Rules for the Classification of Ships.

Issued in RINA Germany on July 25, 2024. This Certificate is valid until July 24, 2029

Matthias Steinbusch

RINA Services S.p.A.

This certificate consists of this page and 1 enclosure



WORKSHOP APPROVAL STATEMENT No. REC188324XG Enclosure - Page 1 of 1 SR 500 cutting ring EN ISO 8434-1

APPROVAL CONDITIONS

- -This approval is subject to compliance with the RINA Rules for the Classification of Ships.
- -The products listed in the range of approval,
- SR 500 cutting ring EN ISO 8434-1

are to be valid as applicable.

-RINA Germany is to be notified of any change and or modification to manufacturing facilities and associated quality procedures that may affect the validity of this certificate.

RINA Germany 25/07/2024



