

Type Approval Certificate Extension

This is to certify that Certificate No. 97/20064 (E3) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER

EATON Germany GmbH

Work Lohmar Hauptstr. 150 53797 Lohmar Germany

DESCRIPTION

Fire tested, soft sealing pipe fitting systems, consisting of fitting body, Viton or NBR captive seal and unit. Pipe has to be reshaped by a special Walterscheid machine. Pipe, fitting body and nut from either carbon or stainless steel or CuNiFe materials.

TYPE

WALFORM WD WALFORM plus

APPLICATION

General use for Pipe Classes I, II and III in marine, offshore and

industrial piping systems

STANDARD

Lloyd's Register Rules and Regulations for the Classification of

Ships, 2012.

OTHER CONDITIONS

The validity of this Type Approval is limited to original EATON

Walterscheid parts.

Certificate No.

97/20064 (E4)

Issue Date

10 June 2013

Expiry Date

19 October 2017

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Torsten Schröder Hamburg Design Support Office Lloyd's Register EMEA

Lloyd's Register EMEA 71 Fenchurch Street, London EC3M 4BS

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RATINGS Carbon steel St. 37.4, St. 52.4

 Series L: OD(mm)
 : 6 to 10
 12 to 18
 22 to 42

 MAWP(bar):
 500
 400
 250

 Series S: OD(mm)
 : 6 to 10
 12 to 16
 20 to 38

 MAWP(bar):
 800
 630
 420

CuNi 70/30/ CuNi 90/10

 Series L: OD(mm)
 : 6 to 12
 15 to 18
 22 to 42

 MAWP(bar):
 400
 315
 160

 Series S: OD(mm)
 : 6 to 16
 20 to 30
 38

 MAWP(bar):
 630
 400
 315

<u>Stainless steel 1.4571-316 Ti / 1.4404 and 1.4435-316 L</u> Series L: OD(mm) . 6 to 12 15 to 18 22 to 42

MAWP(bar): 400 315 250 Series S: OD(mm) 6 to 16 20 to 30 38 MAWP(bar: 630 400 330

Temperature Range:

Carbon Steel and CuNi: -20°C to +120°C Stainless Steel: -25°C to +200°C

"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 attached Design Appraisal Document No. HMD 10589-03, Issue No. 2 dated 10.06.2013 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 97/20064 (E3) to which this extension should be attached.

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