



CERTIFICATE NUMBER	21-2066737-PDA
EFFECTIVE DATE	08-Jan-2021
EXPIRY DATE	07-Jan-2026
ABS TECHNICAL OFFICE	Hamburg Engineering Department

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

CONEXA PRAEZISIONSARMATUREN GMBH

located at

VORM BERGE 1, D-34346 HANN. MUENDEN, Germany

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: Pipe Fittings
Model: 24° Bite Type Compression Fittings, L- and S-Series.
Endorsements:
Tier: 2 - PDA Issued

This Product Design Assessment (PDA) Certificate remains valid until 07/Jan/2026 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

Efstratios Maliatsos, Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

CONEXA PRAEZISIONSARMATUREN GMBH

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Tier: 2 - PDA Issued

Product: Pipe Fittings
Model: 24° Bite Type Compression Fittings, L- and S-Series.
Endorsements:

Intended Service:
Mechanical joints for use in shipboard steel and stainless steel piping systems.

Description:

Materials:

1. Carbon Steel Pipes: 1.0255 (St37.4), 1.0580 (St52.4), or equivalent and Fittings 1.0401 (C15), 1.0402 (C22), 1.0501 (C35), 1.0718 (11SMnPb30), or equivalent.
2. Stainless Steel Pipes and Fittings 1.4571 (X6CrNiMoTi17-12-2), or equivalent.
3. Sealing NBR, FKM, EPDM.

Model Types: G, GR, W, T, TR, K, SKA, SKAR, SV, ESV, WSV, AS, ASK, WAS, EW, ET, EL, EVW, EVT, EVL, DA, RED, KOR, GZ, GZR, GE- M-WD, GE-R-WD, GE-R, GE-R (KEG), GE-M, GE-M (KEG), GE-UNF-UN, GE-NPT, EGE-M-WD, EGE-R-WD, EGE-NPT, EVGE-M, EVGE-R, EVGE-M-WD, EVGE-R-WD, EVGE-NPT, GEO, WE-M, WE-R, WE-M (KEG), WE-R (KEG); WE-NPT, TE-M, TE-R, LE-M, LE-R, GAI-M, GAI-R, GAI-NPT, RI-WD, RI, ROV, VSTI M-R-WD, VKA, MAV, MAVE.

Rating:

Series L (Light): 6 mm to 18 mm Pipe OD, PN 315 bar; 22 mm to 42 mm Pipe OD, PN 160 bar.

Series S (Heavy): 6 mm to 14 mm Pipe OD, PN 630 bar; 16 mm to 30 mm Pipe OD PN 400 bar; 38 mm Pipe OD, PN 315 bar for carbon steel models, PN 250 for stainless steel models.

In any case, the maximum working pressure is to be equal or less than 1/4 burst pressure and, depending on operating temperatures or high pressure surges, the above specified pressure ratings are to be reduced, accordingly.

Max. temperature ranges: -20°C to 120°C (100°C for NBR sealing material).

Service Restriction:

1. Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.
2. SV, ESV and WSV type fittings are not to be used in Class A/ B Divisions. Coupling types with tapered threads are not to be used for toxic and corrosive fluid services. Further, their use is limited to the following restrictions: In Classes I and II piping systems in general, for joining sections of hydraulic pipes and for steering gear-, controllable pitch propeller-, and propulsion related hydraulic systems:
 - Pipe OD (mm): 6-20, Pressure Limitation (bar): 103,
 - Pipe OD (mm): 22-25, Pressure Limitation (bar): 82.8,
 - Pipe OD (mm): 28-42, Pressure Limitation (bar): 41.4.
3. In other hydraulic oil systems they may be used without pressure limitation only for connection to equipment, such as pumps, valves, cylinders, accumulators, gauges and hoses.

Comments:

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. The application and installation of the fittings is to be in accordance with the manufacturer's specifications and instructions and is to be specifically approved in connection with the relevant piping systems.
3. Generally, care is to be taken to prevent built-up of static electricity in piping conveying fluids having flash point of 60°C or less or being routed through hazardous areas.

Notes/Drawing/Documentation:

Drawing No. Correspondence, Correspondence_Fees, Revision: -, Pages: -

Drawing No. DeclarationOfConformity, DeclarationOfConformity, Revision: -, Pages: -

Drawing No. RequestForPDA, RequestForPDA, Revision: -, Pages: -

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Terms of Validity:

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STANDARDS

ABS Rules:

2020 Rules for Building and Classing Marine Vessels: 1-1-4/7.7, 1-1-A3 and 1-1-A4, 4-1-1/Table 6, 4-6-1/Table 2, 4-6-1/7.1, 4-6-2/3, 4-6-2/5.5.5, 4-6-2/5.9, 4-6-2/Table 10, Table 11, Table 12

2020 Rules for Building and Classing Mobile Offshore Units: 1-1-4/9.7, 1-1-A2 and 1-1-A3, 4-2-2/5, 4-2-2/11, 4-2-6/3.7, 6-1-6/Table 1, 6-1-6/5.1

National:

NA

International:

ISO 8434-1 :2018, IACS UR P2.11 (Rev.9 2018)

Government:

NA

EUMED:

NA

OTHERS:

NA

20-2066737-PDA

Attached to 20-2066737-PDA covering CONEXA Pipe Fittings

Model:

24° Bite Type Compression Fittings, L- and S-Series.

Issuance Date: 08 January 2021

Expiry Date: 07 January 2026

Drawing List:

Engineering Office:	Hamburg Engineering Department	
Submitter:	CONEXA PRAEZISIONSARMATUREN GMBH (401332)	
Drawing No	Revision No	Drawing Title
RequestForPDA	-	RequestForPDA
DeclarationOfConfomity	-	DeclarationOfConfomity
Correspondence	-	Correspondence_Fees

Drawing List approved in 15-HG1431652-PDA as of 29-Oct-2015:

Engineering Office:	Hamburg Engineering Department	
Submitter:	CONEXA PRAEZISIONSARMATUREN GMBH (401332)	
Drawing No	Revision No	Drawing Title
20xg06-l	-	Connection
20xg06-s	-	Connection
20xg08-l	-	Connection
20xg08-s	-	Connection
20xg10-l	-	Connection
20xg10-s	-	Connection
20xg12-l	-	Connection
20xg12-s	-	Connection
20xg14-s	-	Connection
20xg15-l	-	Connection
20xg16-s	-	Connection

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20xg18-l	-	Connection
20xg20-s	-	Connection
20xg22-l	-	Connection
20xg25-s	-	Connection