Certificate of Approval

This is to certify that the Management System of:

Jakob Hülsen GmbH & Co. KG

Maysweg 14, 47918 Tönisvorst, Germany

has been approved by LRQA to the following standards:

ISO 9001:2015

P.G. Cornelissen - Area Manager North Europe

Issued by: Lloyd's Register Deutschland GmbH

for and on behalf of: Lloyd's Register Quality Assurance Limited

Current issue date: 2 October 2018
Expiry date: 1 October 2021
Certificate identity number: 10124813

Original approval(s):
ISO 9001 – 20 October 2000

Approval number(s): ISO 9001 – 0018027

The scope of this approval is applicable to:
Manufacture of pressed elbows and fittings in aluminium, copper and their alloys, pressure vessels, devices, heat and chill rolls and seam welded pipes in steel, alloy steel and aluminium and its alloys.Stockholder of piping parts in aluminium, copper and their alloys.

UKAS MANAGEMENT SYSTEMS
001

Zertifikat-Nr.: **50007/1**

ZERTIFIKAT

In Übereinstimmung mit den Anforderungen der Druckgeräterichtlinie DGR 2014/68/EU, Anhang I, 4.3 und AD 2000-Merkblatt W0.

CERTIFICATE In accordance with the requirements of the Pressure Equipment Directive 2014/68/EU, Annex I, 4.3 and AD 2000-Merkblatt W0.

Hiermit wird bescheinigt, dass das Qualitätssicherungssystem des Unternehmens
This is to certify that the Quality Assurance System of

Jakob Hülsen GmbH & Co. KG
47918 Tönisvorst
Deutschland

durch LR Deutschland GmbH bewertet und einer
has been examined and undergone a

Werkstoffspezifischen Bewertung
Specific Assessment for Materials

unterzogen wurde und den Nachweis über die Erfüllung der Forderungen der Druckgeräterichtlinie erbracht hat für die
by LR Deutschland GmbH and evidence of fulfilment of the requirements of the above directive has been provided for the

Herstellung von Rohrbögen und Reduzierungen
Manufacture of elbows and reducers.

Einzelheiten siehe Anhang I dieses Zertifikates.
Die Zulassung gilt unter der Voraussetzung, dass das Qualitätssystem fortlaufend Aufrechterhalten wird und die Forderungen obiger Richtlinie erfüllt.
Die Erfüllung der Erfordernisse der ISO 9001:2008 sind bestätigt durch das Zertifikat Nr. KLN 0208389 von LRQA gültig bis 01.10.2018

Details as per Annex I of this certificate. Approval is subject to the continued maintenance of the quality system in accordance with the requirements of the above mentioned Standards. The fulfilment of the requirements of ISO 9001:2008 is confirmed in Certificate No 0208389, issued by LRQA valid until 01.10.2018.

Erstmalige Zulassung/
Initial Approval: **30. Oktober 2000**

Zertifikatsgültigkeit bis:
Certificate Expiry Date: **01. Oktober 2018**

Lloyd's Register Deutschland GmbH Kenn-Nr. 0525 / Lloyd's Register Deutschland GmbH Ident-No. 0525

Hamburg, 23. Januar 2017
Ort und Datum
Place and Date

A. Prigann
Name, Unterschrift, Zertifizierer
Name, Signature, Certifier

Lloyd's Register Deutschland GmbH, Am Sandtorkai 41, D-20457 Hamburg, Deutschland
Telefon +49 40 32 81 07 - 0 Fax +49 40 32 81 07 - 150 Email: PressureSystems.Germany@lr.org

Anhang I zu Zertifikat Nr. 50007/1 vom 23. Januar 2017

ANNEX I of CERTIFICATE Nr. 50007/1 dated 23 January 2017

Liste technischer Unterlagen:
List of technical documents:

Lfd. Nr. No.	Bauteilnorm Standard Fitting	Vormaterial Norm Raw Material Standard	Werkstoffe/ Lieferzustand Material/ State of Delivery	Abmessungsbereich (mm) Dimension (mm)
1	In Anl. DIN EN 10253-2 ASTM B361 Similar to DIN EN 10253-2 ASTM B361	EN 573-3 EN 754-1, -2, -7 EN 755-1, -2, -7 ASME SB-241	EN AW-5083-0 EN AW-5754-0 EN AW-1050A-0 WP 5083-0	Nennweite: 25-500 Wandstärke: 2-25 Nom. Bore: 25-500 Thickness: 2-25
2	In Anl. DIN EN 10253-2 ASTM B361 Similar to DIN EN 10253-2 ASTM B361			Nennweite: 25-500 Wandstärke: 2-15 Nom. Bore: 25-500 Thickness: 2-15
3	In Anl. DIN EN 10253-2 ASTM B361 Similar to DIN EN 10253-2 ASTM B361	EN 485 AD W6/1 ASME SB209		Nennweite: 200-500 Wandstärke: 4 – 10 Nom. Bore: 200-500 Thickness: 4-10

1 = Rohrbogen/Elbows
2 = Reduzierungen/Reducers
3 = Geschweißte Rohrbögen/Welded Elbows

Verweis: DIN EN 10253-2 ersetzt die Normen DIN 2605 und DIN 2616

Note: DIN EN 10253-2 replaces Standard DIN 2605 and DIN 2616

Lloyd's Register Deutschland GmbH, Am Sandtorkai 41, D-20457 Hamburg, Deutschland
Telefon +49 40 32 81 07 - 0 Fax +49 40 32 81 07 - 150 Email: PressureSystems.Germany@lr.org

DNV·GL

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMMM00000AJ

This is to certify:

That

Jakob Hülsen GmbH & Co. KG
Tönisvorst Nordrhein-Westfalen, Germany

is an approved manufacturer of
Wrought Copper and Copper Alloys

in accordance with
DNV GL rules for classification – Ships

and the following particulars:

Alloy type(s)	**Copper and Copper Alloys**
Process	**Hot Forming Process**
	Cold Forming Process
Dimensions	**max. DN500 x 13 mm**
Welding Method	**not applicable**
Remarks	**see particulars of the approval**

Manufacturer(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules.

This Certificate is valid until **2018-12-31**.

Issued at **Hamburg** on **2016-01-26**

DNV GL local station: **Essen**

Approval Engineer: **Christian Wildhagen**

for **DNV GL**
Digitally Signed By: Roehr, Stefan
Location: DNV GL Hamburg, Germany
Signing Date: 2016-01-26 , on behalf of

Marcus von Busch
Head of Section

Particulars of the approval

Connecting Elements and Fittings:

Alloy Type	Product	Supply Condition	Wall Thickness [mm], max.	Diameter max.
CuNi10Fe1,6Mn acc. to DIN 86086	RF	acc. to standard	13	DN500
CuNi10Fe1Mn acc. to EN 12449	RF	acc. to standard	13	DN500
CuNi30Mn1Fe acc. to EN 12449	RF	acc. to standard	13	DN500
CuZn20Al2 acc. to EN 12449	RF	acc. to standard	13	DN500

RF: pipe fittings

TECHNICAL STANDARDS & SAFETY AUTHORITY
14th Floor, Centre Tower
3300 Bloor Street West
Toronto, Ontario
Canada M8X 2X4

Show facsimile of manufacturer's logo or trademark, as it will appear on the fitting, in the space below

JH K

STATUTORY DECLARATION
Registration of Fittings

I, Ralf Hülsen. Technical Director
(Name and Position, e.g. President, Plant Manager, Chief Engineer)

of Jakob Hülsen GmbH & Co. KG
(Name of Manufacturer)

Located at Maysweg 14, 47918 Tönisvorst, Germany +49 2151 99328-28 99328-828
(Plant Address) *(Telephone No.)* *(Fax No.)*

☑ do solemnly declare that the fittings listed hereunder, which are subject to the ***Technical Standards and Safety Act***, Boilers and Pressure Vessels Regulation, comply with all of the requirements of
ASTM B361
(Title of recognized North American Standard)
which specifies the dimensions, materials of construction, pressure/temperature ratings, identification marking the fittings and service;

☐ or are not covered by the provisions of a recognized North American standard and are therefore manufactured to comply with _____ as supported by the attached data which identifies the dimensions, material of construction, pressure/temperature ratings and the basis for such ratings, the marking of the fitting for identification and service.

I further declare that the manufacture of these fittings is controlled by a quality system meeting the requirements of ISO 9001:2000 PED 97/23/EC which has been verified by the following authority, LRQA Germany.
The items covered by this declaration, for which I seek registration, are category A (reducers in Alloy 5083-0) type fittings. In support of this application, the following information and/or test data are attached as follows:
Catalogue data, Certificate to ISO 9001:2000 and PED 97/23/EC, sample certificate, calculation of pressure rate
(drawings, calculations, test reports, etc.)

Declared before me at Krefeld in the NRW of Germany

the JACOBS · WIESNER day of Oct AD 20 08.

Commissioner for Oaths: JACOBS · DIETZ

Rechtsanwälte
Grefelder Straße 57 - 59
47799 Krefeld
Telefon (02151) 90 69 60
Telefax (02151) 90 69 65

(Printed name)

(Signature)

Ralf Hülsen
(Signature of Declarer)

FOR OFFICE USE ONLY

To the best of my knowledge and belief, the application meets the requirements of the ***Technical Standards and Safety Act***, Boilers and Pressure Vessels Regulation, and CSA Standard B51 and is accepted for registration in Category A.

CRN: OA12756.5 CRN valid for reducers

Registered by: M. Noettl

Dated: Jan 06/09

NOTE: This registration expires on Jan 06/14

Technical Standards and Safety Authority
Boilers and Pressure Vessels Safety Program

REGISTERED
C.R.N.: OA.12756.5
Signed: M. Noettl
Date: Jan. 06.09

PV 09553 (06/04)