



Type Approval Certificate

Germanischer Lloyd

This is to certify that the undermoted product(s) has/have been tested in accordance with the relevant requirements of the GL Type Approval System.

Certificate No. 40 505 - 01 HH

Company DK Tech Co., Ltd.
568-17 Kwebup-dong, Sasang-gu
Busan 617-060, Korea

Product Description PIPE UNIONS

Type Dk-Lok TUBE FITTINGS

Environmental Category None

Technical Data / TECHNICAL DATA

Range of Application

Material: Stainless Steel
Elastomere seals: NBR FPM PTFE
Temperature range [°C] - 40 to 100 - 20 to 200 - 60 to 240
Nominal pressure PN [bar]: According to page 2 of this certificate

RANGE OF APPLICATION

• Piping systems on ships and other structures classed by Germanischer Lloyd.

• Max. allowable working pressure acc. to temperature de-rating factors specified in the catalogue no. 01-2

• The selection of the pipe unions for the corresponding service and the right installation are to be in accordance with the instructions of the manufacturer.

LIMITATIONS

Pipe unions with elastomer seals are not approved within machinery spaces for the use in fuel-, lubricating-, hydraulic oil, sea water and bilge piping systems.

Threaded bulkhead pipe unions are not approved through watertight bulkheads.

Test Standard • Regulations for the Performance of Type Tests, Part 6-Test Requirements for Mechanical Components and Equipment.

Documents • Test reports of tests carried out from 11.04.01 to 18.05.01
• Catalogue No. 01-2

Remarks -

Valid until 2006-06-26

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Type Approval Symbol



File No. II.C.05

Hamburg, 2001-06-27

Germanischer Lloyd


D. Fölsmanith


H. Markus

This certificate is issued on the basis of "Regulations for the Performance of Type Tests, Part 0, Procedure".



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TECHNICAL DATA

Tube O.D. [inches]	Nominal Pressure PN [bar]
1/8"	766,0
3/16"	717,0
1/4"	717,0
5/16"	562,0
3/8"	457,0
1/2"	436,0
5/8"	422,0
3/4"	408,0
7/8"	330,0
1"	330,0
1 1/4"	337,0
1 1/2"	345,0
2"	253,0

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D. Roßmanith


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Company Dk Tech Co., Ltd.
568-17 Kwebup-dong, Sasang-gu
Busan 617-060, Korea

Product Description PIPE UNIONS

Type BITE TYPE TUBE FITTINGS

Environmental Category None

Technical Data / TECHNICAL DATA

Range of Application

Material: Carbon steel
Temperature range: - 40 [°C] to + 120 [°C]
Elastomere seals: NBR, FPM, PTFE
Pipe O.D. [mm]: 6 to 15 16 to 22 25 to 28 30 to 38 42
Nom. Press. PN [bar] 500 400 350 250 210

RANGE OF APPLICATION

- Piping systems on ships and other structures classed by Germanischer Lloyd.
- The selection of the pipe unions for the corresponding service and the right installation are to be in accordance with the instructions of the manufacturer.

LIMITATIONS:

Pipe unions with elastomer seals are not approved within machinery spaces for the use in fuel-, lubricating-, hydraulic oil, sea water and bilge piping systems. The maximum allowable working temperature for NBR seals is limited to 100°C. Through watertight bulkheads pipe union type BBUW is approved only.

Test Standard • Regulations for the Performance of Type Tests, Part 6-Test Requirements for Mechanical Components and Equipment.

Documents • Test reports of tests carried out from 11.04.01 to 18.05.01
• Catalogue No. 02-1

Remarks -

Valid until 2006-06-26

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File No. II.C.05

Hamburg, 2001-06-27

Germanischer Lloyd


D. Roßmanith


H. Markus