



TÜRK LOYDU

TYPE APPROVAL CERTIFICATE

Certificate No: TO.DEB.14-1135

This Certificate consists of 2 pages.

This is to certify that the

PIPE FITTINGS

With type designations

See appendix 1-4

Manufactured by

KURTMAN ENDÜSTRİYEL ÜRÜNLER İMALAT ve TİC. A.Ş.
Hadımköy-Arnavutköy/İSTANBUL/TURKEY

Is found to comply with
Türk Loydu Rules for Classification of ships.

- Application** : Pipe fittings were intended for piping system of ships, tugs and marine industry according to Türk Loydu rules.
- Design** : KURTMAN ENDÜSTRİYEL ÜRÜNLER İMALAT ve TİC. A.Ş.
- Sizes** : See appendix 1-4
- Address of Manufacturer** : Hadımköy Mah. Atatürk Sanayi Bölgesi Mustafa İnan Cad. No:15
Hadımköy-Arnavutköy/İSTANBUL/TURKEY
- Place and date** : Tuzla/İSTANBUL 09.04.2015

Subject to the conditions referred to in the following pages, this certificate is valid until
08.04.2020


İlker KARPUZ
Head of Marine Industry Division


Akif Bülent HOLOSORLU
Surveyor



Product description ;

Type Designation : See appendix 1-4

Materials used : Materials were used according to approved drawing dated 02.10.2014 (11SMNPb30, St52-3 and St37-2)

Application/Limitation(Approval conditions):

Pipe fittings were intended for piping system of ships, tugs and marine industry according to Türk Loydu rules.

Documentation :

The design and construction drawings approved by Türk Loydu dated 02.10.2014

Approved No : P/1589/14-1135/ET/AO

Test Report : 282-1-1,282-1-2, 282-1-3, 282-1-4, 945-2-1, 945-2-2, 945-2-4, 945-2-3,282-2-1 282-2-2, 282-2-3, 282-2-4, YKG-2015.0043, YKG-2015.0044

Test carried out (and results) :

Working pressure test (100 Bar, 160 Bar, 315 Bar, 400 Bar and 630 bar) Pressure test (150 Bar, 240 Bar, 475 Bar, 600 Bar and 945 Bar) Burst Test (400 Bar, 640 Bar, 800 Bar and 1050 Bar), Leakage test under temperature between -40°C and 120°C and Corrosion test in artificial atmosphere-Salt spray test found satisfactory.

Place of test carried out :

KURTMAN ENDÜSTRİYEL ÜRÜNLER İMALAT ve TİC. A.Ş.

Hadımköy Mah. Atatürk Sanayi Bölgesi Mustafa İnan Cad. No:15 İSTANBUL/TURKEY
KOSGEB

İkitelli Organize san Bölgesi ESKOOP San. Sitesi İkitelli/İSTANBUL/TURKEY

MERCEDES-BENZ TÜRK A.Ş.

Mercedes Bulvarı No:5 Sanayi Mah. 34 519 Esenyurt-İSTANBUL/TURKEY

Marking of product: The product to be marked same as below mentioned.

- Manufacturer name and trade mark.
- Type designation.



Akif Bülent HOLOSORLU

Surveyor

This certificate is valid if retention/renewal surveys carried out to the satisfaction of TL surveyor and following entries made:

Surveyor	Surveyor	Surveyor	Surveyor
.../.../2016	.../.../2017	.../.../2018	.../.../2019
Survey Date	Survey Date	Survey Date	Survey Date

This certificate is subject to terms and conditions described below.

Any significant change in design or construction may render this Certificate invalid. Type Approval Certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. This certificate is not valid for products without TL marking above mentioned. The manufacturer should notify TÜRK LOYDU of any modifications or changes to the equipment in order to obtain valid certificate. This certificate shows that tested specimens as representative of the product complies of the TÜRK LOYDU rules, and relevant international instruments that apply to it.