Certificate No: LR2002963TA
Issue Date: 10/04/2020
Expiry Date: 07/01/2025

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	**JIANGSU HUAYANG PIPE & FITTINGS CO,. LTD**
Address	Fuyuan Road, Economic Development Zone, Ju Rong City, Jiangsu Province, 212400, China
Place of Production	JIANGSU HUAYANG PIPE & FITTINGS CO,. LTD Fuyuan Road, Economic Development Zone, Ju Rong City, Jiangsu Province, 212400, China
Type	Pipes and Fittings
Description	Elbow, Tee, Reducer, Cap Austenitic Stainless Steel Pipe Fittings
Trade Name	HYMCO
Application	For use in marine and offshore application
Specified Standard	Rules and Regulations for the Classification of Ships, July 2019 Rules and Regulations for the Construction and Classification of Ships for the Carriage of Liquefied Gases in Bulk, August 2019 ASME B16.9-2007 GB/T 12459-2005
Ratings	Wall thickness: Sch5S to Sch80S (GB/T 12459-2005) Nominal diameter: DN15 to DN800 Temperature range (°C): -165 to 350

Downloaded Copy

Xiaodong Zhang

Lead Specialist and Section Leader for Engineering Section to Lloyd's Register Classification Society (China) Co Ltd

19th Floor, 550 Yan An dong Road, Shanghai, Huangpu District, China

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Certificate No: LR2002963TA
Issue Date: 10/04/2020
Expiry Date: 07/01/2025

Type Approval Certificate

Pressure range (bar):	10 to 100
Pipe Fittings Material:	WP304 (ASTM A403/A403M) WP304L (ASTM A403/A403M) WP316L (ASTM A403/A403M

Other Conditions

Where the product is intended to installed on board ship classed with Lloyd's Register (LR), the following conditions should be followed.
1.Pipe fittings material type/wall thickness selection is to be in accordance with the manufacturer's instructions and to the attending Surveyor's satisfaction.
2.Pipe fittings used on piping systems installed in LPG/LNG carriers, gas fueled ships and classed refrigeration systems, austenitic stainless steel material 316L & 304L can be used for welded fabrication. LR Rules Part 5, Chapter 12, Section 9.4.1 refers.

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 Classification Society (China) Co Ltd of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document No. LR2002963TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Downloaded Copy

19th Floor, 550 Yan An dong Road, Shanghai,
Huangpu District, China

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.