Certificate No: LR26189927TA
Issue Date: 30/04/2026
Expiry Date: 29/04/2031

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	**Cangzhou Cangxing Pipeline Manufacturing Co., LTD.**
Address	Puwa City park, Yanshan Economic, Development Zone, Hebei, Cangzhou, China
Type	Pipe Fittings
Description	Carbon Steel and Austenitic Stainless Steel: 90° Elbows, Concentric Reducers and Equal Tees
Trade Name	Pipe Fittings
Application	Marine Piping System
Specified Standard	LR Rules and regulations for the Classification of Ships, July 2024 LR Test Specification 2 ASME B16.9-2024
Ratings	Nominal Diameter(mm): DN25~DN600 (ASTM A234 WPB) DN25~DN400 (ASTM A403 WP304/304L, WP316/316L)
	Wall Thickness(mm): 2.77~12.70 (ASTM A234 WPB) 2.77~12.70 (ASTM A403 WP304/304L, WP316/316L)
	Fitting Material: Carbon Steel (ASTM A234 WPB)

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Prathamesh Pawshe
Engineering Piping - Specialist to Lloyd's Register Marine and Offshore India LLP
A member of the Lloyd's Register group

Units 1702-1704, 17th Floor (Level-13), Building Q2, Aurum Q Parc; Gen 4/1 TTC, Thane-Belapur Road, Ghansoli, Navi Mumbai, 400710, India

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		Austenitic Stainless Steel (ASTM A403 WP304/304L, WP316/316L)
	Temperature Range (°C):	0~425 (ASTM A234 WPB) -196~300 (ASTM WP304/304L, WP316/316L)
	Maximum Working Pressure (Bar):	Calculated by the pipe thickness
Other Conditions		1. Where pipes are used in Class I or II systems on a LR Classed ship, the materials are to be supplied with an LR materials certification. 2. Pipefittings material type/wall thickness selection is to be in accordance with the manufacturer's instructions and to the attending Surveyor' satisfaction. 3. Where pipe fittings are used on a LR Classed ship, the minimum wall thickness of carbon steel pipe fittings is to be determined according to ship rules Part 5, Chapter12, Section 2.2.3 and 2.2.4, the minimum wall thickness of stainless steel pipe fittings are to be determined according ship rules Part 5, Chapter12, Section 10.1.1. and the requirements of Part 5, Chapter12, section 8.1.1 to be complied.

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 Marine and Offshore India LLP of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document LR26189927TA_DAD and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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