Certificate No: LR25395364TA
Issue Date: 09/12/2025
Expiry Date: 08/12/2030

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	**Tiexi Fluid Technology (Shanghai) Co., Ltd**
Address	Floor 1, 2, Lane 218, Weihang Road, Baoshan District, Shanghai, 201900, China
Place of Production	Yizhong Fluid Technology (Suzhou) Co., Ltd. Floor 1, Building 5, Binjiang Xingye Port, No. 88 Lingmei Road, Liuhe Town, Taicang City, Suzhou City, Jiangsu, China
Type	Ball Valves
Trade Name	TBG (Wafer Floating Ball Valve), TBF (Flanged Floating Ball Valve)
Application	Marine and Industrial Applications for Water, Steam, and Oil Media
Specified Standard	LR Rules and Regulations for the Classification of Ships, July 2025 API 608
Ratings	TBG Ball Valve

Nominal Size (mm):	DN15-DN100
Nominal Pressure (Bar):	PN25
Design Temperature (˚C):	-29 ~ 120
Body Material:	CF8/CF8M/CF3M
Seat:	PTFE
Ball:	304/316/316L

TBF Ball Valve

Downloaded Copy

Mandar Ojale

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

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: LR25395364TA
Issue Date: 09/12/2025
Expiry Date: 08/12/2030

Type Approval Certificate

Nominal Size (mm):	DN15-DN150
Nominal Pressure (Bar):	PN16
Design Temperature (˚C):	-29 ~ 150
Body Material:	A351CF8/CF8M/CF3M
Seat:	PTFE
Ball:	304/316/316L

Other Conditions

For application on a Lloyds Register classed vessel, the following conditions are to be complied with: -
1) The materials used for valves are to be suitable for the medium and the service for which the piping is intended on-board.
2) Valves are to be selected and installed in accordance with the manufacturer's instructions and recommendations and to the attending Surveyor's satisfaction.
3) Materials for castings and forgings of Class I and Class II piping systems are to be produced at a works approved by LR and are in general to be tested in accordance with the Rules for Materials.
4) Where valves intended for installation in pressure piping systems having working pressures exceeding 7 bar, the valves are to be surveyed at the manufacturer's work and to the attending Surveyor's satisfaction.
5) Valves are not to be used in spaces where leakage or failure caused by fire could result in fire spread, flooding or the loss of an essential service.
6) The approval does not include any operating gear for remote control of the valves.

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 LR25395364TA_DAD and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Downloaded Copy

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

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.