Certificate No: LR2481496TA
Issue Date: 28/05/2025
Expiry Date: 27/05/2030

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	**CSSC Sunrui (Luoyang) Special Equipment Co., Ltd.**
Address	No. 88, North Binhe Road, High-Tech, Development Zone, Luoyang, Henan, 471000, China
Place of Production	CSSC Sunrui (Luoyang) Special Equipment Co., Ltd. No. 88, North Binhe Road, High-Tech, Development Zone, Luoyang, Henan, 471000, China
Type	Expansion Bellows
Description	Universal tied expansion joint Universal untied expansion joint Single untied expansion joint Universal hinged expansion joint
Trade Name	Sunrui
Application	Marine use for LNG/LPG fuel and cargo and associated piping systems in ships constructed for the carriage of liquefied gases in bulk
Specified Standard	LR Rules and Regulations for the Construction and Classification of Ships for the Carriage of Liquefied Gases in Bulk, July 2023 LR Rules and Regulations for the Classification of Ships, July 2023 International Code for the Construction and Equipment of Ships Carrying Liquefied Gases in Bulk, 2014 (IGC Code) LR Type Approval System Test Specification Number 2, December 2020,

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Qing Dong

Engineering - Machinery - Senior Specialist to Lloyd's Register Classification Society (China) Co., Ltd.

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Type Approval Certificate

Chapter 2, Appendix 1 – Expansion Pieces– Bellows and sliding types
GB/T 12777 - 2019
EJMA, 10th Edition

Ratings

SRSE-RS(TK)-650	
Nominal Diameters (mm):	DN650
Ply thickness (mm):	0.8
Construction Details:	3 plies Unreinforced
Design Pressure (MPa):	1.0
Temperature Range (˚C):	-196~+80
Materials:	
Bellows:	N08825/316L
Flange:	F316L
SRSE-VM(TK)-400-01	
Nominal Diameters (mm):	DN400
Ply thickness (mm):	0.8
Construction Details:	2 plies Unreinforced
Design Pressure (MPa):	1.0
Temperature Range (˚C):	-196~+80
Materials:	
Bellows:	N08825/316L
Flange:	F316L
SRSE-GC(TK)-200	
Nominal Diameters (mm):	DN200
Ply thickness (mm):	0.8
Construction Details:	2 plies Unreinforced
Design Pressure (MPa):	1.0
Temperature Range (˚C):	-196~+80
Materials:	
Bellows:	N08825/316L

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Type Approval Certificate

Flange:	F316L
SRSE-C(TK)-40	
Nominal Diameters (mm):	DN40
Ply thickness (mm):	0.5
Construction Details:	3 plies Unreinforced
Design Pressure (MPa):	2.5
Temperature Range (˚C):	-196~+80
Materials:	
Bellows:	N08825/316L
Flange:	F316L
SRSE-C(TK)-65	
Nominal Diameters (mm):	DN65
Ply thickness (mm):	0.5
Construction Details:	3 plies Unreinforced
Design Pressure (MPa):	1.0
Temperature Range (˚C):	-196~+80
Materials:	
Bellows:	N08825/316L
Flange:	F316L
SRSE-EB(LCD)-150-01	
Nominal Diameters (mm):	DN150
Ply thickness (mm):	0.8
Construction Details:	2 plies Unreinforced
Design Pressure (MPa):	1.0
Temperature Range (˚C):	-196~+80
Materials:	
Bellows:	N08825/316L
Flange:	F316L
SRSE-EB(LDC)-200	

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Type Approval Certificate

Nominal Diameters (mm):	DN200
Ply thickness (mm):	0.8
Construction Details:	2 plies
	Unreinforced
Design Pressure (MPa):	1.0
Temperature Range (˚C):	-196~+80
Materials:	
Bellows:	N08825/316L
Flange:	F316L

SRSE-EB(HDC)-500

Nominal Diameters (mm):	DN500
Ply thickness (mm):	0.8
Construction Details:	3 plies
	Unreinforced
Design Pressure (MPa):	1.0
Temperature Range (˚C):	-196~+80
Materials:	
Bellows:	N08825/316L
Flange:	F316L

SRSE-EB(HDC)-600-01

Nominal Diameters (mm):	DN600
Ply thickness (mm):	0.8
Construction Details:	3 plies
	Unreinforced
Design Pressure (MPa):	1.0
Temperature Range (˚C):	-196~+80
Materials:	
Bellows:	N08825/316L
Flange:	F316L

SRSE-EB(HDH)-750

Nominal Diameters (mm):	DN750
Ply thickness (mm):	0.8
Construction Details:	3 plies

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Type Approval Certificate

	Unreinforced
Design Pressure (MPa):	1.0
Temperature Range (˚C):	-196~+80
Materials:	
Bellows:	N08825/316L
Flange:	F316L
SRSE-EB(LDC)-150-02	
Nominal Diameters (mm):	DN150
Ply thickness (mm):	0.8
Construction Details:	2 plies
	Unreinforced
Design Pressure (MPa):	2.5
Temperature Range (˚C):	-196~+80
Materials:	
Bellows:	N08825/316L
Flange:	F316L
SRSE-EB(LV)-400	
Nominal Diameters (mm):	DN400
Ply thickness (mm):	0.8
Construction Details:	2 plies
	Unreinforced
Design Pressure (MPa):	1.0
Temperature Range (˚C):	-196~+80
Materials:	
Bellows:	N08825/316L
Flange:	F316L
SRSE-EB(HDH)-300	
Nominal Diameters (mm):	DN300
Ply thickness (mm):	0.8
Construction Details:	3 plies
	Unreinforced
Design Pressure (MPa):	1.0
Temperature Range (˚C):	-196~+80

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Type Approval Certificate

Materials:	
Bellows:	N08825/316L
Flange:	F316L
SRSE-C105-C106(TK)-32	
Nominal Diameters (mm):	DN32
Ply thickness (mm):	0.5
Construction Details:	3 plies Unreinforced
Design Pressure (MPa):	2.5
Temperature Range (˚C):	-196~+80
Materials:	
Bellows:	N08825/316L
Flange:	F316L
SRSE-GM(TK)-300-01	
Nominal Diameters (mm):	DN300
Ply thickness (mm):	0.8
Construction Details:	3 plies Unreinforced
Design Pressure (MPa):	1.0
Temperature Range (˚C):	-196~+80
Materials:	
Bellows:	N08825
Flange:	F316L
SRSE-GM(TK)-300-02	
Nominal Diameters (mm):	DN300
Ply thickness (mm):	0.8
Construction Details:	3 plies Unreinforced
Design Pressure (MPa):	1.0
Temperature Range (˚C):	-196~+80
Materials:	
Bellows:	N06625
Flange:	F316L

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Type Approval Certificate

SRSE-VM(TK)-400-02	
Nominal Diameters (mm):	DN400
Ply thickness (mm):	0.8
Construction Details:	3 plies Unreinforced
Design Pressure (MPa):	1.0
Temperature Range (˚C):	-196~+80
Materials:	
Bellows:	N08825/316L
Flange:	F316L
SRSE-VM(TK)-500	
Nominal Diameters (mm):	DN500
Ply thickness (mm):	0.8
Construction Details:	3 plies Unreinforced
Design Pressure (MPa):	1.0
Temperature Range (˚C):	-196~+80
Materials:	
Bellows:	N08825
Flange:	F316L
SRSE-VM(TK)-650	
Nominal Diameters (mm):	DN650
Ply thickness (mm):	0.8
Construction Details:	3 plies Unreinforced
Design Pressure (MPa):	1.0
Temperature Range (˚C):	-196~+80
Materials:	
Bellows:	N08825
Flange:	F316L
SRSE-TE(TK)-300	
Nominal Diameters (mm):	DN300

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Type Approval Certificate

Ply thickness (mm):	0.8
Construction Details:	2 plies Unreinforced
Design Pressure (MPa):	0.5
Temperature Range (˚C):	-196~+80
Materials:	
Bellows:	N08825/316L
Flange:	F316L

SRSE-TE(TK)-500

Nominal Diameters (mm):	DN500
Ply thickness (mm):	0.8
Construction Details:	3 plies Unreinforced
Design Pressure (MPa):	0.5
Temperature Range (˚C):	-196~+80
Materials:	
Bellows:	N08825/316L
Flange:	F316L

SRSE-PBP(TK)-150-01

Nominal Diameters (mm):	DN150
Ply thickness (mm):	0.8
Construction Details:	2 plies Unreinforced
Design Pressure (MPa):	-0.08~0.5
Temperature Range (˚C):	-110~+45
Materials:	
Bellows:	N08825/316L
Flange:	F316L

SRSE-PBP(TK)-250

Nominal Diameters (mm):	DN250
Ply thickness (mm):	0.8
Construction Details:	3 plies Unreinforced

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Type Approval Certificate

Design Pressure (MPa):	0.5
Temperature Range (˚C):	-196~+45
Materials:	
Bellows:	N08825/316L
Flange:	F316L
SRSE-PBP(TK)-150-02	
Nominal Diameters (mm):	DN150
Ply thickness (mm):	0.8
Construction Details:	2 plies Unreinforced
Design Pressure (MPa):	-0.08~0.5
Temperature Range (˚C):	-110~+45
Materials:	
Bellows:	N08825/316L
Flange:	F316L
SRSE-SBP(TK)-150	
Nominal Diameters (mm):	DN150
Ply thickness (mm):	0.8
Construction Details:	2 plies Unreinforced
Design Pressure (MPa):	-0.08~0.5
Temperature Range (˚C):	-196~+45
Materials:	
Bellows:	N08825/316L
Flange:	F316L
SRSE-SBP(TK)-250	
Nominal Diameters (mm):	DN250
Ply thickness (mm):	0.8
Construction Details:	3 plies Unreinforced
Design Pressure (MPa):	0.5
Temperature Range (˚C):	-196~+45
Materials:	

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Bellows:	N08825/316L
Flange:	F316L
SRSE-PBP(TK)-200	
Nominal Diameters (mm):	DN200
Ply thickness (mm):	0.8
Construction Details:	2 plies Unreinforced
Design Pressure (MPa):	0.5
Temperature Range(˚C):	-110~+80
Materials:	
Bellows:	N08825/316L
Flange:	F316L
SRSE-EB(LDC)-250	
Nominal Diameters (mm):	DN250
Ply thickness (mm):	0.5
Construction Details:	3 plies Unreinforced
Design Pressure (MPa):	1.0
Temperature Range (˚C):	-196~+80
Materials:	
Bellows:	N08825/316L
Flange:	F316L
SRSE-EB(VP)-100	
Nominal Diameters (mm):	DN100
Ply thickness (mm):	0.5
Construction Details:	3 plies Unreinforced
Design Pressure (MPa):	-0.08~0.5
Temperature Range (˚C):	-196~+120
Materials:	
Bellows:	N08825/316L
Flange:	F316L

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SRSE-EB(VP)-125	
Nominal Diameters (mm):	DN125
Ply thickness (mm):	0.5
Construction Details:	2 plies Unreinforced
Design Pressure (MPa):	-0.08~0.5
Temperature Range (˚C):	-196~+45
Materials:	
Bellows:	N08825/316L
Flange:	F316L
SRSE-GD(TK)-1400	
Nominal Diameters (mm):	DN1400
Ply thickness (mm):	1.2
Construction Details:	1 ply Unreinforced
Design Pressure (MPa):	0.08
Temperature Range (˚C):	-196~+80
Materials:	
Bellows:	316L
SRSE-GD(TK)-1450	
Nominal Diameters (mm):	DN1400
Ply thickness (mm):	1.2
Construction Details:	1 ply Unreinforced
Design Pressure (MPa):	0.08
Temperature Range (˚C):	-196~+80
Materials:	
Bellows:	316L
SRSE-CR1-CR2(TK)-400	
Nominal Diameters (mm):	DN400
Ply thickness (mm):	0.8
Construction Details:	2 plies Unreinforced

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Design Pressure (MPa):	0.1
Temperature Range (˚C):	-196~+45
Materials:	
Bellows:	N08825/316L
SRSE-CR3(TK)-550	
Nominal Diameters (mm):	DN550
Ply thickness (mm):	0.8
Construction Details:	3 plies Unreinforced
Design Pressure (MPa):	0.1
Temperature Range (˚C):	-196~+45
Materials:	
Bellows:	N08825/316L
SRSE-CR4(TK)-700	
Nominal Diameters (mm):	DN700
Ply thickness (mm):	0.8
Construction Details:	3 plies Unreinforced
Design Pressure (MPa):	0.1
Temperature Range (˚C):	-196~+45
Materials:	
Bellows:	N08825/316L
SRSE-CR5-CR14(TK)-200	
Nominal Diameters (mm):	DN200
Ply thickness (mm):	0.8
Construction Details:	2 plies Unreinforced
Design Pressure (MPa):	0.1
Temperature Range (˚C):	-196~+45
Materials:	
Bellows:	N08825/316L
SRSE-CR7-CR8-CR9(TK)-200	

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Type Approval Certificate

Nominal Diameters (mm):	DN200
Ply thickness (mm):	0.8
Construction Details:	2 plies Unreinforced
Design Pressure (MPa):	0.1
Temperature Range (˚C):	-196~+45
Materials:	
Bellows:	N08825/316L

SRSE-CR10(TK)-400

Nominal Diameters (mm):	DN400
Ply thickness (mm):	0.8
Construction Details:	2 plies Unreinforced
Design Pressure (MPa):	0.1
Temperature Range (˚C):	-196~+45
Materials:	
Bellows:	N08825/316L

SRSE-CR11-CR21(TK)-200

Nominal Diameters (mm):	DN200
Ply thickness (mm):	0.5
Construction Details:	3 plies Unreinforced
Design Pressure (MPa):	0.1
Temperature Range (˚C):	-196~+45
Materials:	
Bellows:	N08825/316L

SRSE-CR12(TK)-200

Nominal Diameters (mm):	DN200
Ply thickness (mm):	0.8
Construction Details:	2 plies Unreinforced
Design Pressure (MPa):	0.1
Temperature Range (˚C):	-196~+45

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Type Approval Certificate

Materials:	
Bellows:	N08825/316L
SRSE-CR13(TK)-200	
Nominal Diameters (mm):	DN200
Ply thickness (mm):	0.8
Construction Details:	2 plies Unreinforced
Design Pressure (MPa):	0.1
Temperature Range (˚C):	-196~+45
Materials:	
Bellows:	N08825/316L
SRSE-CR15(TK)-200	
Nominal Diameters (mm):	DN200
Ply thickness (mm):	0.5
Construction Details:	3 plies Unreinforced
Design Pressure (MPa):	0.1
Temperature Range (˚C):	-196~+45
Materials:	
Bellows:	N08825/316L
SRSE-EB(HDC)-600-02	
Nominal Diameters (mm):	DN600
Ply thickness (mm):	0.8
Construction Details:	3 plies Unreinforced
Design Pressure (MPa):	1.0
Temperature Range (˚C):	-196~+80
Materials:	
Bellows:	N08825/316L
Flange:	F316L

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Additional Tests

The following tests are carried out on representative samples:

1. Bursting test at five times the design pressure.
2. Hydraulic pressure test at the minimum design temperature and twice the design pressure at extreme displacement conditions (cryogenic test).
3. Cyclic test (thermal movements).
4. Cyclic fatigue test (ship deformation).

Other Conditions

1. Plans showing full details of construction with design conditions specified for the bellows intended duty in a specific piping system for a specific ship are to be submitted for approval.
2. The bellow intended to be used for systems covered by IGC Code, is to have a minimum design pressure in accordance with the requirements of IGC Code 5.4.1.
3. Welding and non-destructive testing are to be in accordance with Part 5, Chapter 17 of the Rules, to the attending Surveyor's satisfaction.
4. The dimensions and materials of flanges, gaskets and bolting, and the pressure-temperature rating of the bolted flanges in pressure pipelines, in accordance with national or other established standards.
5. The austenitic stainless steel expansion bellows are not recommended for salt-water services as they are prone to pitting, particularly in polluted waters, as per Part 5, Chapter 12, Section11.3.4 of LR Rules.
6. Expansion bellows are to be protected against over extension and compression. The adjoining pipes are to be suitably aligned, supported, guided and anchored. Where necessary, expansion bellows are to be protected against mechanical damage.
7. Fatigue life are to be calculated in accordance with standards of EJMA to meet purchasers' specifications for individual products.
8. The requirement for design temperature below -165 ˚C shall be specially agreed with the Flag Administration in accordance with Chapter 6,Table 6.4 of the IGC Code.

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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 LR2481496TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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