



Lloyd's
Register

Type Approval Certificate Extension

This is to certify that Certificate No. 91/ 00235(E4) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Duro Dakovic Kompenzatori d.o.o.
PLACE OF PRODUCTION	Dr. Mile Budaka 1 35000 Slavonski Brod Croatia
DESCRIPTION	Double metal expansion bellows
TYPE	SB 8148; SB 8146; SB 8145; SB 8147; SB 8499 Types A & B; SB 8498.
APPLICATION	Suitable for marine, offshore and industrial pipework systems, subject to the following restrictions for marine use: SB 8148, SB 8146, SB 8145 & SB 8147: Exhaust gas systems. SB 8499: Type A: Fresh water and lubricating oil Type B: Steam and crude oil For marine and offshore piping systems, the bellows qualify for Class III piping systems except as follows:- Steam above 7 bar or 170°C Class II Crude oil above 7 bar or 60°C Class II SB 8498: Sea water systems.
Certificate No.	91/ 00235(E5)
Issue Date	8 November 2016
Expiry Date	20 June 2021
Sheet	1 of 2



M.H.M.Rila
Southampton Technical Support Office
Marine & Offshore Lloyd's Register

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RATINGS

	Nominal diameter (mm)	Max. working pressure (bar)	Max. working temperature (°C)
SB 8148	1300 to 2000	1	500
SB 8146	1300 to 2000	1	500
SB 8145	65 to 1200	1	500
SB 8147	65 to 1200	1	500
SB 8499	50 to 300	6	200
SB 8498	50 to 300	6	100

Refer to Duro Dakovic drawings for exact details of diameters, wall thickness and axial movement.

“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 EMEA of any modification or changes to the equipment in order to obtain a valid certificate.”

The attached Design Appraisal Document No. 91/ 00235(E5) and its supplementary Type Approval Terms and Conditions form part of this Certificate

All other details remain as the previous Certificate No. 91/ 00235(E4) to which this extension should be attached.

Certificate No. 91/ 00235(E5)
Issue Date 8 November 2016
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Sheet 2 of 2

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Southampton Office
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LR0211.2016.06

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