

Type Approval Certificate Extension

This is to certify that Certificate No. 07/00009 for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Bikar Juntas y Compensadores S.L.
PLACE OF PRODUCTION	Estrada Ezkerribai Polígono Industrial Santa Agueda, nave 3 48013 Bilbao Spain
DESCRIPTION	Rubber expansion joints
TYPE	B-FLEX – Floating metallic flange type BF-PPS – Integral rubber flange type
APPLICATION	Expansion joints to overcome expansion in metallic piping systems.
SPECIFIED STANDARDS	Lloyd's Register's Rules and Regulations for the Classification of Ships.
RATINGS	B-FLEX Nominal diameter (mm): 100 to 300 Max. working pressure (bar): 10 Max. temperature (°C): 130 (EPDM rubber) 120 (Nitrile rubber) BF-PPS Nominal diameter (mm): 300 to 900 Max. working pressure (bar): 10

Certificate No.	07/00009(E1)
Issue Date	18 October 2012
Expiry Date	28 January 2017
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RATINGS
(Continued)

Nominal diameter (mm): 900 to 1600
Max. working pressure (bar): 4

Max. temperature (°C): 130 (EPDM rubber)
120 (Nitrile rubber)

OTHER CONDITIONS

Refer to Bikar Juntas data sheets for permissible axial and lateral movements.

The expansion joints are not approved for use in marine applications for flammable liquids or essential services inside machinery spaces or other locations where a source of ignition is present.

"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. 07/00009(E1) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 07/00009 to which this extension should be attached.

Certificate No. 07/00009(E1)
Issue Date 18 October 2012
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Type Approval Certificate Extension

This is to certify that Certificate No. 07/00010 for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Bikar Juntas y Compensadores S.L.	
PLACE OF PRODUCTION	Estrada Ezkerribai Polígono Industrial Santa Agueda, nave 3 48013 Bilbao Spain	
DESCRIPTION	Metallic expansion bellows	
APPLICATION	Expansion bellows to overcome expansion in metallic piping systems.	
SPECIFIED STANDARDS	Lloyd's Register's Rules and Regulations for the Classification of Ships; EMJA 8 th Edition – Standards of the Expansion Joint Manufacturers Association.	
RATINGS	Material:	321 Stainless Steel
	Nominal diameter (mm):	80 to 250
	Max. working pressure (bar):	10
	Nominal diameter (mm):	300 to 400
	Max. working pressure (bar):	6
	Nominal diameter (mm):	450 to 900
	Max. working pressure (bar):	5
	Nominal diameter (mm):	1000 to 1200
	Max. working pressure (bar):	2.5
	Max. temperature (°C):	250

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OTHER CONDITIONS Refer to Bikar Juntas data sheets for permissible axial and lateral movements.

"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. 07/00010(E1) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 07/00010 to which this extension should be attached.

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