

Type Approval Certificate

This is to certify that the undernoted products have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate is issued to:

PRODUCER	Enviromental Gasket Company Ltd. 309# Hanzhongmen Street Gulou Nanjing, 210036 People's Republic of China
PLACE OF PRODUCTION	81# Suyuan Road, Economic Development Zone, Jiangning District, Nanjing, People's Republic of China
DESCRIPTION	Spiral-wound gasket: ID>14 mm, OD<4 m Metal reinforced flexible graphite gasket: ID>8 mm, OD<1.5 m (139A-G) & OD<1.0 m (139H) Flexible graphite gasket: ID>8 mm, OD<1.5 m PTFE gasket/Expanded PTFE gasket: ID>5 mm, OD<1.5 m Non-asbestos fiber compressed gasket: ID>5 mm, OD<2 m Enhanced (Reinforced) modified PTFE gasket: ID>5 mm, OD<1.5 m Rubber gasket(141/142/144/146/147: ID>5 mm, OD<1.5 m)

Certificate No.	13/00088
Issue Date	21 November 2013
Expiry Date	20 November 2018
Sheet	1 of 4


G. Kenneway
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Lloyd's Register EMEA

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TYPE	Spiral-wound gasket - Graphite spiral-wound gasket/ PTFE spiral-wound gasket - DN80 PN4.0 (thickness 4.5mm) with inner retaining ring: AIGI 35 Metal reinforced flexible graphite gasket: AIGI 39 Flexible graphite gasket: AIGI 38 PTFE gasket/Expanded PTFE gasket: AIGI 36/184IM Non-asbestos fiber compressed gasket: AIGI 300IM/350IM Enhanced modified PTFE gasket: AIGI 126 Rubber gasket: AIGI 141 (NBR gasket)/142 (FKM gasket)/ 144 (CR gasket)/146 (EPDM gasket)/147 (MVQ gasket)
APPLICATION	Flanged pipe joints in marine, offshore and industrial piping systems.
SPECIFIED STANDARDS	Spiral-wound gasket - Graphite spiral-wound gasket/PTFE spiral-wound gasket: AIGI 35 - GB/T 4622.3-2007 Metal reinforced flexible graphite gasket: AIGI 39 - JB/T 6628-2008 Flexible graphite gasket: AIGI 38 - JB/T 7758.2-2005 PTFE gasket/Expanded PTFE gasket: AIGI 36/184IM - JB/T10688-2006 Non-asbestos fiber compressed gasket: AIGI 300IM/350IM - GB/T 9129- 2003 Enhanced modified PTFE gasket: AIGI 126 - JB/T10688-2006 Rubber gasket: AIGI 141/142/144/146/147 - GB/T 5574-2008

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Sheet	2 of 4



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RATINGS

Type	Description	Diameter (mm)	Max. working pressure (bar)*	Design temperature (°C)
AIGI 35	Graphite spiral-wound gasket	14 - 4000	300	-250 - 870
	PTFE spiral-wound gasket			-200 - 260
AIGI 39	Metal reinforced flexible graphite gasket	8 - 1500 (139A-G) 8 - 1000 (139H)	140	450 (oxidizing) 870 (non-oxidizing)
AIGI 38	Flexible graphite gasket	8 - 1500	140	450 (oxidizing) 870 (non-oxidizing)
AIGI 36	PTFE gasket	5 - 1500	63	-200 - 260
AIGI 184IM	Expanded PTFE gasket	5 - 1500	210	-268 - 315
AIGI 300IM	Non-asbestos fiber compressed gasket	5 - 2000	110	240
AIGI 350IM		5 - 2000	100	250
AIGI 126	Enhanced modified PTFE gasket	5 - 1500	63	-200 - 260
AIGI 141	NBR gasket	5 - 1500	17	-50 - 120
AIGI 142	FKM gasket	5 - 1500	40	-20 - 200
AIGI 144	CR gasket	5 - 1500	17	-40 - 120
AIGI 146	EPDM gasket	5 - 1500	20	-50 - 150
AIGI 147	MVQ gasket	5 - 1500	20	-55 - 230

* Subject to design of piping system in which gasket is installed being suitable for this pressure.

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MATERIAL

Spiral-wound gasket - Graphite spiral-wound gasket/PTFE spiral-wound gasket: AIGI 35 - Metal / Graphite / PTFE

Metal reinforced flexible graphite gasket: AIGI 39 - Graphite / Metal

Flexible graphite gasket: AIGI 38 - Graphite

PTFE gasket/Expanded PTFE gasket: AIGI 36/184IM - PTFE / Expanded PTFE

Non-asbestos fiber compressed gasket: AIGI 300IM/350IM - Aramid fibre / Special fibre

Reinforced modified PTFE gasket: AIGI 126 - PTFE / Glass fibre

Rubber gasket: AIGI 141 - NBR / 142 - FKM / 144 - CR / 146 - EPDM/ 147 - MVQ

"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 Design Appraisal Document No. 13/00088 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Sheet	4 of 4



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