



Lloyd's
Register

Type Approval Certificate Extension

This is to certify that Certificate No. 18/60008 for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	PBM Inc. 1070 Sandy Hill Road Irwin, PA 15642
PLACE OF PRODUCTION	PBM Inc. 1070 Sandy Hill Road Irwin, PA 15642
DESCRIPTION	Ball Valves & Cryogenic Ball Valves
TYPE	2" CNH-H6 1/2" CPHLC6 1" CPHLE6 1" CPHLE6 (with spring return actuator) 3/4" IBH-F5 (instrument) 1/2" SIH-C9 1" SPE-E5
APPLICATION	Marine piping systems within the defined ratings in the table below. Note that indicated cryogenic valves listed in the rating table below have been subjected to a cryogenic test at stated design temperatures and can be used in cryogenic systems in
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Issue Date	20 May 2019
Expiry Date	17 June 2023
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Andrew Munden
Americas Technical Support Office

 Lloyd's Register

LR031.1.2016.06

pp A. Nash
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marine applications with those defined design temperatures.

STANDARD

-Lloyd's Register Rules and Regulations -Classification of Ships for the Carriage of Liquefied Gases in Bulk, July 2017
 -Cryogenic Test - BS 6364
 -ASME B16.34
 - Lloyd's Register Rules and Regulations - Rules and Regulations for the Classification of Ships, July 2017

RATINGS

Valve Type/Size:	Operating Pressure	Design Temp.
2" CNH-H6**	15 bar	-196°C to 80°C
1/2" CPHLC6**	15 bar	-196°C to 80°C
1" CPHLE6**	15 bar	-196°C to 80°C
1" CPHLE6** (with spring return actuator)	15 bar	-196°C to 80°C
3/4" IBH-F5** (instrument)	370 bar	-196°C to 205°C
1/2" SIH-C9	10 bar	0°C to 50°C
1" SPE-E5	10 bar	10°C to 80°C

Body Material - See Manufacturer's Catalogue
 ** Cryogenic valves

OTHER CONDITIONS

Valves are to be selected and installed in accordance with the manufacturer's recommendations, and Lloyd's Register Rules and Regulations for the Classification of Ships July 2017, Part 5, Chapter 12, Section 6 & Lloyd's Register Rules and Regulations - Rules and Regulations for the Construction and Classification of Ships for the Carriage of Liquefied Gases in Bulk Chapter 5

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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 North America Inc. of any modification or changes to the equipment in order to obtain a valid certificate."

The Design Appraisal Document No. 18/60008(E1) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 18/60008 to which this extension should be attached.

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