



## 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.

<b>Manufacturer</b>	<b>SAMSON REGULATION S.A.S</b>
<b>Address</b>	1-3 Rue Jean Corona, Vaulx-en-Velin, 69120, France
<b>Type</b>	Cryogenic Valves
<b>Description</b>	Butterfly valves
<b>Trade Name</b>	3331
<b>Application</b>	Marine, offshore and industrial fields for LNG service and process systems
<b>Specified Standard</b>	Lloyd's Register's Rules and Regulations for Classification of Ships, 2023; Lloyd's Register's Rules and Regulations for the Construction and Classification of Ships for the Carriage of Liquefied Gases in Bulk, July 2023; ASME B16.34; EN 12516, works standards
<b>Ratings</b>	Sizes DN 100 to 400 Class 150 Temperature range: -196°C to 220°C (pressure/temperature ratings acc. to ASME B16.34 / EN 12516-1) Body material: A351 CF8M

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### Other Conditions

These valves shall not be used where complete shut-off of the process flow is required. The valves covered by this type approval certificate are not designed to hold the full line pressure.

Not to be used for emergency shut-down systems and terminal end valves or means to prevent back-flow of cargo.

Only types and sizes with prototype cryogenic tests are to be used for piping systems which are required to comply with Chapter 5 of Lloyd's Register's Rules and Regulations for the Construction and Classification of Ships for the Carriage of Liquefied Gases in Bulk.

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 HPC 2261035, Issue No. 0 and its supplementary Type Approval Terms and Conditions form part of this Certificate.