

## 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>	Globe Control Valves
<b>Trade Name</b>	3241
<b>Application</b>	Marine, offshore and industrial fields for cryogenic applications.  <u>Restrictions:</u> 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.
<b>Specified Standard</b>	Lloyd's Register's Rules and Regulations for Classification of Ships, 2021; Lloyd's Register's Rules and Regulations for the Construction and Classification of Ships for the Carriage of Liquefied Gases in Bulk, July 2021; ASME B16.34; EN 12516

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### Other Conditions

The manufacturer's instructions for material selection and installation are to be sought. Material A351 CF8M is not to be used for welded connections in marine environment. Only the low carbon types  $C \leq 0.03\%$  are to be used here.

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.

**Previous Version:** 19/20053

The Design Appraisal Document HTS/ENS 39477-19, Issue No. 1 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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## **Appendix**

### **RATINGS**

#### **For cryogenic industrial service**

sizes: ½" to 6", Class 150/300

body/extension/bonnet material: casting A351 CF8M/A351 CF3M;

forging bar A182 F316L-316L/A479 316-316L

#### **For LNG service and process gas systems\***

sizes: 1", 2", 3" and 4", Class 150/300;

DN25, PN40;

body/extension/bonnet material:

forging bar A182 F316L-316L/A479 316-316L

\*) other sizes on request require additional cryogenic type tests

Temperature range: -196°C to 450°C

(pressure/temperature ratings acc. to ASME B16.34 / EN 12516-1)