

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Pressure Regulator**

with type designation(s)

NS 93R-2: Primary Pressure Regulators

Issued to

**Nakakita Seisakusho Co., Ltd.
Daito, Japan**

is found to comply with

DNV GL rules for classification – Ships Pt.4 Ch.6 Piping systems**Application :****Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.****Max. Temperature: 200 °C****Primary working pressure: 0.5 bar up to 10 bar****Sizes: DN20 up to DN150**Issued at **Hamburg** on **2018-09-10**This Certificate is valid until **2023-09-09**.for **DNV GL**DNV GL local station: **Kobe**Approval Engineer: **Christian Kaemmer**

**Olaf Drews
Head of Section**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Job Id: **262.1-025961-1**
Certificate No: **TAP00001EG**

Product description

Primary pressure regulating valve consisting of main parts:
Valve body, cover, bellows case, spring, valve, valve seat.

The primary pressure regulating valve NS 93R-2 is type-approved for the use in pipe class III.

Part Name	Material
Body, Cover	FC 200
Spring	SWOSC-B/V or SUP10
Bellows case	FC200
Valve, Valve seat	SUS403, SUS304

Type Approval documentation

Production testing

The pressure regulating valve shall be subject to a pressure test at 1.5 times the maximum working pressure and shall be delivered with the pressure test report with reference to the type approval certificate.

Marking of product

For traceability to this type approval, each actuator is to be marked with:

Manufacturer's name
Type, Size
Maximum working pressure M.A.W.P.
Maximum allowable working temperature

Periodical assessment

For retention of the type approval certificate periodical assessments shall be carried out at production places by DNVGL surveyor.

The objective of the periodical assessment is to verify that the design and production conditions for the type approval have not been altered.

Main scope of the assessment:

- verification of the production and quality control system
- review of quality control documentation of recent deliveries
- review of drawings in production to verify any design changes which may have an impact on data specified in the type approval certificate, performance and range of application
- verification of the product marking

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.