

TYPE APPROVAL CERTIFICATE

This is to certify:

That the GS-Control Valve Unit

with type designation(s)
GS Valve Types 8030 GS1 and GS3

Issued to

Schubert & Salzer Control Systems GmbH
Ingolstadt, Germany

is found to comply with

DNV GL rules for classification – Ships
DNV GL rules for classification – Ships Pt.4 Ch.6 Piping systems

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Issued at **Hamburg** on **2020-09-28**

This Certificate is valid until **2025-09-27**.

DNV GL local station: **Augsburg**

Approval Engineer: **Frank Poetsch**

for **DNV GL**

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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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

Control Valve 8030 GS1 and GS3 series – Motor valve for control and switching of neutral through to highly aggressive media (sliding gate control valves).

Application/Limitation

Body design	Wafer type
Size range	DN 15 to DN 100
Nominal pressure	PN 40, ANSI 150, ANSI 300
Fluid temperature/Body temperature	1.4404/1.0619: -10°C to +300°C 1.4404/1.4408: -55°C to +350°C
Ambient temperature	0°C up to +60°C; -20°C up to +60°C with heating resistor element
Rangeability	40 : 1
Leakage rate	< 0,0001 % of Kvs-value (disc pair: carbon-stainless steel) <0,0005% of Kvs-value (disc pair: SFC or HMC) <0,001% of Kvs-value (disc pair: STN2)
Driving force of motor	0,9 kN; 2 kN; 4,5 kN
Connections	24V AC/DC; 110/120V AC; 230V AC; 400V 3-phase-AC
Protection class	IP 65 (0,9 kN; 2 kN, 4.5 kN)

The sliding gate motor valve of type 8030 is type approved for application in ship piping systems of pipe class I, II and III (Pt4 Ch6 Sec1, table 1). Requirements on final inspection and material certificates as specified by the DNVGL Rule set applicable is to be observed.

Type Approval documentation

Tests carried out

Marking of product

The product to be marked with manufacturer's name/trademark and type number identification.

Periodical assessment

For retention of the Type Approval, DNV GL surveyor shall perform a survey every second year and before expiry date of this certificate in order to verify that the conditions of the type approval are complied with.

END OF CERTIFICATE