DNV·GL

Certificate No:
TAP000024X

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Electrically, Mechanically or Pneumatically Operated Valve

with type designation(s)
Solenoid Valves

Issued to
Aventics GmbH
Laatzen, Niedersachsen, Germany

is found to comply with
DNV GL rules for classification – Ships Pt.4 Ch.6 Piping systems
DNV GL class programme DNVGL-CP-0186 – Type approval – Valves

Application :

Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.

Temperature range:	**see following pages**
Max. working press.:	**see following pages**
Sizes:	**see following pages**

Issued at **Hamburg** on **2020-09-24**
This Certificate is valid until **2025-09-23**.
DNV GL local station: **Hamburg**

Approval Engineer: **Christian Kaemmer**

for **DNV GL**

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.

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Product description

Model Type	Designation	Nominal Dia meter	Max working pressure [bar]	Temp-erature range	Materials:
3711100200 3711100220	3/2 way valve; electrical (solenoid), mechanical or pneumatic operation; Type -220 with manual release	DN 25	30 bar	-20°C up to + 70°C	Casing: ENAC-ALSI10MG-ST6 Mount: ENAC-ALSI10MG-ST6 Valve Seat Gasket: NBR
3723130120	3/2 way solenoid valve	DN 20	30 bar	-20°C up to + 65°C	Casing: G-CuZn15Si4 Valve Seat Gasket NBR90
3723522220 3723532220 3723542220	3/2 way solenoid valve With or without electric line box; or with external control air	DN 7	10 bar	-15°C up to + 70°C	Casing: GD-ZNAL4CU1 / ZP5 Valve Seat Gasket: NBR
3723512220 3726632220 R417000138	3/2 way or 5/2 way solenoid valve; spring reset With or without electric line box;	DN 12	10 bar	-15°C up to + 70°C	Casing: AL MG Si 1 F31 Mount: ENAW-6082-ALSI1MGMN
3723572220 R417000147	3/2 way solenoid valve; spring reset With or without electric line box;	DN 25	10 bar	-15°C up to + 70°C	Casing: Al Mg SI 1 Mount: ENAW-6082-ALSI1MGMN; Al Mg SI 1 Valve Seat Gasket: NBR
3420700220	Pilot valve, solenoid/ electrical operation	DN 12	10 bar	-15°C up to + 55°C	Casing: GD-ZnAl4Cu1 Valve Seat Gasket: Viton
3726522220 3726532220	5/2 way solenoid valve with spring reset; With or without electric line box with external control air	DN 7	10 bar	-15°C up to + 70°C	Casing: GD-ZNAL4CU1 / ZP5 Valve Seat Gasket: NBR

3726562220 3726572220 3726582220	5/2 way solenoid valve with spring reset; With or without electric line box with external control air, single-or both-side operated.	DN 7	10 bar		Casing: GD-ZNAL4CU1 / ZP5; EN AW-ALSI1MGMN Mount: GRIVORY HTV-6H1 (PA6T/6I-GF60) Valve Seat Gasket: NBR

The above listed products are Type Approved for use in compressed air systems.

Application/Limitation

Compressed Air / Compressed Air Systems.

Products delivered under this DNV GL type approval 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.

Type Approval documentation

Tests carried out

Marking of product

For traceability to this Type Approval, the products are at least to be marked with:

- Manufacturer´s trade marks “Aventics”
- Manufacturer´s No.
- Material No.
- Date of Manufacturing

Periodical assessment

For retention of the Type Approval, a DNV GL Surveyor shall perform periodical assessment to verify that the conditions for the Type Approval are complied with. Refer to the Class Programme DNVGL-CP-0338, Sec.4.

To check the validity of this certificate, please look it up in https://approvalfinder.dnvgl.com