DNV·GL

Certificate No:
TAP000024M

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Mechanically or Pneumatically Operated Control Valves

with type designation(s)
Directional 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.

© DNV GL 2014. DNV GL and the Horizon Graphic are trademarks of DNV GL AS.

Product description

Model Type	Designation	Nominal Dia meter	Max. working pressure [bar]	Temp-erature range	Materials
3711110100	3/2 way valve with Connections	DN 4	10 bar compressed air 30 bar control air	-25°C up to + 75°C	Casing, Cover: GD-ZNAL4CU1 / ZP5 EN AW-ALSI1MGMN Valve Seat Gasket: NBR
363043…0 3630431000	3/2 way valve / directional valve; operation with roller lever	DN 7	30 bar	-25°C up to + 70°C	Casing: EN AW-ALSI1MGMN Mount: 1.4104 Valve Seat Gasket: NBR
363063…0	3/2 way valve operation with lifter	DN 7	30 bar	-25°C up to + 70°C	Casing: EN AW-ALSI1MGMN Tappet: 1.4104 Valve Seat Gasket: NBR
371030…0	3/2 way valve; Operation with plunger and via compressed air or mineral oil at connection Z; Flange or thread connection	DN 7	40 bar	-25°C up to + 70°C	Casing: EN AW-ALSI1MGMN Lifter: 1.4104 Valve Seat Gasket: NBR
R417002200	3/2 way valve operation with lifter or compressed air	DN 7	30 bar	-20°C up to + 70°C	Casing: EN AW-ALSI1MGMN Lifter: 1.4104 Valve Seat Gasket: NBR
3630040020	4 way valve operation with 2 lifters	DN 7	10 bar	-25°C up to + 70°C	Casing: EN AW-ALSI1MGMN Lifter: 1.4104 Valve Seat Gasket: NBR
3631290000 3631300000	5/2 way valve 3/2 way valve manually operated	DN 7	10 bar	-15°C up to +80°C	Casing: ZNAL4CU1 Lifter: 1.4104 O-ring/gasket: NBR
5710400000	3/2 way valve pneumatically operated	DN 7	10 bar	-25°C up to +80°C	Casing: DIN EN 12844 GD-ZNAL4CU1 / ZP5 Sealing: HNBR
363003…0 3630030010	3/2 way valve operation with various lifter applications	DN 7	10 bar	-15°C up to +80°C	Casing: ZNAL4CU1 Lifter: 1.4104 Valve Seat Gasket: NBR

363007…0 363009…0	3/2 way valve operation with various roller lever, crank applications.	DN 7	10 bar	-15°C up to +80°C	Casing: DIN EN 12844 GD-ZNAL4CU1 / ZP5 Lifter: X14CRMOS17 Valve Seat Gasket: NBR
363010…0	3/2 and 4/3 way valve operation with various crank applications	DN 7	10 bar	-25°C up to +80°C	Casing: ENAW-AIMGSIPB Lifter: X14CRMOS17-QT650 O-ring/gasket: NBR Cover:C15
371020…0 371021…0 371029…0	3/2 or 2/2 way valve; compressed air or mineral oil operated; with various switching pressures; switching medium compressed air or mineral oil	DN 7	10 bar/ 20 bar for port 5	-20°C up to +70°C	Casing: ENAW-6082-ALSI1MGMN Spring-Casing: EN AC-ALSI10MG(A) Valve Seat Gasket: NBR
3710750000 3710750100 3710750300 3710760200 3710760300	3/2 or 5/2 way valve pneumatically operated; with metrical or inch connections with or without spring release	DN 12	16 bar	-25°C up to +70°C	Casing, Cover: EN AW-ALSI1MGMN
R417003217 R417001921 R417001969	3/2 way valve manually operated, various reset modes by Z-connection or push button	DN 7	10 bar	-25°C up to +80°C	Casing: GD-ZNAL4CU1 / ZP5 Lifter: C 9021 O-ring/gasket: HNBR
3630429000	3/2 way valve push button operated	DN 7	10 bar	-25°C up to +80°C	Casing: GD-ZNAL4CU1 / ZP5 Cover: ALSI1MGMN O-ring/gasket: HNBR

***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