Certificate No:
TAP00002CD

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Filter

with type designation(s)
R417000546, R417000237, 3327050000, 3327051000, 4325000200

Issued to
Aventics GmbH
Laatzen, Niedersachsen, Germany

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.

Type:	Max. working temp.:	Working media:	Design pressure:
R417000546	+90°C	Compressed Air	40 bar
R417000237	+90°C	Compressed Air	40 bar
3327050000	+70°C	Compressed Air	30 bar
3327051000	+70°C	Compressed Air	30 bar
4325000200	+80°C	Compressed Air	20 bar

Issued at **Hamburg** on **2021-07-06**
This Certificate is valid until **2026-07-05**.
DNV local station: **Essen**

for **DNV**

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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") 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

Compressed Air Filter. For the use in compressed air systems.
Further accessories available: Indicator and Silencer.

Technical data:

Filter: Type No´s & Designation	**Max. Operating Pressure**	**Material: Housing**	**Material: Container / Filterinsert**
R417000237 FI400-40BAR-G1/2	40 bar	Aluminium anodised	Brass / Sinering Bronze
R417000546 FI400-40BAR-G1	40 bar	Aluminium anodised	Brass / Sinering Bronze
3327050000	30 bar	Steel 11SMNPB30+C-1.0718	Steel 1.0308-E235+N
3327051000	30 bar	Aluminium ENAW-6082-ALSI1MGMN	Steel 1.0308-E235+N
4325000200	20 bar	GD-AL	
Accessories	**Max. Operating Pressure**	**Material**	
Indicator 3530140000 M12X1,5-10BAR	10 bar	X14CRMOS17	
Silencer 8900305090 30BAR-M22X1,5	30 bar	AlMg Si1	

Production place

- Emerson Automation Solutions, Bánki donát utca3, Eger 3300, Hungary

Responsibility

Aventics GmbH, Laatzen takes the responsibility that the design and production of the filters are in compliance with Rules, Standards and/or Regulations listed on page 1 of this certificate.

Application/Limitation

For the use in compressed air systems.

Type Approval documentation

Production testing
All filters shall be subject to a function test.

Tests carried out
Function Test, Air-Pressure Test, Visual Inspection.

Marking of product
For traceability to this Type Approval, the products are to be marked with:

Manufacturer's trade-mark “AVENTICS”
Material Number
Max. Operating Pressure
Manufacturing Date
Country of Origin

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