



# APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:  
**AMT00000G3**  
Revision No:  
**2**

This is to certify:

That the Manufacturer

**Schauenburg Industrietechnik GmbH**  
**Bremen, Germany**

is approved for the

**Assembling of type approved hoses and couplings**

The approval is granted on condition that

**DNV class programme DNV-CP-0183 – Type approval – Flexible non-metallic hoses**

are complied with in all respect

**Hose Non-metallic flexible hose assembly**

Manufacturers approved by this certificate are accepted to deliver according to DNV GL, DNV and GL rules.

Issued at **Hamburg** on **2023-10-12**

for **DNV**

This Certificate is valid until **2026-10-11**.

DNV local unit: **Hamburg – CMC North/East**

Approval Engineer: **Christian Kaemmer**

.....  
**Sven Klinger**  
**Head of Section**

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.

This Certificate is subject to terms and conditions overleaf. Any significant change in production facilities and methods may render this Certificate invalid.



Form code: AM 301

Revision: 2022-12

[www.dnv.com](http://www.dnv.com)

Page 1 of 3

## Approval basis

The below listed hose assemblies are type approved according to the specifications/technical data mentioned in Type Approval Certificates:

Manufacturer	Flexible hose	Type Approval No.
<b>Danfoss</b>	2807, S-TW 2651 EC110; EC210 EC115; EC115S; EC215; EC215S EC881, EC881B FC234 FC300 FC310 FC350 FC510 GH195 GH425, GH425B GH466 GH506 GH663 GH681; GH681B; H180 GH781; H280	TAP00000U7 TAP00000DT TAP00001T7 TAP00001KS TAP000016W TAP00001CD TAP00000Y7 TAP00000GA TAP00000BC TAP00000BD TAP00001FD TAP00001MT TAP00000GC TAP00000DN TAP00000GD TAP0000116 TAP00000DM
<b>Parker</b>	2020N; 2244N; 2245N 372; 372TC 462; 462TC; 462ST; 492; 492TC; 492ST 301SN/301TC; 421SN H29; H29TC; H29ST; H31; H31TC; H31ST R42; R42TC; R42ST 221FR	TAP00001M6 TAP000016X TAP000000E  TAP000013G TAP000016Y  TAP000016Z TAP000013R
<b>PH-Hydraulik</b>	1SN; 2SN; 1SC; 2SC; 4SP; 4SH; R13; R15	TAP00001XV
<b>Manuli</b>	Rockmaster/13; Rockmaster/4SH; Rockmaster/4SP; Rockmaster/2SC; Rockmaster/1SN; Rockmaster/2SN; Astro/3; Infinity Equator/2 (Blue); Astro/2; Rockmaster/15	TAP000002E      TAP00000BG
<b>ZEC S.p.a</b>	AT8S; MTH1LT; MTK; MTKM; OL7; VE8; VE 8M; HOG	TAP00000YN
<b>Alfagomma</b>	Flexor 1SN/1AT-HF (Greenline plus 122); Flexor 2SN/2AT-HF (Greenline plus 222); 1SN MINETUFF (1SN HI-TUFF); 2SN MINETUFF (2SN HI-TUFF) Flexor 1SN HF (122 Greenline Plus); Flexopak 2 (Superslimline 241T); Flexor 2SN/HF-DH222 (222 Greenline Plus) Flexopak2 & Flexopak2 Supertuff (Super Slimline 241T & Super Slimline 241X TUFLEX); Flexopak2SC HF (Slimline Plus 221T/221G; ARGUS 2SC), Flexopak 1SC (Slimline Plus 121T/ARGUS 1SC)	TAP000002W  TAP000000R  TAP00000YK
<b>Vitillo</b>	Tekno/2SN; Teknospir/4SP; Teknospir/4SH	TAP0000281

The selection of the hose assemblies for the corresponding application and the right installation are to be in accordance with the specifications of the manufacturer.

## Production place

Ingolstädter Str. 7; 28219 Bremen/Germany

## Documents

- List of Hose-types to be approved
- Draft Test Plan
- Burst Pressure Test Reports effected dated 2020-07-28
- Type Approval Assessment Report dated 2020-07-28

### AMT00000G3 rev 2 :

- Burst pressure test reports dated 2023-09-21
- Type Approval Assessment Report dated 2023-09-21

## Marking

For identification and traceability purposes, each hose assembly permanently marked as required by the respective Type Approval Certificate.

## Production testing

Each manufactured hose assembly is subject to a pressure testing as required by the relevant regulation and as marked on the hose assembly Type Approval Certificate, but at least in accordance with the respective DNV Rules, with 1.5 times the maximum working pressure.

## Remark

For determination of the maximum working pressure of the hose assembly both, the maximum operating pressures of the hose end fitting and hose type, as specified in the latest manufacturer product catalogues, are to be considered.

## Product certification

In case of orders according to GL Rules, a DNV product certificate of the manufactured and pressure tested hose assemblies issued by DNV is mandatory.  
Otherwise, a 3.1 customer Work Certificate is required and sufficient.

## Certificate Retention Survey

The approval is valid for three years. To maintain the approved status, the manufacturer must be reinspected every three years. Application for renewal should be made not later than three months before the expiry date of the certificate.

Any alteration to the approved condition during the period of validity, e.g. method of manufacture, maximum dimensions or conditions of supply, is to be reported to the Society.

A re-inspection and/or re-testing may be required when deemed necessary by the Society.