

APPROVAL OF MANUFACTURER CERTIFICATE

Certificate No:
AMT00000G3
Revision No:
1

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 GL class programme DNVGL-CP-0183 – Type approval – Flexible hoses

are complied with in all respect

Hose	Non-metallic flexible hose assembly
Type	see table page 2
Size	see table page 2
Standard	see table page 2

Manufacturer(s) approved by this certificate is/are accepted to deliver according to DNV GL, DNV and GL rules.

Issued at **Hamburg** on **2020-08-13**

This Certificate is valid until **2023-07-28**.

DNV GL local station: **Hamburg CMC**

for **DNV GL**

Approval Engineer: **Christian Kaemmer**

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



Job Id: **263.11-006858-3**
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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.
Eaton	GH425 GH195 EC881 EC110; EC210 FC234 GH681; GH681B FC300 FC310 2781; GH781; GH793 GH506 GH663 2681 FC350 FC510 2755 2755B GH507 GH466 2681-4 CO2 2681-8 CO2 GH200 2781 CO2 SH681 150901 2651; 2652 GH 194 with Fire Sleeve GH681; GH681B	TAP00001MT TAP00001FD TAP000016W TAP00001T7 TAP00001CD TAP0000116 TAP00000Y7 TAP00000GA TAP00000DM TAP00000DN TAP00000GD TAP00000DS TAP00000BC TAP00000BD TAP00000DR TAP00000F5 TAP00000AM TAP00000GC TAP00000G5 TAP00000G8 TAP00000DK TAP00000G9 TAP00000GM TAP00000EB TAP00000E5 TAP00000E5 TAP0000116
Parker	221FR 372 462; 492 301SN -2SN; 421SN - 1SN H29-4SH; H31-4SP R42; R42TC; R42ST 2020N; 2244N; 2245N	TAP000013R TAP000016X TAP000000E TAP000013G TAP000016Y TAP000016Z TAP00001M6
PH-Hydraulik	1SN; 2SN; 1SC; 2SC; 4SP; 4SH; R13; R15	TAP00001XV
Manuli	Astro 2 Astro 3 with Firesleeve Equator1 & 2; Rockmaster 2plus, Tractor 1SN Tractor 1SC Rockmaster 13; Rockmaster 4SH; Rockmaster 4SP Rockmaster 2SC; Rockmaster 2SN; Tractor 2SN	93737-89 HH TAP000023X TAP00000BG TAP00000FZ TAP000002E TAP000002D
ZEC S.p.a	AT8S; MTH1LT; MTK; MTKM; OL7; VE8; VE 8M; HOG	TAP00000YN

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.
 Reference is made to the applicable Type Approval Certificates as listed above.

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Production place

Ingolstädter Str. 7; 28219 Bremen/Germany

Documents

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 GL 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 GL-product certificate of the manufactured and pressure tested hose assemblies issued by DNV GL 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.