

Certificate No: AMT000032

## APPROVAL OF MANUFACTURER CERTIFICATE

This is to certify: That the Manufacturer **DIM Industrieservice Nord GmbH** Stralsund Mecklenburg-Vorpommern, Germany

is approved for the Assembling of type approved hoses and couplings

The approval is granted on condition that DNV GL rules for classification – Ships DNV GL class programme DNVGL-CP-0183 – Type approval – Flexible hoses

are complied with in all respect

# HoseNon-metallic flame resistant hydraulic hose assembliesTypeRefer to page 2 of this certificateSizeDN 6 - 51StandardReference is made to the applicable Type Approval Certificate TAP000002W

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

This Certificate is valid until **2019-10-18**. Issued at **Hamburg** on **2016-10-19** 

for **DNV GL** 

Approval Engineer: Martin Zeller

DNV GL local station: Rostock

Olaf Drews Head of Section

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

Job Id: 263.11-006480-1 Certificate No: AMT0000032

### **Approval basis**

The hose assemblies of type 'ALFAGOMMA' are type approved according to the specifications/technical data mentioned in Type Approval Certificates:

#### TAP000002W, TAP000000R

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.

#### Description

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

Hose type:	Flexor 1SN/1AT-HF Flexor 2SN/2AT-HF 1SN MINETUFF 2SN MINETUFF 1 SN HF Flexor 4SH MSHA AT6K/R15	(Dunlop Hiflex: Greenline Plus 122) (Dunlop Hiflex: Greenline Plus 222) (Dunlop Hiflex: 1SN H1-TUFF) (Dunlop Hiflex: 2SN H1-TUFF) (Dunlop Hiflex: Greenline Plus 122) (Dunlop Hiflex: POWERTRAK 790) (Dunlop Hiflex: POWERTRAK 420)
Nominal Size:	DN 6 up to DN 51	

- Audit report no.: A0328847 dated on 2016-09-14

- Checklist for renewal of approved manufacturers 20.96a dated on 2016-09-07

#### Marking

For identification purposes, each hose assembly, hose and fitting respectively shall be at least marked with: – Manufacturer's name or trade mark – DN – PN – ID No. –

#### **Production testing**

Each manufacturered hose assembly is to be subjected to a hydraulic pressure test in accordance to the purchaser specifications, at least in accordance with the respective DNV GL Rules as follows:

DNV GL	1.5 x Maximum Allowable Working Pressure (MAWP)
DNV	1.5 x MAWP
GL	2.0 x MAWP

#### 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 Alfagomma catalogue, is 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.

#### **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.