

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Flexible hoses of non-metallic material without permanently fitted couplings**

with type designation(s)

**PARKER 701 NO-SKIVE HOSE, CORRESPONDING TO DIN EN 856 [4SP], FLAME RESISTANT
HYDRAULIC HOSES IN ACC. WITH ISO 15540**

Issued to

**Parker Hannifin Manufacturing S.r.l.
Veniano CO, Italy**

is found to comply with

DNV GL rules for classification – Ships**DNV GL class programme DNVGL-CP-0184 – Type approval – Flexible hoses with permanently
fitted couplings****Application :****Products approved by this certificate are accepted for installation on all vessels classed by
DNV GL.**

Temperature range:	-40 [°C] to 100 [°C] depending on media used, max. 70 [°C] for air, max. 85 [°C] for water-glycol and water -oil emulsion
Max. working press.:	185 bar up to 415 bar
Sizes:	DN 12 up to DN 40

Issued at **Hamburg** on **2017-02-16**This Certificate is valid until **2022-02-15**.for **DNV GL**DNV GL local station: **Milan**Approval Engineer: **Peter Gierhan**

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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.



Job Id: **262.1-024502-1**
Certificate No: **TAP00000TU**

Production Place

Hose manufacturer:

Parker Hannifin Manufacturing S.r.l.
Veniano CO
Italy

Coupling manufacturer:

Parker Hannifin Manufacturing Germany GmbH & Co. KG
FLUID CONNECTORS GROUP –
HOSE PRODUCTS DIVISION –
Freiherr-vom-Stein-Strasse
35325 Mücke
Germany

Product description

Technical Data :

Inner tube: synthetic rubber
Reinforcement: four steel wire spirals
Cover: synthetic rubber
Crimbed fittings: serie 70

Application/Limitation

Size range [DN]: 12 16 20 25 32 40
Pressure range [bar]: 415 350 350 280 210 185
Temperature range: -40 [°C] to 100 [°C] depending on media used
max. 70 [°C] for air, max. 85 [°C] for water-glycol and water -oil emulsion

Range of Application

The a.m. hose sizes of 2807 /S-TW are approved for use in:

- Fuel oil, lubricating oil and hydraulic oil systems
- Bilge and seawater systems
- Fresh and seawater cooling systems
- Secondary piping systems
- Compressed air systems**

**Pin prick cover is required for air or gas applications above 17 [bar].

The hose assemblies covered by this type approval may be assembled and delivered by other than the certificate holder under the following conditions.

- The assembler is authorised by a written authorization from the certificate holder. The certificate holder shall keep record of all assembler authorisations.
- Hose assemblies are in accordance with an assembly procedure issued by the certificate holder and the assembler has proved their qualifications by burst testing of a selection of hose/coupling combinations.
- Selection of sizes and testing is to be performed in compliance with the DNVGL CP 0183 and the testing is to be witnessed by DNV GL.

All hose assemblies delivered under this type approval certificate shall be in compliance with an assembly procedure issued by the certificate holder.

Each hose assembly is before delivery to be hydraulic pressure tested to 1.5 times the maximum

working pressure and shall be delivered with manufacturer's pressure test certificate.
Flexible hoses are only to be used where it is necessary due to vibrations or flexible mounting of the machinery. The hoses shall not replace/be used where permanent piping is possible/required.
The hoses must only be fitted in places where they are always accessible.
The hoses are not to be used for suction.
Flexible hoses of these types are not to be used in boiler fronts.
The hoses are to be mounted in accordance with the manufacturer's instructions.
It must be possible to shut off from the system all flexible hoses used in systems for petroleum base hydraulic oil. Hose assemblies with couplings made of carbon steel are not to be used at temperatures below -10°C unless the material is normalized.
The use of hose assemblies is not permitted in permanently pressurized starting air lines of diesel engines

Type Approval documentation

Proof pressure test, Change in length test, Burst test, Pressure pulsation test, Fire test, Dimensional Check test, Cold Flexibility test, Oil Resistance test, Cover Adhesion test, Ozone resistance test.
GL Cert.-No.: 90856-84 HH

Tests carried out

DNV GL class programme CP 0183 - Type Approval of flexible hoses non-metallic materials

Marking of product

For traceability to this type approval the products are to be marked with:

- Manufacturers name or trade mark
- Type designation

Periodical assessment

For retention of the Type Approval, a DNV GL Surveyor shall perform a survey every 30 month, to verify that the conditions for the type approval are complied with and to witness the following tests on a selection of sizes:

- Dimensional check.
- Change in length
- Leakage test
- Burst test

The tests shall be performed in accordance with procedures given in DNV GL Type Approval Program "Type Approval of Flexible Hoses of Non-Metallic Material" or another recognized standard.
The tests are to be performed with the type of couplings fitted that are Type Approved with the hoses.

END OF CERTIFICATE