

TYPE APPROVAL CERTIFICATE

Certificate no.:
TAP00001HF
Revision No:
1

This is to certify:

that the Flexible Hoses of Non-Metallic Material with Permanently Fitted Couplings

with type designation(s)
Danfoss 2807

issued to

Danfoss Power Solutions II, LLC
Van Wert, OH, USA

is found to comply with

DNV rules for classification – Ships Pt.4 Ch.6 Piping systems

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

Application:

Products approved by this certificate are accepted for installation on all vessels classed by DNV.

Temperature range: -73°C up to +260°C

Max. working press.: 241 bar / 3500 psi

Sizes: 0.19" up to 1,13 "

Issued at **Hamburg** on **2024-02-22**

This Certificate is valid until **2029-02-21**.

for **DNV**

DNV local unit: **Certification & Inspection Services**

Approval Engineer: **Christian Kaemmer**

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

2807-Series:

Extruded PTFE inner tube with full coverage of a single stainless steel braid reinforcement.
Fire resistant acc. to ISO 15540.

Couplings:

FC9779 crimp fitting; E-Series carbon steel crimp; ER-Series stainless steel crimp fitting

Size and pressure range:

Part number	Coupling	Hose ID		Maximum working pressure	
		[inches]	[mm]	[psi]	[bar]
2807-4	FC9779-xxxx	0.19	4.8	3000	207
2807-5	FC9779-xxxx	0.25	6.4	3000	207
2807-6	FC9779-xxxx	0.31	7.9	2500	172
2807-8	FC9779-xxxx	0.41	10.3	2000	138
2807-10	FC9779-xxxx	0.50	12.7	1500	103
2807-12	FC9779-xxxx	0.63	15.9	1200	83
2807-16	FC9779-xxxx	0.88	22.2	1000	69
2807-20	FC9779-xxxx	1.13	28.6	625	43
2807-4	03E-xxx	0.19	4.8	3500	241
2807-6	05E-xxx	0.31	7.9	2750	190
2807-8	07E-xxx	0.41	10.3	2250	155
2807-10	08E-xxx	0.50	12.7	2000	138
2807-12	10E-xxx	0.63	15.9	1500	103
2807-16	14E-xxx	0.88	22.2	1200	83

Production places

- Eaton, 8171 Planer Mill Road, Middlesex, North Carolina 227557, USA.
- Danfoss Power Solutions II, LLC, 1225 W. Main Street, Van Wert, Ohio, USA.
- Danfoss Power Solutions II GmbH, Dr. Reckeweg Str.1, D-76490 Baden-Baden, Germany

Responsibility

Danfoss Power Solutions II, LLC, Van Wert, OH, USA, takes the responsibility that the design and production of the hoses, hose end fittings and manufacturing of hose assemblies are in compliance with Rules, Standards and/or Regulations listed on page 1 of this certificate.

Application/Limitation

Hose assemblies covered by this Type Approval Certificate are type-approved for fuel and lube oil, water, steam, compressed air, sanitary and cooling water.

Flexible hoses are only to be used in short lengths 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.

Installation

The hose assemblies must only be fitted in places where they are always accessible. Flexible hoses are not to be used on boiler fronts. It must be possible to shut off from the system all flexible hoses used in systems for compressed air, fresh water cooling applications, lube oil, fuel oil and petroleum base hydraulic oil.

For temperatures below 0°C the supplementary material requirements acc. to DNV-Rules "Ships /Metallic Materials" Part 2 chapter 2 section 5 item 4 are to be observed.

Type Approval documentation

Tests carried out

Production testing

All hose assemblies shall be subject to a pressure test at 1.5 times the maximum working pressure and shall be delivered with the pressure test report with reference to the type approval certificate.

Marking of product

For traceability to this type approval, each hose assembly is to be marked with:

Manufacturer's name
Type, Nominal Diameter
Maximum working pressure M.A.W.P.
Date Code
Temperature Rating

Periodical assessment

For retention of the Type Approval, a DNV Surveyor shall perform periodical assessment to verify that the conditions for the Type Approval are complied with. Refer to the Class Programme DNV-CP-0338, Sec.4.

To check the validity of this certificate, please look it up in <https://approvalfinder.dnv.com>