



TYPE APPROVAL CERTIFICATE
No. MAC166124XL

This is to certify that the product identified below satisfies the requirements of the standard quoted under "Reference standard"

<i>Description</i>	Non metallic flexible hoses
<i>Type</i>	FC234
<i>Applicant</i>	Danfoss Power Solutions II, LLC 1225 West Main Street 45891 Van Wert (Ohio) U.S.A.
<i>Manufacturer</i>	Danfoss Power Solutions II, LLC
<i>Place of manufacture</i>	1225 West Main Street 45891 Van Wert (Ohio) U.S.A.
<i>Reference standards</i>	Part C, Chapter 1, Section 10 of RINA Rules

Issued in **Rio de Janeiro** on **June 3, 2025**. *This Certificate is valid until* **June 2, 2030**



Carolina Vasconcellos Teles
RINA Services S.p.A.
Carolina Vasconcellos Teles

This certificate consists of this page and 1 enclosure



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Reference Documents:

Assembly Drawings Flexible Hose - RJUM/9996

Certificates Flexible Hose - RJUM/9997

Test Reports - RJUM/9998

Technical Characteristics:

Part number	DN	I.D. nom. [mm]	Max. working pressure [bar]	Min. bending radius [mm]
FC234-05	6	6.4	103	25.4
FC234-06	8	7.9	103	31.8
FC234-08	10	10.3	86	44.5
FC234-10	12	12.7	86	57.2
FC234-12	16	15.9	52	69.9
FC234-16	22	22.2	28	89.9

Temperature range: - 40 °C to + 150 °C

Materials:

Item	Material
Hose	Flexible non-metallic
Fitting 1	4411 Series (Field Attachable)
Fitting 2	100R5 FJ Series (Permanent crimp)
Hose Specification	SAE J1527
Fitting 1 / 2 Specification	SAE J517

Fields of Application:

Diesel fuel, gasoline, hot lube oil, and water.

Tests Carried Out:

Dimensional test, proof pressure test, change of length test, burst pressure test, impulse test, hydraulic leakage.

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Acceptance Conditions:

The installation of this product is to be in accordance with the Manufacturer's instructions.
Flexible hoses are to be limited to a length necessary to provide for relative movements between fixed and flexibly mounted items of machinery/equipment or systems.
Flexible hose are not to be installed where they may be subjected to torsion deformation (twisting) under normal operating conditions.
The maximum working pressure is not to exceed one quarter of the burst pressure at the service temperature.

Remarks:

This product is to be entirely assembled in the manufacturer's workshop.
This product is to be permanently marked with the following details:
Manufacturer's name or trade mark, date of manufacture, designation type reference, nominal diameter, maximum design pressure, maximum and minimum design temperatures.

RINA Brazil Plan Approval Centre
May 22, 2025