



TYPE APPROVAL CERTIFICATE
No. **MAC548524CS**

This is to certify that the product identified below is in compliance with the regulations herewith specified.

<i>Description</i>	Non metallic flexible hoses
<i>Type</i>	R42 - R42TC - R42ST
<i>Applicant</i>	PARKER HANNIFIN MANUFACTURING SRL VIA G.B. PIRELLI, 6 22070 VENIANO (CO) ITALY
<i>Manufacturer</i>	PARKER HANNIFIN MANUFACTURING SRL
<i>Place of manufacture</i>	VIA G.B. PIRELLI, 6 22070 VENIANO (CO) ITALY
<i>Reference standards</i>	RINA Rules for the Type Approval of Flexible Hoses and Expansion Joints

Issued in **Genoa** on **March 11, 2025**. *This Certificate is valid until* **March 10, 2030**

RINA Services S.p.A.
Rosario Pitruzzo

This certificate consists of this page and 1 enclosure

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Reference documents

Parker Catalogue No. Catalogue 4400/UK

Test Report and product datasheet filed with letter PPVT/2025/227/NP008.

Reference Standard

ISO 3862 - R15.

Materials/components

Lining:

Synthetic rubber, oil resistant.

Reinforcement:

Four or six spirals of high tensile steel wire, separated by a synthetic rubber layer.

Cover:

Synthetic rubber, oil and weathering resistant.

TC = Tough Cover - highly abrasion resistant;

ST = Super Tough Cover - extreme abrasion resistant.

End fittings:

Carbon or stainless steel - series V4 (dimensions from -10 to -16), series V6 (dimensions from -20 to -32).

Technical characteristics

Maximum allowable working pressure at ambient temperature according to the following table:

Item	Nominal Diameter (mm)	Inside Diameter (mm)	Max. working pressure (MPa)
-10	16	15,9	42,0
-12	20	19,1	42,0
-16	25	25,4	42,0
-20	32	31,8	42,0
-24	40	38,1	42,0
-32	50	50,8	42,0

Working temperature: from -40°C to +125°C.

Field of application

Hydraulic systems with a hydraulic oil having a flash point not less than 150°C (closed cup test).

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Tests carried out

Burst test (Test Report No. 14/GE/1387/01 dated 15/07/2014 of RINA Genoa Office).

Acceptance conditions

The installation on board of the piping system is to be carried out by qualified personnel in accordance with the manufacturer's instructions.

The flexible hoses are to be installed in order to satisfy the requirements of para. 5.9.3 of Part C, Ch 1, Sec 10 of RINA Rules.

The acceptance of the a.m. products on board ships and other units classified with RINA is subject to the satisfactory outcome of testing as per RINA Rules.

For hoses assemblies to be used at temperatures below -10°C, couplings in stainless steel or normalized carbon steel are to be used.

The product (hose and fittings) is to be marked, for traceability, with the following data: nominal diameter, design conditions, Manufacturer's name or trademark, designation type reference.

Remarks

This certificate annuls and replaces the previous ones No. MAC256919CS/001 on 18/11/2019.

Genoa March 11, 2025