Certificate No:
TAP00002TD

TYPE APPROVAL CERTIFICATE

This is to certify:

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

with type designation(s)
Parker 919/919B, Parker 929B

Issued to
Parker Hannifin Corporation Parflex Division
Ravenna, OH, USA

is found to comply with
DNV rules for classification – Ships Pt.4 Ch.6 Piping systems
DNV-OS-D101 – Marine and machinery systems and equipment, Edition July 2021
DNV class programme DNV-CP-0183 – Type approval – Flexible non-metallic hoses

Application :

Product(s) approved by this certificate is/are accepted for installation on vessels classed by DNV.

Type:	Temperature range:	Max. working press.:	Sizes:
Parker 919/919B	-54°C to 204°C	see page 2	-4, -6, -8 and -10
Parker 929B	-54°C to 204°C	see page 2	-12 and -16

Issued at **Høvik** on **2025-05-27**
This Certificate is valid until **2030-05-26**.
DNV local unit: **Houston Offshore Services**

Approval Engineer: **Sarah Miller**

for **DNV**

Bosman van der Merwe
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.

Product description

3 types of PTFE hoses (non-fire resistant) with permanently fitted couplings:

1. **Parker Parflex 919** constructed according to SAE 100R14 Type A
   Tube : Natural PTFE
   Reinforcement : Single steel braid of SS 304
   Fittings : Parker Parflex designed 91N Series fittings

2. **Parker Parflex 919B** constructed according to SAE 100R14 Type B
   Tube : Black static-dissipative PTFE
   Reinforcement : Single steel braid of SS 304
   Fittings : Parker Parflex designed 91N Series fittings

3. **Parker Parflex 929B** constructed according to SAE 100R14 Type B
   Tube : Black static-dissipative PTFE
   Reinforcement : Single steel braid of SS 304
   Fittings : Parker Parflex designed 91N Series fittings

Material of construction for end fittings: Stainless steel grades 1.4305, 1.4301, 1.4404, 1.4401 and 1.4571

Hose manufacturing location
Parker Hannifin Corporation, Mansfield, Texas

End fittings manufacturing location
Parker Hannifin Corporation Parflex Division, Ravenna, Ohio, USA

Hose assembling location
Parker Hannifin Corporation Parflex Division, Ravenna, Ohio, USA
Parker Hannifin Corporation, Mansfield, Texas

Application/Limitation

his certificate is valid for the specific assembly of hose and coupling type as specified, assembled and delivered by the holder (named as manufacturer) of this certificate.

Maximum allowable working pressure (MAWP) rating:

Dash Size	Hose Type			Hose Size Nominal ID (inch)	Maximum allowable working pressure	
					bar	psi
4	919-4	-	919B-4	3/16”	207	3000
6	919-6	-	919B-6	5/16”	172	2500
8	919-8	-	919B-8	13/32”	138	2000
10	919-10	-	919B-10	1/2"	103	1500
12	-	929B-12	-	5/8”	83	1200
16	-	929B-16	-	7/8”	86	1250

Hose assemblies covered by this certificate are suitable for use with petroleum base and synthetic base hydraulic fluids within a temperature range of -54°C to +204°C.

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.

Hose assemblies covered by this certificate shall not be used in systems subject to pressure below atmospheric or vacuum condition.

The hose assemblies are not of fire-resistant type and are not approved for installation in piping systems for flammable media and sea water system where failure may result in flooding.

The outer end of the pipe coupling (performing the connection to the fixed piping) is not covered by this certificate and shall follow the below requirements:

- Flanged ends shall be according to a recognized standard.

- Slip-on threaded joints having pipe threads where pressure-tight joints are made on the threads with parallel or tapered joints having pipe threads where pressure-tight joints are made on the threads. Limitations stated in DNV-RU-SHIP Pt.4 Ch.6 Sec.9 [5.2.6] to be followed.
- If these outer ends are going the be part of a mechanical joint as covered by DNV-RU-SHIP Pt.4 Ch.6 Sec.9 [Table 8], then they shall be separately type approved.

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 and must only be fitted in places where they are always accessible.
The hose assemblies must only be fitted in places where they are always accessible.

Production testing

All hose assemblies delivered under the DNV type approval scheme shall be hydrostatically tested to a pressure of 1.5 times the maximum working pressure and shall be delivered with the pressure test report with reference to this type approval certificate.

Type Approval documentation

Tests carried out

Dimensional check test, Proof pressure test, Change in length test, Leakage, Burst pressure test, Cold flexibility test, Impulse test, Specific gravity (applicable for SAE 100R14 Type A) test, Conductivity (applicable for SAE 100R14 Type B) test

Marking of product

For traceability to this Type Approval, the products are at least to be marked with:

- hose manufacturer’s name or trademark;
- date of manufacture (month/year);
- designation type reference;
- nominal diameter;
- pressure rating;
- temperature rating.

Periodical assessment

This certificate is only valid if required periodical assessments are carried out with satisfactory results.

For retention of the Type Approval, a DNV Surveyor shall perform periodical assessment after two years (+/- 90 days) and after 3.5 years (+/- 90 days) to verify that the conditions for the approval are complied with. Reference is made to DNV-CP-0338.

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