

TYPE EXAMINATION CERTIFICATE

This is to certify:**That the Flexible Cement Hose**with type designation(s)
CEM69TC-32

Issued to

**Parker Hannifin Manufacturing S.r.l.
Hose Products Division Europe
Via G.B. Pirelli 6 - 22070 Veniano (CO), Italy**

is found to comply with

API Spec. 7K, Drilling and Well Servicing Equipment, 5th Edition**Application :****CEM69TC-32, DN: 51 mm, Size: 32, Working Pressure: 69.0 MPa, Temperature Range: -20°C to 100°C**Issued at **Esbjerg** on **2017-06-29**for **DNV GL**This Certificate is valid until **2020-06-29**.DNV GL local station: **Milan Verification**Approval Engineer: **Gaetano Ricci**

**Pedersen Lars Henning
Principal Surveyor
Group Leader for OEEDK780**

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 Examination Certificate and not to the approval of equipment/systems installed.



Product description

- HOSE, Parlock Multispiral Cementing Hose dedicate for cementing hose application
- Inner tube: synthetic rubber
- Reinforcement: 6 spirals, high- tensile steel wire
- Fittings: Internal and external skiving V6 Series

Application/Limitation

- CEM69TC-32
- DN: 51mm
- Size: 32
- Working Pressure: 69.0 MPa
- Temperature Range: -20°C to 100°C
- Please consider that this certificate is not valid for products (materials, component or equipment) subjected to DNVGL classification.

Type Examination documentation

- Datasheet - Cement69TC-32 API7K
- 3281 Api 7k CEMENT-32v1.xls (Test Results)
- Parker Test report - Cement69TC-32 API7K
- Application for TE CEM69TC (DNV GL TE application form)
- Calibration certificates
- Cement69TC-32 API7K test report DNV signed
- DNV GL Site Visit Report - 113Z71MH-6_1-155S9UD_CT

Tests carried out

According with API 7K, 5th Edition:

- Deformation test under pressure, sect. 9.6.10.2
- Ambient temperature bending test, sect. 9.6.10.3.1
- Low temperature bending test, sect. 9.6.10.3.2
- Hydrostatic pressure test, sect. 9.6.10.6
- Burst pressure test, sect. 9.6.10.7

Marking of product

Marking of products shall be in accordance with API 7K, 6th Edition sect. 9.6.9.1 and sect. 10. The hoses are to be marked as a minimum:

- Month and year of manufacture
- Rated working pressure
- Test pressure
- Working temperature range
- FSL level

Certificate Retention Survey

For retention of the Type Approval/Examination, DNV GL Surveyor shall perform a survey every second year, to verify that the conditions for the type examination are complied with unless the hoses are regularly certified by DNV GL