

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Flexible Hoses of Non-Metallic Material with Permanently Fitted Couplings**with type designation(s)
PH194-05-010

Issued to

Polyhose India Pvt Ltd.
Tamil Nadu, Indiais found to comply with
ISO 15738:2019 – Ships and marine technology – Maritime safety – Gas inflation systems for inflatable life-saving appliances**Application :****High-pressure hoses with permanently fitted couplings to be used in gas inflation systems for inflatable life-saving appliances.****The certificate is valid for products not subject to DNV GL classification requirements.****Temperature range: -45°C to 65°C**
Max. working press.: 125 bar
Sizes: DN 08Issued at **Høvik** on **2020-05-26**for **DNV GL**This Certificate is valid until **2023-11-18** .
DNV GL local unit: **Mumbai FiS**Approval Engineer: **Andreas Hansen****Zeinab Sharifi**
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.



Job Id: **262.1-025877-2**
Certificate No: **TAP0000172**
Revision No: **1**

Product description

High-pressure hose [PH194-05] and hose assembly [PH194-05-010] of size DN 08 (5/16") tested according to ISO 15738:2019 for connecting gas-cylinder to the inlet manifold on inflatable chambers in gas inflation systems.

Outer diameter : 14.2 mm
Inner diameter : 8 mm

Hose material:

Type	Cover	Tube	Reinforcement braid
PH194-05	Polyester Elastomer. Pin Pricked.	Elastomeric core tube	High strength synthetic yarn

Couplings:

Type	Material code	Standard
81-FANP-JCM-JCM-050606	QQ-B-626	GB/T 5231-2012 HPb59-1 [annealed]
81-FANP-JCM-JCFX-050606		
81-551-20651-6-5		

Application/Limitation

High-pressure hose and hose assemblies to be used in gas inflation systems for inflatable life-saving appliances.

Medium: CO₂, N₂, compressed air

Moisture content in CO₂ gas used for the hose shall be no more than 150 parts water per 1 million parts of gas by mass.

The following are excluded from the scope of approval:

- Determination of suitability of hoses for gas (CO₂) inflation systems
- Evaluation of general material requirements related to IMO LSA Code

Type Examination documentation

Drawings:

- PH194-5-PWL-1-20-1, High pressure hose assembly with SS 9/16" UNF JIC (F)
- PH194-5-PWL-4-17-1, High pressure PH194-05 (5/16" ID) hose
- 81-551-20651-6-5-Rev1, Coupling
- 81-FANP-JCM-JCFX-050606 Rev 1, Coupling
- 81-FANP-JCM-JCM-050606 Rev 1, Coupling

Datasheet: PH194-low temperature – R18

Fitting assembly procedure: Doc. Ref. PH/L3/ASSY/RE-U Rev. 1, dated 22.08.2019

Test report no. PH/DNV/WTC/2020-001, dated 2020-05-14

Test report no. PH/DNV/WTC/2020-002, dated 2020-05-14

Test report no. PH/DNV/WTC/2020-003, dated 2020-05-14

Test report no. 20170818002, Bharat Test House, dated 08/08/17

Test report no. PH/WTC/ 17-001, Issue no. 001, Polyhose, dated 06.12.17

Test report no. PH/WTC/ 17-002, Issue no. 001, Polyhose, dated 09.12.17

Test report no. CML/19-20/42655, Chennai Mettex Lab Pvt. Ltd., dated 26.10.2019

Test report no. TR120191219001, BTH Test House Pvt. Ltd., dated 19.12.2019

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Tests carried out

Tests as described in ISO 15738 [7.2]:

- Pressure test
- Cold pressure test
- Salt water exposure test
- Hydraulic pressure test
- Cold bend test
- Joint-securing test
- Flow test

Marking of product

To enable traceability, each hose shall be marked externally with at least:

- name of the manufacturer
- lot or batch number

Periodical assessment

For retention of the Type Examination, a DNV GL 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 DNVGL-CP-0338.