

# TYPE APPROVAL CERTIFICATE

**This is to certify:****That the Flexible hoses of non-metallic material without permanently fitted couplings**with type designation(s)  
**PH194-05**

Issued to

**Polyhose India Private Limited**  
**Tamil Nadu, India**is found to comply with  
**ISO 15738:2002 – Ships and marine technology – Gas inflation systems for inflatable life-saving appliances****Application :****High-pressure hoses 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.: 60 bar**  
**Sizes: DN 08**Issued at **Høvik** on **2018-11-19**for **DNV GL**This Certificate is valid until **2023-11-18**.DNV GL local station: **Mumbai**Approval Engineer: **Iselinn Vindstad****Marianne Spæren Marveng**  
**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

High-pressure hoses of size DN 08 (5/16") tested according to ISO 15738:2002 for connecting gas-cylinder to the inlet manifold on inflatable chambers in gas inflation systems.

Outer diameter : 14.2 mm  
Inner diameter : 8 mm

Medium: CO<sub>2</sub>, N<sub>2</sub>, compressed air

Material of construction for hose:

- Hose cover : thermoplastic cover made of poly urethane
- Tube : thermoplastic inner tube made of Elastomer
- Reinforcement : high strength synthetic fiber reinforcement

## Application/Limitation

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

End connectors are not covered by this certificate.

The hose shall be fitted with end connectors of sufficient strength to withstand moderate overtightening.

Moisture content in CO<sub>2</sub> 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 (CO<sub>2</sub>) inflation systems
- Evaluation of general material requirements related to IMO LSA Code

## Type Examination documentation

Drawing: PH194-5-PWL-4-17-1, High pressure PH194-05 (5/16' ID) hose

Datasheet: PH194-low temperature – R18

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

## Tests carried out

Tests as described in ISO 15738 [7.2]:

- Burst test at room temperature
- Burst at -45°C
- Leakage test at 125 bar
- Cold flexibility test at -45°C
- Load test at room temperature
- Leakage test at 2.5 times maximum working pressure (for compressed air/nitrogen systems)
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## 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.