

Inspection, Testing, Cleaning and Maintenance of the hose



This is a guideline for the handling and maintenance of the Amniflex composite hoses. The use of this guideline shall be entirely at the users risk. Take in account rules given by your authorities concerning safety, environment and other aspects.

Marking Identification-

All composite hoses produced by Amniflex BV, Rotterdam can be identified by:

- Manufactures identification
- Hose type
- Norm
- Pressure
- Temperature
- Production date: Quarter / Year

Visual inspection – Check hoses before each operation and before conducting hydraulic tests...

Hoses and hoses with rope lagging should be given a brief visual examination before each operation and a more thorough visual inspection at periods not exceeding six months. The inspection should pay attention to:

- Tears and abrasion of the hose cover or in the rope.
- Dents or kicks.
- Displacement of the hose reinforcing wires from their normal pitch or displacement of the rope exposing the hose below.
- Corrosion or abrasion of the hose outer wire.
- Signs of displacement of the end fittings or evidence of leakage at the ends.
- Any other abnormal features, including wear or damage to the end fittings.



Hydrostatic testing – Annually or more frequently...

At periods not exceeding one year hoses should be hydraulically tested as follows:

- Drain and thoroughly clean hose.
- Carry out visual inspection. Hoses failing the visual inspection due to displacement of the hose wires, severe abrasion of the cover, or significant corrosion of the outer wire should not be tested.
- Lay the hose straight out on supports which allow free movement under pressure.
- Blank off the ends and fill the hose completely with water, ensure trapped air is released from the hose.
- Pressurize the assembly to 1-1/2 times the maximum rated working pressure of the hose and hold this pressure for 10 minutes (or as specified) while examining for leaks. Also test for electrical continuity between the end connections.
- Reduce pressure and drain hose.
- On completion of this test the hose should be tested again for electrical continuity.

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Al onze aanbiedingen en leveranties geschieden volgens onze algemene leveringsvoorwaarden.



- CAUTION:** Do not test hoses that fail visual inspection.
- NOTE:** Thermoplastic composite hoses elongate under pressure compared to rubber hose.
Elongation under pressure is not an indication of hose condition or failure of reinforcements.



Electrical continuity tests – every 6 months or more frequently...

In order to prevent the accumulation of static charge generated in use, all metal parts of the assembly have been electrically bonded together during manufacture. At periods not exceeding six months the following test should be carried out.

- Lay the hose flat on the ground. Avoid contact on metallic parts to earth.
- Check that the hose is electrically continuous from end to end. This can be done using a simple battery and bulb test or alternatively using an ohm meter. Resistance should be 10 ohms or less.



Cleaning – after use or prolonged storage, before testing...

- Hoses should be cleaned after use and certainly before prolonged storage or testing.
- Flushing out is sufficient in many circumstances using a variety of fluids, e.g. clean water, hot water detergents, common solvents at ambient temperature or seawater. If seawater is used for cleaning, this must be thoroughly drained out afterwards to minimize risk of corrosion on mild steel end fittings and on stainless or Galvanized Steel inner wires.
- Loose steam may be used but the hose must be open ended and the maximum working temperature must not be exceeded.
- Compressed air may be used but the hose must be open ended and the maximum working pressure must not be exceeded.
- During any cleaning operation the hose must be electrically earthed.
- Pigging must not be used under any circumstances.

- CAUTION:** High pressure steam or high pressure compressed air can be hazardous if hoses are restricted or clogged.



Hose repairs – consult Amniflex BV

Depending on overall condition, it may be possible to repair hoses damaged in service. The repair of polypropylene hoses requires specialized knowledge and procedures.

- NOTE:** All repairs should be undertaken by trained and authorized personnel.

All information in this document is without any obligation, specifications subject to change without any notice.

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