

# TYPE APPROVAL CERTIFICATE

**This is to certify:****That the Flexible Hoses of Non-Metallic Material with Permanently Fitted Couplings**with type designation(s)  
**Aeroquip 2807**

Issued to

**Eaton Corporation  
Van Wert, OH, USA**

is found to comply with

**DNV GL rules for classification – Ships Pt.4 Ch.6 Piping systems****DNV GL class programme DNVGL-CP-0183 – Type approval – Flexible hoses****Application :****Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.****Temperature range:** -73°C up to +260°C**Max. working press.:** 241 bar / 3500 psi**Sizes:** 0.19" up to 1,13 "Issued at **Hamburg** on **2018-11-28**This Certificate is valid until **2023-11-27**.for **DNV GL**DNV GL local station: **Certification & Inspection  
Services**Approval Engineer: **Christian Kaemmer**.....  
**Olaf Drews  
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

### FC2807-Series:

Extruded PTFE inner tube with full coverage of a single stainless steel braid reinforcement.  
Fire resistant acc. to ISO 15540.

### Couplings:

FC9779 crimp fitting

E-Series carbon steel crimp

ER-Series stainless steel crimp fitting

### Size and pressure range:

| Part number | Coupling    | Hose ID |      | Maximum working pressure |     |
|-------------|-------------|---------|------|--------------------------|-----|
|             |             | inches  | mm   | psi                      | bar |
| 2807-4      | FC9779-xxxx | 0.19    | 4.8  | 3000                     | 207 |
| 2807-5      | FC9779-xxxx | 0.25    | 6.4  | 3000                     | 207 |
| 2807-6      | FC9779-xxxx | 0.31    | 7.9  | 2500                     | 172 |
| 2807-8      | FC9779-xxxx | 0.41    | 10.3 | 2000                     | 138 |
| 2807-10     | FC9779-xxxx | 0.50    | 12.7 | 1500                     | 103 |
| 2807-12     | FC9779-xxxx | 0.63    | 15.9 | 1200                     | 83  |
| 2807-16     | FC9779-xxxx | 0.88    | 22.2 | 1000                     | 69  |
| 2807-20     | FC9779-xxxx | 1.13    | 28.6 | 625                      | 43  |
|             |             |         |      |                          |     |
| 2807-4      | 03E-xxx     | 0.19    | 4.8  | 3500                     | 241 |
| 2807-6      | 05E-xxx     | 0.31    | 7.9  | 2750                     | 190 |
| 2807-8      | 07E-xxx     | 0.41    | 10.3 | 2250                     | 155 |
| 2807-10     | 08E-xxx     | 0.50    | 12.7 | 2000                     | 138 |
| 2807-12     | 10E-xxx     | 0.63    | 15.9 | 1500                     | 103 |
| 2807-16     | 14E-xxx     | 0.88    | 22.2 | 1200                     | 83  |

## Production places

- Eaton Industries MFG GmbH, Avenida Pedregal Iote 3, Manzana 4, Reynosa, Tamaulipas 88781, Mexico.
- Eaton Aeroquip LLC, 8171 Planer Mill Road, Middlesex, North Carolina 227557, USA.
- Eaton Corporation, 1225 W. Main Street, Van Wert, Ohio, USA.
- Eaton Fluid Power GmbH, Dr. Reckeweg Str.1, D-76490 Baden-Baden, Germany

## Responsibility

Eaton Corporation Van Wert, OH, USA, takes the responsibility that the design and production of the hoses, hose end fittings and manufacturing of hose assemblies are in compliance with Rules, Standards and/or Regulations listed on page 1 of this certificate.

## Application/Limitation

Hose assemblies covered by this type approval certificate are approved for fuel and lube oil, water, steam, compressed air, sanitary and cooling water.

Flexible hoses are only to be used in short lengths up to 2 m 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.

Job Id: **262.1-014031-12**  
Certificate No: **TAP00001HF**

## Installation

The hose assemblies must only be fitted in places where they are always accessible.  
Flexible hoses of these types are not to be used on boiler fronts.  
The hoses are to be mounted in accordance with the manufacturer's instructions.  
It must be possible to shut off from the system all flexible hoses used in systems for compressed air, fresh water cooling applications, lube oil, fuel oil and petroleum base hydraulic oil.  
Hose assemblies with couplings made of carbon steel are not to be used at temperatures below -10°C unless the material is normalized.

## Type Approval documentation

### Tests carried out

### Production testing

All hose assemblies shall be subject to a pressure test at 1.5 times the maximum working pressure and shall be delivered with the pressure test report with reference to the type approval certificate.

### Marking of product

For traceability to this type approval, each hose assembly is to be marked with:

|                                   |
|-----------------------------------|
| Manufacturer's name               |
| Type, Nominal Diameter            |
| Maximum working pressure M.A.W.P. |
| Date Code                         |
| Temperature Rating                |

### **Periodical assessment**

For retention of the type approval certificate periodical assessments shall be carried out at production places by DNVGL surveyor.

The objective of the periodical assessment is to verify that the design and production conditions for the type approval have not been altered.

Main scope of the assessment:

- verification of the production and quality control system
- review of quality control documentation of recent deliveries
- review of drawings in production to verify any design changes which may have an impact on data specified in the type approval certificate, performance and range of application
- verification of the product marking

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate. In connection with the renewal assessment, a surveyor shall witness / review test reports with respect to the following tests on every 3rd size appropriate test reports to be submitted:

- dimensional check, change in length test,
- pressure test with 1.5 times M.A.W.P. and burst test (witnessed by DNV GL surveyor)