



## Confirmation of Product Type Approval

**Company Name:** DIESSE RUBBER HOSES SPA

**Address:** VIA PROVINCIALE, 8 FILAGO BERGAMO 24040 Italy

**Product:** Flexible Wire Spiralled Rubber Hose Assembly

**Model(s):** XFIGHT 4000, XFIGHT 5000, XFIGHT 6000

**Endorsements:**

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	23-2384824-PDA	26-JUL-2023	25-JUL-2028
Manufacturing Assessment (MA)	23-6027312	08-SEP-2023	07-SEP-2028
Product Quality Assurance (PQA)	NA	NA	NA

### Tier

3 - Type Approved, unit certification not required

### Intended Service

High pressure hoses for hydraulic applications, suitable for mineral and vegetable oils, water- based solutions, water, air and inert gas.

### Description

Black synthetic rubber resistant tube with high tensile steel spirals covered by black synthetic rubber, resistant to oil, abrasion and weather conditions.

### Ratings

XFIGHT 4000: from DN10 to DN38, 280 bar

XFIGHT 5000: from DN10 to DN38, from 380 bar to 350 bar

XFIGHT 6000: from DN10 to DN38, 420 bar

Temperature range: -40 / +121 degC.

For additional details, please refer to attachment.

### Service Restrictions

1) Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

2) Hoses are to be complete with factory assembled end fittings or factory supplied end fittings installed in accordance with manufacturer's specifications.

3) End connections are to comply with applicable requirements and limitation of Rules (4-6-2/5.5.4, 4-6-2/5.5.5, 4-6-7/3.5.1, 4-6-7/5.3.2).

4) Hose assemblies are to be installed only where flexibility is required and are not to be subject to torsional deflection under normal conditions; hose length is to be limited to that required by flexibility only.

5) Not to be used for installations where repeated and/or frequent flexing is expected.

6) Flexible Hoses are to be permanently marked by the manufacturer with the following details: Hose manufacturer's name or trademark, date of manufacturer (month/year), designation type reference, nominal diameter, pressure and temperature rating in accordance with Steel Vessel Rules 4-6-2/5.7.6

The scope of Type Approval is to comply with MSC.1/Circ.1221 dated 11 December 2006.

### Comments

- The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

- Only the Manufacturer's approved end fittings are to be used, as per the Manufacturer's recommendations.

### Notes, Drawings and Documentation

FIRE TEST 127 - XFIGHT 5000 FIRE TEST 127 dated 16/12/2016 at DIESSE RUBBER

FIRE TEST 128 - XFIGHT 5000 FIRE TEST 128 dated 16/12/2016 at DIESSE RUBBER

FIRE TEST 147 - XFIGHT 5000 FIRE TEST 147 dated 16/12/2016 at DIESSE RUBBER

IMPULSE TEST XFGT-5000-12-08 - XFIGHT 5000 dated 02/10/2015 at DIESSE RUBBER

IMPULSE TEST XFGT-5000-25-16 - XFIGHT 5000 dated 27/05/2014 at DIESSE RUBBER

IMPULSE TEST XFGT-5000-38-24 - XFIGHT 5000 dated 09/11/2016 at DIESSE RUBBER

IMPULSE TEST XFIGHT 6000 No. 009/22 dated 04/02/2022 at DIESSE RUBBER

TEST REPORT XFIGHT 5000 - XFIGHT 5000 dated 09/11/2016 at DIESSE RUBBER

TEST REPORT XFIGHT 6000 - XFIGHT 6000 dated 16/12/2016 at DIESSE RUBBER

TEST REPORT XFIGHT 6000 No. 487 dated 05/07/2022 at DIESSE RUBBER

FIRE TEST 129 - XFIGHT 6000 FIRE TEST 129 dated 16/12/2016 at DIESSE RUBBER

FIRE TEST 130 - XFIGHT 6000 FIRE TEST 130 dated 16/12/2016 at DIESSE RUBBER

FIRE TEST 131 - XFIGHT 6000 FIRE TEST 131 dated 16/12/2016 at DIESSE RUBBER

FIRE TEST 107 - XFIGHT 6000 FIRE TEST 107 dated 05/07/2022 at DIESSE RUBBER

Datasheet XFIGHT4000 - XFIGHT4000 at DIESSE RUBBER

Datasheet XFIGHT5000 - XFIGHT5000 at DIESSE RUBBER

Datasheet XFIGHT6000 - XFIGHT6000 at DIESSE RUBBER

PG.09.30 Rev. 10 Assembly of hoses and fittings - Crimping procedure

### Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 25/Jul/2028 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

**ABS Rules**

ABS Rules for Building and Classing Marine Vessels (2023): 1-1-4/7.7, 1-1-A3, 1-1-A4, 1-1-4/7.7, 4-6-2/5.7, 4-6-7/3.5.2

ABS Rules for Building and Classing Mobile Offshore Units (2023): 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-2-1/11.29.

**International Standards**

EXCEEDS SAE100R12 / 100R1 / 100R15

**EU-MED Standards**

NA

**National Standards**

NA

**Government Standards**

NA

**Other Standards**

NA



A handwritten signature in dark ink, appearing to read "Joseph W. Wilson".

Corporate ABS Programs  
American Bureau of Shipping  
Print Date and Time: 25-Sep-2023 9:20

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations

regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.