



## 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):** DS-4SP; DS-4SH; DS12; DS13; DS15

**Endorsements:**

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	23-2384839-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

Hydraulic systems (mineral and vegetable oils, oils in aqueous emulsion, water, air)

### Description

Oil resistant synthetic rubber hoses reinforced with four or six high tensile steel spirals, covered with a synthetic rubber sheath.

### Ratings

Model DS - 4SP: from DN6 to DN51, from 500 bar to 165 bar

Model DS - 4SH: from DN16 to DN51, from 450 bar to 250 bar

Model DS12: from DN10 to DN51, from 276 bar to 172 bar

Model DS13: from DN19 to DN51, 345 bar

Model DS15: from DN19 to DN38, 420 bar

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

### 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 for DS13 dated 21 Feb 2005 at LAPI Laboratory

Fire test for DS12 dated 24 Feb 2005 at LAPI Laboratory

Fire test for DS-4SH dated 01 March 2005 at LAPI Laboratory

Fire test for DS-4SP dated 25 Feb2005 at LAPI Laboratory

Fire test for DS15 dated 11 March 2005 at LAPI Laboratory

Test report DS-4SP dated 24 March 2005 at DIESSE Plant

Test report DS-4SH dated 24 March 2005 at DIESSE Plant

Test report DS13 dated 07 April 2005 and 11 April 2005 at DIESSE Plant

Test report DS15 dated 24 March 2005 and 11 April 2005 at DIESSE Plant

Test report DS12 dated 10 November 2003 at DIESSE Plant

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**

EN 856 Ed. 2019 - SAE 100 Ed. 2015 - ISO 15540 Ed.2016

**EU-MED Standards**

NA

**National Standards**

NA

**Government Standards**

NA

**Other Standards**

NA



A handwritten signature in dark ink, appearing to read 'James J. Wilk', is positioned above the printed text.

Corporate ABS Programs  
American Bureau of Shipping  
Print Date and Time: 25-Sep-2023 9:21

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.