



DNV

DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. P-12819
This Certificate consists of 3 pages

This is to certify that the
Miscellaneous Fittings for Pressurised Equipment

with type designation
NoSpray Protection System (IM 2002)

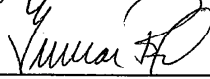
Manufactured by
NoSpray Protection Systems Ltd.
Delta, BC V3M 5R4, Canada

is found to comply with
Det Norske Veritas' Rules for Classification of Ships

Application
Screening of pipe joints and fittings in accordance with SOLAS Consolidated Edition,
2004, Chapter II-2/ Regulation 4, item 2.2.5.3

Type:	NoSpray Protection System (IM 2002)
Temperature range:	Max. 150 degr.C (300 degr.F) Fluid Temp.
Design pressure:	For use with piping of maximum 20 barg (300 psi) internal pressure.
Operating media:	For use with pipe flanges and fittings in systems for fuel oil, lube oil and other flammable oils.

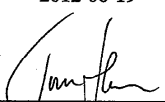
Place and date
Høvik, 2008-06-19
for **DET NORSKE VERITAS AS**


Kåre Klokk
Head of Section

Local Office
DNV Vancouver



This Certificate is valid until
2012-06-19


Tom Bjørn Hansen
Principal Surveyor

Notice: 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.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



Cert. No.: P-12819
File No.: 746.90

Holder of certificate

NoSpray Protection Systems Ltd.
Delta, BC V3M 5R4, Canada

Place of Production;

Scapa North America Inc.
746 Gotham Parkway
Carlstadt
NJ 07072
USA

Product description

Reference is also made to IMO FTP Code – IMO Resolution A.653 (16).

Product description

NoSpray Protection System - Tape & Sheet;

35mm width x 10 m length
50mm width x 10 m length
100mm width x 10 m length
140mm width x 10 m length
250mm width x 10 m length
500mm width x 10 m length
1000mm width x 10 m length

Total thickness 9.5 mil for all sizes.

NoSpray Protection System is an aluminium/ glass cloth jacketing system which is coated one side with a silicon adhesive for installation.

Application/Limitation

The extent of use is limited to spray shielding applications on oil pressure pipes located above the floor plates and which have no insulation in way of the joints. Use is also restricted to readily accessible positions where the integrity of the application may be inspected regularly and new covering will be applied after removal for maintenance purposes.

The installation of NoSpray Protection System is to be carried out in accordance with the Manufacturer's instructions.





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The NoSpray Protection System cannot be used for pipes insulation, or as replacement for pipe gaskets and sealings.

Type Approval documentation

-Product Description, Specifications and Application Instructions for NoSpray Protection System.

Tests carried out

- DNV Survey Report No. 410-1-5166-GDR1, dated 23 January, 2003, Surface Flammability Tests of "NoSpray Protection System Metallic Tape".
- Southwest Research Institute, Test Report dated January 2003; Fire Performance of "NoSpray Protection System" in accordance with IMO Resolution A.653(16).
- Chemsultants; Test Report: Project 03-117, dated January 27 2003; Peel Adhesion, Release, Tensile and Elongation, and Total Caliper.
- DNV Report – File No. CMC02/032, dated 25 February 2003; Witness Leakage Test for NoSpray Sheet or Tape (IM 2002).
- DNV Report No. VCR5117160, dated 2008-05-13, Witness Leakage Test for NoSpray Protective Tape or Sheet.
- Chemsultants International; Report: Project 08-575, dated April 25, 2008; Physical Properties of PSA Tape.

Marking of product

-Manufacturer's Name & Product Type.

Certificate retention survey

For retention of the Type Approval, DNV Surveyor shall perform a survey every second year, to verify that the conditions for the type approval are complied with and to witness testing on samples of tape/ sheet taken at random from stock.

This certificate replaces previous Type Approval Certificate No. P-11423.



END OF CERTIFICATE