

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Bulkhead/Deck Penetration**with type designation(s)
SKOTTE 1000

Issued to

Specma AB**Västra Frölunda, Västra Götalands Län, Sweden**

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft**Application :****Approved for penetration in bulkheads or decks limited to a pressure of 16 bar and between gas safe and gas dangerous areas.****The penetration system is generally not to be used for penetrating boundaries of tanks. Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.**Issued at **Høvik** on **2018-11-20**This Certificate is valid until **2023-06-30**.DNV GL local station: **Gothenburg**for **DNV GL**Approval Engineer: **Ivar Bull**

Marta Alonso Pontes
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.



Job Id: **262.1-009290-3**
Certificate No: **TAE000033Y**

Product description

Skotte 1000 is composed of steel or stainless steel St 2343 sleeve welded to the bulkhead, chloroprene packing fitted between two steel gaskets, tightened by stainless steel or bronze nut.

Application limitation

The penetration system is generally not to be used for penetrating boundaries of tanks.

Type Approval documentation

Tests carried out

Water and gas tightness test according to CLASS PROGRAMME DNVGL-CP-0165.

Marking of product

The product or packing is to be marked with name of manufacturer, type designation.

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT shall be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

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.

END OF CERTIFICATE