

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Cable Gland**with type designation(s)
Rutaseal Chloroprene

Issued to

Tapper Sealing Technology AB
Nässjö Jönköpings Län, Sweden

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft**Application :****Not to be installed: - In fire resisting bulkheads and decks. - In hazardous areas or as pressure-resistant.****The manufacturer's installation description to be followed. For further installation requirements, see page 2.****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.****Material****Suitable for open deck****Suitable for Hazardous areas**Issued at **Høvik** on **2017-12-05**This Certificate is valid until **2022-12-04**.DNV GL local station: **Malmö**for **DNV GL**Approval Engineer: **Georgy Abramenko**

Andreas Kristoffersen
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

Type: Rutaseal Cable Seal Fitting
Material: Chloroprene rubber CR (black)
Sizes: Metric and PG series, see tables below

Sizes: All sizes in mm.

Fitting made for unthreaded hole with plate thickness of 0,5-4 mm.

Metric series:

Article No	Size	Cable Ø	Outer Ø	Height
14 582 53 / 14 582 53-F	M12	4-7	20	12,8
14 582 54 / 14 582 54-F	M16	5-9	21	17,7
14 582 55	M20	8-13	25,5	20
14 582 56	M25	11-17	30,5	21,3
14 582 57	M32	15-20	38,5	24,6
14 582 58	M40	19-28	48,5	29,5
14 582 59	M50	27-35	60,5	34,8
14 582 60	M63	34-45	73,5	40

PG series:

Article No	Size	Cable Ø	Outer Ø	Height
14 582 42	PG7/12,5	3-5	20	12,6
14 582 43	PG9/15,2	5-7	21	17,8
14 582 44	PG11/18,6	7-10	24	19,8
14 582 45	PG16/22,5	10-14	28	21,6
14 582 46	PG21/28,3	14-20	35	24,6
14 582 47	PG29/37,0	20-26	46	28,5
14 582 48	PG36/47,0	26-35	58	34,9

Application/Limitation

Temperature class: -30 °C to +100 °C
Enclosure class: IP 67

According to DNV-GL Rules the following installation requirements has to be followed:

Cable entrances into enclosures shall be from below or from the side (except for enclosure IP 20), in order to prevent ingress of water or other liquids.

Cables shall be supported so close to an enclosure entry through a cable gland that it runs straight through the gland, and the gland does not take up any mechanical forces from the cable.

Job Id: **262.1-027481-1**
Certificate No: **TAE00002G6**

Type Approval documentation

Tests carried out

Enclosure test and Flammability test. Cable retention test type A. Weather resistance test.

Marking of product

Size marking on outer end of seal.

Certificate retention survey

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 to 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