



Certificate No:
TAE0000457

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Cable Gland

with type designation(s)
CMP Industrial

Issued to

CMP Products Limited
Cramlington, Northumberland, United Kingdom

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

Industrial cable glands. The manufacturer's installation description to be followed.

Products approved by this certificate are accepted for installation on all vessels classed by DNV GL.

Material	See product description
Suitable for open deck	Yes
Suitable for Hazardous areas	No

Issued at **Høvik** on **2021-03-01**

This Certificate is valid until **2025-10-13**.

for **DNV**

DNV local station: **Newcastle-upon-Tyne**

Approval Engineer: **Nicolay Horn**

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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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: TA 251

Revision: 2021-03

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Product description

Type	A2 (including prefix 'R', suffix '-FF', '-FC' & 'HT' variants)
Design Specification	BS 6121: Part 1: 1989, IEC 62444: 2010, EN 62444: 2013
Continuous operating temperature range	-60°C to +130°C (Standard seal), -20°C to +200°C (High temperature seal)
Cable anchorage	Type B
Ingress protection	IP66, IP67 & IP68 (10m depth)
Gland material	Brass, Nickel Plated Brass, Stainless Steel or Aluminium
Seal material	LSF Halogen Free Thermoset Elastomer
Cable type	Unarmoured or Braided (when terminated inside enclosure)
Deluge protection	To DTS 01:91
Gland sizes	16, 20S/16, 20S, 20, 25, 32, 40, 50S, 50, 63S, 63, 75S, 75, 90, 100, 115, 130
Optional accessories	Shroud, Locknut, Earth Tag, Entry Thread Seal, Serrated Washer, Adaptor/Reducer

Type	A2F 100FF (including prefix 'R', suffix 'HC' variants)
Design Specification	BS 6121: Part 1: 1989, IEC 62444: 2010, EN 62444: 2013
Continuous operating temperature range	-60°C to +130°C
Cable anchorage	Type B
Ingress protection	IP66, IP67 & IP68 (30m depth)
Gland material	Brass, Nickel Plated Brass, Mild Steel, Stainless Steel or Aluminium
Seal material	LSF Halogen Free Thermoset Elastomer
Cable type	Unarmoured or Braided (when terminated inside enclosure)
Gland sizes * P variants included	20S*, 20*, 25*, 25a*, 32, 32a, 32b
Optional accessories	Shroud, Locknut, Earth Tag, Entry Thread Seal, Serrated Washer, Adaptor/Reducer

Type	A2RC (including prefix 'R', & suffix 'HT' variants)
Design Specification	BS 6121: Part 1: 1989, IEC 62444: 2010, EN 62444: 2013
Continuous operating temperature range	-60°C to +130°C (Standard seal), -20°C to +200°C (High temperature seal)
Cable anchorage	Type B
Ingress protection	IP66
Gland material	Brass, Nickel Plated Brass, Stainless Steel or Aluminium
Seal material	LSF Halogen Free Thermoset Elastomer
Cable type	Unarmoured or Braided (when terminated inside enclosure)
Gland sizes	16, 20S/16, 20S, 20, 25, 32, 40, 50S, 50, 63S, 63, 75S, 75, 90, 100, 115, 130
Optional accessories	Shroud, Locknut, Earth Tag, Entry Thread Seal, Serrated Washer, Adaptor/Reducer

Type	E1## (including prefix 'R', suffix 'W', 'X', 'U', 'D', 'HT' & 'VAR' variants) D=Deluge Protection
Design Specification	BS 6121: Part 1: 1989, IEC 62444: 2010, EN 62444: 2013
Continuous operating temperature range	-60°C to +130°C (Standard seal), -20°C to +200°C (High temperature seal)
Cable anchorage	Type B or D
Ingress protection	IP66 (IP67 & IP68 (10m depth) with 'D' option)
Gland material	Brass, Nickel Plated Brass, Stainless Steel or Aluminium

Seal material	LSF Halogen Free Thermoset Elastomer
Cable type	Armoured or Braided
Deluge protection	To DTS 01:91 with 'D' option
Gland sizes	16, 20S/16, 20S, 20, 25S, 25, 32, 40, 50S, 50, 63S, 63, 75S, 75, 90, 100, 115, 130
Optional accessories	Shroud, Locknut, Earth Tag, Entry Thread Seal, Serrated Washer, Adaptor/Reducer

Type	E2## (including prefix 'R', suffix 'W', 'X', 'U', 'D', 'HT' & 'VAR' variants) D=Deluge Protection
Design Specification	BS 6121: Part 1: 1989, IEC 62444: 2010, EN 62444: 2013
Continuous operating temperature range	-60°C to +130°C (Standard seal), -20°C to +200°C (High temperature seal)
Cable anchorage	Type B or D
Ingress protection	IP66 (IP67 & IP68 (10m depth) with 'D' option)
Gland material	Brass, Nickel Plated Brass, Stainless Steel or Aluminium
Seal material	LSF Halogen Free Thermoset Elastomer
Cable type	Lead Sheathed & Armoured; Marine Shipboard
Deluge protection	To DTS 01:91 with 'D' option
Gland sizes	16, 20S/16, 20S, 20, 25S, 25, 32, 40, 50S, 50, 63S, 63, 75S, 75, 90, 100, 115, 130
Optional accessories	Shroud, Locknut, Earth Tag, Entry Thread Seal, Serrated Washer, Adaptor/Reducer

Type	SS2KGP (including prefix 'R', and suffix 'HT', 'TA', 'PB', 'VAR' variants
Design Specification	BS 6121: Part 1: 1989, IEC 62444: 2010, EN 62444:2013
Continuous operating temperature range	-60°C to +130°C (Standard seal), -20°C to +200°C (High temperature seal)
Cable anchorage	Type B
Ingress protection	IP66, IP67 & IP68 (10m depth)
Gland material	Brass-Nickel Plated Brass, Stainless Steel or Aluminium
Seal material	LSF Halogen Free Thermoset Elastomer
Cable type	Unarmoured or Braided (when terminated inside enclosure), Tape Armour / Tape Screen ('TA' only)
Deluge protection	To DTS 01:91
Gland sizes	16, 20S/16, 20S, 20, 25S, 25, 32, 40, 50S, 50, 63S, 63, 75S, 75, 90, 100, 115, 130
Optional accessories	Shroud, Locknut, Earth Tag, Entry Thread Seal, Serrated Washer, Adaptor/Reducer

Type	C## (including suffix 'W', 'X', 'D', '2K-GP', 'X', & 'XT' variants) D=Deluge Protection
Design Specification	BS 6121: Part 1: 1989, IEC 62444: 2010, EN 62444: 2013
Continuous operating temperature range	-60°C to +130°C (Standard seal), -20°C to +200°C (High temperature seal)
Cable anchorage	Type B or D
Ingress protection	IP66 (IP67 & IP68 (10m depth) with 'D' option)
Gland material	Brass-Nickel Plated Brass, Stainless Steel or Aluminium
Seal material	LSF Halogen Free Thermoset Elastomer
Cable type	Armoured or Braided
Deluge protection (C2K)	To DTS 01:91 with 'D' option & C2K or C2KX
Gland sizes	16, 20S/16, 20S, 20, 25S, 25, 32, 40, 50S, 50, 63S, 63, 75S, 75, 90, 100, 115, 130

Type	C##(including suffix 'W', 'X', 'D', '2K-GP', 'X', & 'XT' variants) D=Deluge Protection
Optional accessories	Shroud, Locknut, Earth Tag, Entry Thread Seal, Serrated Washer, Adaptor/Reducer

Type	717G
Design Specification	IEC 62444: 2010, EN 62444:2013
Continuous operating temperature range	-60°C to +100°C
Ingress protection	IP66, IP67, IP68*, IP69, IP69K * with sealing washer: 30m for 16 hours * without sealing washer: 1.1m for 5 days
Component material	Nylon
Thread size	M20x1.5, M25x1.5, M32x1.5 1/2" NPT, 3/4" NPT, 1" NPT
Optional accessories	Locknut, Entry Thread Sealing Washer

Type	747G (Type A & Type B)
Design Specification	BS 6121: Part 1: 1989, IEC 62444: 2010, EN 62444: 2013
Continuous operating temperature range	-60°C to +200°C (Metallic) -20°C to +60°C (Nylon)
Ingress protection	IP66, IP67 or IP68
Component material	Brass, Nickel Plated Brass, Aluminium, Stainless Steel or Nylon
Thread size	M16x1.5, M20x1.5, M25x1.5, M32x1.5, M40x1.5, M50x1.5, M63x1.5, M75x1.5, M80x2, M90x2, M100x2 1/2" NPT, 3/4" NPT, 1" NPT, 1 1/2" NPT, 2" NPT, 2 1/2" NPT, 3" NPT, 3 1/2" NPT, 4" NPT
Optional accessories	Locknut, Serrated Washer, Earth Tag, Entry Thread Sealing Washer

Type	757G (including suffix 'R' variants)
Design Specification	BS 6121: Part 1: 1989, IEC 62444: 2010, EN 62444: 2013
Continuous operating temperature range	-60°C to +200°C (Metallic) -20°C to +60°C (Nylon)
Ingress protection	IP66, IP67 or IP68 when fitted with CMP Integral 'O' Ring or entry Thread Sealing Washer
Component material	Brass, Nickel Plated Brass, Aluminium, Stainless Steel or Nylon
Thread size	M16x1.5, M20x1.5, M25x1.5, M32x1.5, M40x1.5, M50x1.5, M63x1.5, M75x1.5, M80x2, M90x2, M100x2 1/2" NPT, 3/4" NPT, 1" NPT, 1 1/2" NPT, 2" NPT, 2 1/2" NPT, 3" NPT, 3 1/2" NPT, 4" NPT
Optional accessories	Locknut, Serrated Washer, Earth Tag, Entry Thread Sealing Washer

Type	767G (including suffix 'R' variants)
Design Specification	BS 6121: Part 1: 1989, IEC 62444: 2010, EN 62444: 2013
Continuous operating temperature range	-60°C to +200°C (Metallic) -20°C to +60°C (Nylon)
Ingress protection	IP66, IP67 or IP68 when fitted with CMP Integral 'O' Ring or entry Thread Sealing Washer
Component material	Brass, Nickel Plated Brass, Aluminium, Stainless Steel or Nylon
Thread size	M16x1.5, M20x1.5, M25x1.5, M32x1.5, M40x1.5, M50x1.5, M63x1.5, M75x1.5, M80x2, M90x2, M100x2, 1/2" NPT, 3/4" NPT, 1" NPT, 1 1/2" NPT, 2" NPT, 2 1/2" NPT, 3" NPT, 3 1/2" NPT, 4" NPT
Optional accessories	Locknut, Serrated Washer, Earth Tag, Entry Thread Sealing Washer

Type	TSM
Design Specification	IEC 62444: 2010, EN 62444: 2013
Continuous operating temperature range	-60°C to +105°C
Cable anchorage	Type A
Ingress Protection	IP66, IP67, IP68 (30m depth), IP69 & IP69K
Gland Material	Nickel Plated Brass, or Stainless Steel
Seal Material	LSF Halogen Free Thermoset Elastomer
Cable Type	Unarmoured or Braided (when terminated inside enclosure)
Gland sizes	12, 16S, 16, 16D, 20S, 20, 20D, 25S, 25, 25D, 32S, 32, 32D, 40S, 40, 40D, 50S, 50, 50D, 63S, 63, 63D
Optional accessories	Locknut, EMC Locknut, Earth Tag, Serrated Washer, Adaptor/Reducer, Transit disc, IP Plug

Type	TSX
Design Specification	IEC 62444: 2010, EN 62444: 2013
Continuous operating temperature range	-60°C to +105°C
Cable anchorage	Type A
Ingress Protection	IP66, IP67, IP68 (30m depth), IP69 & IP69K
Gland Material	Nickel Plated Brass, or Stainless Steel
Seal Material	LSF Halogen Free Thermoset Elastomer
Cable Type	Braided, including Shipboard Wiring Cable
Gland sizes	12, 16S, 16, 16D, 20S, 20, 20D, 25S, 25, 25D, 32S, 32, 32D, 40S, 40, 40D, 50S, 50, 50D, 63S, 63, 63D
Optional accessories	Locknut, EMC Locknut, Earth Tag, Serrated Washer, Adaptor/Reducer, Transit disc, IP Plug

Type	TSZ
Design Specification	IEC 62444: 2010, EN 62444: 2013
Continuous operating temperature range	-60°C to +105°C
Cable anchorage	Type A
Ingress Protection	IP66, IP67, IP68 (30m depth), IP69 & IP69K
Gland Material	Nickel Plated Brass, or Stainless Steel
Seal Material	LSF Halogen Free Thermoset Elastomer
Cable Type	Screened cables, including Copper Tape or Foil Screen
Gland sizes	12, 16S, 16, 16D, 20S, 20, 20D, 25S, 25, 25D, 32S, 32, 32D, 40S, 40, 40D, 50S, 50, 50D, 63S, 63, 63D
Optional accessories	Locknut, EMC Locknut, Earth Tag, Serrated Washer, Adaptor/Reducer, Transit disc, IP Plug

Type	TSP / TSPV0
Design Specification	IEC 62444: 2010, EN 62444: 2013
Continuous operating temperature range	-60°C to +100°C (TSP) -40°C to +100°C (TSPV0)
Cable anchorage	Type A
Ingress Protection	IP66, IP67, IP68 (30m depth), IP69 & IP69K
Gland Material	Halogen Free, Phosphorus Free Polyamide (V0 Industrial option)
Seal Material	LSF Halogen Free Thermoset Elastomer
Cable Type	Unarmoured or Braided (when terminated inside enclosure)
Gland sizes	12, 16S, 16, 16D, 20S, 20, 20D, 25S, 25, 25D, 32S, 32, 32D, 40S, 40, 40D, 50S, 50, 50D, 63S, 63, 63D
Optional accessories	Locknut, EMC Locknut, Earth Tag, Serrated Washer, Adaptor/Reducer, Transit disc, IP Plug

Application/Limitation

Manufacturer's application instructions to be followed.
Manufacturer's assembly instructions to be followed.

Type Approval documentation

Tests carried out

Type tests according to IEC 62444 & BS 6121: Part 1 (where applicable)

Marking of product

CMP – type designation

Periodical assessment

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

The main elements of the periodical assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Production Sample Tests (PST) and Routines (RT) checked (if not available tests according to PST and 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 to be performed at 2 and 3.5 year and at renewal.

END OF CERTIFICATE