

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Cable Gland

with type designation(s)

North American Series Cable Gland type 153/X, 701 & S701

Issued to

**HAWKE International, A member of the Hubbell Group
Lancashire, United Kingdom**

is found to comply with

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

Application :

Non hazardous areas cable glands.

Manufacturer's installation description to be followed.

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Material	Brass, SS or Aluminum. Materials may be plated or coated.
Suitable for open deck	Yes
Suitable for Hazardous areas	No

Issued at **Høvik** on **2019-01-23**

This Certificate is valid until **2023-12-31**.

DNV GL local station: **Manchester**

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.



Product description

Type 14	North American Series Cable Gland type 153/X
Classification	Non-ex General Purpose Wet Locations
Certification	NA
Construction and test standards	UL 514B listed wet locations. E218332.
Application	For use with armoured marine shipboard jacketed or non-jacketed cable.
Continuous Operating Temp.	-50°C to +60°C as standard
Ingress Protection	IP66, IP67, IP68, NEMA 4X
Deluge protection	DTS01 certified by ITS
Gland Material	Brass, stainless steel or aluminium may be plated or coated to suit application
Seal Material	Silicon Outer Seal - Neoprene Inner Seal
Gland sizes [mm]/NPT	20, 25, 32, 40, 50, 63, 75, 90. or NPT sizes ½", ¾", 1" 1¼", 1½", 2", 2 ½" 3" 3 ½"
Assembly instruction data sheet	A.I.341
Arrangement drawing No.	153X

Type 15	North American Series Cable Gland type 701
Classification	Non-ex General Purpose wet locations and AExe II
Certification	NA
Construction and test standards	UL 514B listed wet locations. E218332. AExe II E84940
Application	For use with continuous corrugated aluminium and interlocked steel Metal Clad, MC and Teck type cables.
Continuous Operating Temp.	-50°C to +60°C as standard
Ingress Protection	IP66, IP67, IP68, NEMA 4X
Deluge protection	DTS01 certified by ITS
Gland Material	Brass, stainless steel or aluminium may be plated or coated to suit application
Seal Material	Silicon Outer Seal - No Inner Seal
Gland sizes [mm]/NPT	20, 25, 32, 40, 50, 63, 75, 90. or NPT sizes ½", ¾", 1" 1¼", 1½", 2", 2 ½" 3" 3 ½"
Assembly instruction data sheet	A.I.315 for sizes A to F, A.I.342 for size H.
Arrangement drawing No.	701

Type 15b	North American Series Cable Gland type S701
Classification	Non-ex General Purpose wet locations and AExe II
Certification	NA
Construction and test standards	UL 514B listed wet locations. E218332. AExe II E 84940
Application	For use with continuous corrugated aluminium and interlocked steel Metal Clad, MC and Teck type cables.
Continuous Operating Temp.	-50°C to +60°C as standard
Ingress Protection	IP66, IP67, IP68, NEMA 4X
Deluge protection	DTS01 certified by ITS
Gland Material	Brass, stainless steel or aluminium may be plated or coated to suit application
Seal Material	Silicon Outer Seal - No Inner Seal
Gland sizes [mm]/NPT	20, 25, 32, 40, 50, 63, 75, 90. or NPT sizes ½", ¾", 1" 1¼", 1½", 2", 2 ½" 3" 3 ½"

Job Id: **262.1-010600-5**
Certificate No: **TAE00003BT**

Assembly instruction data sheet	A.I.347 for sizes A to H.
Arrangement drawing No.	S701

Optional Accessories:

Locknuts, sealing washers, serrated washers, earth tags, shrouds are available.

Application/Limitation

The manufacturer's application instructions to be followed.
The manufacturer's assembly installation to be followed.

Type Approval documentation

Datasheets: See each construction.
UL Listing Cards

Tests carried out

Type tests according to BS6121, EN50262 and UL514B Standard.

Marking of product

Type designation and "Wet locations"

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