



TYPE APPROVAL CERTIFICATE

Certificate no.:
TAE00003BS
Revision No:
3

This is to certify:
that the Cable Gland

with type designation(s)
Hazardous Area Cable Gland,
Increased Safety Cable Gland,
North American Series Cable Gland

issued to
HAWKE International, A member of the Hubbell Group
Ashton-Under-Lyne, Lancashire, United Kingdom

is found to comply with
DNV rules for classification – Ships, offshore units, and high speed and light craft

Application:

Hazardous areas cable glands. Manufacturer's installation description to be followed.
Products approved by this certificate are accepted for installation on all vessels classed by DNV.

Type	Material	Suitable for open deck	Suitable for Hazardous areas
Hazardous Area Cable Gland	Brass, SS or aluminium. Materials may be plated or coated to suit application	Yes	Yes
Increased Safety Cable Gland	Brass, SS or aluminium. Materials may be plated or coated to suit application	Yes	Yes
North American Series Cable Gland	Brass, SS or aluminium. Materials may be plated or coated to suit application	Yes	Yes

Issued at **Høvik** on **2024-02-25**

for **DNV**

This Certificate is valid until **2028-12-31**.
DNV local unit: **UK & Ireland CMC & VMC**

Approval Engineer: **Ivar Bull**

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.



Product description

Type 1a	Hazardous Area Cable Gland type 501/421
Classification	Flameproof Exd and Increased Safety Exe II 2 GD. Note:- 121 type cable gland is for Industrial applications only
Certification	CML19ATEX1167X for sizes Os to J IECEX CML 19.0043X for sizes Os to J
Construction and test standards	IEC/ EN60079-0, IEC/ EN60079-1, IEC/ EN60079-7 and IEC 60079-31
Application	For use with non-armoured elastomer and plastic insulated cables
Continuous Operating Temp.	-60°C to +100°C as standard
Ingress Protection	IP66, IP67, IP68
Deluge protection	DTS01 certified by ITS
Gland Material	Brass, stainless steel or aluminium may be plated or coated to suit Application
Seal Material	Neoprene
Gland sizes [mm]/NPT"	16, 20, 25, 32, 40, 50, 63, 75, 80, 90, 100. or NPT sizes ½", ¾", 1", 1¼", 1½", 2", 2½", 3", 3½", 4"
Assembly instruction data sheet	A.I.307 for sizes Os –J
Arrangement drawing No.	501/421 and 501/421 G to J

Type 1b	Hazardous Area Cable Gland type 501/423
Classification	Flameproof Exd and Increased Safety Exe II 2 GD Note:- 123 type cable gland is for Industrial applications only
Certification	CML19ATEX1167X for sizes Os to J IECEX CML 19.0043X for sizes Os to J
Construction and test standards	IEC/ EN60079-0, IEC/ EN60079-1, IEC/ EN60079-7 and IEC 60079-31
Application	For use with non-armoured elastomer and plastic insulated cables. May be used on cables incorporating inner and outer cable sheaths
Continuous Operating Temp.	-60°C to +100°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	Neoprene
Gland sizes [mm]/NPT"	16, 20, 25, 32, 40, 50, 63, 75, 80, 90, 100. or NPT sizes ½", ¾", 1", 1¼", 1½", 2", 2½", 3", 3½", 4"
Assembly instruction data sheet	A.I.306 for sizes Os –J
Arrangement drawing No.	501/423 and 501/423 G to J

Type 1c	Hazardous Area Cable Gland type PR411
Classification	Flameproof Exd and Increased Safety Exe II 2 GD Note:- PR111 type cable gland is for Industrial applications only
Certification	Baseefa 08ATEX0328X for sizes Os to F IECEX BAS 08.0111X for sizes Os to F
Construction and test standards	IEC/ EN60079-0, IEC/ EN60079-1, IEC/ EN60079-7 and IEC 60079-31
Application	For use with non-armoured elastomer and plastic insulated cables
Continuous Operating Temp.	-60°C to +100°C as standard
Ingress Protection	IP66, IP67, IP68
Deluge protection	DTS01 certified by ITS
Gland Material	Brass, stainless steel or aluminium may be plated or coated to suit application
Seal Material	Neoprene
Gland sizes [mm]/NPT"	16, 20, 25, 32, 40, 50, 63, 75, or NPT sizes ½", ¾", 1" 1¼", 1½", 2", 2½" 3"
Assembly instruction data sheet	A.I.397 for sizes Os –F
Arrangement drawing No.	PR411

Type 1d	Hazardous Area Cable Gland type 501/421/R
Classification	Flameproof Exd and Increased Safety Exe II 2 GD. Note:- 121/R type cable gland is for Industrial applications only
Certification	CML19ATEX1167X for sizes Os to C2 IECEX CML 19.0043X for sizes Os to C2
Construction and test standards	IEC/ EN60079-0, IEC/ EN60079-1, IEC/ EN60079-7, IEC/EN 60079-31
Application	For use with non-armoured elastomer and plastic insulated cables
Continuous Operating Temp.	-60°C to +100°C as standard
Ingress Protection	IP66, IP67, IP68
Deluge protection	DTS01 certified by ITS
Gland Material	Brass, stainless steel or aluminium may be plated or coated to suit application
Seal Material	Neoprene
Gland sizes [mm]/NPT"	16, 20, 25, 32, 40 or NPT sizes ½", ¾", 1" 1¼", 1½", 2"
Assembly instruction data sheet	A.I.427 for sizes Os –C2
Arrangement drawing No.	501/421/R

Type 2a	Hazardous Area Cable Gland type PR453
Classification	Flameproof Exd and Increased Safety Exe II 2 GD
Certification	Baseefa 08ATEX0328X for sizes Os to F IECEx BAS 08.0111X for sizes Os to F
Construction and test standards	IEC/ EN60079-0, IEC/ EN60079-1, IEC/ EN60079-7 and IEC 60079-31
Application	For use with armoured elastomer and plastic insulated cables. May be used on cables incorporating inner and outer cable sheaths.
Continuous Operating Temp.	-60°C to +100°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	Neoprene
Gland sizes [mm]/NPT"	16, 20, 25, 32, 40, 50, 63, 75, or NPT sizes ½", ¾", 1" 1¼", 1½", 2", 2½" 3"
Assembly instruction data sheet	A.I.385 for sizes Os –F
Arrangement drawing No.	PR453 and PR543RAC

Type 2b	Hazardous Area Cable Gland type 501/453/Universal
Classification	Flameproof Exd, Restricted Breathing ExnR and Increased Safety Exe II 2 GD Note:- 153 Universal type cable gland is for Industrial applications only
Certification	CML18ATEX1268X for sizes Os to F Baseefa 06ATEX0057X for sizes Os to F IECEx CML 18.0131X for sizes Os to F
Construction and test standards	IEC/ EN60079-0, IEC/ EN60079-1, IEC/ EN60079-7, IEC/EN60079-15 IEC 60079-31
Application	For use with single wire armoured, wire braided and steel tape armoured elastomer and plastic insulated cables. For particular use with cables that exhibit "Cold Flow" characteristics
Continuous Operating Temp.	-60°C to +80°C as standard
Deluge protection	DTS01 certified by ITS
Ingress Protection	IP66, IP67, IP68, NEMA 4X
Gland Material	Brass, stainless steel or aluminium may be plated or coated to suit application
Seal Material	Silicone
Gland sizes [mm]/NPT"	16, 20, 25, 32, 40, 50, 63, 75, or NPT sizes ½", ¾", 1" 1¼", 1½", 2", 2½" 3"
Assembly instruction data sheet	A.I.300 for sizes Os –F
Arrangement drawing No.	501/453 UNIV

Type 2c	Hazardous Area Cable Gland type 501/453/RAC
Classification	Flameproof Exd and Increased Safety Exe II 2 GD Note:- 153 RAC type cable gland is for Industrial applications only
Certification	CML19ATEX1167X for sizes Os to J IECEx CML 19.0043X for sizes Os to J
Construction and test standards	IEC/ EN60079-0, IEC/ EN60079-1, IEC/ EN60079-7 and IEC 60079-31
Application	For use with single wire armoured, wire braided and steel tape armoured elastomer and plastic insulated cables.
Continuous Operating Temp.	-60°C to +80°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	Neoprene inner seal and silicone outer seal
Gland sizes [mm]/NPT	16, 20, 25, 32, 40, 50, 63, 75, 80, 90, 100. or NPT sizes 1/2", 3/4", 1" 1 1/4", 1 1/2", 2", 2 1/2" 3", 3 1/2" 4"
Assembly instruction data sheet	A.I.302 for sizes Os –J
Arrangement drawing No.	501/453 RAC

Type 2d	Hazardous Area Cable Gland type 501/453/RAC/L
Classification	Flameproof Exd and Increased Safety Exe II 2 GD
Certification	CML19ATEX1167X for sizes Os to J IECEx CML 19.0043X for sizes Os to J
Construction and test standards	IEC/ EN60079-0, IEC/ EN60079-1, IEC/ EN60079-7 and IEC 60079-31
Application	For use with lead sheath single wire armoured, wire braided and steel tape armoured elastomer and plastic insulated cables
Continuous Operating Temp.	-60°C to +80°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	Neoprene inner seal and silicone outer seal
Gland sizes [mm]/NPT	16, 20, 25, 32, 40, 50, 63, 75, 80, 90, 100. or NPT sizes 1/2", 3/4", 1" 1 1/4", 1 1/2", 2", 2 1/2" 3", 3 1/2" 4"
Assembly instruction data sheet	A.I.302+336 for sizes O –J
Arrangement drawing No.	501/453 RAC

Type 2e	Hazardous Area Cable Gland type 501/453/Dedicated
Classification	Flameproof Exd and Increased Safety Exe II 2 GD
Certification	CML19ATEX1167X for sizes Os to J IECEx CML 19.0043X for sizes Os to J
Construction and test standards	IEC/ EN60079-0, IEC/ EN60079-1, IEC/ EN60079-7, IEC 60079-31
Application	For use with single wire armoured, wire braided and steel tape armoured elastomer and plastic insulated cables.
Continuous Operating Temp.	-60°C to +80°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	Neoprene inner, outer seal Os to F silicone and G to J neoprene
Gland sizes [mm]/NPT	16, 20, 25, 32, 40, 50, 63, 75, 80, 90, 100 or NPT sizes ½", ¾", 1", 1¼", 1½", 2", 2½", 3", 3½", 4"
Assembly instruction data sheet	A.I.302 for sizes Os –F, A.I.329 for sizes G to J
Arrangement drawing No.	501/453 Dedicated and 501/453 Dedicated G to J

Type 2f	Hazardous Area Cable Gland type 501/453/L Dedicated
Classification	Flameproof Exd and Increased Safety Exe II 2 GD
Certification	CML19ATEX1167X for sizes Os to J IECEx CML 19.0043X for sizes Os to J
Construction and test standards	IEC/ EN60079-0, IEC/ EN60079-1, IEC/ EN60079-7, IEC 60079-31
Application	For use with lead sheath single wire armoured, wire braided and steel tape armoured elastomer and plastic insulated cables,
Continuous Operating Temp.	-60°C to +80°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	Neoprene inner, outer seal Os to F silicone and G to J neoprene
Gland sizes [mm]/NPT	16, 20, 25, 32, 40, 50, 63, 75, 80, 90, 100 or NPT sizes ½", ¾", 1", 1¼", 1½", 2", 2½", 3", 3½", 4"
Assembly instruction data sheet	A.I.302+336 for sizes Os to F, A.I.329+336 for sizes G to J
Arrangement drawing No.	501/453 Dedicated and 501/453 Dedicated G to J

Type 2g	Hazardous Area Cable Gland type 501/452/RAC
Classification	Flameproof Exd and Increased Safety Exe II 2 GD
Certification	CML19ATEX1167X for sizes Os to F IECEx CML 19.0043X for sizes Os to F
Construction and test standards	IEC/ EN60079-0, IEC/ EN60079-1, IEC/ EN60079-7, IEC 60079-31
Application	For use with single wire armoured, wire braided and steel tape armoured elastomer and plastic insulated cables
Continuous Operating Temp.	-60°C to +80°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	Neoprene inner seal no outer seal
Gland sizes [mm]/NPT	16, 20, 25, 32, 40, 50, 63, 75, or NPT sizes ½", ¾", 1" 1¼", 1½", 2", 2½" 3"
Assembly instruction data sheet	A.I.350 for sizes Os –F
Arrangement drawing No.	501/452 RAC

Type 3a	Hazardous Area Cable Gland type PSG 553/RAC or Hazardous Area Cable Gland type P PSG 553/RAC
Classification	Flameproof Exd and Increased Safety Exe II 2 GD
Certification	CML19ATEX1167X for sizes A to C IECEx CML 19.0043X for sizes A to C CML 19ATEX1167X issue 2 dated 31 Mar 2022 covers variation 2 IECEx CML 21.0012X issue 1 dated 2022-03-31
Construction and test standards	IEC/ EN60079-0, IEC/ EN60079-1, IEC/ EN60079-7, IEC 60079-31
Application	For use with single wire armoured, wire braided and steel tape armoured elastomer and plastic insulated cables. For particular use with: a) Cables that are not effectively filled, compact and/or circular, have tape bedding or have hydroscopic fillers. b) Cables that exhibit "cold flow" characteristics. c) Enclosures for gas group IIC, under 2 litres in volume and containing an ignition source. d) Enclosures for gas groups IIA or IIB, which are greater than 2 litres and containing an ignition source.
Continuous Operating Temp.	-60°C to +80°C as standard or -60°C to +100°C when marked as P PSG/553/RAC as per CML 19ATEX1167X issue 2 dated 31 Mar 2022.
Ingress Protection	IP66, IP67, IP68, NEMA 4X
Deluge protection	Available as an option
Gland Material	Brass, stainless steel or aluminium may be plated or coated to suit application
Seal Material	Inner and outer seals silicone
Gland sizes [mm]/NPT	20, 25, 32, or NPT ½", ¾", 1" or 1¼"
Assembly instruction data sheet	A.I.312
Arrangement drawing No.	PSG 553 RAC

Type 3b	Hazardous Area Cable Gland type PSG 553 Dedicated
Classification	Flameproof Exd and Increased Safety Exe II 2 GD
Certification	CML19ATEX1167X for sizes A to C IECEx CML 19.0043X for sizes A to C
Construction and test standards	IEC/ EN60079-0, IEC/ EN60079-1, IEC/ EN60079-7, IEC 60079-31
Application	For use with single wire armoured, wire braided and steel tape armoured elastomer and plastic insulated cables. For particular use with: a) Cables that are not effectively filled, compact and/or circular, have tape bedding or have hydroscopic fillers. b) Cables that exhibit "cold flow" characteristics. c) Enclosures for gas group IIC, under 2 litres in volume and containing an ignition source. d) Enclosures for gas groups IIA or IIB, which are greater than 2
Continuous Operating Temp.	-60°C to +80°C as standard
Ingress Protection	IP66, IP67, IP68, NEMA 4X
Deluge protection	Available as an option
Gland Material	Brass, stainless steel or aluminium may be plated or coated to suit application
Seal Material	Inner and outer seals silicone
Gland sizes [mm]/NPT	20, 25, 32, or NPT ½", ¾", 1" or 1¼"
Assembly instruction data sheet	A.I.313
Arrangement drawing No.	PSG 553 Dedicated

Type 4	Hazardous Area Cable Gland type ICG 623 and QSP version
Classification	Flameproof Exd and Increased Safety Exe II 2 GD
Certification	Baseefa 06ATEX0058X for sizes Os to F IECEx BAS 06.0015X for sizes Os to F
Construction and test standards	IEC/ EN60079-0, IEC/ EN60079-1, IEC/ EN60079-7, IEC 60079-31
Application	For use with non-armoured elastomer and plastic insulated cables. For particular use with: a) Cables that are not effectively filled, compact and/or circular, have tape bedding or have hydroscopic fillers. b) Cables that exhibit "cold flow" characteristics. c) Enclosures containing an ignition source in gas group IIC areas or containing an ignition source in zone I area and exceeding 2 litres in volume.
Continuous Operating Temp.	-60°C to +80°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	Neoprene Outer Seal and - Santoprene and Epoxy Compound Inner Seal
Gland sizes [mm]/NPT	20, 25, 32, 40, 50, 63, 75, or NPT sizes ½", ¾", 1" 1¼", 1½", 2", 2½", 3"
Assembly instruction data sheet	A.I.305
Arrangement drawing No.	ICG 623

Type 5a	Hazardous Area Cable Gland type ICG 653/Universal and QSP version
Classification	Flameproof Exd and Increased Safety Exe II 2 GD
Certification	CML18ATEX1268X for sizes Os to F IECEx CML 18.0131X for sizes Os to F
Construction and test standards	IEC/ EN60079-0, IEC/ EN60079-1, IEC/ EN60079-7, IEC 60079-31
Application	For use with single wire armoured, wire braided and steel tape armoured elastomer and plastic insulated cables. For particular use with: a) Cables that are not effectively filled, compact and/or circular, have tape bedding or have hydroscopic fillers. b) Cables that exhibit "Cold Flow" characteristics. c) Enclosures containing an ignition source in zone I area.
Continuous Operating Temp.	-60°C to +80°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 Rubber Outer Seal - Santoprene Rubber and Epoxy Compound Inner Seal
Gland sizes [mm]/NPT	20, 25, 32, 40, 50, 63, 75,. or NPT sizes ½", ¾", 1" 1¼.", 1½.", 2", 2½" 3"
Assembly instruction data sheet	A.I.301
Arrangement drawing No.	ICG 653 Universal

Type 5 Hybrid	Hazardous Area Cable Gland type ICG 653/Universal – P and QSP version
Classification	Flameproof Exd and Increased Safety Exe II 2 GD
Certification	CML18AEX1268X for sizes Os to F IECEx CML 18.0131X for sizes Os to F
Construction and test standards	IEC/ EN60079-0, IEC/ EN60079-1, IEC/ EN60079-7, IEC 60079-31
Application	For use with single wire armoured, wire braided and steel tape armoured elastomer and plastic insulated cables. For particular use with: a) Cables that are not effectively filled, compact and/or circular, have tape bedding or have hydroscopic fillers. b) Cables that exhibit "Cold Flow" characteristics. c) Enclosures containing an ignition source in zone I area.
Continuous Operating Temp.	-60°C to +80°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 Rubber Outer Seal - Santoprene Rubber and Epoxy Compound Inner Seal
Gland sizes [mm]/NPT	20, 25, 32, 40, 50, 63, 75,. or NPT sizes ½", ¾", 1" 1¼.", 1½.", 2", 2½" 3"
Assembly instruction data sheet	AI 461 / Issue A 09/13 and AI 462 / Issue A – 09/13
Arrangement drawing No.	ICG 653 Universal-P

Type 5b	Hazardous Area Cable Gland ICG 653/Universal/L and QSP version
Classification	Flameproof Exd and Increased Safety Exe II 2 GD
Certification	CML18AEX1268X for sizes Os to F IECEx CML 18.0131X for sizes Os to F
Construction and test standards	IEC/ EN60079-0, IEC/ EN60079-1, IEC/ EN60079-7 and IEC 60079-31
Application	For use with lead sheath single wire armoured, wire braided and steel tape armoured elastomer and plastic insulated cables.
Continuous Operating Temp.	-60°C to +80°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 Rubber Outer Seal - Santoprene Rubber and Epoxy Compound Inner Seal
Gland sizes [mm]/NPT	20, 25, 32, 40, 50, 63, 75, or NPT sizes ½", ¾", 1" 1¼", 1½", 2", 2½" 3"
Assembly instruction data sheet	A.I.301+336
Arrangement drawing No.	ICG 653 Universal

Type 5c	Hazardous Area Cable Gland ICG 653/Dedicated and QSP version
Classification	Flameproof Exd and Increased Safety Exe II 2 GD
Certification	CML18AEX1268X for sizes Os to F IECEx CML 18.0131X for sizes Os to F
Construction and test standards	IEC/ EN60079-0, IEC/ EN60079-1, IEC/ EN60079-7 and IEC 60079-31
Application	For use with single wire armoured, wire braided and steel tape armoured elastomer and plastic insulated cables.
Continuous Operating Temp.	-60°C to +80°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 Rubber Outer Seal - Santoprene Rubber and Epoxy Compound Inner Seal
Gland sizes [mm]/NPT	20, 25, 32, 40, 50, 63, 75, or NPT sizes ½", ¾", 1" 1¼", 1½", 2", 2½" 3"
Assembly instruction data sheet	A.I.301+336
Arrangement drawing No.	ICG 653 Dedicated

Type 5d	Hazardous Area Cable Gland type ICG 653 and CSB656 oversize
Classification	Flameproof Exd IIC 2 GD
Certification	Baseefa 08ATEX0015X for sizes J
Construction and test standards	EN60079-0, EN60079-1, EN60079-7, EN 61241-0 and EN 61241-1
Application	a) ICG 653 - For use with single wire armoured, wire braided and steel tape armoured elastomer and plastic insulated cables. b) For use with conduit systems that incorporate individual conductors
Continuous Operating Temp.	-60°C to +80°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 Rubber Outer Seal - Santoprene Rubber and Epoxy Compound Inner Seal
Gland sizes [mm]/NPT	M100 or NPT sizes 4"
Assembly instruction data sheet	A.I.359
Arrangement drawing No.	ICG 653 and CSB656 oversize

Type 5e	Hazardous Area Cable Gland type CSB 656 and QSP version
Classification	Flameproof Exd and Increased Safety Exe II 2 GD
Certification	Baseefa 06ATEX0058X for sizes A to F IECEx BAS 06.0015X for sizes A to F
Construction and test standards	IEC/ EN60079-0, IEC/ EN60079-1, IEC/ EN60079-7 and IEC 60079-31
Application	For use with conduit systems that incorporate individual conductors
Continuous Operating Temp.	-60°C to +80°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 Rubber Outer Seal - Santoprene Rubber and Epoxy Compound Inner Seal
Gland sizes [mm]/NPT	20, 25, 32, 40, 50, 63, 75, or NPT sizes 1/2", 3/4", 1" 1/4", 1.1/2", 2", 2 1/2" 3"
Assembly instruction data sheet	A.I.311
Arrangement drawing No.	CSB 656

Type 5f	Hazardous Area Cable Gland type ICG 611 and QSP version
Classification	Flameproof Exd and Increased Safety Exe II 2 GD
Certification	Baseefa 06ATEX0058X for sizes Os to F IECEx BAS 06.0015X for sizes Os to F
Construction and test standards	IEC/ EN60079-0, IEC/ EN60079-1, IEC/ EN60079-7 and IEC 60079-31
Application	Metal clad MC and TECK type cables a) Cables that are not effectively filled, compact and/or circular, have tape bedding or have hydroscopic fillers. b) Enclosures containing an ignition source in zone I area.
Continuous Operating Temp.	-60°C to +80°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 Rubber Outer Seal - Santoprene Rubber and Epoxy Compound Inner Seal
Gland sizes [mm]/NPT	20, 25, 32, 40, 50, 63, 75,. or NPT sizes ½", ¾", 1" 1¼", 1½", 2", 2½" 3"
Assembly instruction data sheet	A.I.359
Arrangement drawing No.	ICG 611

Type 5g	Hazardous Area Cable Gland type CSB 656N and QSP version
Classification	Flameproof Exd and Increased Safety Exe II 2 GD
Certification	Baseefa 06ATEX0058X for sizes A to F IECEx BAS 06.0015X for sizes A to F
Construction and test standards	IEC/ EN60079-0, IEC/ EN60079-1, IEC/ EN60079-7and IEC 60079-31
Application	For use with conduit systems that incorporate individual conductors
Continuous Operating Temp.	-60°C to +80°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 Rubber Outer Seal - Santoprene Rubber and Epoxy Compound Inner Seal
Gland sizes [mm]/NPT	20, 25, 32, 40, 50, 63, 75, or NPT sizes ½", ¾", 1" 1¼", 1. 1½", 2", 2½" 3"
Assembly instruction data sheet	A.I.375
Arrangement drawing No.	CSB 656N

Type 6	Hazardous Area Cable Gland type 710,711,753 and 755
Classification	Flameproof Exd, Restricted Breathing ExnR and Increased Safety Exe II 2 GD
Certification	Sira 06ATEX1295X for sizes A to F IECEx Sir 06.0082X for sizes A to F Sira 07ATEX4330X for sizes A to F (710,711 and 753 only)
Construction and test standards	IEC/ EN60079-0, IEC/ EN60079-1, IEC/ EN60079-7, IEC/EN60079-15 IEC 60079-31
Application	For use with braid armoured marine shipboard jacketed or non jacketed cable (Types 753), Metal clad armoured HLMC /TECK cables (711), Unarmoured TC type cables (710), SWA armoured cables (755).
Continuous Operating Temp.	-50°C to 80°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 Rubber Outer seal and Epoxy Compound Inner seal
Gland sizes [mm]/NPT	20, 25, 32, 40, 50, 63, 75 or NPT sizes ½", ¾", 1" 1¼", 1½", 2", 2½", 3"
Assembly instruction data sheet	A.I.391 for 710 , A.I 389 for 711, A.I.373 for 753 and A.I 382 for 755 - sizes A–F in all cases
Arrangement drawing No.	ATEX710, ATEX711, ATEX753 and ATEX755

Type 7a	Cable Gland type 321 Increased Safety
Classification	Increased Safety Exe II 2 GD
Certification	Baseefa 06ATEX0059X Os to L IECEx BAS 06.0016X Os to L
Construction and test standards	IEC/ EN60079-0, IEC/ EN60079-7 and IEC 60079-31
Application	For use with non armoured elastomer and plastic insulated cables.
Continuous Operating Temp.	-60°C to +100°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	Neoprene Inner Seal
Gland sizes [mm]/NPT	16,20, 25, 32, 40, 50, 63, 75, 80, 90, 100. 110, 120 or NPT sizes ½", ¾", 1" 1¼.", 1½", 2", 2½" 3" 3½", 4" 5"
Assembly instruction data sheet	A.I.307 for sizes Os -L
Arrangement drawing No.	321 and 321 G to L
Type 7b	Cable Gland type 321/R Increased Safety, with or without stopping plug
Classification	Increased Safety Exe II 2 GD
Certification	Baseefa 06ATEX0059X Os to C2 IECEx.BAS.06.0016X Os to C2
Construction and test standards	IEC/ EN60079-0, IEC/ EN60079-7,
Application	For use with non armoured elastomer and plastic insulated cables.
Continuous Operating Temp.	-60°C to +100°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
Seal Material	Neoprene Inner Seal
Gland sizes [mm]/NPT	16,20, 25, 32, 40 or NPT sizes ½", ¾", 1" 1¼.", 1½", 2"
Assembly instruction data sheet	A.I.452 for sizes Os –C2
Arrangement drawing No.	321/R

Type 8	Cable Gland type 351/RAC Increased Safety
Classification	Increased Safety Exe II 2 GD
Certification	Baseefa 06ATEX0059X Os to F IECEx BAS 06.0016X Os to F
Construction and test standards	IEC/ EN60079-0, IEC/ EN60079-7, IEC/EN 60079-31
Application	For use with single wire armoured, wire braided and steel tape armoured elastomer and plastic insulated cables.
Continuous Operating Temp.	-60°C to +80°C as standard
Ingress Protection	IP66, IP67, IP68, NEMA 4X
Deluge protection	Available as an option
Gland Material	Brass, stainless steel or aluminium may be plated or coated to suit application
Seal Material	No inner seal
Gland sizes [mm]/NPT	16 20, 25, 32, 40, 50, 63, 75 or NPT sizes 1/2", 3/4", 1" 1 1/4", 1 1/2", 2", 2 1/2" 3"
Assembly instruction data sheet	A.I.308 for sizes Os –F
Arrangement drawing No.	351 RAC

Type 9a	Cable Gland type 351/Dedicated Increased Safety
Classification	Increased Safety Exe II 2 GD
Certification	Baseefa 06ATEX0059X Os to J IECEx BAS 06.0016X Os to J
Construction and test standards	IEC/ EN60079-0, IEC/ EN60079-7 and IEC 60079-31
Application	For use with single wire armoured, wire braided and steel tape armoured elastomer and plastic insulated cables.
Continuous Operating Temp.	-60°C to +80°C as standard
Ingress Protection	IP66, IP67, IP68, NEMA 4X
Deluge protection	Available as an option
Gland Material	Brass, stainless steel or aluminium may be plated or coated to suit application
Seal Material	No inner seal Outer seal silicone sizes Os to F and neoprene for sizes G to J
Gland sizes [mm]/NPT	16 20, 25, 32, 40, 50, 63, 75, 80, 90, 100 or NPT sizes 1/2", 3/4", 1" 1 1/4", 1 1/2", 2", 2 1/2" 3", 3 1/2"
Assembly instruction data sheet	A.I.314 for sizes Os –F, A.I 335 for sizes G to J
Arrangement drawing No.	351 Dedicated and 351 Dedicated G to J

Type 9b	Cable Gland type 353/RAC Increased Safety
Classification	Increased Safety Exe II 2 GD
Certification	Baseefa 06ATEX0059X Os to F IECEx BAS 06.0016X Os to F
Construction and test standards	IEC/ EN60079-0, IEC/ EN60079-7 and IEC 60079-31
Application	For use with single wire armoured, wire braided and steel tape armoured elastomer and plastic insulated cables.
Continuous Operating Temp.	-60°C to +80°C as standard
Ingress Protection	IP66, IP67, IP68, NEMA 4X
Deluge protection	Available as an option
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	16 20, 25, 32, 40, 50, 63, 75 or NPT sizes ½", ¾", 1" 1¼", 1½", 2", 2½" 3", 3½" 1" 1¼", 1½", 2", 2 ½" 3",
Assembly instruction data sheet	A.I.302 for sizes Os –F
Arrangement drawing No.	353 RAC

Type 9c	Cable Gland type 353/Dedicated Increased Safety
Classification	Increased Safety Exe II 2 GD
Certification	Baseefa 06ATEX0059X Os to J IECEx BAS 06.0016X Os to J
Construction and test standards	IEC/ EN60079-0, IEC/ EN60079-7 and IEC 60079-31
Application	For use with single wire armoured, wire braided and steel tape armoured elastomer and plastic insulated cables.
Continuous Operating Temp.	-60°C to +80°C as standard
Ingress Protection	IP66, IP67, IP68, NEMA 4X
Deluge protection	Available as an option
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	16, 20, 25, 32, 40, 50, 63, 75, 80, 90, 100 or NPT sizes ½", ¾", 1" 1¼", 1½", 2", 2 ½" 3" 3 ½", 4",
Assembly instruction data sheet	A.I.302 for sizes Os –F A.I.329 for sizes G to J
Arrangement drawing No.	353 Dedicated and 353 Dedicated G to J

Type Xx	Cable Gland type APEX A2F Increased Safety
Classification	Ex db eb IIC Gb, Ex ta IIIC Da
Certification	IECEX CML 23.0002X issue 2023-05-08.
Construction and test standards	EN IEC 60079-0, EN IEC 60079-1, EN IEC 60079-7 and EN IEC 60079-31
Application	The Hawke APEX A2F Range of cable glands are designed to form a seal around the outer sheath of a cable and are intended for use with circular non armoured and braided cables.
Continuous Operating Temp.	-60°C to +130°C
Ingress Protection	IP66, IP67
Deluge protection	Deluge boot (optional)
Gland Material	Brass or stainless steel, all of which may be plated
Seal Material	Thermoset rubber seals
Gland sizes [mm]/NPT	M16, M20, M25, M32, M40, M50, M75 or NPT sizes ½", ¾", 1", 1¼.", 1½", 2"
Assembly instruction data sheet	AI2054 for sizes Os to F.
Arrangement drawing No.	CML Approved deck of 12 detail drawings dated 08.05.2023 IECEX CML 23.0001X Iss 0

Type Xx	Cable Gland type APEX E1F* Increased Safety
Classification	Ex db eb IIC Gb, Ex ta IIIC Da
Certification	IECEX CML 23.0002X issue 2023-05-08.
Construction and test standards	EN IEC 60079-0, EN IEC 60079-1, EN IEC 60079-7 and EN IEC 60079-31
Application	The Hawke APEX E1F* Range of cable glands are designed to form a seal around both the inner and outer sheath of the cable and are intended for use with a range of circular cables including armoured, non-armoured and braided cables. This gland type includes an integral armour/braid grounding device.
Continuous Operating Temp.	-60°C to +130°C
Ingress Protection	IP66, IP67
Deluge protection	Deluge boot (optional)
Gland Material	Brass or stainless steel, all of which may be plated
Seal Material	Thermoset rubber seals
Gland sizes [mm]/NPT	M16, M20, M25, M32, M40, M50, M75 or NPT sizes ½", ¾", 1", 1¼.", 1½", 2"
Assembly instruction data sheet	APEX E1FX, APEX E1FU, APEX E1FW Instructions cover sizes Os to F
Arrangement drawing No.	CML Approved deck of 12 detail drawings dated 08.05.2023 IECEX CML 23.0001X Iss 0

Type Xx	Cable Gland type APEX C*e Increased Safety
Classification	Increased Safety Ex eb IIC Gb, Ex ta IIIC Da
Certification	IECEX CML 23.0001X
Construction and test standards	IEC/ EN60079-0, IEC/ EN60079-7 and IEC 60079-31
Application	The Hawke APEX C*e Range of cable glands are designed to form a seal around the outer sheath of a cable and are intended for use with a range of circular cables including armoured, non-armoured and braided cables. The gland type includes an integral armour/braid grounding device.
Continuous Operating Temp.	-60°C to +130°C
Ingress Protection	IP66, IP67
Deluge protection	Deluge boot is part of the gland
Gland Material	Brass or stainless steel, all of which may be plated
Seal Material	Thermoset rubber seals
Gland sizes [mm]/NPT	M16, M20, M25, M32, M40, M50, M75 or NPT sizes ½", ¾", 1", 1¼", 1½", 2"
Assembly instruction data sheet	APEX CUe, APEX CWe, APEX CXe. Sizes O to F.
Arrangement drawing No.	CML Approved deck of 12 detail drawings dated 08.05.2023 IECEX CML 23.0001X Iss 0

Type 10a	North American Series Cable Gland type 710
Classification	Explosion Proof Class 1 Div 2 Gas groups A,B,C and D and AExd IIC and AExe II Class I, Zone2
Certification	UL file number E84940
Construction and test standards	UL listed locations in USA and Canada. E84940.
Application	For use with non-armoured cable, as permitted by the NEC.
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 Rubber Outer seal and Epoxy Compound Inner seal
Gland sizes [mm]/NPT	20, 25, 32, 40, 50, 63, 75, or NPT sizes ½", ¾", 1" 1¼", 1½", 2", 2 ½" 3"
Assembly instruction data sheet	A.I.316 for sizes A–F
Arrangement drawing No.	710

Type 10b	North American Series Cable Gland type S710
Classification	Explosion Proof Class 1 Div 2 Gas groups A,B,C and D and AExd IIC and AExe II Class I, Zone2
Certification	UL file number E84940
Construction and test standards	UL listed locations in USA and Canada. E84940.
Application	For use with non-armoured cable, as permitted by the NEC.
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 Rubber Outer seal and Epoxy Compound Inner seal
Gland sizes [mm]/NPT	20, 25, 32, 40, 50, 63, 75, 90. or NPT sizes 1/2", 3/4", 1" 1 1/4", 1 1/2", 2", 2 1/2" 3" 3 1/2"
Assembly instruction data sheet	A.I.361 for sizes A–F
Arrangement drawing No.	S710

Type 11a	North American Series Cable Gland type 711 Class 1 Division 1
Classification	Explosion Proof Class 1 Div 1 Gas groups A,B,C and D and AExd IIC and AExe II Class I, Zone 1
Certification	UL file number E84940
Construction and test standards	UL listed locations in USA and Canada. E84940.
Application	For use with continuous corrugated aluminium, Metal Clad (MCHL) 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 Rubber Outer seal and Epoxy Compound Inner seal
Gland sizes [mm]/NPT	20, 25, 32, 40, 50, 63, 75, 90. or NPT sizes 1/2", 3/4", 1" 1 1/4", 1 1/2", 2", 2 1/2" 3" 3 1/2"
Assembly instruction data sheet	A.I.317 for sizes A–F, A.I.338 for size H
Arrangement drawing No.	711

Type 11b	North American Series Cable Gland type S711 Class 1 Division 1
Classification	Explosion Proof Class 1 Div 1 Gas groups A,B,C and D and AExd IIC and AExe II Class I, Zone 1
Certification	UL file number E84940
Construction and test standards	UL listed locations in USA and Canada. E84940.
Application	For use with continuous corrugated aluminium, Metal Clad (MCHL) 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 Rubber Outer seal and Epoxy Compound Inner seal
Gland sizes [mm]/NPT	20, 25, 32, 40, 50, 63, 75, 90. or NPT sizes 1/2", 3/4", 1" 1 1/4", 1 1/2", 2", 2 1/2" 3" 3 1/2"
Assembly instruction data sheet	A.I.348 for sizes A–H
Arrangement drawing No.	S711

Type 12a	North American Series Cable Gland type 753
Classification	Explosion Proof Class 1 Div 1 Gas groups A,B,C and D and AExd IIC and AExe II Class I, Zone 1
Certification	UL file number E84941
Construction and test standards	UL listed locations in USA and Canada. E84941.
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 Rubber Outer seal and Epoxy Compound Inner seal
Gland sizes [mm]/NPT	20, 25, 32, 40, 50, 63, 75, 90. or NPT sizes 1/2", 3/4", 1" 1 1/4", 1 1/2", 2", 2 1/2" 3" 3 1/2"
Assembly instruction data sheet	A.I.318 for sizes A–F A.I.339 for size H
Arrangement drawing No.	753

Type 12b	North American Series Cable Gland type S753
Classification	Explosion Proof Class 1 Div 1 Gas groups A,B,C and D and AExd IIC and AExe II Class I, Zone 1
Certification	UL file number E84941
Construction and test standards	UL listed locations in USA and Canada. E84941.
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 Rubber Outer seal and Epoxy Compound Inner seal
Gland sizes [mm]/NPT	20, 25, 32, 40, 50, 63, 75, 90. or NPT sizes 1/2", 3/4", 1" 1 1/4", 1 1/2", 2", 2 1/2" 3" 3 1/2"
Assembly instruction data sheet	A.I.362 for sizes A–F, A.I.339 for size H
Arrangement drawing No.	S753

Type 13a	North American Series Cable Gland type 755
Classification	Explosion Proof Class 1 Div 2 Gas groups A,B,C and D and AExd IIC and AExe II Class I, Zone 2
Certification	UL file number E84940
Construction and test standards	UL 2225, listed locations in USA and Canada. E84940.
Application	For use with armoured or braided 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 Rubber Outer seal and Epoxy Compound Inner seal
Gland sizes [mm]/NPT	20, 25, 32, 40, 50, 63, 75, 90. or NPT sizes 1/2", 3/4", 1" 1 1/4", 1 1/2", 2", 2 1/2" 3" 3 1/2"
Assembly instruction data sheet	A.I.318 for sizes A–F, A.I.339 for size H
Arrangement drawing No.	755

Type 13b	North American Series Cable Gland type S755
Classification	Explosion Proof Class 1 Div 2 Gas groups A,B,C and D and AExd IIC and AExe II Class I, Zone 2
Certification	UL file number E84940
Construction and test standards	UL 2225, listed locations in USA and Canada. E84940.
Application	For use with armoured or braided 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 Rubber Outer seal and Epoxy Compound Inner seal
Gland sizes [mm]/NPT	20, 25, 32, 40, 50, 63, 75, 90. or NPT sizes 1/2", 3/4", 1" 1 1/4", 1 1/2", 2", 2 1/2" 3" 3 1/2"
Assembly instruction data sheet	A.I.318 for sizes A–F, A.I.339 for size H
Arrangement drawing No.	S755

Optional Accessories:

Type 476 Adapters and reducers certified under Baseefa certificate Baseefa11ATEX0067X , IECEx BAS 11.0037X .
CSA Certificate 1731876 for flameproof Exd IIC and increased safety Exe II applications.

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

Application/Limitation

The manufacturers application instructions to be followed,
The manufacturers assembly instructions to be followed,

Type Approval documentation

Datasheets: See each construction.

EC type examination certificates are only recognised together with a valid Quality Assurance Notification. UL Listing Cards

Tests carried out

Type tests according to IEC/EN 60079-0, IEC/EN 60079-1, IEC/ EN 60079-7, IEC/EN60079/-15, IEC/EN60079-31, BS6121, EN50262, UL514B and UL 2225 Standard.

Marking of product

According to type examination certificate

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