

TYPE APPROVAL CERTIFICATE

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
Lancashire, United Kingdom**

is found to comply with

Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards**Application :****Hazardous areas cable glands.
Manufacturer's installation description to be followed.**This Certificate is valid until **2018-12-31**.Issued at **Høvik** on **2015-02-12**DNV GL local station: **Manchester**Approval Engineer: **Ivar Bull**for **DNV GL**

Digitally Signed By: Laumann, Marit

Location: DNV GL Høvik, Norway

Signing Date: 2015-03-11

**Marit Laumann
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.

Certificate No: **E-14060**
 File No: **828.90**
 Job Id: **262.1-010600-3**

Product description

| Type 1a | Hazardous Area Cable Gland type 501/421 |
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| Classification | Flameproof Exd and Increased Safety Exe II 2 GD. Note: - 121 type cable gland is for Industrial applications only |
| Certification | Baseefa 06ATEX0056X for sizes Os to J IECEX BAS 06.0013X 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 |
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| Classification | Flameproof Exd and Increased Safety Exe II 2 GD Note: - 123 type cable gland is for Industrial applications only |
| Certification | Baseefa 06ATEX0056X for sizes Os to J IECEX BAS 06.0013X 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 |
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| 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 |

Certificate No: **E-14060**
 File No: **828.90**
 Job Id: **262.1-010600-3**

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| 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 | Baseefa 06ATEX0056X for sizes Os to C2 IECEX BAS 06.0013X 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 |

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| 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 |

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| 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 | Baseefa 09ATEX0233X for sizes Os to F Baseefa 06ATEX0057X for sizes Os to F IECEX BAS 06.0014X for sizes Os to F |

Certificate No: **E-14060**
 File No: **828.90**
 Job Id: **262.1-010600-3**

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| 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 |

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| 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 | Baseefa 06ATEX0056X for sizes Os to J IECEX BAS 06.0013X 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 ½", ¾", 1" 1¼.", 1½", 2", 2½" 3", 3½" 4" |
| Assembly instruction data sheet | A.I.302 for sizes Os –J |
| Arrangement drawing No. | 501/453 RAC |

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| Type 2d | Hazardous Area Cable Gland type 501/453/RAC/L |
| Classification | Flameproof Exd and Increased Safety Exe II 2 GD |
| Certification | Baseefa 06ATEX0056X for sizes Os to J IECEX BAS 06.0013X 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 ½", ¾", 1" 1¼.", 1½", 2", 2½" 3", 3½" 4" |
| Assembly instruction data sheet | A.I.302+336 for sizes O –J |
| Arrangement drawing No. | 501/453 RAC |

Certificate No: **E-14060**
 File No: **828.90**
 Job Id: **262.1-010600-3**

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| Type 2e | Hazardous Area Cable Gland type 501/453/Dedicated |
| Classification | Flameproof Exd and Increased Safety Exe II 2 GD |
| Certification | Baseefa 06ATEX0056X for sizes Os to J IECEX BAS 06.0013X 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 |

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| 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 |

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| Type 2f | Hazardous Area Cable Gland type 501/453/L Dedicated |
| Classification | Flameproof Exd and Increased Safety Exe II 2 GD |
| Certification | Baseefa 06ATEX0056X for sizes Os to J IECEX BAS 06.0013X 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 |

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| Type 2g | Hazardous Area Cable Gland type 501/452/RAC |
| Classification | Flameproof Exd and Increased Safety Exe II 2 GD |
| Certification | Baseefa 06ATEX0056X for sizes Os to F IECEX BAS 06.0013X 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 |

Certificate No: **E-14060**
 File No: **828.90**
 Job Id: **262.1-010600-3**

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| Arrangement drawing No. | 501/452 RAC |
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| Type 3a | Hazardous Area Cable Gland type PSG 553/RAC |
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| Classification | Flameproof Exd and Increased Safety Exe II 2 GD |
| Certification | Baseefa 06ATEX0056X for sizes A to C IECEX BAS 06.0013X 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 litres and containing an ignition source. |
| 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.312 |
| Arrangement drawing No. | PSG 553 RAC |

| Type 3b | Hazardous Area Cable Gland type PSG 553 Dedicated |
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| Classification | Flameproof Exd and Increased Safety Exe II 2 GD |
| Certification | Baseefa 06ATEX0056X for sizes A to C IECEX BAS 06.0013X 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 litres and containing an ignition source. |
| 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 |

Certificate No: **E-14060**
 File No: **828.90**
 Job Id: **262.1-010600-3**

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| 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, |

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| | 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 |

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| Type 5a | Hazardous Area Cable Gland type ICG 653/Universal 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 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 |

Certificate No: **E-14060**
 File No: **828.90**
 Job Id: **262.1-010600-3**

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| 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 | Baseefa 06ATEX0058X/8 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 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 |

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| | "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 |

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| Type 5b | Hazardous Area Cable Gland ICG 653/Universal/L 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 | 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 |

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| Type 5c | Hazardous Area Cable Gland ICG 653/Dedicated 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 | For use with single wire armoured, wire braided and steel tape armoured elastomer and plastic insulated cables. |

Certificate No: **E-14060**
 File No: **828.90**
 Job Id: **262.1-010600-3**

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| 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 |

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| 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 |

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| 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 ½", ¾", 1" 1¼.", 1. 1½", 2", 2½" 3" |
| Assembly instruction data sheet | A.I.311 |
| Arrangement drawing No. | CSB 656 |

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| 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 |

Certificate No: **E-14060**
 File No: **828.90**
 Job Id: **262.1-010600-3**

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| 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 |

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| 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 |

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| 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/ EN60079-7 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 ½", ¾", 1" 1¼.", 1. 1½", 2", 2½" 3" |
| Assembly instruction data sheet | A.I.375 |
| Arrangement drawing No. | CSB 656N |

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| 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", 2 ½", 3" |

Certificate No: **E-14060**
 File No: **828.90**
 Job Id: **262.1-010600-3**

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| Assembly instruction data sheet | A.I.391 for 710 , A.I 389 for 711, A.I373 for 753 and A.I 382 for 755 - sizes A–F in all cases |
| Arrangement drawing No. | ATEX710, ATEX711, ATEX753 and ATEX755 |

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| 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 |
| Classification | Increased Safety Exe II 2 GD |
| Certification | Baseefa 06ATEX0059X 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 |

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| 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 ½", ¾", 1" 1¼.", 1½", 2", 2½" 3" |
| Assembly instruction data sheet | A.I.308 for sizes Os –F |
| Arrangement drawing No. | 351 RAC |

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| Type 9a | Cable Gland type 351/Dedicated Increased Safety |
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Certificate No: **E-14060**
 File No: **828.90**
 Job Id: **262.1-010600-3**

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| 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 |

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| 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 ½", ¾", 1" 1¼", 1½", 2", 2½" 3", 3½" |
| 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 |

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| 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 |

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| 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", |

Certificate No: **E-14060**
 File No: **828.90**
 Job Id: **262.1-010600-3**

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| 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 |

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| 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 |

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| 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 |

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| 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 ½", ¾", 1" 1¼", 1½", 2", 2 ½" 3" 3 ½" |
| Assembly instruction data sheet | A.I.361 for sizes A–F |
| Arrangement drawing No. | S710 |

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| 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 continous 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 ½", ¾", 1" 1¼", 1½", 2", 2 ½" 3" 3 ½" |

Certificate No: **E-14060**
 File No: **828.90**
 Job Id: **262.1-010600-3**

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| Assembly instruction data sheet | A.I.317 for sizes A–F, A.I.338 for size H |
| Arrangement drawing No. | 711 |

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| 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 |

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|---------------------------------|----------------------------------------------------------------------------------|
| 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 ½", ¾", 1" 1¼", 1½", 2", 2½" 3" 3½" |
| Assembly instruction data sheet | A.I.348 for sizes A–H |
| Arrangement drawing No. | S711 |

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|---------------------------------|-----------------------------------------------------------------------------------------------|
| 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 ½", ¾", 1" 1¼", 1½", 2", 2½" 3" 3½" |
| Assembly instruction data sheet | A.I.318 for sizes A–F A.I.339 for size H |
| Arrangement drawing No. | 753 |

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|---------------------------------|-----------------------------------------------------------------------------------------------|
| 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 |

Certificate No: **E-14060**
 File No: **828.90**
 Job Id: **262.1-010600-3**

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| 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 ½", ¾", 1" 1¼", 1½", 2", 2 ½" 3" 3 ½" |
| Assembly instruction data sheet | A.I.362 for sizes A–F, A.I.339 for size H |
| Arrangement drawing No. | S753 |

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|---------------------------------|-----------------------------------------------------------------------------------------------|
| 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 ½", ¾", 1" 1¼", 1½", 2", 2 ½" 3" 3 ½" |
| Assembly instruction data sheet | A.I.318 for sizes A–F, A.I.339 for size H |
| Arrangement drawing No. | 755 |

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|---------------------------------|-----------------------------------------------------------------------------------------------|
| 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 ½", ¾", 1" 1¼", 1½", 2", 2 ½" 3" 3 ½" |
| 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 Baseefa 07ATEX0194X, IECEx BAS07.057X, SIRA 06ATEX 1240U and IECEx SIR07. 0037X for flameproof Exd IIC and increased safety Exe II applications.

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.

Certificate No: **E-14060**
File No: **828.90**
Job Id: **262.1-010600-3**

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 is complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection of factory samples, selected at random from the production line (where practicable)
- Results from production sample tests (PST) and routine tests (RT) to be checked (if not available tests according to PST and RT to be carried out)
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and type approval certificate

Assessment to be performed at least every second year.

END OF CERTIFICATE