

Flameproof Glands

E1WF EEx d IIC & EEx e II Aluminium Gland 455 Series

BICON

Application

- > For aluminium wire armoured cable

Features & Benefits

- > Aluminium indoor and outdoor cable gland for use in hazardous areas
- > Suitable for circular, aluminium wire armour cables with extruded polymeric bedding and oversheath
- > Achieves IP66 seal onto cable and to enclosure with suitable sealing washer or thread sealant
- > Three part armour lock provides mechanical cable retention and electrical continuity
- > Inner seal grips cable bedding and provides additional ingress protection
- > Suitable for most climatic conditions - weatherproof and waterproof
- > Matching accessory kits available

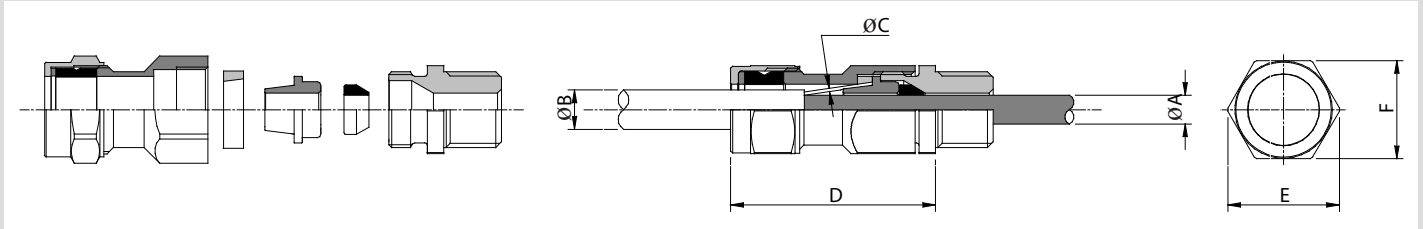


Technical Data

- > Certified II 2GD, EEx e II & EEx d IIC under ATEX directive 94/9/EC
- > Certificate number Sira02ATEX3092X
- > Service temperature range -60°C to +90°C
- > May be used in:
 - Zones 0, 1 & 2 with EEx ia IIA, B & C equipment
 - Zones 1 & 2 with EEx ib IIA, B & C equipment
 - Zones 1 & 2 with EEx e II equipment
 - Zones 1 & 2 with EEx p II equipment
 - Zones 2 with EEx nA II equipment
 - Zone 21 & 22 with EEx tD II equipment
- > Where the cable is effectively filled, may also be used in:
 - Zones 1 & 2 with EEx d IIC equipment not containing a source of ignition & with a volume less than 2000cm³
 - Zones 1 & 2 with EEx d IIA & EEx d IIB equipment not containing a source of ignition & with any volume
 - Zone 1 with EEx d IIA & EEx d IIB equipment containing a source of ignition & with a volume less than 2000cm³
 - Zone 2 with EEx d IIA & EEx d IIB equipment containing a source of ignition & with any volume
 - Zone 2 with EEx nR II equipment



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Gland Details

| Basic Size | Gland References & Thread Sizes | | | | Cable Dimensions mm | | | | | Gland Dimensions mm | | |
|------------|---------------------------------|---------------|------------|---------------|-----------------------|-------|------------------|------|---------------------|---------------------|--------------|---------|
| | Metric | | NPT | | Inner Sheath Dia. 'A' | | Overall Dia. 'B' | | Braid Wire Dia. 'C' | Approx. Length 'D' | Hexagon Size | |
| | Design No. | Thread Size * | Design No. | Thread Size | Min | Max | Min | Max | | | A/C 'E' | A/F 'F' |
| 16 | 455AA51 | M16 × 1.5 | 455NP03 | ½" - 14 NPT | 3.81 | 8.74 | 8.0 | 13.2 | 0.9 | 41 | 26.7 | 23.4 |
| 20SS | 455AA71 | M20 × 1.5 | | | 3.81 | 8.74 | 8.0 | 13.2 | 0.9 | 41 | 26.7 | 23.4 |
| 20S | 455AA52 | M20 × 1.5 | 455NP04 | ½" - 14 NPT | 8.00 | 11.79 | 8.0 | 15.8 | 0.9 / 1.4 | 43 | 29.2 | 25.7 |
| 20S | | | 455NP07 | ¾" - 14 NPT | 8.00 | 11.79 | 8.0 | 15.8 | 0.9 / 1.4 | 43 | 31.8 | 27.9 |
| 20 | 455AA53 | M20 × 1.5 | 455NP05 | ½" - 14 NPT | 11.79 | 14.15 | 11.7 | 20.8 | 0.9 / 1.4 | 43 | 34.0 | 30.5 |
| 20 | | | 455NP08 | ¾" - 14 NPT | 11.79 | 14.15 | 11.7 | 20.8 | 0.9 / 1.4 | 43 | 34.0 | 30.5 |
| 25 | 455AA55 | M25 × 1.5 | 455NP10 | ¾" - 14 NPT | 14.00 | 20.12 | 17.0 | 27.2 | 1.25 / 1.6 | 48 | 42.2 | 37.6 |
| 25 | | | 455NP14 | 1" - 11½ NPT | 14.00 | 20.12 | 17.0 | 27.2 | 1.25 / 1.6 | 48 | 42.2 | 37.6 |
| 32 | 455AA56 | M32 × 1.5 | 455NP15 | 1" - 11½ NPT | 19.70 | 26.55 | 23.5 | 33.5 | 1.6 / 2.0 | 53 | 53.6 | 47.2 |
| 32 | | | 455NP20 | 1¼" - 11½ NPT | 19.70 | 26.55 | 23.5 | 33.5 | 1.6 / 2.0 | 53 | 53.6 | 47.2 |
| 40 | 455AA57 | M40 × 1.5 | 455NP21 | 1¼" - 11½ NPT | 26.55 | 32.42 | 29.0 | 39.9 | 1.6 / 2.0 | 56 | 61.5 | 56.4 |
| 40 | | | 455NP27 | 1½" - 11½ NPT | 26.55 | 32.42 | 29.0 | 39.9 | 1.6 / 2.0 | 56 | 61.5 | 56.4 |
| 50S | 455AA58 | M50 × 1.5 | 455NP28 | 1½" - 11½ NPT | 32.42 | 38.39 | 38.0 | 46.2 | 2.0 / 2.5 | 61 | 66.0 | 60.0 |
| 50S | | | 455NP31 | 2" - 11½ NPT | 32.42 | 38.39 | 38.0 | 46.2 | 2.0 / 2.5 | 61 | 72.1 | 65.5 |
| 50 | 455AA59 | M50 × 1.5 | 455NP32 | 2" - 11½ NPT | 38.39 | 44.33 | 39.5 | 52.6 | 2.0 / 2.5 | 61 | 77.2 | 70.1 |
| 63S | 455AA60 | M63 × 1.5 | 455NP33 | 2" - 11½ NPT | 44.33 | 50.27 | 50.0 | 58.9 | 2.5 | 64 | 83.0 | 75.0 |
| 63 | 455AA61 | M63 × 1.5 | 455NP38 | 2½" - 8 NPT | 50.27 | 56.24 | 51.3 | 65.3 | 2.5 | 64 | 87.4 | 80.0 |
| 75S | 455AA62 | M75 × 1.5 | 455NP39 | 2½" - 8 NPT | 56.24 | 62.18 | 62.0 | 71.6 | 2.5 | 73 | 99.1 | 90.2 |
| 75 | 455AA63 | M75 × 1.5 | 455NP45 | 3" - 8 NPT | 62.18 | 68.13 | 62.5 | 78.0 | 2.5 | 73 | 109.2 | 98.8 |
| 85 | 455AA64 | M85 × 2 | 455NP47 | 3" - 8 NPT | 68.00 | 74.00 | 68.0 | 88.0 | 3.15 | 102 | 126.0 | 115.1 |

* 1.5mm Pitch threads are supplied 15mm long, 2mm pitch threads are supplied 20mm long