

FLAMEPROOF EX D • INCREASED SAFETY EX E • FOR INDOOR & OUTDOOR APPLICATIONS
FOR ARMoured CABLES • INNER & OUTER SEALING



Cable glands KTA type (code: KTA)

The sealing ring blocks the cable on the under armour ring diameter. The addition of the sealing ring on the outer sheath guarantees a complete protection of the cable armour. Cable glands EMC tested by triaxial method, according to IEC 62153-4-3, IEC 62153-4-4 standards. Metric cable glands are made according to EN 62444 standard. Maintenance and installation operations and product selection must be done in accordance with IEC EN 60079-14 and 17 standards.

Application fields Surface - Group II

Approvals / Certifications

ATEX Certificate: INERIS 16 ATEX 0045X

IECEx Certificate: IECEx INE 16.0054X

EAC: RU C-IT.A 45.B.00909

Type examination certificate: INERIS 17 ATEX 3004 (Ex nR IIC Gc)

Protection type

Ex db IIC • Ex eb II (gas) • Ex tb IIIC (dusts)

EPL (Equipment protection level)

Zone 1-2: Gb, Gc gas

Zone 21-22: Db Dc combustible dusts

Execution

Ex db IIC • Ex eb II • Ex tb IIIC

according to

ATEX: EN 60079-0:2012 • EN 60079-1:2014 • EN 60079-7:2015 • EN 60079-31:2014 • EN 60529:1991

IEC Ex: IEC 60079-0:2011 • IEC 60079-1:2014 • IEC 60079-7:2015 • IEC 60079-15:2010 • IEC 60079-31:2013 • IEC 60529:1989

Ambient temperatures in services: sealing washers materials

Silicone seals -60°C ÷ + 80°C (code: **SI**)

Cable type

Armoured: Single armoured cable SWA, Aluminium wire armoured cable AWA, Aluminium strip armoured ASA. Single wire braided cable SWB, Steel tape armoured cable STA, Pliable wire armoured cable PWA. Screened flexible wire braided cable CY-SY.

Available materials

Brass (code: **OT**) • Nickel-plated brass (code: **ON**)

AISI316L Stainless steel (code: **S6**) • Aluminium (code: **AL**)

Available threads

ISO 262 Metrical

ANSI B1.20.1 NPT

Upon request:

ISO 228

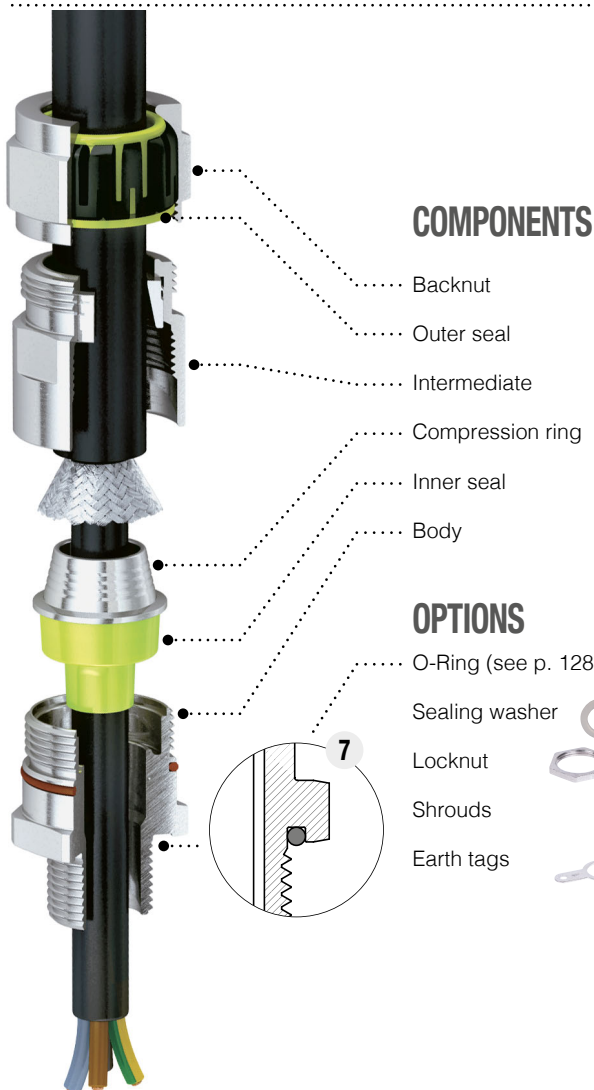
DIN 40430 Pg

EN 10226 Gk (only for ATEX)

Degree of protection

The degree of protection assured by the cable entries is **IP66** according to IEC/EN 60529 standard. For cable entries with cylindrical thread the degree of protection IP66 is assured by using either a flat silicone MVQ gasket of a flat PTFE gasket or a SILICONE MVQ O-ring. For cable entries with conical thread the degree of protection IP66 is assured by applying to the threading of sealing LOCTITE 241.

Metric cable glands are made in accordance to EN 62444 Standard.



COMPONENTS

- Backnut
- Outer seal
- Intermediate
- Compression ring
- Inner seal
- Body

OPTIONS

- O-Ring (see p. 128)
- Sealing washer
- Locknut
- Shrouds
- Earth tags

EXAMPLE CODE

7

TECHNICAL DRAWING

| KTA. | 25. | N25. | SI. | ON. | OR |
|------|------|-------------|---------------------|---------------|---------------|
| Type | Size | Thread code | Seals material code | Material code | Optional code |

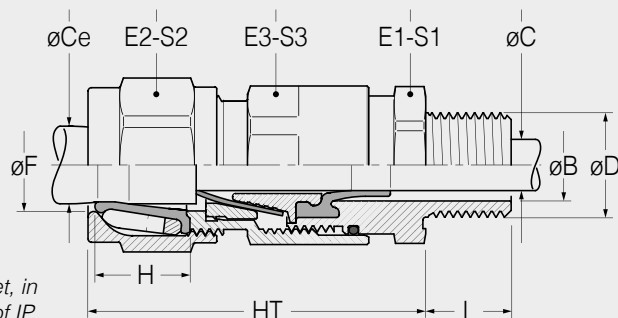
See tab. page 19

Silicone

O-Ring

| | |
|-----------|--------------------------|
| OT | Brass |
| ON | Nickel-plated brass |
| S6 | AISI316L Stainless steel |
| AL | Aluminium |

Alternatively to the flat gasket, in order to ensure the degree of IP protection, it is possible to request the "O-Ring version" cable gland. **ISO metrical threads only**



| SIZE | Ø D - THREADS | | CODE | Ø C Min - Max | Ø CE Min - Max | ARMOUR RANGE | DIMENSIONS | | | | | | | | | | | | | | |
|------|------------------------|----------------|-------------------|------------------|-------------------|--------------|------------|------|------|-------|------|------|------|------|-----|-------|------|-------|------|--|--|
| | Cylindrical ISO 262 | Tapered NPT | | | | | Weight | øB | L | HT | H | F | E1 | S1 | E2 | S2 | E3 | S3 | | | |
| 12 | M12x1,5 | | KTA.12.I12.SI... | 3,5 ÷ 7,4 | | | 139 | 7,4 | 15 | | | | | | | | | | | | |
| | M16x1,5 | | KTA.12.I16.SI... | 3,5 ÷ 8 | | | 140 | 11,4 | 15 | | | | | | | | | | | | |
| | | 1/4" | KTA.12.N12.SI... | 3,5 ÷ 7,4 | | 6 ÷ 12 | 0 ÷ 1,25 | 144 | 7,4 | 15,5 | 54,5 | 15,2 | 16,3 | 22 | 24 | 26 | 28,6 | 22 | 23,8 | | |
| | | 3/8" | KTA.12.N16.SI... | 3,5 ÷ 8 | | | | 144 | 11,4 | 15,5 | | | | | | | | | | | |
| 16 | M16x1,5 | | KTA.16.I16.SI... | | | | 147 | 11,4 | 15 | | | | | | | | | | | | |
| | M20x1,5 | | KTA.16.I20.SI... | 6,5 ÷ 11,2 | | 9 ÷ 16,1 | 148 | 15,2 | 15 | | | | | | | | | | | | |
| | | 3/8" | KTA.16.N16.SI... | | | | 152 | 11,4 | 15,5 | 54,5 | 15,2 | 16,3 | 25 | 27,4 | 26 | 28,6 | 26 | 27,8 | | | |
| | | 1/2" | KTA.16.N20.SI... | | | | 156 | 15,2 | 20 | | | | | | | | | | | | |
| 20 | M20x1,5 | | KTA.20.I20.SI... | | | | 205 | 15,2 | 15 | | | | | | | | | | | | |
| | M25x1,5 | | KTA.20.I25.SI... | 7,5 ÷ 14,2 | | 12,5 ÷ 20,2 | 201 | 19,8 | 15 | | | | | | | | | | | | |
| | | 1/2" | KTA.20.N20.SI... | | | | 214 | 15,2 | 20 | 58,7 | 17 | 20,8 | 30 | 33 | 31 | 34 | 30 | 31,9 | | | |
| | | 3/4" | KTA.20.N25.SI... | | | | 216 | 19,8 | 20,5 | | | | | | | | | | | | |
| 25 | M25x1,5 | | KTA.25.I25.SI... | 11 ÷ 19,8 | | | 309 | 19,8 | 15 | | | | | | | | | | | | |
| | M32x1,5 | | KTA.25.I32.SI... | 11 ÷ 20 | | 16,5 ÷ 26 | 306 | 26,6 | 15 | | | | | | | | | | | | |
| | | 3/4" | KTA.25.N25.SI... | 11 ÷ 19,8 | | | 325 | 19,8 | 20,5 | 67 | 19,4 | 26,3 | 36 | 39 | 38 | 41 | 37 | 39,6 | | | |
| | | 1" | KTA.25.N32.SI... | 11 ÷ 20 | | | 334 | 26,1 | 25 | | | | | | | | | | | | |
| 32 | M32x1,5 | | KTA.32.I32.SI... | 16 ÷ 26,5 | | | 505 | 26,6 | 15 | | | | | | | | | | | | |
| | M40x1,5 | | KTA.32.I40.SI... | | | 21 ÷ 33,2 | 498 | 34,4 | 15 | | | | | | | | | | | | |
| | | 1" | KTA.32.N32.SI... | 16 ÷ 26 | | | 540 | 26,1 | 25 | 77 | 22 | 33,4 | 45 | 49 | 48 | 51 | 45 | 47,7 | | | |
| | | 1" 1/4 | KTA.32.N40.SI... | 16 ÷ 26,5 | | | 542 | 34,4 | 26 | | | | | | | | | | | | |
| 40 | M40x1,5 | | KTA.40.I40.SI... | | | | 687 | 34,4 | 15 | | | | | | | | | | | | |
| | M50x1,5 | | KTA.40.I50.SI... | 22 ÷ 33,5 | | 27,5 ÷ 41,3 | 679 | 44 | 15 | | | | | | | | | | | | |
| | | 1" 1/4 | KTA.40.N40.SI... | | | | 732 | 34,4 | 26 | 79 | 24,2 | 41,6 | 55 | 60 | 58 | 63 | 53 | 55,7 | | | |
| | | 1" 1/2 | KTA.40.N50.SI... | | | | 758 | 40,5 | 26 | | | | | | | | | | | | |
| 50 | M50x1,5 | | KTA.50.I50.SI... | 28 ÷ 44 | | | 1066 | 44 | 15 | | | | | | | | | | | | |
| | M63x1,5 | | KTA.50.I63.SI... | 28 ÷ 44,8 | | 35,6 ÷ 52,3 | 1044 | 56 | 15 | | | | | | | | | | | | |
| | | 1" 1/2 | KTA.50.N50.SI... | 28 ÷ 40,4 | | | 1133 | 40,5 | 26 | 93,6 | 27 | 52,6 | 68 | 74 | 70 | 74,5 | 65 | 67,7 | | | |
| | | 2" | KTA.50.N63.SI... | 28 ÷ 44,8 | | | 1066 | 52 | 27 | | | | | | | | | | | | |
| 63 | M63x1,5 | | KTA.63.I63.SI... | 40 ÷ 56,5 | | | 1620 | 56,5 | 15 | | | | | | | | | | | | |
| | M75x1,5 | | KTA.63.I75.SI... | | | 46 ÷ 65 | 1594 | 68 | 15 | | | | | | | | | | | | |
| | | 2" | KTA.63.N63.SI... | 40 ÷ 52 | | | 1748 | 52 | 27 | 110,8 | 29,4 | 65,4 | 82 | 89 | 85 | 88 | 78 | 81,6 | | | |
| | | 2" 1/2 | KTA.63.N75.SI... | 40 ÷ 56,5 | | | 1938 | 62,5 | 40 | | | | | | | | | | | | |
| 75 | M75x1,5 | | KTA.75.I75.SI... | 51 ÷ 68,5 | | | 2463 | 68,5 | 15 | | | | | | | | | | | | |
| | M90x2 | | KTA.75.I90.SI... | | | 56 ÷ 78 | 2468 | 82 | 20 | | | | | | | | | | | | |
| | | 2" 1/2 | KTA.75.N75.SI... | 51 ÷ 62,5 | | | 2688 | 62,5 | 40 | 115,7 | 31 | 78,5 | 100 | 109 | 100 | 104,8 | 93 | 97 | | | |
| | | 3" | KTA.75.N90.SI... | 51 ÷ 68,5 | | | 2842 | 78 | 41,5 | | | | | | | | | | | | |
| 90 | M90x2 | | KTA.90.I90.SI... | | | | 3320 | 82 | 20 | | | | | | | | | | | | |
| | M100x2 | | KTA.90.I100.SI... | 62 ÷ 78 | | 72 ÷ 90 | 3324 | 91 | 20 | | | | | | | | | | | | |
| | | 3" | KTA.90.N90.SI... | | | | 3850 | 78 | 41,5 | 121,4 | 31,2 | 91 | 110 | 119 | 115 | 119,4 | 105 | 109,8 | | | |
| | | 3" 1/2 | KTA.90.N100.SI... | | | | 3640 | 90 | 43 | | | | | | | | | | | | |