

## TECHNICAL DATA SHEET

# Liquid-tight fittings, high temperature Series 5300/9300SST6

For liquid-tight flexible metallic conduit

## T&B Liquidtight Systems®



Stainless steel 316 liquid-tight and system solutions for the most demanding corrosive environments and where extreme temperatures are encountered

### Certifications / Standards:



#### Features & Benefits:

- Meets UL 514B and CSA C22.2, No. 18.3 for liquid-tight fittings
- Full compliance to IEC 61386-1, -23 requirements, CE Certified
- Trade sizes from 3/8" to 2" (12mm to 63mm)
- HT High Temperature insulators and seal rings for use in extreme temperatures
- Insulated throat protect wire jacket from damage
- Straight, 45° and 90° conduit bodies
- NPT and ISO Metric Thread Types
- Coordinated performance with T&B Liquidtight Systems Flexible Metallic Conduits
- Ingress protection ratings aligned with industrial enclosures
- Safe Edge® ground cones provide superior bonding
- Double Bevel Sealing Ring eases assembly and insures liquid-tight performance
- Heat curled insulators protect wire sheathing from damage

#### Applications:

- Typical applications include raceway for industrial applications such as commercial ovens, annealing equipment, roller mills, pump skids, solar collectors, cargo loaders, etc.
- Used where liquid tight flexible metallic raceway is installed in outdoor or indoor locations, and exposed to continuous or intermittent moisture
- Used to positively bond flexible liquid-tight flexible metallic conduit to boxes or enclosures
- Ideal for use with T&B Liquidtight Systems LFMC type LT6XE or LTXE
- Liquid-tight applications against water, oils, cutting fluids, mild acids
- For use in electrical circuits up to 1,000 V
- Suitable for use in Class 1 Division 2, Class 2 Division 1 & 2 Hazardous Locations per NEC® Section 500

#### Construction / Material / Finish:

- Trade sizes 3/8" to 2" Steel Steel 316
- Zinc Plated steel ground cones, optional stainless steel 316
- Thermoplastic nylon seal rings and insulators
- Halogen Free seal rings, insulators and seal gaskets
- Machined locknuts with teeth for vibration resistance, supplied separately

#### Environment ratings:

##### Working Temperature:

- UL: Gen: -20 to +105°C (-4 to +221°F)
- CSA: Gen: -20 to +105°C (-4 to +221°F)
- IEC/CE: Gen: -45 to +150°C (-49 to +302°F) Static  
Gen: -25 to +105°C (-13 to +221°F) Dynamic
- General: Dry: -60 to +150°C (-76 to +302°F) Static

#### Chemical Resistance Guide:

- See Publication TDS000081 (Fittings: Stainless Steel 316 & PA66 Polyamide)
- See Publication TDS000117 (Liquid Tight Flexible Metal Conduits)

#### Conforms to:

- UL 514B, Fittings for Cable and Conduit
  - E23018 (-6 SST Ground Cone: 1/2" and 3/4" only)
- CSA C22.2, No. 18.3, Outlet and Conduit Boxes, Fittings and Accessories
  - File: LR-4484
- IEC/EN 61386-1, -23, Conduit Systems for Cable Management
  - EU DoC: EC-012-7192
- RoHS (Restriction of Hazardous Substance directive)
- NEMA FB-1 (Fittings and Conduit Bodies)
- JIC EGP1 (Electrical standard for GP machine tools)
- JIC EMP1 (Electrical Standard for Mass Production Engineering)
- Federal Specification A-A 50552 (Fittings for flexible conduit)
- Federal Specification H-28 (Threads)

#### Ingress Protection:

- Provides "Ingress Integrity" between enclosures, fittings, conduits & seals when using Series 5300SST6HT liquid-tight fittings and T&B Liquidtight Systems LFMC
- Covers all trade sizes from 3/8" to 2" (12mm to 63mm)
- Ingress ratings require use of Series 5260 Seal Gaskets
- ISO Metric Thread fittings supplied with Seal O-Rings as standard

#### UL, CSA & NEMA system ingress ratings:

- UL Listed type ratings tested to UL 50/50E requirements with UL Listed LFMC
- UL File No.: E23018
  - Indoor: Type 4, 4X, 12, 13
  - Outdoor: Type 3, 3R, 4, 4X
- CSA C22.2, No. 94.2: Type 3, 3R, 4, 4X, 12, 13
- NEMA 250: Type 3, 3R, 4, 4X, 12, 13

#### IEC system ingress ratings:

- IP Ingress Protection per IEC 60529 requirements
- IEC Ingress Ratings: IP66, IP67

#### Standards requirements:

##### Designed to UL 514B and CSA C22.2, No. 18.3 test requirements including:

- Assembly, Pull, Resistance, Oil spray, Polymer durability, Flammability Coating thickness, Current withstand

##### Meets all IEC/EN 61386-1, -23 standard requirements including:

- Impact resistance - Code 3 Medium; 6 Joules
- Tensile strength - Code 3 Medium; 500 N/2 min.
- Lower and upper temperatures
- IP protection against solid and liquids

