

## TECHNICAL DATA SHEET

# Liquid-tight fittings, high temperature Series 5300SST6HT

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
- NPT Thread Fittings are compliant with NSF/ANSI 169 requirements for non-food and splash zone application.
- Trade sizes from 3/8" to 2" (12mm to 63mm)
- HT High Temperature insulators and seal rings for use in extreme temperatures
- Insulated throat helps 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 help provide superior bonding
- Double Bevel Sealing Ring eases assembly and helps ensure 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 I Division 2, Class II 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)
- NSF/ANSI 169 - Special Purpose Food and Beverage Devices
  - File: 82050

#### Ingress Protection:

- Helps provide "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, 6, 12, 13
  - Outdoor: Type 3, 3R, 4, 4X, 6
- CSA C22.2 No. 94.2: Type 3, 3R, 4, 4X, 12, 13
- NEMA 250: Type 3, 3R, 4, 4X, 6, 12, 13

#### IEC system ingress ratings:

- IP Ingress Protection per IEC 60529 requirements
- IEC Ingress Ratings: IP66, IP67, IP68, IP69

#### 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

Product selection											
Series 5300SST6HT Liquid-tight Fittings											Seal Gaskets
Trade size			Thread Type		Insulated with steel ground cone			Insulated with SST 316 ground cone			Part no.
					Straight Part no.	45° Part no.	90° Part no.	Straight Part no.	45° Part no.	90° Part no.	
Inches	Metric	ISO BS EN	Std	Size							
¾"	12mm	16mm	NPT	¾"	5331SST6HT	5341SST6HT	5351SST6HT	5331SST6-6HT	5341SST6-6HT	5351SST6-6HT	5261-HT
			ISO	M16	9330SST6HT	9340SST6HT	9350SST6HT	9330SST6-6HT	9340SST6-6HT	9350SST6-6HT	—
½"	16mm	20mm	NPT	½"	5332SST6HT	5342SST6HT	5352SST6HT	5332SST6-6HT	5342SST6-6HT	5352SST6-6HT	5262-HT
			ISO	M20	9332SST6HT	9342SST6HT	9352SST6HT	9332SST6-6HT	9342SST6-6HT	9352SST6-6HT	—
¾"	21mm	25mm	NPT	¾"	5333SST6HT	5343SST6HT	5353SST6HT	5333SST6-6HT	5343SST6-6HT	5353SST6-6HT	5263-HT
			ISO	M25	9333SST6HT	9343SST6HT	9353SST6HT	9333SST6-6HT	9343SST6-6HT	9353SST6-6HT	—
1"	27mm	32mm	NPT	1"	5334SST6HT	5344SST6HT	5354SST6HT	5334SST6-6HT	5344SST6-6HT	5354SST6-6HT	5264-HT
			ISO	M32	9334SST6HT	9344SST6HT	9354SST6HT	9334SST6-6HT	9344SST6-6HT	9354SST6-6HT	—
1¼"	35mm	40mm	NPT	1¼"	5335SST6HT	5345SST6HT	5355SST6HT	5335SST6-6HT	5345SST6-6HT	5355SST6-6HT	5265-HT
			ISO	M40	9335SST6HT	9345SST6HT	9355SST6HT	9335SST6-6HT	9345SST6-6HT	9355SST6-6HT	—
1½"	41mm	50mm	NPT	1½"	5336SST6HT	5346SST6HT	5356SST6HT	5336SST6-6HT	5346SST6-6HT	5356SST6-6HT	5266-HT
			ISO	M50	9336SST6HT	9346SST6HT	9356SST6HT	9336SST6-6HT	9346SST6-6HT	9356SST6-6HT	—
2"	53mm	63mm	NPT	2"	5337SST6HT	5347SST6HT	5357SST6HT	5337SST6-6HT	5347SST6-6HT	5357SST6-6HT	5267-HT
			ISO	M63	9337SST6HT	9347SST6HT	9357SST6HT	9337SST6-6HT	9347SST6-6HT	9357SST6-6HT	—

Note: ISO Metric thread fittings supplied with Seal O-Rings as standard.

Dimensions (approximate)

Drawing	Trade size			Inches			Millimeters			Weight	
	Inches	Metric	ISO BS EN	A	B	C	A	B	C	lbs.	kg
<b>Series 5300SST6HT Straight LT Fittings - NPT Threads</b>											
	¾"	12mm	16mm	1½"	1"	½"	28.5	25.4	12.7	0.09	0.04
	½"	16mm	20mm	1½"	1"	¾"	32.6	25.4	14.3	0.17	0.08
	¾"	21mm	25mm	1¾"	1½"	¾"	40.5	27.0	14.3	0.24	0.11
	1"	27mm	32mm	1¾"	1½"	¾"	46.5	33.3	19.1	0.36	0.17
	1¼"	35mm	40mm	2¼"	1¾"	¾"	56.2	42.9	20.6	0.65	0.29
	1½"	41mm	50mm	2½"	1¾"	¾"	63.7	47.6	20.6	0.75	0.34
	2"	53mm	63mm	3"	2¾"	¾"	76.6	55.6	22.2	0.98	0.45
	2½"	63mm	70mm	—	—	—	—	—	—	—	—
	3"	78mm	80mm	—	—	—	—	—	—	—	—
4"	103mm	100mm	—	—	—	—	—	—	—	—	
<b>Series 5300SST6HT 45° LT Fittings - NPT Threads</b>											
	¾"	12mm	16mm	1½"	1¾"	½"	28.5	39.7	12.7	0.18	0.08
	½"	16mm	20mm	1½"	1¾"	¾"	32.6	43.0	14.3	0.23	0.11
	¾"	21mm	25mm	1¾"	2¼"	¾"	40.5	54.0	14.3	0.32	0.15
	1"	27mm	32mm	1¾"	2¼"	¾"	46.5	57.2	19.1	0.59	0.27
	1¼"	35mm	40mm	2¼"	2¾"	¾"	56.2	69.9	20.6	0.78	0.35
	1½"	41mm	50mm	2½"	3¾"	¾"	63.7	85.7	20.6	1.09	0.49
	2"	53mm	63mm	3"	3¾"	¾"	76.6	98.4	22.2	2.55	1.16
	2½"	63mm	70mm	—	—	—	—	—	—	—	—
	3"	78mm	80mm	—	—	—	—	—	—	—	—
4"	103mm	100mm	—	—	—	—	—	—	—	—	
<b>Series 5300SST6HT 90° LT Fittings - NPT Threads</b>											
	¾"	12mm	16mm	1½"	1¾"	½"	28.5	34.9	12.7	0.20	0.09
	½"	16mm	20mm	1½"	1¾"	¾"	32.6	39.7	14.3	0.36	0.16
	¾"	21mm	25mm	1¾"	1¾"	¾"	40.5	44.5	14.3	0.49	0.22
	1"	27mm	32mm	1¾"	2¾"	¾"	46.5	55.6	19.1	0.74	0.34
	1¼"	35mm	40mm	2¼"	2¾"	¾"	56.2	69.9	20.6	1.18	0.54
	1½"	41mm	50mm	2½"	2¾"	¾"	63.7	74.6	20.6	1.65	0.75
	2"	53mm	63mm	3"	3¾"	¾"	76.6	87.3	22.2	3.17	1.44
	2½"	63mm	70mm	—	—	—	—	—	—	—	—
	3"	78mm	80mm	—	—	—	—	—	—	—	—
4"	103mm	100mm	—	—	—	—	—	—	—	—	

Note:  
 • Dimensions for reference only.  
 • Product must be installed in accordance with applicable national and local electrical codes.

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