

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

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							
3/8"	12mm	16mm	NPT	3/8"	5331SST6HT	5341SST6HT	5351SST6HT	5331SST6-6HT	5341SST6-6HT	5351SST6-6HT	5261-HT
			ISO	M16	9330SST6HT	9340SST6HT	9350SST6HT	9330SST6-6HT	9340SST6-6HT	9350SST6-6HT	—
1/2"	16mm	20mm	NPT	1/2"	5332SST6HT	5342SST6HT	5352SST6HT	5332SST6-6HT	5342SST6-6HT	5352SST6-6HT	5262-HT
			ISO	M20	9332SST6HT	9342SST6HT	9352SST6HT	9332SST6-6HT	9342SST6-6HT	9352SST6-6HT	—
3/4"	21mm	25mm	NPT	3/4"	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	—
1 1/4"	35mm	40mm	NPT	1 1/4"	5335SST6HT	5345SST6HT	5355SST6HT	5335SST6-6HT	5345SST6-6HT	5355SST6-6HT	5265-HT
			ISO	M40	9335SST6HT	9345SST6HT	9355SST6HT	9335SST6-6HT	9345SST6-6HT	9355SST6-6HT	—
1 1/2"	41mm	50mm	NPT	1 1/2"	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
Series 5300SST6HT Straight LT Fittings - NPT Threads											
	3/8"	12mm	16mm	1 1/2"	1"	1/2"	29.4	25.4	12.7	0.09	0.04
	1/2"	16mm	20mm	1 3/8"	1"	9/16"	34.9	25.4	14.3	0.17	0.08
	3/4"	21mm	25mm	1 2 1/2"	1 1/16"	9/16"	42.1	27.0	14.3	0.24	0.11
	1"	27mm	32mm	1 7/8"	1 1/16"	3/4"	47.6	33.3	19.1	0.36	0.17
	1 1/4"	35mm	40mm	2 3/2"	1 1 1/16"	13/16"	53.2	42.9	20.6	0.65	0.29
	1 1/2"	41mm	50mm	2 2 3/2"	1 7/8"	13/16"	69.1	47.6	20.6	0.75	0.34
	2"	53mm	63mm	3 1/4"	2 3/16"	7/8"	82.6	55.6	22.2	0.98	0.45
	2 1/2"	63mm	70mm	—	—	—	—	—	—	—	—
	3"	78mm	80mm	—	—	—	—	—	—	—	—
	4"	103mm	100mm	—	—	—	—	—	—	—	—
Series 5300SST6HT 45° LT Fittings - NPT Threads											
	3/8"	12mm	16mm	1 1/2"	1 1/16"	1/2"	29.4	39.7	12.7	0.18	0.08
	1/2"	16mm	20mm	1 3/8"	1 7/8"	9/16"	34.9	43.0	14.3	0.23	0.11
	3/4"	21mm	25mm	1 2 1/2"	2 1/8"	9/16"	42.1	54.0	14.3	0.32	0.15
	1"	27mm	32mm	1 7/8"	2 1/4"	3/4"	47.6	57.2	19.1	0.59	0.27
	1 1/4"	35mm	40mm	2 3/2"	2 3/4"	13/16"	53.2	69.9	20.6	0.78	0.35
	1 1/2"	41mm	50mm	2 2 3/2"	3 3/8"	13/16"	69.1	85.7	20.6	1.09	0.49
	2"	53mm	63mm	3 1/4"	3 7/8"	7/8"	82.6	98.4	22.2	2.55	1.16
	2 1/2"	63mm	70mm	—	—	—	—	—	—	—	—
	3"	78mm	80mm	—	—	—	—	—	—	—	—
	4"	103mm	100mm	—	—	—	—	—	—	—	—
Series 5300SST6HT 90° LT Fittings - NPT Threads											
	3/8"	12mm	16mm	1 1/2"	1 3/8"	1/2"	29.4	34.9	12.7	0.20	0.09
	1/2"	16mm	20mm	1 3/8"	1 9/16"	9/16"	34.9	39.7	14.3	0.36	0.16
	3/4"	21mm	25mm	1 2 1/2"	1 3/4"	9/16"	42.1	44.5	14.3	0.49	0.22
	1"	27mm	32mm	1 7/8"	2 3/16"	3/4"	47.6	55.6	19.1	0.74	0.34
	1 1/4"	35mm	40mm	2 3/2"	2 3/4"	13/16"	53.2	69.9	20.6	1.18	0.54
	1 1/2"	41mm	50mm	2 2 3/2"	2 1 9/16"	13/16"	69.1	74.6	20.6	1.65	0.75
	2"	53mm	63mm	3 1/4"	3 7/16"	7/8"	82.6	87.3	22.2	3.17	1.44
	2 1/2"	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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