
 TECHNICAL DATA SHEET

Liquid-tight fittings - Series 5300/9300-NB

For liquid-tight flexible metallic conduit

T&B Liquidtight Systems®



Nickel plated brass liquid-tight system solutions for the most demanding corrosive environments

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
- Trade sizes from 3/8" to 4" (12mm to 100mm)
- 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

Applications:

- Typical applications where severe corrosion protection is required including water/wastewater, food & beverage, salt environments, chemical processing, etc.
- Used where liquid tight flexible metallic raceway is installed in corrosive 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
- 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" nickel plated brass
- Zinc Plated steel ground cones
- Thermoplastic nylon seal rings and insulators
- Halogen Free seal rings, insulators and seal gaskets
- Machined nickel plated brass locknuts 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: -25 to +105°C (-13 to +221°F)

Chemical Resistance Guide:

- See Publication TDS000081 (Fittings: Nickel plated brass & PA66 Polyamide)
- See Publication TDS000117 (Liquid Tight Flexible Metal Conduits)

Conforms to:

- UL 514B, Fittings for Cable and Conduit
 - File: E23018
- 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-012-7189
- 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:

- Helps provide "Ingress Integrity" between enclosures, fittings, conduits & seals when using Series 5300-NB 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, resistance, pull, material aging, current withstand, etc.

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 5300-NB & 9300-NB Liquid-tight Fittings										
Trade size			Thread Type		Insulated with steel ground cone			Seal gaskets		Locknuts
Inches	Metric	ISO BS EN	Std	Size	Straight Part no.	45° Part no.	90° Part no.	Part no.	Part no.	
3/8"	12mm	16mm	NPT	3/8"	5331-NB	5341-NB	5351-NB	5261	LNB/038	
			ISO	M16	9330-NB	9340-NB	9350-NB	—	LNB/M16	
			ISO	M20	9331-NB	9341-NB	9351-NB	—	LNB/M20	
1/2"	16mm	20mm	NPT	1/2"	5332-NB	5342-NB	5352-NB	5262	LNB/050	
			ISO	M20	9332-NB	9342-NB	9352-NB	—	LNB/M20	
3/4"	21mm	25mm	NPT	3/4"	5333-NB	5343-NB	5353-NB	5263	LNB/075	
			ISO	M25	9333-NB	9343-NB	9353-NB	—	LNB/M25	
1"	27mm	32mm	NPT	1"	5334-NB	5344-NB	5354-NB	5264	LNB/100	
			ISO	M32	9334-NB	9344-NB	9354-NB	—	LNB/M32	
1 1/4"	35mm	40mm	NPT	1 1/4"	5335-NB	5345-NB	5355-NB	5265	LNB/125	
			ISO	M40	9335-NB	9345-NB	9355-NB	—	LNB/M40	
1 1/2"	41mm	50mm	NPT	1 1/2"	5336-NB	5346-NB	5356-NB	5266	LNB/150	
			ISO	M50	9336-NB	9346-NB	9356-NB	—	LNB/M50	
2"	53mm	63mm	NPT	2"	5337-NB	5347-NB	5357-NB	5267	LNB/200	
			ISO	M63	9337-NB	9347-NB	9357-NB	—	LNB/M63	
2 1/2"	63mm	70mm	NPT	2 1/2"	5338-NB	—	—	5268	Standard	
			—	—	5338-NBHT	—	—	5268-HT	Standard	
			NPT	3"	5339-NB	—	—	5269	Standard	
3"	78mm	80mm	—	—	5339-NBHT	—	—	5269-HT	Standard	
			NPT	4"	5340-NB	—	—	5270	Standard	
			—	—	5340-NBHT	—	—	5270-HT	Standard	

Note: ISO Metric thread fittings supplied with Seal O-Rings as standard.
Contact ABB for technical specifications on HT High Temperature versions

Dimensions (approximate)

Drawing	Trade size			Inches			Millimeters			Weight	
	Inches	Metric	ISO BS EN	A	B	C	A	B	C	lbs.	kg
Series 5300-NB & 9300-NB Straight LT Fittings - NPT & Metric Threads											
	3/8"	12mm	16mm	1 1/8"	1"	1/2"	28.5	25.4	12.7	0.11	0.05
	1/2"	16mm	20mm	1 9/16"	1"	9/16"	32.6	25.4	14.3	0.19	0.08
	3/4"	21mm	25mm	1 9/16"	1 1/16"	9/16"	40.5	27.0	14.3	0.27	0.12
	1"	27mm	32mm	1 3/4"	1 1/16"	3/4"	46.5	33.3	19.1	0.41	0.19
	1 1/4"	35mm	40mm	2 1/16"	1 1/16"	13/16"	56.2	42.9	20.6	0.73	0.33
	1 1/2"	41mm	50mm	2 1/2"	1 1/8"	13/16"	63.7	47.6	20.6	0.85	0.39
	2"	53mm	63mm	3"	2 1/16"	7/8"	76.6	55.6	22.2	1.11	0.51
	2 1/2"	63mm	70mm	4 1/8"	2 3/8"	1 1/2"	105.0	66.5	36.0	5.7	2.0
	3"	78mm	80mm	5 1/2"	2 5/8"	1 1/2"	128.0	67.2	38.0	7.43	2.8
4"	103mm	100mm	6 1/2"	3 3/8"	1 1/2"	162.0	78.8	37.0	12.9	4.8	
Series 5300-NB & 9300-NB 45° LT Fittings - NPT & Metric Threads											
	3/8"	12mm	16mm	1 1/8"	1 1/16"	1/2"	28.5	39.7	12.7	0.20	0.09
	1/2"	16mm	20mm	1 9/16"	1 1/8"	9/16"	32.6	43.0	14.3	0.25	0.11
	3/4"	21mm	25mm	1 9/16"	2 1/8"	9/16"	40.5	54.0	14.3	0.35	0.16
	1"	27mm	32mm	1 3/4"	2 1/4"	3/4"	46.5	57.2	19.1	0.64	0.29
	1 1/4"	35mm	40mm	2 1/16"	2 3/4"	13/16"	56.2	69.9	20.6	0.86	0.39
	1 1/2"	41mm	50mm	2 1/2"	3 3/8"	13/16"	63.7	85.7	20.6	1.19	0.54
	2"	53mm	63mm	3"	3 3/8"	7/8"	76.6	98.4	22.2	2.68	1.22
	2 1/2"	63mm	70mm	—	—	—	—	—	—	—	—
	3"	78mm	80mm	—	—	—	—	—	—	—	—
4"	103mm	100mm	—	—	—	—	—	—	—	—	
Series 5300-NB & 9300-NB 90° LT Fittings - NPT & Metric Threads											
	3/8"	12mm	16mm	1 1/8"	1 3/8"	1/2"	28.5	34.9	12.7	0.21	0.10
	1/2"	16mm	20mm	1 9/16"	1 9/16"	9/16"	32.6	39.7	14.3	0.37	0.17
	3/4"	21mm	25mm	1 9/16"	1 3/4"	9/16"	40.5	44.5	14.3	0.52	0.24
	1"	27mm	32mm	1 3/4"	2 1/16"	3/4"	46.5	55.6	19.1	0.79	0.36
	1 1/4"	35mm	40mm	2 1/16"	2 3/4"	13/16"	56.2	69.9	20.6	1.26	0.57
	1 1/2"	41mm	50mm	2 1/2"	2 1 9/16"	13/16"	63.7	74.6	20.6	1.75	0.79
	2"	53mm	63mm	3"	3 1/16"	7/8"	76.6	87.3	22.2	3.30	1.50
	2 1/2"	63mm	70mm	—	—	—	—	—	—	—	—
	3"	78mm	80mm	—	—	—	—	—	—	—	—
4"	103mm	100mm	—	—	—	—	—	—	—	—	

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

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