

I - LOK Tube Fitting ***Tube Size from 1/16" thru 2"*** ***(2mm thru 38mm)***



Catalog No. S-300TF Aug.2010



Human & Technology



We, all staffs SHINILACE CO., LTD.

Deeply thank you for your continuous support and encouragement. As we have accomplished high growth for short time since the foundation in 1998, we have supplied our customers the best product at the most proper price with the best delivery and service under the motto, "Let's Do Our Best." On the basis of quality management system, we are making continuous efforts to make our customers satisfied, focusing on their need, with staffs' ideas and guarantee on the products by increasing working efficiency of all staffs.

We, all staffs with one accord, will focus on the customers' satisfaction with continuous research and development, increase of quality and technological stability in order to occupy technologically higher position prior to others in the 21st market on the basis of continuous efforts and faithfulness. We expect your endless interest and encouragement to our SHINILACE CO., LTD.

All staffs of SHINILACE CO., LTD.



SHINILACE

Human & Technology



SHINILACE PRODUCT

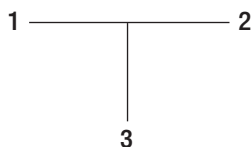


I-Lok Tube Fittings / Ordering Information

Fitting part numbers are easily understandable and basically composed of 3 groups as shown below.

Designator	First	Second	Third
Group	① ①	②	③
Example1	ITA	-8	-BRASS
Example2	IMC4	-4N	-S316
Example1	Union Tee	1/2"	Brass
Example2	Male Connector With 1/4"	1/4" NPT	316Stainless S316

1. The First group in Example 1 or former part of first group in example 2 ① designates the fitting type.
2. The second group in example 1 ② designates either tube end size of union, union tees, crosses, etc. Where all tube end sizes are the same or size of plugs, caps, nuts, etc where only single end exists.
3. The latter part of first group in example 2 ① designates the tube end size and the second group ② designates thread/ size, or tube end size, or tube size of fittings other than the fittings applicable to example 1.
4. The third group designates the fitting material.
5. In tees shown below, "2" is referred to as **run** and "3" is referred to as **branch**.



Fitting Type Designator

IDENTIFIER	DESCRIPTION	IDENTIFIER	DESCRIPTION
IUA	Union	IPR	Reducing Port Connector
IUR	Reducing Union	IFTC	Lapped Flange Connector
ILA	Union Elbow	IFU	AN Union
ITA	Union Tee	IBFU	AN Bulkhead Union
IXA	Union Cross	IFA	AN Adaptor
IBU	Bulkhead Union	ISC	SAE Male Connector
IMC	Male Connector	ISLA	SAE Male Elbow
IMCT	Thermocouple Male Connector	ISLB	SAE°45Male Elbow
IMC-G	Male Connector For Bonded Seal	ISRT	SAE Male Run Tee
IOM	Male Connector For Metal Seal	ISBT	SAE Male Branch Tee
IBMC	Bulkhead Male Connector	IOS	O-Seal Straight Thread Connector
ILM	Male Elbow	IOP	O-Seal Pipe Thread Connector
ILMB	45°Male Elbow	IWC	Male Pipe Weld Connector
IRTM	Male Run Tee	ILW	Male Pipe Weld
IBTM	Male Branch Tee		
IFC	Female Connector		
IGC	Gauge Connector		
IBFC	Bulkhead Female Connector	ICA	Cap
ILF	Female Elbow	II	Tube Insert
IRTF	Female Run Tee	IN	Nut
IBTF	Female Branch	IFF	Front Ferrule
IR	Reducer	IFB	Back Ferrule
IBR	Bulkhead Reducer		
IAM	Male Adaptor	ICL	Sure Ring
IAF	Female Adaptor	IIG	Gap Gauge
IPC	Port Connector	EZY-MAT	Preswaging Tool

Tube End Designator

Fractional Tube	O.D	1/16"	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1 1/4"	1 1/2"	2"
Designator		1	2	3	4	5	6	8	10	12	14	16	20	24	32
Metric Tube	O.D	2mm	3mm	4mm	6mm	8mm	10mm	12mm	16mm	20mm	22mm	25mm	28mm	32mm	38mm
Designator		2M	3M	4M	6M	8M	10M	12M	16M	20M	22M	25M	28M	32M	38M

Pipe Thread Designator

Nom.Size	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	Applicable Specifications					
ISO Tapered	2R	4R	6R	8R	12R	16R	20R	24R	32R	JIS B0203(PT), DIN2999,ISO7/1,BS21(BSPT)					
NPT	2N	4N	6N	8N	12N	16N	20N	24N	32N	ANSI B1.20.1(NPT)					
ISO Parallel	2G	4G	6G	8G	12G	16G	20G	24G	32G	JIS B0202(PF),DIN ISO228/1,BS2779(BSPP)					
Unified Screw	2U	4U	6U	8U	12U	16U	20U	24U	32U	American Standard unified Screw Thread					

Material Designator

Material	SS316	Brass	Monel
Designator	S316	Brass	Mone

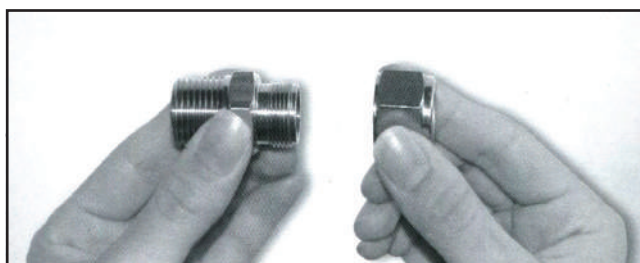
Installation Instructions

Tube Preparation

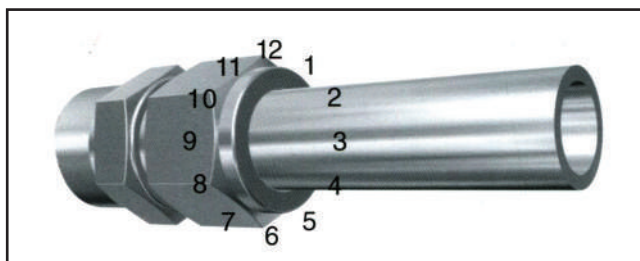
1. Check if tubing O.D., wall thickness, ovality, hardness and their tolerances are within spaces for your application. Also check if surface is free from scratches and dirt.
2. Make a square cut, (Always use proper tube cutter. Improper tube cutter can cause excessive tube deformation at the tube end.)
3. Remove burrs from inner and outer edges of tubing.

Installation Instructions For Shinilace fitting of 1 inch or 25mm and Under

Shinilace fittings are supplied fully assembled/finger tight and are readily usable. A leak tight and mechanically safe installation is easily made by just turning the nut 1 1/4 turns (or 3/4 turn for small sizes).



1. Insert prepared tubing into Shinilace fitting until tubing end is firmly seated on the body shoulder and make sure the nut is hand tight. (Do not force the tubing into ferrule if it does not go in easily. It may be burred or oval, or there may be foreign materials inside the fitting.)



2. Mark the nut at 9 o'clock position for identification of starting point.
3. Tighten the nut 1 1/4 turn* with a wrench keeping the fitting body steady with a back-up wrench. When the nut is tightened 1 1/4 turns, the mark at 9 o'clock position before tightening will be at 12 o'clock position.

Note*: Only 3/4 turn from finger tight is required for 1/16", 1/8", 3/16", 2mm, 3mm, and 4mm sizes.

High pressure Applications

Even though Shinilace fittings are designed to accept the tube variations specified in ASTM or equivalent specifications, it is more desirable to have common starting point, or snug position, for high pressure applications. Make sure that the tubing end is fully seated. Slightly tighten the nut until the tubing can not be rotated by hand. 1 1/4 turns (or 3/4 turn for small size fittings) from snug position will ensure reliable leak tight installation.

Reassembling Instructions

Shinilace fittings can be disassembled and reassembled many times and leak tight performance can be obtained each time.

1. Insert tubing which is preswaged with ferrules into fitting body
2. Hand tighten the nut and further tighten the nut with a wrench at the original position keeping the body steady with a back-up wrench. A sharp rise in resistance will be felt at the original position. Then snug-up slightly with a wrench.

Installation of Shinilace Fittings bigger Than 1" : or 25mm

EZY-MAT TOOL, Shinilace Corporation's Hydraulic Preswaging Machine, designed for use all Shinilace tube fittings ranging 1/2"~2(12mm~38mm). This tool can make you save money and reduce the storage space and carrying efforts.

Shinilace Hydraulic Preswaging Unit for Multi-Size Tubes- EZY-MAT TOOL

EZY-MAT TOOL is easy to learn and operate. Reading and following instructions is all you need. With the manual model, the hand pumping requires very little power and the swage indicator arm lets you know when to stop pumping. With the automatic model, preswaging is accomplished by pressing and releasing the start button according to the instruction.

EZY-MAT TOOL can be used for various tube sizes by replacing jig and cone. Two manual models (or just one automatic model) are required for all sizes ranging from 1/2 inch to 2 inch (or 12mm to 38mm). This saves money, storage space and carrying efforts.

EZY-MAT TOOL reduces make-up torque, and reduces assembly time in the field and prevents the fitting from deformation and damage.

Tube to Tube Union



IUA
Union

9



ILM
Male Elbow

16. 17



IPR
Reducing Port
Connector

28



ILA
Union Elbow

10



IRTM
Male Run tee

18. 19



II
Tube Insert

29



ITA
Union Tee

11



IBTM
Male Branch Tee

20. 21



IBU
Bulkhead Union

12



IFC
Female Connector

22. 23



IMC-N
Male Connector
(NPT Thread)

13



ILF
Female Elbow
(NPT Tread)

24



ICA
Cap

29



IMC-R
Male Connector

14



IR
Reducer

25. 26



IN
Nut

30



IMCT
Thermocouple
Connector

14



IAM
Male Adaptor

27



IFF
Front Ferrule

30



IMC-G
Male Connector
for Bonded Seal

15



IPC
Port Connector

28



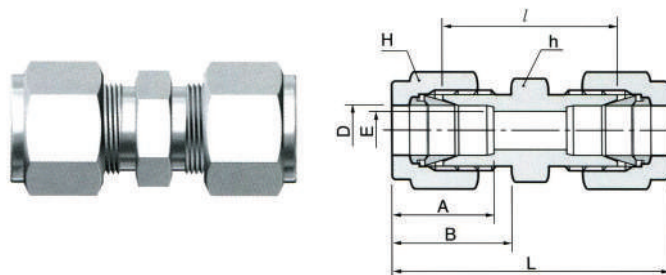
IFB
Back Ferrule

30

Spare Parts

I-Lok Tube Fittings

IUA
Union



Part No.	Tube O.D		E	h		H		A	B	l	L
	in	mm	Min	in	mm	in	mm				
IUA- 1	1/16	1.59	1.27	5/16	7.93	5/16	7.93	8.63	10.92	17.50	25.15
IUA- 2	1/8	3.17	2.28	7/16	11.11	7/16	11.11	12.70	15.24	22.35	35.56
IUA- 3	3/16	4.76	3.04	7/16	11.11	1/2	12.70	13.71	16.00	24.13	37.33
IUA- 4	1/4	6.35	4.82	1/2	12.70	9/16	14.28	15.24	17.78	26.16	40.89
IUA- 5	5/16	7.93	6.35	9/16	14.28	5/8	15.87	16.25	18.54	28.19	42.92
IUA- 6	3/8	9.52	7.11	5/8	15.87	11/16	17.46	16.76	19.30	30.22	44.95
IUA- 8	1/2	12.70	10.41	13/16	20.64	7/8	22.22	22.86	21.84	30.98	51.30
IUA-10	5/8	15.87	12.70	15/16	23.81	1	25.40	24.38	21.84	31.75	52.07
IUA-12	3/4	19.05	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	33.27	53.59
IUA- 14	7/8	22.22	18.28	1-3/16	30.16	1-1/4	31.75	25.90	21.84	35.05	55.37
IUA- 16	1	25.40	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	40.38	64.77
IUA- 20	1-1/4	31.75	27.68	1-3/4	44.45	1-7/8	47.63	41.14	38.86	48.00	92.20
IUA- 24	1-1/2	38.10	34.03	2-1/8	53.97	2-1/4	57.15	50.03	45.21	53.60	107.95
IUA- 32	2	50.80	45.97	2-3/4	69.85	3	76.20	67.56	62.73	74.70	149.35

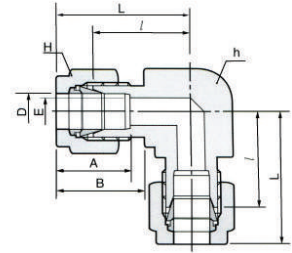
Part No.	Tube O.D	E	h	H	A	B	l	L
	D	Min						
IUA- 2M	2	1.7	12	12	12.9	15.3	22.4	35.6
IUA- 3M	3	2.4	12	12	12.9	15.3	22.1	35.3
IUA- 4M	4	2.4	12	12	13.7	16.1	24.1	37.3
IUA- 6M	6	4.8	14	14	15.3	17.7	26.2	41.0
IUA- 8M	8	6.4	15	16	16.2	18.6	28.2	43.2
IUA- 10M	10	7.9	18	19	17.2	19.5	31.0	46.2
IUA- 12M	12	9.5	22	22	22.8	22.0	31.0	51.2
IUA- 15M	15	11.9	24	25	24.4	22.0	31.8	52.0
IUA- 16M	16	12.7	24	25	24.4	22.0	31.8	52.0
IUA- 18M	18	15.1	27	30	24.4	22.0	33.3	53.5
IUA- 20M	20	15.9	30	32	26.0	22.0	34.8	55.0
IUA- 22M	22	18.3	30	32	26.0	22.0	34.8	55.0
IUA- 25M	25	21.8	35	38	31.3	26.5	40.4	65.0
IUA- 28M	28	21.8	41	46	36.6	36.6	43.4	85.0
IUA- 32M	32	28.6	46	50	42.0	41.6	51.3	97.3
IUA- 38M	38	33.7	55	60	49.4	47.9	58.4	113.6

A-B-L dimensions are given approximate. Figures after finger-tight.
All dimensions are in millimeters unless otherwise specified. Dimensions are for reference only, subject to change.

I-Lok Tube Fittings

ILA

Union Elbow



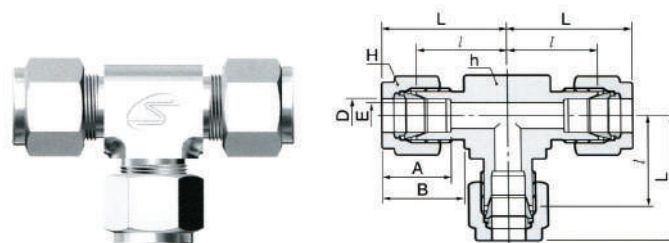
Part No.	Tube O.D in D mm		E Min	h in mm		H in mm		A	B	L	L
ILA- 1	1/16	1.59	1.27	3/8	9.52	5/16	7.93	8.63	10.92	14.00	17.88
ILA- 2	1/8	3.17	2.28	3/8	9.52	7/16	11.11	12.70	15.24	15.74	22.35
ILA- 3	3/16	4.76	3.04	1/2	12.70	1/2	12.70	13.71	16.00	17.78	24.38
ILA- 4	1/4	6.35	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	26.92
ILA- 5	5/16	7.93	6.35	9/16	14.28	5/8	15.87	16.25	18.54	21.33	28.70
ILA- 6	3/8	9.52	7.11	5/8	15.87	11/16	17.46	16.76	19.30	23.11	30.48
ILA- 8	1/2	12.70	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06
ILA- 10	5/8	15.87	12.70	15/16	23.81	1	25.40	24.38	21.84	28.70	38.80
ILA- 12	3/4	19.05	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	29.71	39.87
ILA- 14	7/8	22.22	18.28	1-1/4	31.75	1-1/4	31.75	25.90	21.84	34.54	44.70
ILA- 16	1	25.40	22.35	1-27/64	36.12	1-1/2	38.10	31.24	26.41	36.83	49.02
ILA- 20	1-1/4	31.75	27.68	1-11/16	42.86	1-7/8	47.63	41.14	38.86	44.50	66.54
ILA- 24	1-1/2	38.10	34.03	2	50.80	2-1/4	57.15	50.03	45.21	50.80	77.97
ILA- 32	2	50.80	45.97	2-3/4	69.85	3	76.20	67.56	62.73	69.80	107.18

Part No.	Tube O.D D	E Min	h	H	A	B	L	L
ILA- 2M	2	1.7	9.5	12	12.9	15.3	15.7	22.3
ILA- 3M	3	2.4	9.5	12	12.9	15.3	15.7	22.3
ILA- 4M	4	2.4	12.7	12	13.7	16.4	18.8	25.4
ILA- 6M	6	4.8	12.7	14	15.3	17.7	19.6	27.0
ILA- 8M	8	6.4	14.3	16	16.2	18.6	21.3	28.8
ILA- 10M	10	7.9	17.5	19	17.2	19.5	23.9	31.5
ILA- 12M	12	9.5	20.6	22	22.8	22.0	25.9	36.0
ILA- 15M	15	11.9	25.4	25	24.4	22.0	28.7	38.8
ILA- 16M	16	12.7	25.4	25	24.4	22.0	28.7	38.8
ILA- 18M	18	15.1	27.0	30	24.4	22.0	29.7	39.8
ILA- 20M	20	15.9	31.8	32	26.0	22.0	32.5	42.6
ILA- 22M	22	18.3	31.8	32	26.0	22.0	32.5	42.6
ILA- 25M	25	21.8	36.0	38	31.3	26.5	36.8	49.1
ILA- 28M	28	21.8	41.0	46	36.6	36.6	43.2	64.0
ILA- 32M	32	28.6	46.0	50	42.0	41.6	49.3	72.3
ILA- 38M	38	33.7	55.0	60	49.4	47.9	56.4	84.0

A-B-L dimensions are given approximate. Figures after finger-tight.

All dimensions are in millimeters unless otherwise specified. Dimensions are for reference only, subject to change.

I-Lok Tube Fittings

ITA
Union Tee

Part No.	Tube O.D		E	h		H		A	B	l	L
	in	mm	Min	in	mm	in	mm				
ITA- 1	1/16	1.59	1.27	3/8	9.52	5/16	7.93	8.63	10.92	14.00	17.88
ITA- 2	1/8	3.17	2.28	3/8	9.52	7/16	11.11	12.70	15.24	15.74	22.35
ITA- 3	3/16	4.76	3.04	1/2	12.70	1/2	12.70	13.71	16.00	17.78	24.38
ITA- 4	1/4	6.35	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	26.92
ITA- 5	5/16	7.93	6.35	9/16	14.28	5/8	15.87	16.25	18.54	21.33	28.70
ITA- 6	3/8	9.52	7.11	5/8	15.87	11/16	17.46	16.76	19.30	23.11	30.48
ITA- 8	1/2	12.70	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06
ITA- 10	5/8	15.87	12.70	15/16	23.81	1	25.40	24.38	21.84	28.70	38.80
ITA- 12	3/4	19.05	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	29.71	39.87
ITA- 14	7/8	22.22	18.28	1-1/4	31.75	1-1/4	31.75	25.90	21.84	34.54	44.70
ITA- 16	1	25.40	22.35	1-27/64	36.12	1-1/2	38.10	31.24	26.41	36.83	49.02
ITA- 20	1-1/4	31.75	27.68	1-11/16	42.86	1-7/8	47.63	41.14	38.86	44.50	66.54
ITA- 24	1-1/2	38.10	34.03	2	50.80	2-1/4	57.15	50.03	45.21	50.80	77.97
ITA- 32	2	50.80	45.97	2-3/4	69.85	3	76.20	67.56	62.73	69.80	107.18

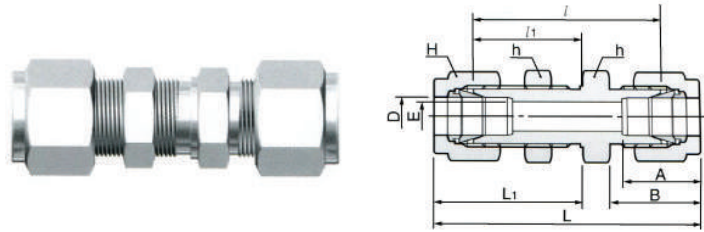
Part No.	Tube O.D	E	h	H	A	B	l	L
	D	Min						
ITA- 2M	2	1.7	9.5	12	12.9	15.3	15.7	22.3
ITA- 3M	3	2.4	9.5	12	12.9	15.3	15.7	22.3
ITA- 4M	4	2.4	12.7	12	13.7	16.1	18.8	25.4
ITA- 6M	6	4.8	12.7	14	15.3	17.7	19.6	27.0
ITA- 8M	8	6.4	14.3	16	16.2	18.6	21.3	28.8
ITA- 10M	10	7.9	17.5	19	17.2	19.5	23.9	31.5
ITA- 12M	12	9.5	20.6	22	22.8	22.0	25.9	36.0
ITA- 15M	15	11.9	25.4	25	24.4	22.0	28.7	38.8
ITA- 16M	16	12.7	25.4	25	24.4	22.0	28.7	38.8
ITA- 18M	18	15.1	27.0	30	24.4	22.0	29.7	39.8
ITA- 20M	20	15.9	31.8	32	26.0	22.0	32.5	42.6
ITA- 22M	22	18.3	31.8	32	26.0	22.0	32.5	42.6
ITA- 25M	25	21.8	36.0	38	31.3	26.5	36.8	49.1
ITA- 28M	28	21.8	41.0	46	36.6	36.6	43.2	64.0
ITA- 32M	32	28.6	46.0	50	42.0	41.6	49.3	72.3
ITA- 38M	38	33.7	55.0	60	49.4	47.9	56.4	84.0

A-B-L dimensions are given approximate. Figures after finger-tight.
All dimensions are in millimeters unless otherwise specified. Dimensions are for reference only, subject to change.

I-Lok Tube Fittings

IBU

Bulkhead Union



Part No.	Tube in	O.D mm	E Min	h in	mm	H in	mm	A	B	l	l1	L	L1	Panel Hole Drill size	Panel Max Thickness
IBU- 1	1/16	1.59	1.27	5/16	7.93	5/16	7.93	8.63	10.92	23.87	13.46	31.50	17.27	5.16	3.05
IBU- 2	1/8	3.17	2.28	1/2	12.70	7/16	11.11	12.70	15.24	38.10	24.63	51.30	31.24	8.33	12.70
IBU- 3	3/16	4.76	3.04	9/16	14.28	1/2	12.70	13.71	16.00	40.38	25.40	53.59	32.00	9.92	12.70
IBU- 4	1/4	6.35	4.82	5/8	15.87	9/16	14.28	15.24	17.78	42.92	26.16	57.65	33.52	11.50	10.16
IBU- 5	5/16	7.93	6.35	11/16	17.46	5/8	15.87	16.25	18.54	45.97	28.44	60.70	35.81	13.09	11.17
IBU- 6	3/8	9.52	7.11	3/4	19.05	11/16	17.46	16.76	19.30	47.49	29.46	62.23	36.83	14.68	11.17
IBU- 8	1/2	12.70	10.41	15/16	23.81	7/8	22.22	22.86	21.84	50.80	31.75	71.12	41.91	19.44	12.70
IBU- 10	5/8	15.87	12.70	1-1/16	26.98	1	25.40	24.38	21.84	52.32	32.51	72.64	42.67	22.62	12.70
IBU- 12	3/4	19.05	15.74	1-3/16	30.16	1-1/8	28.58	24.38	21.84	58.67	37.33	78.99	47.49	25.79	16.76
IBU- 14	7/8	22.22	18.28	1-3/8	34.92	1-1/4	31.75	25.90	21.84	64.26	42.92	84.58	53.08	28.97	19.05
IBU- 16	1	25.40	22.35	1-5/8	41.27	1-1/2	38.10	31.24	26.41	71.37	45.21	95.75	57.40	33.73	19.05
IBU- 20	1-1/4	31.75	27.68	1-7/8	47.63	1-7/8	47.63	41.14	38.86	78.99	47.75	123.19	69.85	41.67	19.05
IBU- 24	1-1/2	38.10	34.03	2-1/4	57.15	2-1/4	57.15	50.03	45.21	84.83	49.27	139.19	76.45	49.61	19.05
IBU- 32	2	50.80	45.97	2-3/4	69.85	3	76.20	67.56	62.73	105.66	56.38	180.34	93.72	57.94	19.05

Part No.	Tube O.D. D	E Min	h	H	A	B	l	l1	L	L1	Panel Hole Drill size	Panel Max Thickness
IBU- 3M	3	2.4	14	12	12.9	15.3	38.1	24.6	51.3	31.2	8.3	12.7
IBU- 4M	4	2.4	14	12	13.7	16.1	40.4	25.4	53.6	32.0	9.9	12.7
IBU- 6M	6	4.8	16	14	15.3	17.7	42.9	26.2	57.7	33.6	11.5	10.2
IBU-8M	8	6.4	18	16	16.2	18.6	46.0	28.6	61.0	36.1	13.1	11.2
IBU- 10M	10	7.9	22	19	17.2	19.5	48.5	29.4	63.7	37.0	16.2	11.2
IBU- 12M	12	9.5	24	22	22.8	22.0	50.8	31.8	71.0	41.9	19.5	12.7
IBU- 15M	15	11.9	27	25	24.4	22.0	52.3	32.5	72.5	42.6	22.8	12.7
IBU- 16M	16	12.7	27	25	24.4	22.0	52.3	32.5	72.5	42.6	22.8	12.7
IBU- 18M	18	15.1	30	30	24.4	22.0	58.7	37.3	78.9	47.4	26.0	16.8
IBU- 20M	20	15.9	35	32	26.0	22.0	64.3	42.9	84.5	53.0	29.0	17.0
IBU- 22M	22	18.3	35	32	26.0	22.0	64.3	42.9	84.5	53.0	29.0	19.1
IBU- 25M	25	21.8	41.3	38	31.3	26.5	71.4	45.2	95.9	57.5	33.7	19.1
IBU- 32M	32	28.6	50	50	42.0	41.6	82.3	49.5	128.3	72.5	42.5	19.0
IBU- 38M	38	33.7	60	60	49.4	47.9	89.4	51.1	144.6	79.1	50.5	19.0

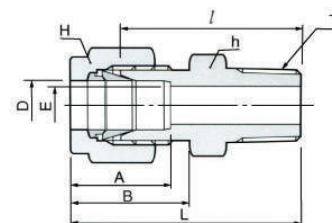
A-B-L-L1 dimensions are given approximate. Figures after finger-tight.

All dimensions are in millimeters unless otherwise specified. Dimensions are for reference only, subject to change.

I-Lok Tube Fittings

IMC-N

Male Connector (NPT Thread)



Part No.	Tube O.D		T (NPT)	E Min	h		H		A	B	l	L
	in	mm			in	mm	in	mm				
IMC1 -1N	1/16	1.59	1/16	1.27	5/16	7.93	5/16	7.93	8.63	10.92	20.00	23.83
IMC1 -2N	1/16	1.59	1/8	1.27	7/16	11.11	5/16	7.93	8.63	10.92	22.35	26.23
IMC1 -4N	1/16	1.59	1/4	1.27	9/16	14.28	5/16	7.93	8.63	10.92	27.17	30.98
IMC2 -1N	1/8	3.17	1/16	2.28	7/16	11.11	7/16	11.11	12.70	15.24	23.11	29.71
IMC2 -2N	1/8	3.17	1/8	2.28	7/16	11.11	7/16	11.11	12.70	15.24	23.87	30.48
IMC2 -4N	1/8	3.17	1/4	2.28	9/16	14.28	7/16	11.11	12.70	15.24	28.95	35.56
IMC2 -6N	1/8	3.17	3/8	2.28	11/16	17.46	7/16	11.11	12.70	15.24	29.21	35.81
IMC2 -8N	1/8	3.17	1/2	2.28	7/8	22.22	7/16	11.11	12.70	15.24	35.56	42.16
IMC3 -2N	3/16	4.76	1/8	3.04	7/16	11.11	1/2	12.70	13.71	16.00	24.63	31.24
IMC3 -4N	3/16	4.76	1/4	3.04	9/16	14.28	1/2	12.70	13.71	16.00	29.71	36.32
IMC4 -1N	1/4	6.35	1/16	4.82	1/2	12.70	9/16	14.28	15.24	17.78	25.40	32.76
IMC4 -2N	1/4	6.35	1/8	4.82	1/2	12.70	9/16	14.28	15.24	17.78	25.40	32.76
IMC4 -4N	1/4	6.35	1/4	4.82	9/16	14.28	9/16	14.28	15.24	17.78	30.48	37.84
IMC4 -6N	1/4	6.35	3/8	4.82	11/16	17.46	9/16	14.28	15.24	17.78	30.98	38.35
IMC4 -8N	1/4	6.35	1/2	4.82	7/8	22.22	9/16	14.28	15.24	17.78	37.33	44.70
IMC4 -12N	1/4	6.35	3/4	4.82	1-1/16	26.98	9/16	14.28	15.24	17.78	38.86	46.22
IMC5 -2N	5/16	7.93	1/8	4.82	9/16	14.28	5/8	15.87	16.25	18.54	26.67	34.03
IMC5 -4N	5/16	7.93	1/4	6.35	9/16	14.28	5/8	15.87	16.25	18.54	31.24	38.60
IMC5 -6N	5/16	7.93	3/8	6.35	11/16	17.46	5/8	15.87	16.25	18.54	31.75	39.11
IMC5 -8N	5/16	7.93	1/2	6.35	7/8	22.22	5/8	15.87	16.25	18.54	38.11	45.60
IMC6 -2N	3/8	9.52	1/8	4.82	5/8	15.87	11/16	17.46	16.76	19.30	27.94	35.30
IMC6 -4N	3/8	9.52	1/4	7.11	5/8	15.87	11/16	17.46	16.76	19.30	32.51	39.87
IMC6 -6N	3/8	9.52	3/8	7.11	11/16	17.46	11/16	17.46	16.76	19.30	32.51	39.87
IMC6 -8N	3/8	9.52	1/2	7.11	7/8	22.22	11/16	17.46	16.76	19.30	38.86	46.22
IMC6 -12N	3/8	9.52	3/4	7.11	1-1/16	26.98	11/16	17.46	16.76	19.30	40.38	47.75
IMC8 -2N	1/2	12.70	1/8	4.82	13/16	20.64	7/8	22.22	22.86	21.84	28.70	38.86
IMC8 -4N	1/2	12.70	1/4	7.11	13/16	20.64	7/8	22.22	22.86	21.84	33.27	43.43
IMC8 -6N	1/2	12.70	3/8	9.65	13/16	20.64	7/8	22.22	22.86	21.84	33.27	43.43
IMC8 -8N	1/2	12.70	1/2	10.41	7/8	22.22	7/8	22.22	22.86	21.84	38.86	49.02
IMC8 -12N	1/2	12.70	3/4	10.41	1-1/16	26.98	7/8	22.22	22.86	21.84	40.38	50.54
IMC8 -16N	1/2	12.70	1	10.41	1-3/8	34.92	7/8	22.22	22.86	21.84	46.99	57.15
IMC10 -6N	5/8	15.87	3/8	9.65	15/16	23.81	1	25.40	24.38	21.84	34.03	44.19
IMC10 -8N	5/8	15.87	1/2	11.93	15/16	23.81	1	25.40	24.38	21.84	38.86	49.02
IMC10 -12N	5/8	15.87	3/4	12.70	1-1/16	26.98	1	25.40	24.38	21.84	40.38	50.54
IMC12 -8N	3/4	19.05	1/2	11.93	1-1/16	26.98	1-1/8	28.58	24.38	21.84	40.38	50.54
IMC12 -12N	3/4	19.05	3/4	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	40.38	50.54
IMC12 -16N	3/4	19.05	1	15.74	1-3/8	34.92	1-1/8	28.58	24.38	21.84	46.99	57.15
IMC14 -12N	7/8	22.22	3/4	15.74	1-1/16	30.16	1-1/4	31.75	25.90	21.84	40.38	50.54
IMC14 -16N	7/8	22.22	1	18.28	1-3/8	34.92	1-1/4	31.75	25.90	21.84	46.99	57.15
IMC16 -8N	1	25.40	1/2	11.93	1-3/8	34.92	1-1/2	38.10	31.24	26.41	45.21	57.40
IMC16 -12N	1	25.40	3/4	15.74	1-3/8	34.92	1-1/2	38.10	31.24	26.41	45.21	57.40
IMC16 -16N	1	25.40	1	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	50.03	62.23
IMC20 -16N	1-1/4	31.75	1	22.35	1-3/4	44.45	1-7/8	47.63	41.14	38.86	55.11	77.21
IMC20 -20N	1-1/4	31.75	1-1/4	27.68	1-3/4	44.45	1-7/8	47.63	41.14	38.86	55.11	77.21
IMC20 -24N	1-1/4	31.75	1-1/2	27.68	1-3/4	44.45	1-7/8	47.63	41.14	38.86	60.54	82.64
IMC24 -20N	1-1/2	38.10	1-1/4	27.68	2-1/8	53.98	2-1/4	57.15	50.03	45.21	59.42	86.60
IMC24 -24N	1-1/2	38.10	1-1/2	34.03	2-1/8	53.98	2-1/4	57.15	50.03	45.21	61.72	88.90
IMC24 -32N	1-1/2	38.10	2	34.03	2-3/4	69.85	2-1/4	57.15	50.03	45.21	62.42	99.75
IMC32 -8N	2	50.80	1/2	11.93	2-3/4	69.85	3	76.20	67.56	62.73	68.40	105.73
IMC32 -20N	2	50.80	1-1/4	45.97	2-3/4	69.85	3	76.20	67.56	62.73	71.40	108.73
IMC32 -24N	2	50.80	1-1/2	45.97	2-3/4	69.85	3	76.20	67.56	62.73	75.50	112.83
IMC32 -32N	2	50.80	2	45.97	2-3/4	69.85	3	76.20	67.56	62.73	76.20	113.53

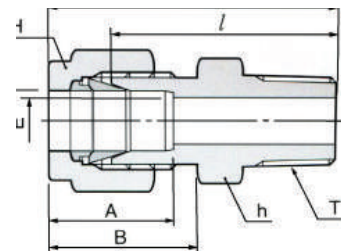
A-B-L dimensions are given approximate. Figures after finger-tight.

All dimensions are in millimeters unless otherwise specified. Dimensions are for reference only, subject to change.

I-Lok Tube Fittings

IMC-R

Male Connector



Part No.	Tube O.D D	T R(PT)	E Min	h	H	A	B	l	L
IMC2M-2R	2	1/8	1.7	12	12	12.9	15.3	23.9	30.5
IMC3M-2R	3	1/8	2.4	12	12	12.9	15.3	23.1	29.7
IMC3M-4R	3	1/4	2.4	14	12	12.9	15.3	29.0	35.6
IMC4M-2R	4	1/8	2.4	12	12	13.7	16.1	24.6	31.2
IMC4M-4R	4	1/4	2.4	14	12	13.7	16.1	29.7	36.3
IMC6M-2R	6	1/8	4.8	14	14	15.3	17.7	25.4	32.8
IMC6M-4R	6	1/4	4.8	14	14	15.3	17.7	30.2	37.6
IMC6M-6R	6	3/8	4.8	18	14	15.3	17.7	31.0	38.4
IMC6M-8R	6	1/2	4.8	22	14	15.3	17.7	37.3	44.0
IMC8M-2R	8	1/8	4.8	15	16	16.2	18.6	26.7	34.2
IMC8M-4R	8	1/4	6.4	15	16	16.2	18.6	31.2	38.7
IMC8M-6R	8	3/8	6.4	18	16	16.2	18.6	31.8	39.2
IMC8M-8R	8	1/2	6.4	22	16	16.2	18.6	37.3	44.8
IMC10M-2R	10	1/8	4.8	18	19	17.2	19.5	28.7	36.3
IMC10M-4R	10	1/4	7.1	18	19	17.2	19.5	33.3	40.9
IMC10M-6R	10	3/8	7.9	18	19	17.2	19.5	33.3	40.9
IMC10M-8R	10	1/2	7.9	22	19	17.2	19.5	38.1	45.7
IMC12M-4R	12	1/4	7.1	22	22	22.8	22.0	33.3	43.4
IMC12M-6R	12	3/8	9.5	22	22	22.8	22.0	33.3	43.4
IMC12M-8R	12	1/2	9.5	22	22	22.8	22.0	38.1	48.2
IMC12M-12R	12	3/4	9.5	27	22	22.8	22.0	38.9	49.0
IMC15M-8R	15	1/2	11.9	24	25	24.4	22.0	38.9	49.0
IMC16M-4R	16	1/4	7.1	24	25	24.4	22.0	34.0	44.1
IMC16M-6R	16	3/8	9.5	24	25	24.4	22.0	34.0	44.1
IMC16M-8R	16	1/2	11.9	24	25	24.4	22.0	38.9	49.0
IMC16M-12R	16	3/4	12.7	27	25	24.4	22.0	38.9	49.0
IMC18M-8R	18	1/2	11.9	27	30	24.4	22.0	40.4	50.5
IMC18M-12R	18	3/4	15.1	27	30	24.4	22.0	40.4	50.5
IMC20M-8R	20	1/2	11.9	30	32	26.0	22.0	42.2	52.3
IMC20M-12R	20	3/4	15.9	30	32	26.0	22.0	42.2	52.3
IMC22M-12R	22	3/4	15.9	30	32	26.0	22.0	42.2	52.3
IMC22M-16R	22	1	18.3	35	32	26.0	22.0	47.8	57.9
IMC25M-12R	25	3/4	15.9	35	38	31.3	26.5	45.2	57.9
IMC25M-16R	25	1	21.8	35	38	31.3	26.5	50.0	62.3
IMC28M-16R	28	1	21.8	41	46	36.6	36.6	51.6	72.4
IMC28M-20R	28	1-1/4	21.8	46	46	36.6	36.6	52.3	73.1
IMC32M-20R	32	1-1/4	28.6	46	50	42.0	41.6	56.6	79.6
IMC38M-24R	38	1-1/2	33.7	55	60	49.4	47.9	64.0	91.6

IMCT

Thermocouple Connector

Shinilace thermocouple connector has no shoulder nor sizing angle inside the fitting, the features enable thermocouple to go through fitting's thread end.

Suffix "T" to male Connector identifier.

Example : IMCT 8-8N-S for ordering Thermocouple connector O.D 1/2"x1/2" NPT S316.

Assembly Instruction

1. Position the length of the Thermocouple passed through fitting's thread end and hold it to prevent shifting during assembly.
2. Turn the nut 1-1/4 after finger tight with a wrench by holding the body with a back up wrench for size 1/4"(6mm) or above.

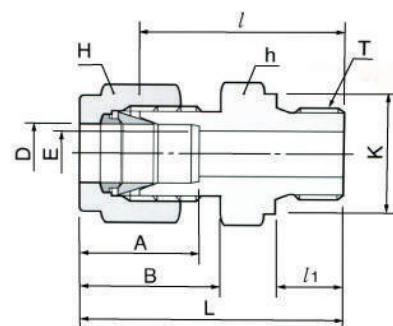
A-B-L dimensions are given approximate. Figures after finger-tight.

All dimensions are in millimeters unless otherwise specified. Dimensions are for reference only, subject to change.

I-Lok Tube Fittings

IMC-G

Male Connector for Bonded Seal



Part No.	Tube O.D		T (PF)	E Min	h		H		A	B	l	l ₁	L	K
	in	mm			in	mm	in	mm						
IMC2-2G	1/8	3.17	1/8	2.28	9/16	14.28	7/16	11.11	12.70	15.24	23.37	7.11	29.97	13.72
IMC2-4G	1/8	3.17	1/4	2.28	3/4	19.05	7/16	11.11	12.70	15.24	28.70	11.18	35.31	18.03
IMC2-6G	1/8	3.17	3/8	2.28	7/8	22.22	7/16	11.11	12.70	15.24	29.72	11.18	36.21	21.84
IMC4-2G	1/4	6.35	1/8	2.28	9/16	14.28	9/16	14.28	15.24	17.78	24.89	7.11	32.26	13.72
IMC4-4G	1/4	6.35	1/4	4.82	3/4	19.05	9/16	14.28	15.24	17.78	30.23	11.18	37.59	18.03
IMC4-6G	1/4	6.35	3/8	4.82	7/8	22.22	9/16	14.28	15.24	17.78	31.50	11.18	38.86	21.84
IMC4-8G	1/4	6.35	1/2	4.82	1-1/16	26.98	9/16	14.28	15.24	17.78	37.34	14.22	44.70	25.91
IMC6-4G	3/8	9.53	1/4	4.82	3/4	19.05	11/16	17.46	16.76	19.30	31.75	11.18	39.12	18.03
IMC6-6G	3/8	9.53	3/8	7.11	7/8	22.22	11/16	17.46	16.76	19.30	33.02	11.18	40.39	21.84
IMC6-8G	3/8	9.53	1/2	7.11	1-1/16	26.98	11/16	17.46	16.76	19.30	38.86	14.22	46.23	25.91
IMC8-4G	1/2	12.70	1/4	7.11	13/16	20.64	7/8	22.22	22.86	21.84	32.51	11.18	42.67	18.03
IMC8-6G	1/2	12.70	3/8	9.65	7/8	22.22	7/8	22.22	22.86	21.84	33.02	11.18	43.18	21.84
IMC8-8G	1/2	12.70	1/2	10.41	1-1/16	26.98	7/8	22.22	22.86	21.84	38.86	14.22	49.02	25.91
IMC12-8G	3/4	19.05	1/2	11.93	1-1/16	26.98	1-1/8	28.58	24.38	21.84	38.86	14.22	49.02	25.91
IMC12-12G	3/4	19.05	3/4	15.74	1-5/16	33.33	1-1/8	28.58	24.38	21.84	42.67	15.75	52.83	32.00
IMC16-8G	1	25.40	1/2	11.93	1-3/8	34.92	1-1/2	38.10	31.24	26.41	43.69	14.22	55.88	25.91
IMC16-16G	1	25.40	1	22.35	1-5/8	41.27	1-1/2	38.10	31.24	26.41	47.75	18.29	59.94	39.12
IMC20-20G	1-1/4	31.75	1-1/4	27.68	2	50.80	1-7/8	47.63	41.14	38.86	51.16	20.00	73.26	49.00
IMC24-24G	1-1/2	38.10	1-1/2	34.03	2-1/4	57.15	2-1/4	57.15	50.03	45.21	57.57	22.00	84.75	55.00

Part No.	Tube O.D. D	T G(PF)	E Min	h	H	A	B	l	l ₁	L	K
IMC2M-2G	2	1/8	1.7	14	12	12.9	15.3	23.4	7.1	30.0	13.8
IMC3M-2G	3	1/8	2.4	14	12	12.9	15.3	23.4	7.1	30.0	13.8
IMC3M-4G	3	1/4	2.4	19	12	12.9	15.3	28.7	11.2	35.3	18.0
IMC4M-2G	4	1/8	2.4	14	12	13.7	16.1	24.1	7.1	30.7	13.8
IMC4M-4G	4	1/4	2.4	19	12	13.7	16.1	29.4	11.2	36.0	18.0
IMC6M-2G	6	1/8	4.0	14	14	15.3	17.7	24.9	7.1	32.3	13.8
IMC6M-4G	6	1/4	4.8	19	14	15.3	17.7	30.2	11.2	37.6	18.0
IMC6M-6G	6	3/8	4.8	22	14	15.3	17.7	31.5	11.2	38.9	21.8
IMC6M-8G	6	1/2	4.8	27	14	15.3	17.7	37.3	14.2	44.7	26.0
IMC8M-2G	8	1/8	4.0	15	16	16.2	18.6	25.7	7.1	33.2	13.8
IMC8M-4G	8	1/4	6.4	19	16	16.2	18.6	31.0	11.2	38.5	13.8
IMC8M-6G	8	3/8	6.4	22	16	16.2	18.6	32.3	11.2	39.8	21.8
IMC8M-8G	8	1/2	6.4	27	16	16.2	18.6	38.1	14.2	45.6	26.0
IMC10M-4G	10	1/4	6.4	19	19	17.2	19.5	31.8	11.2	39.4	18.0
IMC10M-6G	10	3/8	7.9	22	19	17.2	19.5	33.0	11.2	40.6	21.8
IMC10M-8G	10	1/2	7.9	27	19	17.2	19.5	38.9	14.2	46.5	26.0
IMC12M-4G	12	1/4	5.9	22	22	22.8	22.0	32.5	11.2	42.6	32.0
IMC12M-6G	12	3/8	7.9	22	22	22.8	22.0	33.0	11.2	43.1	21.8
IMC12M-8G	12	1/2	9.5	27	22	22.8	22.0	38.9	14.2	49.0	26.0
IMC12M-12G	12	3/4	9.5	32	22	22.8	22.0	42.7	15.7	52.8	32.0
IMC16M-6G	16	3/8	7.9	24	25	24.4	22.0	33.8	11.2	43.9	21.8
IMC16M-8G	16	1/2	11.9	27	25	24.4	22.0	38.9	14.2	49.0	26.0
IMC18M-8G	18	1/2	11.9	27	30	24.4	22.0	38.9	14.2	49.0	26.0
IMC18M-12G	18	3/4	15.1	35	30	24.4	22.0	42.7	15.7	52.8	32.0
IMC20M-8G	20	1/2	11.9	30	32	26.0	22.0	40.4	14.2	50.5	26.0
IMC20M-12G	20	3/4	15.9	35	32	26.0	22.0	42.7	15.7	52.8	32.0
IMC22M-12G	22	3/4	15.9	35	32	26.0	22.0	42.7	15.7	52.8	32.0
IMC22M-16G	22	1	18.3	41	32	26.0	22.0	45.2	18.3	55.3	39.0
IMC25M-12G	25	3/4	15.9	35	38	31.3	26.5	45.2	15.7	57.5	32.0
IMC25M-16G	25	1	19.8	41	38	31.3	26.5	47.8	18.3	60.1	39.0
IMC28M-16G	28	1	19.8	41	46	36.6	36.6	49.3	18.3	70.1	39.0
IMC28M-20G	28	1-1/4	21.8	50	46	36.6	36.6	53.1	19.8	73.9	49.0
IMC32M-20G	32	1-1/4	25.0	50	50	42.0	41.6	55.9	19.8	78.9	49.0
IMC38M-24G	38	1-1/2	31.8	55	60	49.4	47.9	63.2	22.1	90.8	54.7

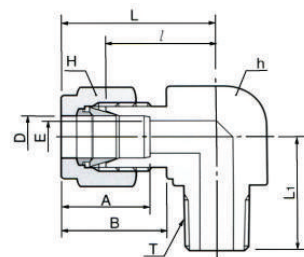
A-B-L dimensions are given approximate. Figures after finger-tight.

All dimensions are in millimeters unless otherwise specified. Dimensions are for reference only, subject to change.

I-Lok Tube Fittings

ILM

Male Elbow (NPT Thread)



Part No.	Tube O.D		T (NPT)	E Min	h		H		A	B	/	L	L ₁
	in	mm			in	mm	in	mm					
ILM1-1N	1/16	1.59	1/16	1.27	7/16	11.11	5/16	7.93	8.63	10.92	15.24	19.50	17.78
ILM1-2N	1/16	1.59	1/8	1.27	7/16	11.11	5/16	7.93	8.63	10.92	15.24	19.50	17.78
ILM2-2N	1/8	3.17	1/8	2.28	1/2	12.70	7/16	11.11	12.70	15.24	18.30	24.91	18.90
ILM2-4N	1/8	3.17	1/4	2.28	1/2	12.70	7/16	11.11	12.70	15.24	18.30	24.91	23.36
ILM3-2N	3/16	4.76	1/8	3.04	1/2	12.70	1/2	12.70	13.71	16.00	18.79	25.40	18.79
ILM3-4N	3/16	4.76	1/4	3.04	1/2	12.70	1/2	12.70	13.71	16.00	18.79	25.40	23.36
ILM4-1N	1/4	6.35	1/16	3.04	1/2	12.70	9/16	14.28	15.24	17.78	19.55	26.90	18.79
ILM4-2N	1/4	6.35	1/8	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.10	26.47	19.10
ILM4-4N	1/4	6.35	1/4	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.81	27.18	23.87
ILM4-6N	1/4	6.35	3/8	4.82	11/16	17.46	9/16	14.28	15.24	17.78	22.35	29.71	26.20
ILM4-8N	1/4	6.35	1/2	4.82	13/16	20.64	9/16	14.28	15.24	17.78	24.60	31.97	33.02
ILM5-2N	5/16	7.93	1/8	4.82	9/16	14.28	5/8	15.87	16.25	18.54	21.33	28.70	19.81
ILM5-4N	5/16	7.93	1/4	6.35	9/16	14.28	5/8	15.87	16.25	18.54	21.33	29.77	24.50
ILM5-6N	5/16	7.93	3/8	6.35	11/16	17.46	5/8	15.87	16.25	18.54	23.11	30.48	26.20
ILM6-2N	3/8	9.52	1/8	4.82	5/8	15.87	11/16	17.46	16.76	19.30	23.11	30.48	20.60
ILM6-4N	3/8	9.52	1/4	7.11	5/8	15.87	11/16	17.46	16.76	19.30	23.11	30.48	25.40
ILM6-6N	3/8	9.52	3/8	7.11	11/16	17.46	11/16	17.46	16.76	19.30	23.87	31.24	26.20
ILM6-8N	3/8	9.52	1/2	7.11	13/16	20.64	11/16	17.46	16.76	19.30	25.90	31.42	33.02
ILM6-12N	3/8	9.52	3/4	7.11	1-1/16	26.98	11/16	17.46	16.76	19.30	29.71	37.08	36.83
ILM8-4N	1/2	12.70	1/4	7.11	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	28.30
ILM8-6N	1/2	12.70	3/8	9.65	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	28.30
ILM8-8N	1/2	12.70	1/2	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	33.02
ILM8-12N	1/2	12.70	3/4	10.41	1-1/16	26.98	7/8	22.22	22.86	21.84	29.71	39.87	36.83
ILM10-6N	5/8	15.87	3/8	9.65	15/16	23.81	1	25.40	24.38	21.84	28.00	37.06	30.22
ILM10-8N	5/8	15.87	1/2	11.93	15/16	23.81	1	25.40	24.38	21.84	28.00	37.06	35.10
ILM10-12N	5/8	15.87	3/4	12.70	1-1/16	26.98	1	25.40	24.38	21.84	29.71	39.87	36.83
ILM12-8N	3/4	19.05	1/2	11.93	1-1/16	26.98	1-1/8	28.57	24.38	21.84	29.71	39.87	37.00
ILM12-12N	3/4	19.05	3/4	15.74	1-1/16	26.98	1-1/8	28.57	24.38	21.84	29.71	39.87	36.83
ILM14-12N	7/8	22.22	3/4	15.74	1-1/4	31.75	1-1/4	31.75	25.90	21.84	34.54	44.70	41.65
ILM16-12N	1	25.40	3/4	15.74	1-27-64	36.00	1-1/2	38.10	31.24	26.41	36.83	49.02	42.20
ILM16-16N	1	25.40	1	22.35	1-27-64	36.00	1-1/2	38.10	31.24	26.41	36.83	49.02	46.70
ILM20-20N	1-1/4	31.75	1-1/4	27.68	1-11/16	42.86	1-7/8	47.63	41.14	38.86	44.50	66.54	47.75
ILM24-24N	1-1/2	38.10	1-1/2	34.03	2	50.80	2-1/4	57.15	50.03	45.21	50.80	77.97	60.45
ILM32-32N	2	50.80	2	45.97	2-3/4	69.85	3	76.20	62.73	63.73	69.80	107.18	70.61

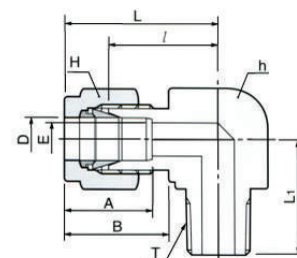
A-B-L-L₁ dimensions are given approximate. Figures after finger-tight.

All dimensions are in millimeters unless otherwise specified. Dimensions are for reference only, subject to change.

I-Lok Tube Fittings

ILM

Male Elbow



Part No.	Tube O.D D	T R(PT)	E Min	h	H	A	B	l	L	L ₁
ILM3M-2R	3	1/8	2.4	12.7	12	12.9	15.3	17.0	23.6	17.8
ILM3M-4R	3	1/4	2.4	12.7	12	12.9	15.3	18.0	24.6	23.4
ILM4M-2R	4	1/8	2.4	12.7	12	13.7	16.1	18.8	25.4	18.8
ILM4M-4R	4	1/4	2.4	12.7	12	13.7	16.1	18.8	25.4	23.4
ILM6M-2R	6	1/8	4.8	12.7	14	15.3	17.7	19.6	27.0	18.8
ILM6M-4R	6	1/4	4.8	12.7	14	15.3	17.7	19.6	27.0	23.4
ILM6M-6R	6	3/8	4.8	17.5	14	15.3	17.7	22.4	29.8	26.2
ILM6M-8R	6	1/2	4.8	20.6	14	15.3	17.7	24.4	31.8	33.0
ILM8M-2R	8	1/8	4.8	14.3	16	16.2	18.6	21.3	28.8	19.8
ILM8M-4R	8	1/4	6.4	14.3	16	16.2	18.6	21.3	28.8	24.4
ILM8M-6R	8	3/8	6.4	17.5	16	16.2	18.6	23.1	30.6	26.2
ILM8M-8R	8	1/2	6.4	20.6	16	16.2	18.6	25.1	32.6	33.0
ILM10M-2R	10	1/8	4.8	17.5	19	17.2	19.5	23.9	31.5	23.6
ILM10M-4R	10	1/4	7.1	17.5	19	17.2	19.5	23.9	31.5	26.2
ILM10M-6R	10	3/8	7.9	17.5	19	17.2	19.5	23.9	31.5	26.2
ILM10M-8R	10	1/2	7.9	20.6	19	17.2	19.5	25.9	33.5	33.0
ILM12M-2R	12	1/8	4.8	20.6	22	22.8	22.0	25.9	36.0	23.6
ILM12M-4R	12	1/4	7.1	20.6	22	22.8	22.0	25.9	36.0	28.2
ILM12M-6R	12	3/8	9.5	20.6	22	22.8	22.0	25.9	36.0	28.2
ILM12M-8R	12	1/2	9.5	20.6	22	22.8	22.0	25.9	36.0	33.0
ILM12M-12R	12	3/4	9.5	27.0	22	22.8	22.0	29.7	39.8	36.8
ILM16M-6R	16	3/8	9.5	25.4	25	24.4	22.0	27.9	38.0	30.2
ILM16M-8R	16	1/2	11.9	25.4	25	24.4	22.0	27.9	38.0	35.1
ILM16M-12R	16	3/4	12.7	27.0	25	24.4	22.0	29.7	39.8	36.8
ILM18M-8R	18	1/2	11.9	27.0	30	24.4	22.0	29.7	39.8	36.8
ILM18M-12R	18	3/4	15.1	27.0	30	24.4	22.0	29.7	39.8	36.8
ILM20M-8R	20	1/2	11.9	34.92	32	26.0	22.0	34.5	44.6	41.7
ILM20M-12R	20	3/4	15.9	34.92	32	26.0	22.0	34.5	44.6	41.7
ILM22M-12R	22	3/4	15.9	34.92	32	26.0	22.0	34.5	44.6	41.7
ILM22M-16R	22	1	18.3	34.92	32	26.0	22.0	34.5	44.6	46.5
ILM25M-12R	25	3/4	15.9	34.92	38	31.3	26.5	36.8	49.1	41.7
ILM25M-16R	25	1	21.8	34.92	38	31.3	26.5	36.8	49.1	46.5

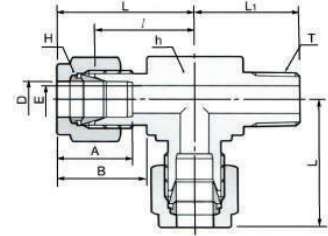
A-B-L dimensions are given approximate. Figures after finger-tight.

All dimensions are in millimeters unless otherwise specified. Dimensions are for reference only, subject to change.

I-Lok Tube Fittings

IRTM

Male Run Tee (NPT Thread)



Part No.	Tube O.D		T (NPT)	E Min	h		H		A	B	/	L	L ₁
	in	mm			in	mm	in	mm					
IRTM1-1N	1/16	1.59	1/16	1.27	7/16	11.11	5/16	7.93	8.63	10.92	15.24	19.05	17.78
IRTM1-2N	1/16	1.59	1/8	1.27	7/16	11.11	5/16	7.93	8.63	10.92	15.24	19.05	17.78
IRTM2-2N	1/8	3.17	1/8	2.28	1/2	12.70	7/16	11.11	12.70	15.24	18.30	24.91	18.90
IRTM2-4N	1/8	3.17	1/4	2.28	1/2	12.70	7/16	11.11	12.70	15.24	18.30	24.91	23.36
IRTM3-2N	3/16	4.76	1/8	3.04	1/2	12.70	1/2	12.70	13.71	16.00	18.79	24.38	18.79
IRTM3-4N	3/16	4.76	1/4	3.04	1/2	12.70	1/2	12.70	13.71	16.00	18.79	25.40	23.36
IRTM4-1N	1/4	6.35	1/16	3.04	1/2	12.70	9/16	14.28	15.24	17.78	19.55	26.90	18.79
IRTM4-2N	1/4	6.35	1/8	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	26.92	18.79
IRTM4-4N	1/4	6.35	1/4	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	27.08	23.87
IRTM4-6N	1/4	6.35	3/8	4.82	11/16	17.46	9/16	14.28	15.24	17.78	22.35	29.71	28.40
IRTM4-8N	1/4	6.35	1/2	4.82	13/16	20.64	9/16	14.28	15.24	17.78	24.60	31.97	35.10
IRTM5-2N	5/16	7.93	1/8	4.82	9/16	14.28	5/8	15.87	16.25	18.54	22.35	29.71	19.81
IRTM5-4N	5/16	7.94	1/4	6.35	9/16	14.28	5/8	15.87	16.25	18.54	22.35	29.77	24.50
IRTM5-6N	5/16	7.94	3/8	6.35	11/16	17.46	5/8	15.87	16.25	18.54	23.11	30.48	28.40
IRTM6-4N	3/8	9.52	1/4	7.11	5/8	15.87	1/16	17.46	16.76	19.30	23.11	30.48	25.40
IRTM6-6N	3/8	9.52	3/8	7.11	11/16	17.46	11/16	17.46	16.76	19.30	23.87	31.24	28.44
IRTM6-8N	3/8	9.52	1/2	7.11	13/16	20.64	11/16	17.46	16.76	19.30	25.90	33.27	33.02
IRTM6-12N	3/8	9.52	3/4	7.11	1-1/16	26.98	11/16	17.46	16.76	19.30	29.71	37.08	36.83
IRTM8-4N	1/2	12.70	1/4	7.11	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	28.30
IRTM8-6N	1/2	12.70	3/8	9.65	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	28.30
IRTM8-8N	1/2	12.70	1/2	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	33.02
IRTM8-12N	1/2	12.70	3/4	10.41	1-1/16	26.98	7/8	22.22	22.86	21.84	29.71	39.84	36.83
IRTM10-6N	5/8	15.87	3/8	9.65	15/16	23.81	1	25.40	24.38	21.84	27.90	38.10	29.40
IRTM10-8N	5/8	15.87	1/2	11.93	15/16	23.81	1	25.40	24.38	21.84	27.90	38.10	34.00
IRTM10-12N	5/8	15.87	3/4	12.70	1-1/16	26.98	1	25.40	24.38	21.84	29.71	39.87	36.83
IRTM12-8N	3/4	19.05	1/2	11.93	1-1/16	26.98	1-1/8	28.58	24.38	21.84	29.71	39.87	37.00
IRTM12-12N	3/4	19.05	3/4	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	29.71	39.81	36.83
IRTM14-12N	7/8	22.23	3/4	15.74	1-1/16	26.98	1-1/4	31.75	25.90	21.84	34.54	44.70	41.65
IRTM16-12N	1	25.40	3/4	15.74	1-1/4	31.75	1-1/2	38.10	31.24	26.41	36.83	49.02	42.20
IRTM16-16N	1	25.40	1	22.35	1-27/64	36.12	1-1/2	38.10	31.24	26.41	36.83	49.02	46.70
IRTM20-20N	1-1/4	31.75	1-1/4	27.68	1-27/64	36.12	1-7/8	47.63	41.14	38.86	44.50	66.54	47.75
IRTM24-24N	1-1/2	38.10	1-1/2	34.03	2	50.80	2-1/4	57.15	50.03	45.21	50.80	77.97	60.45
IRTM32-32N	2	50.80	2	45.97	2-3/4	69.85	3	76.20	67.56	62.73	69.80	107.18	70.61

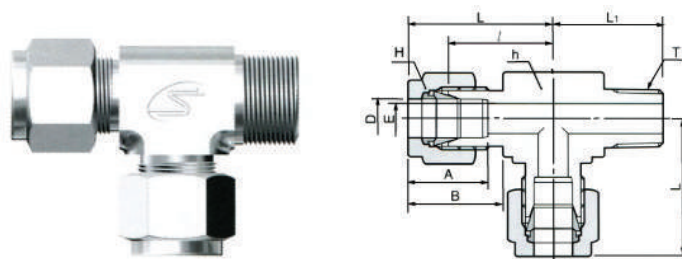
A-B-L dimensions are given approximate. Figures after finger-tight.

All dimensions are in millimeters unless otherwise specified. Dimensions are for reference only, subject to change.

I-Lok Tube Fittings

IRTM

Male Run Tee



Part No.	Tube O.D D	T R(PT)	E Min	h	H	A	B	/	L	L ₁
IRTM3M-2R	3	1/8	2.4	12.7	12	12.9	15.3	17.0	23.6	17.8
IRTM3M-4R	3	1/4	2.4	12.7	12	12.9	15.3	18.0	24.6	23.4
IRTM4M-2R	4	1/8	2.4	12.7	12	13.7	16.1	18.8	25.4	18.8
IRTM4M-4R	4	1/4	2.4	12.7	12	13.7	16.1	18.8	25.4	23.4
IRTM6M-2R	6	1/8	4.8	12.7	14	15.3	17.7	19.6	27.0	18.8
IRTM6M-4R	6	1/4	4.8	14.2	14	15.3	17.7	19.6	27.0	23.4
IRTM6M-6R	6	3/8	4.8	17.5	14	15.3	17.7	22.4	29.8	26.2
IRTM6M-8R	6	1/2	4.8	20.6	14	15.3	17.7	24.4	31.8	33.0
IRTM8M-2R	8	1/8	4.8	14.3	16	16.2	18.6	21.3	28.8	19.8
IRTM8M-4R	8	1/4	6.4	14.3	16	16.2	18.6	21.3	28.8	24.4
IRTM8M-6R	8	3/8	6.4	17.5	16	16.2	18.6	23.1	30.6	26.2
IRTM8M-8R	8	1/2	6.4	20.6	16	16.2	18.6	25.1	32.6	33.0
IRTM10M-2R	10	1/8	4.8	17.5	19	17.2	19.5	23.9	31.5	23.6
IRTM10M-4R	10	1/4	7.1	17.5	19	17.2	19.5	23.9	31.5	26.2
IRTM10M-6R	10	3/8	7.9	17.5	19	17.2	19.5	23.9	31.5	26.2
IRTM10M-8R	10	1/2	7.9	20.6	19	17.2	19.5	25.9	33.5	33.0
IRTM12M-2R	12	1/8	4.8	20.6	22	22.8	22.0	25.9	36.0	23.6
IRTM12M-4R	12	1/4	7.1	20.6	22	22.8	22.0	25.9	36.0	28.2
IRTM12M-6R	12	3/8	9.5	20.6	22	22.8	22.0	25.9	36.0	28.2
IRTM12M-8R	12	1/2	9.5	20.6	22	22.8	22.0	25.9	36.0	33.0
IRTM12M-12R	12	3/4	9.5	27.0	22	22.8	22.0	29.7	39.8	36.8
IRTM16M-6R	16	3/8	9.5	25.4	25	24.4	22.0	27.9	38.0	30.2
IRTM16M-8R	16	1/2	11.9	25.4	25	24.4	22.0	27.9	38.0	35.1
IRTM16M-12R	16	3/4	12.7	27.0	25	24.4	22.0	29.7	39.8	36.8
IRTM18M-8R	18	1/2	11.9	27.0	30	24.4	22.0	29.7	39.8	36.8
IRTM18M-12R	18	3/4	15.1	27.0	30	24.4	22.0	29.7	39.8	36.8
IRTM20M-8R	20	1/2	11.9	34.92	32	26.0	22.0	34.5	44.6	41.7
IRTM20M-12R	20	3/4	15.9	34.92	32	26.0	22.0	34.5	44.6	41.7
IRTM22M-12R	22	3/4	15.9	34.92	32	26.0	22.0	34.5	44.6	41.7
IRTM22M-16R	22	1	18.3	34.92	32	26.0	22.0	34.5	44.6	46.5
IRTM25M-12R	25	3/4	15.9	34.92	38	31.3	26.5	36.8	49.1	41.7
IRTM25M-16R	25	1	21.8	34.92	38	31.3	26.5	36.8	49.1	46.5

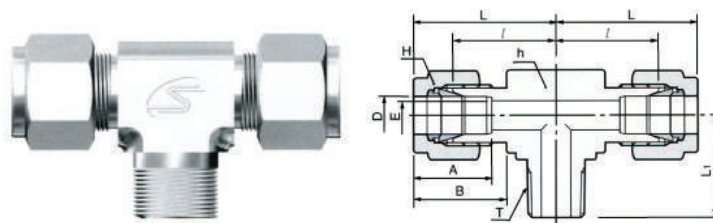
A-B-L dimensions are given approximate. Figures after finger-tight.

All dimensions are in millimeters unless otherwise specified. Dimensions are for reference only, subject to change.

I-Lok Tube Fittings

IBTM

Male Branch Tee (NPT Thread)



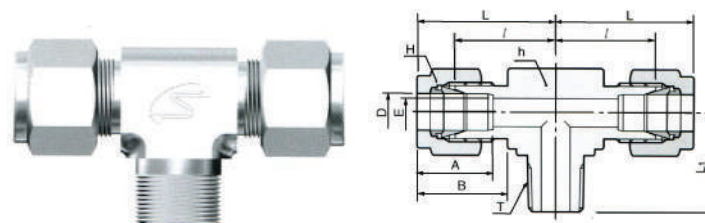
Part No.	Tube O.D		T	E	h		H		A	B	/	L	L ₁
	in	mm			in	mm	in	mm					
IBTM1-1N	1/16	1.59	1/16	1.27	7/16	11.11	5/16	7.93	8.63	10.92	15.24	19.05	17.78
IBTM1-2N	1/16	1.59	1/8	1.27	7/16	11.11	5/16	7.93	8.63	10.92	15.24	19.05	17.78
IBTM2-2N	1/8	3.17	1/8	2.28	1/2	12.70	7/16	11.11	12.70	15.24	18.30	24.91	18.90
IBTM2-4N	1/8	3.17	1/4	2.28	1/2	12.70	7/16	11.11	12.70	15.24	18.30	24.91	23.36
IBTM3-2N	3/16	4.76	1/8	3.04	1/2	12.70	1/2	12.70	13.71	16.00	18.79	24.38	18.79
IBTM3-4N	3/16	4.76	1/4	3.04	1/2	12.70	1/2	12.70	13.71	16.00	18.79	25.40	23.36
IBTM4-1N	1/4	6.35	1/16	3.04	1/2	12.70	9/16	14.28	15.24	17.78	19.55	26.90	18.79
IBTM4-2N	1/4	6.35	1/8	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	26.92	19.10
IBTM4-4N	1/4	6.35	1/4	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	27.08	23.87
IBTM4-6N	1/4	6.35	3/8	4.82	11/16	17.46	9/16	14.28	15.24	17.78	22.35	29.71	28.40
IBTM4-8N	1/4	6.35	1/2	4.82	13/16	20.64	9/16	14.28	15.24	17.78	24.60	31.97	35.10
IBTM5-2N	5/16	7.93	1/8	4.82	9/16	14.28	5/8	15.87	16.25	18.54	22.35	29.71	19.81
IBTM5-4N	5/16	7.93	1/4	6.35	9/16	14.28	5/8	15.87	16.25	18.54	22.35	29.77	24.50
IBTM5-6N	5/16	7.93	3/8	6.35	11/16	17.46	5/8	15.87	16.25	18.54	23.11	30.48	28.40
IBTM6-4N	3/8	9.52	1/4	7.11	5/8	15.87	1/16	17.46	16.76	19.30	23.11	30.48	25.40
IBTM6-6N	3/8	9.52	3/8	7.11	11/16	17.46	11/16	17.46	16.76	19.30	23.87	31.24	28.44
IBTM6-8N	3/8	9.52	1/2	7.11	13/16	20.64	11/16	17.46	16.76	19.30	25.90	33.27	33.02
IBTM6-12N	3/8	9.52	3/4	7.11	1-1/16	26.98	11/16	17.46	16.76	19.30	29.71	37.08	36.83
IBTM8-4N	1/2	12.70	1/4	7.11	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	28.30
IBTM8-6N	1/2	12.70	3/8	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	28.30
IBTM8-8N	1/2	12.70	1/2	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	33.02
IBTM8-12N	1/2	12.70	3/4	10.41	1-1/16	26.98	7/8	22.22	22.86	21.84	29.71	39.87	36.83
IBTM10-6N	5/8	15.87	3/8	9.65	15/16	23.81	1	25.40	24.38	21.84	27.90	38.10	29.40
IBTM10-8N	5/8	15.87	1/2	11.93	15/16	23.81	1	25.40	24.38	21.84	27.90	38.10	34.00
IBTM10-12N	5/8	15.87	3/4	12.70	1-1/16	26.98	1	25.40	24.38	21.84	29.71	39.87	36.83
IBTM12-8N	3/4	19.05	1/2	11.93	1-1/16	26.98	1-1/8	28.58	24.38	21.84	29.71	39.87	37.00
IBTM12-12N	3/4	19.05	3/4	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	29.71	39.87	36.83
IBTM14-12N	7/8	22.22	3/4	15.74	1-1/16	26.98	1-1/4	31.75	25.90	21.84	34.54	44.70	41.65
IBTM16-12N	1	25.40	3/4	15.74	1-1/4	31.75	1-1/2	38.10	31.24	26.41	36.83	49.02	42.20
IBTM16-16N	1	25.40	1	22.35	1-27/64	36.12	1-1/2	38.10	31.24	26.41	36.83	49.02	46.70
IBTM20-20N	1-1/4	31.75	1-1/4	27.68	1-27/64	36.12	1-7/8	47.63	41.14	38.86	44.50	66.54	47.75
IBTM24-24N	1-1/2	38.10	1-1/2	34.03	2	50.80	2-1/4	57.15	50.03	45.21	50.80	77.97	60.45
IBTM32-32N	2	50.80	2	45.97	2-3/4	69.85	3	76.20	67.56	62.73	69.80	107.18	70.61

A-B-L dimensions are given approximate. Figures after finger-tight.

All dimensions are in millimeters unless otherwise specified. Dimensions are for reference only, subject to change.

IBTM

Male Branch Tee



Part No.	Tube O.D D	T R(PT)	E Min	h	H	A	B	/	L	L ₁
IBTM3M-2R	3	1/8	2.4	12.7	12	12.9	15.3	17.0	23.6	17.8
IBTM3M-4R	3	1/4	2.4	12.7	12	12.9	15.3	18.0	24.6	23.4
IBTM4M-2R	4	1/8	2.4	12.7	12	13.7	16.1	18.8	25.4	18.8
IBTM4M-4R	4	1/4	2.4	12.7	12	13.7	16.1	18.8	25.4	23.4
IBTM6M-2R	6	1/8	4.8	12.7	14	15.3	17.7	19.6	27.0	18.8
IBTM6M-4R	6	1/4	4.8	14.2	14	15.3	17.7	19.6	27.0	23.4
IBTM6M-6R	6	3/8	4.8	17.5	14	15.3	17.7	22.4	29.8	26.2
IBTM6M-8R	6	1/2	4.8	20.6	14	15.3	17.7	24.4	31.8	33.0
IBTM8M-2R	8	1/8	4.8	14.3	16	16.2	18.6	21.3	28.8	19.8
IBTM8M-4R	8	1/4	6.4	14.3	16	16.2	18.6	21.3	28.8	24.4
IBTM8M-6R	8	3/8	6.4	17.5	16	16.2	18.6	23.1	30.6	26.2
IBTM8M-8R	8	1/2	6.4	20.6	16	16.2	18.6	25.1	32.6	33.0
IBTM10M-2R	10	1/8	4.8	17.5	19	17.2	19.5	23.9	31.5	23.6
IBTM10M-4R	10	1/4	7.1	17.5	19	17.2	19.5	23.9	31.5	26.2
IBTM10M-6R	10	3/8	7.9	17.5	19	17.2	19.5	23.9	31.5	26.2
IBTM10M-8R	10	1/2	7.9	20.6	19	17.2	19.5	25.9	33.5	33.0
IBTM12M-2R	12	1/8	4.8	20.6	22	22.8	22.0	25.9	36.0	23.6
IBTM12M-4R	12	1/4	7.1	20.6	22	22.8	22.0	25.9	36.0	28.2
IBTM12M-6R	12	3/8	9.5	20.6	22	22.8	22.0	25.9	36.0	28.2
IBTM12M-8R	12	1/2	9.5	20.6	22	22.8	22.0	25.9	36.0	33.0
IBTM12M-12R	12	3/4	9.5	27.0	22	22.8	22.0	29.7	39.8	36.8
IBTM16M-6R	16	3/8	9.5	25.4	25	24.4	22.0	27.9	38.0	30.2
IBTM16M-8R	16	1/2	11.9	25.4	25	24.4	22.0	27.9	38.0	35.1
IBTM16M-12R	16	3/4	12.7	27.0	25	24.4	22.0	29.7	39.8	36.8
IBTM18M-8R	18	1/2	11.9	27.0	30	24.4	22.0	29.7	39.8	36.8
IBTM18M-12R	18	3/4	15.1	27.0	30	24.4	22.0	29.7	39.8	36.8
IBTM20M-8R	20	1/2	11.9	31.8	32	26.0	22.0	34.5	44.6	41.7
IBTM20M-12R	20	3/4	15.9	31.8	32	26.0	22.0	34.5	44.6	41.7
IBTM22M-12R	22	3/4	15.9	31.8	32	26.0	22.0	34.5	44.6	41.7
IBTM22M-16R	22	1	18.3	36.0	32	26.0	22.0	34.5	44.6	46.5
IBTM25M-12R	25	3/4	15.9	36.0	38	31.3	26.5	36.8	49.1	41.7
IBTM25M-16R	25	1	21.8	36.0	38	31.3	26.5	36.8	49.1	46.5

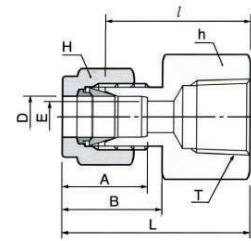
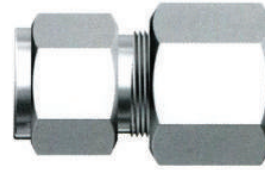
A-B-L dimensions are given approximate. Figures after finger-tight.

All dimensions are in millimeters unless otherwise specified. Dimensions are for reference only, subject to change.

I-Lok Tube Fittings

IFC

Female Connector (NPT Thread)

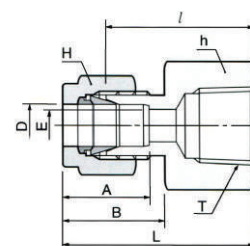
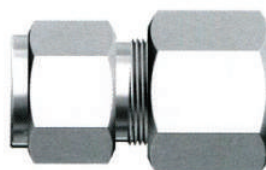


Part No.	Tube O.D		T (NPT)	E Min	h		H		A	B	/	L
	in	mm			in	mm	in	mm				
IFC1 -1N	1/16	1.59	1/16	1.27	7/16	11.11	5/16	7.93	8.63	10.92	19.81	23.62
IFC1 -2N	1/16	1.59	1/8	1.27	9/16	14.28	5/16	7.93	8.63	10.92	20.57	24.38
IFC2 -2N	1/8	3.17	1/8	2.28	9/16	14.28	7/16	11.11	12.70	15.24	22.09	28.70
IFC2 -4N	1/8	3.17	1/4	2.28	3/4	19.05	7/16	11.11	12.70	15.24	26.92	33.52
IFC3 -2N	3/16	4.76	1/8	3.04	9/16	14.28	1/2	12.70	13.71	16.00	23.11	29.71
IFC4 -2N	1/4	6.35	1/8	4.82	9/16	14.28	9/16	14.28	15.24	17.78	23.87	31.24
IFC4 -4N	1/4	6.35	1/4	4.82	3/4	19.05	9/16	14.28	15.24	17.78	28.44	35.81
IFC4 -6N	1/4	6.35	3/8	4.82	7/8	22.22	9/16	14.28	15.24	17.78	30.22	37.59
IFC4 -8N	1/4	6.35	1/2	4.82	1-1/16	26.98	9/16	14.28	15.24	17.78	35.05	42.41
IFC5 -2N	5/16	7.93	1/8	6.35	9/16	14.28	5/8	15.87	16.25	18.54	24.63	32.00
IFC5 -4N	5/16	7.93	1/4	6.35	3/4	19.05	5/8	15.87	16.25	18.54	29.46	36.83
IFC6 -2N	3/8	9.52	1/8	7.11	5/8	15.87	11/16	17.46	16.76	19.30	25.40	32.76
IFC6 -4N	3/8	9.52	1/4	7.11	3/4	19.05	11/16	17.46	16.76	19.30	30.22	37.59
IFC6 -6N	3/8	9.52	3/8	7.11	7/8	22.22	11/16	17.46	16.76	19.30	31.75	39.11
IFC6 -8N	3/8	9.52	1/2	7.11	1-1/16	26.98	11/16	17.46	16.76	19.30	36.57	43.94
IFC6 -12N	3/8	9.52	3/4	7.11	1-5/16	33.33	11/16	17.46	16.76	19.30	40.38	47.75
IFC8 -4N	1/2	12.70	1/4	10.41	1-3/16	20.64	7/8	22.22	22.86	21.84	30.22	40.38
IFC8 -6N	1/2	12.70	3/8	10.41	7/8	22.22	7/8	22.22	22.86	21.84	31.75	41.91
IFC8 -8N	1/2	12.70	1/2	10.41	1-1/16	26.98	7/8	22.22	22.86	21.84	36.57	46.73
IFC8 -12N	1/2	12.70	3/4	10.41	1-5/16	33.33	7/8	22.22	22.86	21.84	38.10	48.26
IFC10 -6N	5/8	15.87	3/8	12.70	15/16	23.81	1	25.40	24.38	21.84	31.75	41.91
IFC10 -8N	5/8	15.87	1/2	12.70	1-1/16	26.98	1	25.40	24.38	21.84	36.57	46.73
IFC10 -12N	5/8	15.87	3/4	12.70	1-5/16	33.33	1	25.40	24.38	21.84	38.10	48.26
IFC12 -8N	3/4	19.05	1/2	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	36.57	46.73
IFC12 -12N	3/4	19.05	3/4	15.74	1-5/16	33.33	1-1/8	28.58	24.38	21.84	38.10	48.26
IFC14 -12N	7/8	22.22	3/4	18.28	1-5/16	33.33	1-1/4	31.75	25.90	21.84	39.62	49.78
IFC16 -12N	1	25.40	3/4	22.35	1-3/8	34.92	1-1/2	38.10	31.24	26.41	41.14	53.34
IFC16 -16N	1	25.40	1	22.35	1-5/8	41.27	1-1/2	38.10	31.24	26.41	50.03	62.23
IFC20 -20N	1-1/4	31.75	1-1/4	27.68	2-1/8	53.98	1-7/8	47.63	41.14	38.86	52.57	74.67
IFC24 -24N	1-1/2	38.10	1-1/2	34.03	2-3/8	60.33	2-1/4	57.15	50.03	45.21	56.13	83.31
IFC32 -32N	2	50.80	2	45.97	2-1/8	73.03	3	76.20	67.56	62.73	64.26	101.60

A-B-L dimensions are given approximate. Figures after finger-tight.

All dimensions are in millimeters unless otherwise specified. Dimensions are for reference only, subject to change.

I-Lok Tube Fittings

IFC
 Female Connector


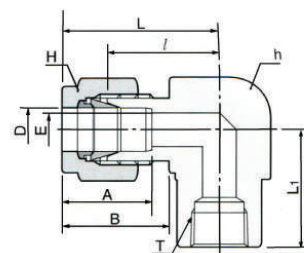
Part No.	Tube O.D D	T R(PT)	E Min	h	H	A	B	l	L
IFC3M-2R	3	1/8	2.4	14	12	12.9	15.3	22.1	28.7
IFC3M-4R	3	1/4	2.4	19	12	12.9	15.3	26.9	33.5
IFC4M-2R	4	1/8	2.4	14	12	13.7	16.1	23.1	29.7
IFC6M-2R	6	1/8	4.8	14	14	15.3	17.7	23.9	31.3
IFC6M-4R	6	1/4	4.8	19	14	15.3	17.7	28.4	35.8
IFC6M-6R	6	3/8	4.8	22	14	15.3	17.7	29.5	36.9
IFC6M-8R	6	1/2	4.8	27	14	15.3	17.7	35.1	42.5
IFC8M-2R	8	1/8	6.4	15	16	16.2	18.6	24.6	32.1
IFC8M-4R	8	1/4	6.4	19	16	16.2	18.6	29.5	37.0
IFC8M-6R	8	3/8	6.4	22	16	16.2	18.6	30.2	37.7
IFC8M-8R	8	1/2	6.4	27	16	16.2	18.6	35.8	43.3
IFC10M-2R	10	1/8	7.9	18	19	17.2	19.5	25.4	33.0
IFC10M-4R	10	1/4	7.9	19	19	17.2	19.5	30.2	37.8
IFC10M-6R	10	3/8	7.9	22	19	17.2	19.5	31.0	38.6
IFC10M-8R	10	1/2	7.9	27	19	17.2	19.5	36.6	44.2
IFC12M-2R	12	1/8	8.3	22	22	22.8	22.0	28.4	38.5
IFC12M-4R	12	1/4	9.5	22	22	22.8	22.0	30.2	40.3
IFC12M-6R	12	3/8	9.5	22	22	22.8	22.0	31.0	41.1
IFC12M-8R	12	1/2	9.5	27	22	22.8	22.0	36.6	46.7
IFC12M-12R	12	3/4	9.5	35	22	22.8	22.0	38.9	49.0
IFC15M-8R	15	1/2	11.9	27	25	24.4	22.0	36.6	46.7
IFC16M-8R	16	1/2	12.7	27	25	24.4	22.0	36.8	46.9
IFC20M-8R	20	1/2	15.9	30	32	26.0	22.0	37.8	47.9
IFC20M-12R	20	3/4	15.9	35	32	26.0	22.0	39.6	49.7
IFC22M-12R	22	3/4	18.3	35	32	26.0	22.0	39.6	49.7
IFC22M-16R	22	1	18.3	41	32	26.0	22.0	47.8	57.9
IFC25M-12R	25	3/4	21.8	35	38	31.3	26.5	41.1	53.4
IFC25M-16R	25	1	21.8	41	38	31.3	26.5	50.0	62.3

A-B-L dimensions are given approximate. Figures after finger-tight.
 All dimensions are in millimeters unless otherwise specified. Dimensions are for reference only, subject to change.

I-Lok Tube Fittings

ILF

Female Elbow (NPT Thread)



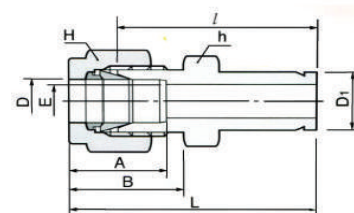
Part No.	Tube O.D D		T (NPT)	E Min	h		H		A	B	/	L	L ₁
	in	mm			in	mm	in	mm					
ILF2-2N	1/8	3.17	1/8	2.28	1/2	12.70	7/16	11.11	12.70	15.24	18.03	24.63	19.05
ILF2-4N	1/8	3.17	1/4	2.28	11/16	17.46	7/16	11.11	12.70	15.24	20.82	27.43	22.35
ILF3-2N	3/16	4.76	1/8	3.04	1/2	12.70	1/2	12.70	13.71	16.00	18.79	25.40	19.05
ILF4-2N	1/4	6.35	1/8	4.82	1/2	12.70	9/16	14.28	15.24	17.78	19.55	26.92	19.05
ILF4-4N	1/4	6.35	1/4	4.82	11/16	17.46	9/16	14.28	15.24	17.78	22.35	29.71	22.35
ILF4-6N	1/4	6.35	3/8	4.82	13/16	20.64	9/16	14.28	15.24	17.78	24.38	31.75	22.35
ILF4-8N	1/4	6.35	1/2	4.82	1	25.40	9/16	14.28	15.24	17.78	27.17	34.54	28.44
ILF5-2N	5/16	7.93	1/8	6.35	9/16	14.28	5/8	15.87	16.25	18.54	21.33	28.70	19.05
ILF5-4N	5/16	7.93	1/4	6.35	11/16	17.46	5/8	15.87	15.24	18.54	23.11	30.48	22.35
ILF6-2N	3/8	9.52	1/8	7.11	5/8	15.87	11/16	17.46	16.76	19.30	23.11	30.48	19.05
ILF6-4N	3/8	9.52	1/4	7.11	11/16	17.46	11/16	17.46	16.76	19.30	23.87	31.24	22.35
ILF6-6N	3/8	9.52	3/8	7.11	13/16	20.64	11/16	17.46	16.76	19.30	25.90	33.27	22.35
ILF6-8N	3/8	9.52	1/2	7.11	1	25.40	11/16	17.46	16.76	19.30	23.70	36.06	28.44
ILF8-4N	1/2	12.70	1/4	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	22.35
ILF8-6N	1/2	12.70	3/8	10.41	13/16	20.64	7/8	22.22	22.86	21.84	25.90	36.06	22.35
ILF8-8N	1/2	12.70	1/2	10.41	1	25.40	7/8	22.22	22.86	21.84	28.70	38.86	28.44
ILF10-6N	5/8	15.87	3/8	12.70	15/16	23.81	1	25.40	24.38	21.84	27.94	38.10	22.35
ILF10-8N	5/8	15.87	1/2	12.70	1	25.40	1	25.40	24.38	21.84	29.71	39.87	28.44
ILF12-8N	3/4	19.05	1/2	15.74	1-1/16	26.98	1-1/8	28.58	24.38	21.84	29.71	39.87	28.44
ILF12-12N	3/4	19.05	3/4	15.74	1-1/4	31.75	1-1/8	28.58	24.38	21.84	34.54	44.70	31.75
ILF14-12N	7/8	22.22	3/4	18.28	1-1/4	31.75	1-1/4	31.75	25.90	21.84	34.54	44.70	31.75
ILF16-12N	1	25.40	3/4	22.35	1-27/64	36.00	1-1/2	38.10	31.24	26.41	36.83	49.02	31.75
ILF16-16N	1	25.40	1	22.35	1-11/16	42.86	1-1/2	38.10	31.24	26.41	41.40	50.29	38.10

Part No.	Tube O.D D	T (NPT)	E Min	h	H	A	B	/	L	L ₁
ILF6M-2N	6	1/8	4.8	12.70	14	15.3	17.7	19.6	27.0	19.00
ILF6M-4N	6	1/4	4.8	17.46	14	15.3	17.7	22.4	29.8	22.40
ILF6M-6N	6	3/8	4.8	20.64	14	15.3	17.7	24.4	31.7	22.40
ILF6M-8N	6	1/2	4.8	25.40	14	15.3	17.7	27.2	34.6	28.40
ILF8M-2N	8	1/8	6.4	15.87	16	16.2	18.6	23.1	29.9	19.00
ILF8M-4N	8	1/4	6.4	17.46	16	16.2	18.6	23.1	30.6	22.40
ILF8M-8N	8	1/2	6.4	25.40	16	16.2	18.6	28.0	35.2	28.40
ILF10M-2N	10	1/8	7.9	17.46	19	17.2	19.5	23.9	31.5	19.00
ILF10M-4N	10	1/4	7.9	17.46	19	17.2	19.5	25.9	33.5	22.35
ILF10M-6N	10	3/8	7.9	20.64	19	17.2	19.5	25.9	33.5	22.40
ILF10M-8N	10	1/2	7.9	25.40	19	17.2	19.5	28.7	36.1	28.40
ILF12M-4N	12	1/4	9.5	20.64	22	22.8	22.0	25.9	36.0	22.40
ILF12M-6N	12	3/8	9.5	20.64	22	22.8	22.0	25.9	36.2	22.35
ILF12M-8N	12	1/2	9.5	25.40	22	22.8	22.0	28.7	38.8	28.40
ILF16M-8N	16	1/2	12.7	26.98	25	24.4	22.0	29.7	39.5	28.40

A-B-L dimensions are given approximate. Figures after finger-tight.

All dimensions are in millimeters unless otherwise specified. Dimensions are for reference only, subject to change.

I-Lok Tube Fittings

 IR
Reducer


Part No.	Tube O.D		D ₁	E	h	H	A	B	/	L			
	in	mm									in	mm	in
IR1-2	1/16	1.59	1/8	3.17	1.27	5/16	7.93	5/16	7.93	8.63	10.92	25.40	29.21
IR1-4	1/16	1.59	1/4	6.35	1.27	5/16	7.93	5/16	7.93	8.63	10.92	27.68	31.49
IR2-1	1/8	3.17	1/16	1.59	1.76	7/16	11.11	7/16	11.11	12.70	15.24	22.35	28.95
IR2-2	1/8	3.17	1/8	3.17	2.03	7/16	11.11	7/16	11.11	12.70	15.24	26.92	33.52
IR2-3	1/8	3.17	3/16	4.76	2.28	7/16	11.11	7/16	11.11	12.70	15.24	27.68	34.29
IR2-4	1/8	3.17	1/4	6.35	2.28	7/16	11.11	7/16	11.11	12.70	15.24	29.46	36.06
IR2-6	1/8	3.17	3/8	9.52	2.28	7/16	11.11	7/16	11.11	12.70	15.24	30.98	37.59
IR2-8	1/8	3.17	1/2	12.70	2.28	9/16	14.28	7/16	11.11	12.70	15.24	37.59	44.19
IR3-2	3/16	4.76	1/8	3.17	2.03	7/16	11.11	1/2	12.70	13.71	16.00	28.19	34.79
IR3-4	3/16	4.76	1/4	6.35	3.04	7/16	11.11	1/2	12.70	13.71	16.00	30.48	37.08
IR4-2	1/4	6.35	1/8	3.17	2.03	1/2	12.70	9/16	14.28	15.24	17.78	29.46	36.83
IR4-3	1/4	6.35	3/16	4.76	3.04	1/2	12.70	9/16	14.28	15.24	17.78	30.22	37.59
IR4-4	1/4	6.35	1/4	6.35	4.82	1/2	12.70	9/16	14.28	15.24	17.78	31.75	39.11
IR4-5	1/4	6.35	5/16	7.93	4.82	1/2	12.70	9/16	14.28	15.24	17.78	32.51	39.87
IR4-6	1/4	6.35	3/8	9.52	4.82	1/2	12.70	9/16	14.28	15.24	17.78	33.27	40.64
IR4-8	1/4	6.35	1/2	12.70	4.82	9/16	14.28	9/16	14.28	15.24	17.78	38.86	46.22
IR4-10	1/4	6.35	5/8	15.87	4.82	11/16	17.46	9/16	14.28	15.24	17.78	40.64	48.00
IR4-12	1/4	6.35	3/4	19.05	4.82	13/16	20.64	9/16	14.28	15.24	17.78	40.38	47.75
IR5-6	5/16	7.93	3/8	9.52	6.35	9/16	14.28	5/8	15.87	16.25	18.54	34.54	41.91
IR5-8	5/16	7.93	1/2	12.70	6.35	9/16	14.28	5/8	15.87	16.25	18.54	40.13	47.49
IR6-4	3/8	9.52	1/4	6.35	4.82	5/8	15.87	11/16	17.46	16.76	19.30	34.03	41.40
IR6-6	3/8	9.52	3/8	9.52	7.11	5/8	15.87	11/16	17.46	16.76	19.30	35.81	43.18
IR6-8	3/8	9.52	1/2	12.70	7.11	5/8	15.87	11/16	17.46	16.76	19.30	41.14	48.51
IR6-10	3/8	9.52	5/8	15.87	7.11	11/16	17.46	11/16	17.46	16.76	19.30	42.92	50.29
IR6-12	3/8	9.52	3/4	19.05	7.11	13/16	20.64	11/16	17.46	16.76	19.30	42.92	50.29
IR8-4	1/2	12.70	1/4	6.35	4.82	13/16	20.64	7/8	22.22	22.86	21.84	34.79	44.95
IR8-6	1/2	12.70	3/8	9.52	7.11	13/16	20.64	7/8	22.22	22.86	21.84	36.57	46.73
IR8-8	1/2	12.70	1/2	12.70	9.90	13/16	20.64	7/8	22.22	22.86	21.84	42.16	52.32
IR8-10	1/2	12.70	5/8	15.87	10.41	13/16	20.64	7/8	22.22	22.86	21.84	43.68	53.84
IR8-12	1/2	12.70	3/4	19.05	10.41	13/16	20.64	7/8	22.22	22.86	21.84	43.68	53.84
IR8-16	1/2	12.70	1	25.40	10.41	1-1/16	26.98	7/8	22.22	22.86	21.84	50.03	60.19
IR10-12	5/8	15.87	3/4	19.05	12.70	15/16	23.81	1	25.40	24.38	21.84	44.45	54.61
IR10-14	5/8	15.87	7/8	22.22	12.70	15/16	23.81	1	25.40	24.38	21.84	45.97	56.13
IR10-16	5/8	15.87	1	25.40	12.70	1-1/16	26.98	1	25.40	24.38	21.84	50.80	60.96
IR12-8	5/8	15.87	1/2	12.70	9.90	1-1/16	26.98	1-1/8	28.57	24.38	21.84	44.45	54.61
IR12-16	5/8	15.87	1	25.40	15.74	1-1/16	26.98	1-1/8	28.57	24.38	21.84	52.32	62.48
IR16-20	1	25.40	1-1/4	31.75	22.35	1-3/8	34.98	1-1/2	38.10	31.24	26.41	68.32	80.51
IR16-24	1	25.40	1-1/2	38.10	22.35	1-5/8	41.28	1-1/2	38.10	31.24	26.41	76.96	89.15
IR16-32	1	25.40	2	50.80	22.35	2-1/8	53.98	1-1/2	38.10	31.24	26.41	100.33	112.52
IR20-24	1-1/4	31.75	1-1/2	38.10	27.68	1-7/8	47.63	2-1/4	57.15	41.14	38.86	82.04	104.14
IR20-32	1-1/4	31.75	2	50.80	27.68	1-7/8	47.63	3	76.20	41.14	38.86	103.12	125.22
IR24-32	1-1/2	38.10	2	50.80	34.03	2-1/4	57.15	3	76.20	50.03	54.21	104.14	131.31

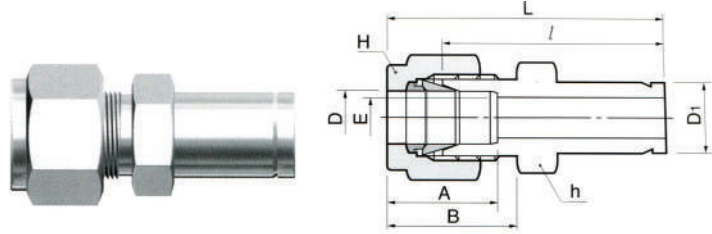
A-B-L dimensions are given approximate. Figures after finger-tight.

All dimensions are in millimeters unless otherwise specified. Dimensions are for reference only, subject to change.

I-Lok Tube Fittings

IR

Reducer



Part No.	Tube O.D		D ₁	E Min	h	H	A	B	/	L
	D	in								
IR2M-2	2	1/8	3.17	1.7	12	12	12.9	15.3	26.9	33.5
IR3M-2	3	1/8	3.17	2.0	12	12	12.9	15.3	26.9	33.5
IR3M-4	3	1/4	6.35	2.4	12	12	12.9	15.3	29.5	36.1
IR4M-4	4	1/4	6.35	2.4	12	12	13.7	16.1	30.5	37.1
IR6M-2	6	1/8	3.18	2.0	14	14	15.3	17.7	29.5	36.9
IR6M-4	6	1/4	6.35	4.8	14	14	15.3	17.7	31.8	39.2
IR6M-5	6	5/16	7.93	4.8	14	14	15.3	17.7	32.5	39.9
IR6M-6	6	3/8	9.52	4.8	14	14	15.3	17.7	33.3	40.7
IR6M-8	6	1/2	12.70	4.8	14	14	15.3	17.7	38.9	46.3
IR8M-6	8	3/8	9.52	6.4	15	16	16.2	18.6	34.5	42.0
IR8M-8	8	1/2	12.70	6.4	15	16	16.2	18.6	40.1	47.6
IR10M-6	10	3/8	9.52	7.1	18	19	17.2	19.5	36.6	44.2
IR10M-8	10	1/2	12.70	7.9	18	19	17.2	19.5	42.2	49.8
IR12M-8	12	1/2	12.70	9.5	22	22	22.8	22.0	42.2	52.3
IR12M-12	12	3/4	19.05	9.5	22	22	22.8	22.0	43.7	53.8
IR18M-12	18	3/4	19.05	15.1	27	30	24.4	22.0	46.0	56.1
IR18M-16	18	1	25.40	15.1	27	30	24.4	22.0	52.3	62.4
IR25M-16	25	1	25.40	20.2	35	38	31.3	26.5	57.2	69.5

Part No.	Tube O.D		E Min	h	H	A	B	/	L
	D	D ₁							
IR2M-3M	2	3	1.7	12	12	12.9	15.3	26.9	35.3
IR3M-4M	3	4	2.4	12	12	12.9	15.3	28.4	35.0
IR3M-6M	3	6	2.4	12	12	12.9	15.3	29.5	36.1
IR3M-10M	3	10	2.4	12	12	12.9	15.3	31.8	38.4
IR4M-6M	4	6	2.4	12	12	13.7	16.1	30.5	37.1
IR6M-3M	6	3	1.8	14	14	15.3	17.7	29.5	36.9
IR6M-8M	6	8	4.8	14	14	15.3	17.7	32.5	39.9
IR6M-10M	6	10	4.8	14	14	15.3	17.7	33.3	40.7
IR6M-12M	6	12	4.8	14	14	15.3	17.7	38.9	46.3
IR8M-6M	8	6	4.8	15	16	16.2	18.6	32.8	40.3
IR8M-10M	8	10	6.4	15	16	16.2	18.6	34.5	42.0
IR8M-12M	8	12	6.4	15	16	16.2	18.6	40.1	47.6
IR10M-6M	10	6	4.6	18	19	17.2	19.5	34.8	42.4
IR10M-12M	10	12	7.9	18	19	17.2	19.5	42.2	49.8
IR10M-15M	10	15	7.9	18	19	17.2	19.5	43.7	51.3
IR10M-18M	10	18	7.9	19	19	17.2	19.5	43.7	51.3
IR12M-6M	12	6	4.6	22	22	22.8	22.0	34.8	44.9
IR12M-10M	12	10	7.7	22	22	22.8	22.0	36.6	46.7
IR12M-16M	12	16	9.5	22	22	22.8	22.0	43.7	53.8
IR12M-18M	12	18	9.5	22	22	22.8	22.0	43.7	53.8
IR12M-20M	12	20	9.5	22	22	22.8	22.0	46.0	56.1
IR12M-22M	12	22	9.5	24	22	22.8	22.0	46.0	56.1
IR12M-25M	12	25	9.5	27	22	22.8	22.0	52.3	62.4
IR16M-12M	16	12	9.1	27	25	24.4	22.0	42.9	53.0
IR18M-12M	18	12	9.1	27	30	24.4	22.0	44.5	54.6
IR18M-16M	18	16	12.7	27	30	24.4	22.0	46.0	56.1
IR18M-20M	18	20	15.1	27	30	24.4	22.0	47.5	57.6
IR18M-22M	18	22	15.1	30	30	24.4	22.0	47.5	57.6
IR18M-25M	18	25	15.1	30	30	24.4	22.0	52.3	62.4
IR20M-16M	20	16	12.7	30	32	26.0	22.0	47.8	57.9
IR20M-18M	20	18	13.9	30	32	26.0	22.0	47.8	57.9
IR20M-22M	20	22	15.8	30	32	26.0	22.0	49.3	59.4
IR20M-25M	20	25	15.8	30	32	26.0	22.0	54.1	64.2
IR22M-18M	22	18	13.9	30	32	26.0	22.0	47.8	57.9
IR22M-20M	22	20	15.1	30	32	26.0	22.0	49.3	59.4
IR22M-25M	22	25	18.3	30	32	26.0	22.0	54.1	64.2
IR25M-18M	25	18	13.9	35	38	31.3	26.5	50.8	63.1
IR25M-20M	25	20	15.1	35	38	31.3	26.5	52.3	64.6

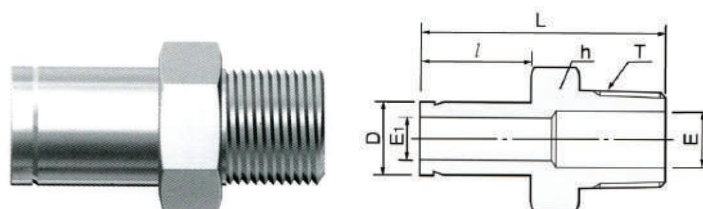
A-B-L dimensions are given approximate. Figures after finger-tight.

All dimensions are in millimeters unless otherwise specified. Dimensions are for reference only, subject to change.

I-Lok Tube Fittings

IAM

Male Adaptor



Part No.	Tube O.D D	T R(PT)	E Min	E1 Min	h	l	L
IAM3M-2R	3	1/8	4.0	1.8	12	13.15	29.4
IAM6M-2R	6	1/8	4.6	4.6	12	15.75	32.8
IAM6M-4R	6	1/4	4.6	4.6	14	15.75	38.1
IAM8M-4R	8	1/4	6.3	6.3	14	16.50	39.1
IAM10M-4R	10	1/4	7.7	7.7	14	17.50	39.9
IAM10M-6R	10	3/8	7.7	7.7	17	17.50	40.6
IAM10M-8R	10	1/2	11.9	7.7	22	17.50	45.2
IAM12M-4R	12	1/4	7.1	9.1	14	23.50	46.5
IAM12M-6R	12	3/8	9.1	9.1	17	23.50	46.5
IAM12M-8R	12	1/2	11.9	9.1	22	23.50	51.8
IAM18M-8R	18	1/2	11.9	13.9	22	24.90	53.2
IAM18M-12R	18	3/4	15.9	13.9	27	24.90	53.2
IAM28M-16R	28	1	22.2	-	35	31.70	74.7
IAM28M-20R	28	1-1/4	23.8	-	46	31.70	76.2
IAM32M-20R	32	1-1/4	27.4	-	46	40.00	81.0
IAM38M-24R	38	1-1/2	33.3	-	55	51.50	92.2

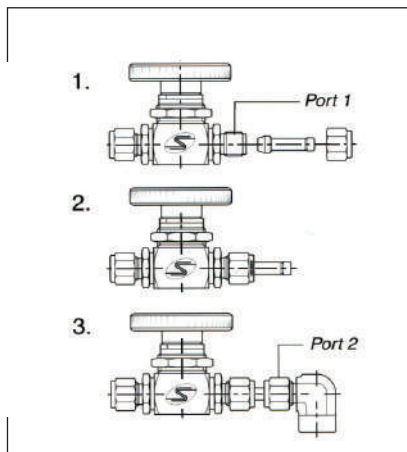
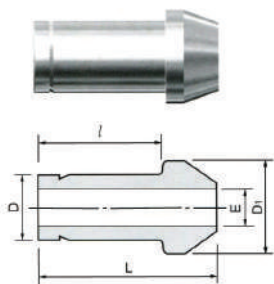
Part No.	Tube O.D D		T (NPT)	E Min	E1	h		l	L
	in	mm				in	mm		
IAM2-2N	1/8	3.17	1/8	4.57	1.77	7/16	11.11	13.45	29.50
IAM2-4N	1/8	3.17	1/4	7.11	1.77	9/16	14.28	13.45	34.80
IAM3-2N	3/16	4.76	1/8	4.57	3.04	7/16	11.11	14.20	30.22
IAM3-4N	3/16	4.76	1/4	7.11	3.04	9/16	14.28	14.20	35.56
IAM4-2N	1/4	6.35	1/8	4.57	4.57	7/16	11.11	15.75	31.80
IAM4-4N	1/4	6.35	1/4	7.11	4.57	9/16	14.28	15.75	37.08
IAM4-6N	1/4	6.35	3/8	10.41	4.57	11/16	17.46	15.75	37.84
IAM4-8N	1/4	6.35	1/2	12.70	4.57	7/8	22.22	15.75	43.43
IAM5-2N	5/16	7.93	1/8	4.57	6.35	7/16	11.11	16.80	32.76
IAM5-4N	5/16	7.93	1/4	7.11	6.35	9/16	14.28	16.80	38.10
IAM6-2N	3/8	9.52	1/8	4.57	7.11	7/16	11.11	17.50	33.50
IAM6-4N	3/8	9.52	1/4	7.11	7.11	9/16	14.28	17.50	38.90
IAM6-6N	3/8	9.52	3/8	10.41	7.11	11/16	17.46	17.50	39.60
IAM6-8N	3/8	9.52	1/2	12.70	7.11	7/8	22.22	17.50	45.20
IAM8-4N	1/2	12.70	1/4	7.11	9.90	9/16	14.28	23.20	44.50
IAM8-6N	1/2	12.70	3/8	10.41	9.90	11/16	17.46	23.20	45.20
IAM8-8N	1/2	12.70	1/2	12.70	9.90	7/8	22.22	23.20	50.50
IAM10-6N	5/8	15.87	3/8	10.41	12.70	11/16	17.46	24.70	47.40
IAM10-8N	5/8	15.87	1/2	12.70	12.70	7/8	22.22	24.70	52.30
IAM10-12N	5/8	15.87	3/4	18.28	12.70	1-1/16	26.98	24.70	52.30
IAM12-8N	3/4	19.05	1/2	12.70	14.98	7/8	22.22	24.70	52.30
IAM12-12N	3/4	19.05	3/4	18.28	14.98	1-1/16	26.98	24.70	52.30
IAM12-16N	3/4	19.05	1	22.35	14.98	1-3/8	34.92	24.70	57.91
IAM14-12N	7/8	22.22	3/4	18.28	17.27	1-1/16	26.98	26.70	54.30
IAM16-12N	1	25.40	3/4	18.28	20.06	1-1/16	26.98	31.70	58.70
IAM16-16N	1	25.40	1	22.35	20.06	1-3/8	34.92	31.70	66.00
IAM20-20N	1-1/4	31.75	1-1/4	27.68	-	1-3/4	44.45	40.00	80.26
IAM24-24N	1-1/2	38.10	1-1/2	33.27	-	2-1/8	53.98	51.50	94.48
IAM32-32N	2	50.80	2	44.45	-	2-3/4	69.85	68.40	119.38

All dimensions are in millimeters unless otherwise specified.
Dimensions are for reference only, subject to change.

I-Lok Tube Fittings

IPC

Port Connector



Shinilace port connector facilitates close connection to another port.

Installation Instructions

1. Remove the nut and ferrules from shinilace port 1 and set nut only (no ferrules) over the port connector
2. Tighten the nut with wrench until sharp rise in torque is felt
3. Insert the other end of port connector into port 2 and tighten nut 1-1/4 turns with wrench.
for 1/8", 3mm only 3/4 turn from finger tight.

Connectors two fractional Shinilace-Lok ports

Part No.	Tube O.D. in D	mm	E Min	D ₁	l	L
IPC-1	1/16	1.59	1.00	3.30	10.66	13.72
IPC-2	1/8	3.17	1.77	6.09	15.75	22.35
IPC-4	1/4	6.35	4.57	9.39	18.79	24.64
IPC-5	5/16	7.93	6.35	10.92	20.06	25.90
IPC-6	3/8	9.52	7.11	12.70	20.32	26.16
IPC-8	1/2	12.70	9.90	15.74	25.90	35.81
IPC-12	3/4	19.05	14.98	22.09	27.68	37.33
IPC-16	1	25.40	20.06	28.44	34.54	48.00

Connectors two metric Shinilace-Lok ports

Part No.	Tube O.D. D	E Min	D ₁	l	L
IPC-3M	3	2.1	6.0	15.70	22.20
IPC-4M	4	2.2	7.0	16.67	25.81
IPC-6M	6	4.4	9.0	18.70	24.60
IPC-8M	8	6.2	11.0	20.00	25.90
IPC-10M	10	8.2	13.1	20.20	26.10
IPC-12M	12	9.1	15.0	26.00	35.80
IPC-15M	15	12.7	19.0	27.78	37.40
IPC-16M	16	12.7	19.0	27.60	37.40
IPC-18M	18	13.9	21.0	27.91	37.40
IPC-20M	20	15.1	23.0	29.20	38.90
IPC-22M	22	17.9	24.97	29.30	39.20
IPC-25M	25	19.8	28.0	34.50	48.00
IPC-28M	28	23.8	34.3	48.30	63.50
IPC-32M	32	27.4	39.5	52.40	69.70
IPC-38M	38	33.3	47.1	61.40	81.90

IPR

Reducing Port Connector

Connectors two fractional Shinilace-Lok ports

Part No.	Tube O.D. in D ₁	mm	in D	mm	E Min	D ₂	l	l ₁	L
IPR2-1	1/8	3.17	1/16	1.59	1.00	6.10	8.64	2.03	17.27
IPR4-2	1/4	6.35	1/8	3.17	2.28	9.39	13.45	3.30	22.60
IPR6-2	3/8	9.52	1/8	3.17	2.28	12.70	13.45	3.81	23.11
IPR6-4	3/8	9.52	1/4	6.35	4.82	12.70	15.75	3.30	24.89
IPR8-4	1/2	12.70	1/4	6.35	4.82	15.74	15.75	3.81	29.21
IPR8-6	1/2	12.70	3/8	9.52	7.11	15.74	17.67	3.30	30.48
IPR12-8	3/4	19.05	1/2	12.70	9.90	22.09	23.20	3.81	37.85
IPR16-8	1	25.40	1/2	12.70	9.90	28.40	24.47	4.82	42.67
IPR16-12	1	25.40	3/4	19.05	14.98	28.40	25.90	4.06	43.43

Connectors two metric Shinilace-Lok ports

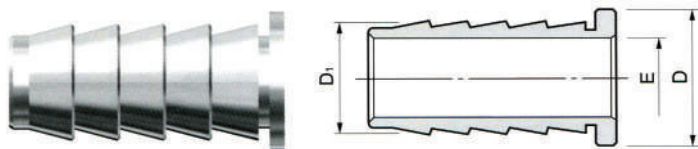
Part No.	Tube O.D. D ₁	D	E Min	D ₂	l	l ₁	L
IPR6M-3M	6	3	2.2	9.0	13.50	3.2	22.60
IPR8M-6M	8	6	4.6	11.0	15.70	3.1	24.70
IPR10M-6M	10	6	4.6	13.1	15.70	3.4	25.00
IPR10M-8M	10	8	6.4	13.1	16.80	3.1	26.00
IPR12M-6M	12	6	4.6	15.0	15.70	3.6	29.10
IPR12M-8M	12	8	6.4	15.0	16.80	3.4	29.80
IPR12M-10M	12	10	7.7	15.0	17.50	3.1	30.40
IPR16M-6M	16	6	4.6	19.0	15.75	3.6	30.40
IPR16M-12M	16	12	9.1	19.0	23.10	3.4	36.20
IPR28M-25M	28	25	19.8	34.3	33.00	8.2	56.50
IPR32M-25M	32	25	19.8	39.5	33.00	9.9	60.30
IPR38M-25M	38	25	19.8	47.1	33.00	12.3	65.80

All dimensions are in millimeters unless otherwise specified.
Dimensions are for reference only, subject to change.

I-Lok Tube Fittings



Tube Insert



for Nylon or Soft Plastic Tubing



Installation Instructions

The Shinilace Tube Insert supports the soft plastic tubing, thus the tubing does not collapse when the ferrules deform it.

When you select a size of Tube Insert, check if the tubing O.D and I.D conform to those of the tube insert.

fractional

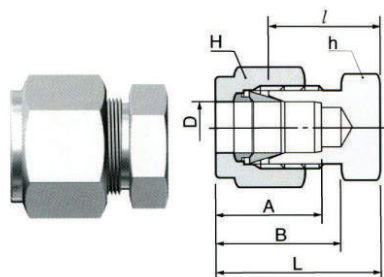
Part No.	in	D ₁ mm	Tube O.D in	D mm	E
II 3-2	3/16	4.76	1/8	3.17	2.28
II 4-2	1/4	6.35	1/8	3.17	2.28
II 4-3	1/4	6.35	3/16	4.76	3.55
II 5-2	5/16	7.93	1/8	3.17	2.28
II 5-3	5/16	7.93	3/16	4.76	3.04
II 5-4	5/16	7.93	1/4	6.35	4.82
II 6-3	3/8	9.52	3/16	4.76	3.04
II 6-4	3/8	9.52	1/4	6.35	4.82
II 8-4	1/2	12.7	1/4	6.35	4.82
II 8-6	1/2	12.7	3/8	9.52	7.87
II 10-6	5/8	15.87	3/8	9.52	7.87
II 10-8	5/8	15.87	1/2	12.70	11.17
II 12-8	3/4	19.05	1/2	12.70	11.17
II 12-10	3/4	19.05	5/8	15.87	14.22
II 16-12	1	25.4	3/4	19.05	17.52

metric

Part No.	Tube O.D D	D ₁	E
II 6M-4M	6	4	2.8
II 8M-6M	8	6	4.4
II 10M-8M	10	8	6.4
II 12M-8M	12	8	6.4
II 12M-10M	12	10	8.3



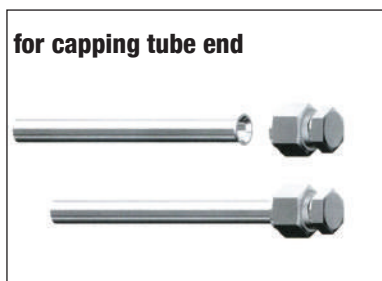
Cap



Installation Instructions

1. Insert the tube end into the cap
2. With a wrench, 1-1/4 turns from the fingertight position, (3/4 turn for 1/8", 3/16" 3mm and 4mm)

for capping tube end



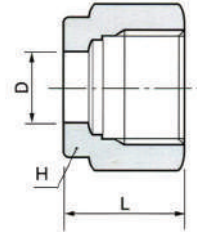
Cap end of fractional tube

Part No.	Tube O.D		h		H		A	B	I	L
	in	mm	in	mm	in	mm				
ICA-1	1/16	1.59	5/16	7.93	5/16	7.93	8.63	10.92	11.20	14.18
ICA-2	1/8	3.17	7/16	11.11	7/16	11.11	12.70	15.24	13.46	20.06
ICA-3	3/16	4.76	7/16	11.11	1/2	12.70	13.71	16.00	14.73	21.33
ICA-4	1/4	6.35	1/2	12.70	9/16	14.28	15.24	17.78	16.00	23.26
ICA-5	5/16	7.93	9/16	14.28	5/8	15.87	16.25	18.54	17.01	24.38
ICA-6	3/8	9.52	5/8	15.87	11/16	17.46	16.76	19.30	18.28	25.65
ICA-8	1/2	12.70	13/16	20.63	7/8	22.22	22.86	21.84	19.05	29.21
ICA-10	5/8	15.87	15/16	23.81	1	25.40	24.38	21.84	19.81	29.97
ICA-12	3/4	19.05	1-1/16	26.98	1-1/8	28.57	24.38	21.84	21.33	31.49
ICA-14	7/8	22.22	1-3/16	30.16	1-1/4	31.75	25.90	21.84	23.87	34.03
ICA-16	1	25.40	1-3/8	34.92	1-1/2	38.10	31.24	26.41	26.16	38.35
ICA-20	1-1/4	31.75	1-3/4	44.45	1-7/8	47.63	41.14	38.86	31.24	53.34
ICA-24	1-1/2	38.10	2-1/8	53.98	2-1/4	57.15	50.15	45.21	37.33	64.51
ICA-32	2	50.80	2-3/4	69.85	3	76.20	67.56	62.73	49.27	86.61

Cap end of metric tube

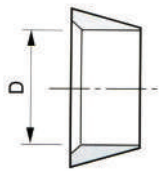
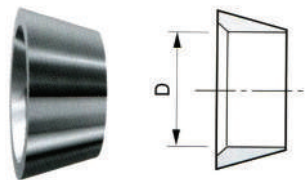
Part No.	Tube O.D D	h	H	A	B	I	L
ICA-2M	2	12	12	12.9	15.3	13.5	20.1
ICA-3M	3	12	12	12.9	15.3	13.5	20.1
ICA-4M	4	12	12	13.7	16.1	14.7	21.3
ICA-6M	6	14	14	15.3	17.7	15.7	23.1
ICA-8M	8	15	16	16.2	18.6	17.0	24.5
ICA-10M	10	18	19	17.2	19.5	19.0	26.6
ICA-12M	12	22	22	22.8	22.0	19.0	29.1
ICA-15M	15	24	25	24.4	22.0	19.8	29.9
ICA-16M	16	24	25	24.4	22.0	19.8	29.9
ICA-18M	18	27	30	24.4	22.0	21.3	31.4
ICA-20M	20	30	32	26.0	22.0	23.9	34.0
ICA-22M	22	30	32	26.0	22.0	23.9	34.0
ICA-25M	25	35	38	31.3	26.5	26.2	38.5
ICA-28M	28	41	46	36.6	36.6	27.7	48.5
ICA-32M	32	46	50	42.0	41.6	32.8	55.8
ICA-38M	38	55	60	49.4	47.9	37.8	65.4

I-Lok Tube Fittings

IN
Nut

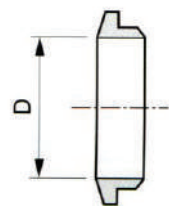
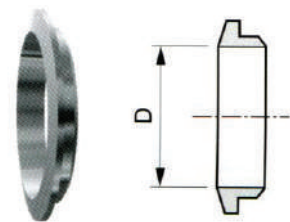
Part No.	Tube O.D		H	L
	in	mm	in	mm
IN-1	1/16	1.59	5/16	7.93
IN-2	1/8	3.17	7/16	11.11
IN-3	3/16	4.76	1/2	12.70
IN-4	1/4	6.35	9/16	14.28
IN-5	5/16	7.93	5/8	15.87
IN-6	3/8	9.52	11/16	17.46
IN-8	1/2	12.70	7/8	22.22
IN-10	5/8	15.87	1	25.40
IN-12	3/4	19.05	1-1/8	28.57
IN-14	7/8	22.22	1-1/4	31.75
IN-16	1	25.40	1-1/2	38.10
IN-20	1-1/4	31.75	1-7/8	47.63
IN-24	1-1/2	38.10	2-1/4	57.15
IN-32	2	50.80	3	76.20

Part No.	Tube O.D D	H	L
IN-2M	2	12	11.90
IN-3M	3	12	11.90
IN-4M	4	12	11.90
IN-6M	6	14	12.70
IN-8M	8	16	13.50
IN-10M	10	19	15.10
IN-12M	12	22	17.40
IN-15M	15	25	17.40
IN-16M	16	25	17.40
IN-18M	18	30	17.40
IN-20M	20	32	17.40
IN-22M	22	32	17.40
IN-25M	25	38	20.60
IN-28M	28	46	30.60
IN-32M	32	50	34.40
IN-38M	38	60	40.60

IFF
Front Ferrule

Part No.	Tube O.D D	mm
IFF-1	1/16	1.59
IFF-2	1/8	3.17
IFF-3	3/16	4.76
IFF-4	1/4	6.35
IFF-5	5/16	7.93
IFF-6	3/8	9.52
IFF-8	1/2	12.70
IFF-10	5/8	15.87
IFF-12	3/4	19.05
IFF-14	7/8	22.22
IFF-16	1	25.40
IFF-20	1-1/4	31.75
IFF-24	1-1/2	38.10
IFF-32	2	50.80

Part No.	Tube O.D D
IFF-2M	2
IFF-3M	3
IFF-4M	4
IFF-6M	6
IFF-8M	8
IFF-10M	10
IFF-12M	12
IFF-15M	15
IFF-16M	16
IFF-18M	18
IFF-20M	20
IFF-22M	22
IFF-25M	25
IFF-28M	28
IFF-32M	32
IFF-38M	38

IFB
Back Ferrule

Part No.	Tube O.D D	mm
IFB-1	1/16	1.59
IFB-2	1/8	3.17
IFB-3	3/16	4.76
IFB-4	1/4	6.35
IFB-5	5/16	7.93
IFB-6	3/8	9.52
IFB-8	1/2	12.70
IFB-10	5/8	15.87
IFB-12	3/4	19.05
IFB-14	7/8	22.22
IFB-16	1	25.40
IFB-20	1-1/4	31.75
IFB-24	1-1/2	38.10
IFB-32	2	50.80

Part No.	Tube O.D D
IFB-2M	2
IFB-3M	3
IFB-4M	4
IFB-6M	6
IFB-8M	8
IFB-10M	10
IFB-12M	12
IFB-15M	15
IFB-16M	16
IFB-18M	18
IFB-20M	20
IFB-22M	22
IFB-25M	25
IFB-28M	28
IFB-32M	32
IFB-38M	38