







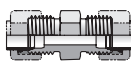
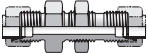
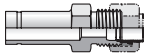
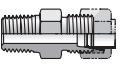
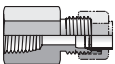

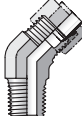

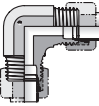
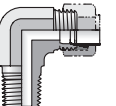
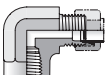

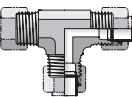
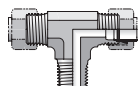
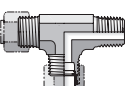
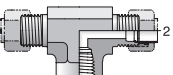
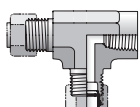

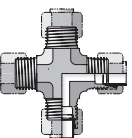



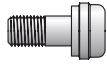




# ***Intru-Lok® Flareless Bite Type Fittings***



***The Fitting Authority***

<p><b>Nuts, Ferrules, Inserts</b></p> 	<p><b>BIP</b> Knurled Nut</p>  <p>E6</p>	<p><b>BI2</b> Nut</p>  <p>E6</p>	<p><b>BTI2</b> Nut and Ferrule</p>  <p>E6</p>	<p><b>TI2</b> Ferrule</p>  <p>E6</p>	<p><b>TIP</b> Expander / Insert</p>  <p>E6</p>
<p><b>T23UI</b> Insert</p>  <p>E6</p>	<p><b>Straights</b></p> 	<p><b>HB12</b> Union</p>  <p>E7</p>	<p><b>WB12</b> Bulkhead Union</p>  <p>E7</p>	<p><b>TRB12</b> Tube End Reducer</p>  <p>E7</p>	<p><b>FB12</b> NPTF / Intru-Lok</p>  <p>E7</p>
<p><b>GB12</b> NPTF / Intru-Lok</p>  <p>E7</p>	<p><b>45° Elbow</b></p> 	<p><b>VB12</b> NPTF / Intru-Lok</p>  <p>E7</p>	<p><b>90° Elbows</b></p> 	<p><b>EB12</b> Union Elbow</p>  <p>E8</p>	<p><b>CB12</b> NPTF / Intru-Lok</p>  <p>E8</p>
<p><b>DB12</b> NPTF / Intru-Lok</p>  <p>E8</p>	<p><b>Tees</b></p> 	<p><b>JB12</b> Union Tee</p>  <p>E8</p>	<p><b>SB12</b> NPTF Branch Tee</p>  <p>E8</p>	<p><b>RB12</b> NPTF Run Tee</p>  <p>E8</p>	<p><b>OB12</b> NPTF Branch Tee</p>  <p>E9</p>
<p><b>MB12</b> NPTF Run Tee</p>  <p>E9</p>	<p><b>Cross</b></p> 	<p><b>KB12</b> Union Cross</p>  <p>E9</p>	<p><b>Plugs and Caps</b></p> 	<p><b>PNI</b> Plug</p>  <p>E9</p>	<p><b>FNI</b> Cap</p>  <p>E9</p>
<p><b>T22X</b> Mountie</p>  <p>C37</p>					

## Introduction

The Intru-Lok bite type fitting was developed by Parker Hannifin and introduced to the U.S. market in the late 1950's. This fitting addresses those applications that require a bite by the ferrule in brass, copper, aluminum and plastic tubing systems. The Intru-Lok fitting is a flareless fitting that consists of a body, a one-piece precision-machined ferrule, and a nut. On assembly, the ferrule "bites" into the outer surface of the tube with sufficient strength to hold the tube against pressure. The ferrule also forms a pressure seal against the fitting body.

Intru-Lok fittings allow the fitting assembler to visually inspect the bite quality, thus significantly minimizing the risk of improper assembly and related service problems.

Intru-Lok fittings are routinely used in markets, such as: Machine tools, chemical, oil refineries, paper making, thermo-plastics processing, air and lube lines, pilot lines, panel boards, etc.

## Design and Construction

The three components of Intru-Lok fittings are designed and manufactured to produce a reliable, leak free joint upon assembly.

**The Intru-Lok Body** – Intru-Lok fittings' bodies are available in over fifteen configurations. The shaped products (i.e., elbows, tees, and crosses) are hot forged, then machined to the stringent Intru-Lok fitting specifications. Straight products are made from cold drawn bar stock. The cold drawing operation ensures consistently tight dimensional tolerances, as well as significantly improved strength.

**The Intru-Lok Ferrule** – Intru-Lok fitting ferrules are precision machined with all dimensions and surfaces, particularly the critical bite edge, monitored on an ongoing basis.

**The Intru-Lok Nuts** – Intru-Lok fitting nuts are machined from cold drawn bar stock. The cold drawing operation provides a more tightly packed grain structure, thus improving the material's strength. In addition, cold forming significantly improves the fatigue properties or endurance limits of the nuts.

## How Intru-Lok Fittings Work

In assembly, the ferrule is driven forward on the tube by the nut during pre-set. As the ferrule moves forward it contacts the tapered seat area of the body, which causes the ferrule to cam inward into the tube. The leading edge of the ferrule is thus able to make a clean 360 degree cut into the outside diameter of the tubing. This cut in the tubing is often referred to as a "Bite"; thus the term: **Bite Type Fitting**. As the ferrule makes its bite, a small ridge of tube material is raised up in front of the ferrule.

## Assembly and Installation

Please refer to [Section T](#) for the assembly and installation instructions for Intru-Lok fittings.

## Pressure Rating

The contact of the tube ridge with the ferrule's front face and bite edge gives the fitting its ability to retain pressure without leaking or blowing off. When properly assembled to the recommended tubing, Intru-Lok fittings will consistently seal up to 1500 psi working pressure in all sizes.



Fig. E1 – Intru-Lok Components: Body, Ferrule and Nut

Intru-Lok Fittings	Brass	
	ASTM	Type
Forged Bodies	B124	CA377
Bar Stock Bodies	B16	CA360
	B453	CA345
Bar Stock Tube Nuts	B16	CA360
Tube Ferrules	B16	CA360

Table E1 – Standard Material Specifications for Intru-Lok Fittings



Fig. E2 – Assembled Intru-Lok Fitting

Dimensions and pressures for reference only, subject to change.

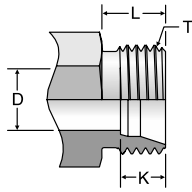
## Intru-Lok Features

Feature	Advantage	Benefit
1500 PSI pressure rating	Relatively high pressure rating	Versatility and reliability
Brass construction	Media compatability	Easily used for instrumentation, pilot, pneumatic, water, and lube lines
Tube Material compatability	For use with copper, aluminum, and many thermoplastic tube materials	Versatility, especially with instrumentation applications
Bite type design	Bite-type design assures safe leak-free, and vibration resistant connection compared to compression fittings	Reliability and greater holding power
Visible bite shows proper assembly	Risk associated with tube blowout is virtually eliminated	Reliability
Forged bodies	High impact strength and fatigue resistance	Long service life
Ferrule and nut do not have to be removed for assembly	Easy make up procedure	Quick and repeatable installation procedures
Low assembly torque	Easy installation	Quick installation
Captive Ferrules	Cannot reverse ferrule orientation	Error proof assembly
Additional clearance on backhole of tube nuts	Allows for tube nut to slide around bent tube	Tighter and neater tube bends and installation
Temperature Rating	-65°F to + 400°F temperature rating	Versatility
Knurled nut (optional for use with plastic tube)	Quick installation in areas where wrench clearances are not available (tighten by hand)	Quick assembly and disassembly. No tools required

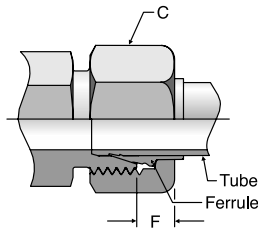
Table E2 — Features, Advantages and Benefits of Using Intru-Lok Fittings

Dimensions and pressures for reference only, subject to change.

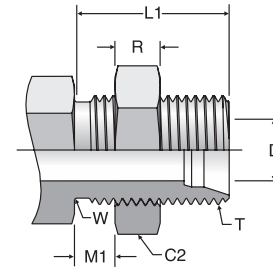
# IntruLok Flareless Tube Ends



**IntruLok Male Stud Tube End**



**IntruLok Tube End Assembly**



**IntruLok Straight Bulkhead**

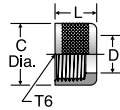
SAE Dash Size	Tube O.D. (in.)	T UN/UNF	C (in.)	C2 (in.)	D (in)	Allowance		Male Turn Back (in)	Bulkhead			Max Bulkhead Thickness (in)
						F (in)	K (in)		Length (in)	Locknut Thickness (in)	Pilot Dia (in)	
									L1 (in)	R (in)	W <sup>1)</sup> (in)	M1 (in)
2	1/8	5/16-24	3/8	9/16	0.093	0.13	0.19	0.28	NA	NA	NA	NA
3	3/16	3/8-24	7/16	5/8	0.125	0.15	0.24	0.25	NA	NA	NA	NA
4	1/4	7/16-20	1/2	11/16	0.203	0.16	0.24	0.30	0.88	0.28	0.44	0.28
5	5/16	1/2-20	9/16	3/4	0.234	0.18	0.26	0.33	NA	NA	NA	NA
6	3/8	9/16-18	5/8	13/16	0.282	0.19	0.26	0.36	0.94	0.27	0.56	0.31
8	1/2	3/4-16	7/8	1	0.422	0.23	0.31	0.44	1.06	0.31	0.75	0.31

1) Recommended clearance hole +0.015 over W dia

Dimensions and pressures for reference only, subject to change.

### BIP\*

Knurled Nut  
Intru-Lok

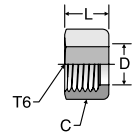


TUBE FITTING PART #	END SIZE (in.)	T6 TUBE END UN/UNF-2B	D2 DIA. (in.)	D (in.)	L (in.)	STANDARD MATERIAL FROM STOCK -B
4 BIP	1/4	7/16-20	0.5	0.26	0.39	•
6 BIP	3/8	9/16-18	0.63	0.38	0.42	•

\* For use with thermoplastic tube and TIP expander / insert.

### BI2

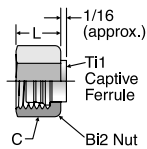
Nut  
Intru-Lok



TUBE FITTING PART #	END SIZE (in.)	T6 TUBE END UN/UNF-2B	C HEX (in.)	D (in.)	L (in.)	STANDARD MATERIAL FROM STOCK -B
2 BI2	1/8	5/16-24	3/8	0.17	0.36	•
3 BI2	3/16	3/8-24	7/16	0.23	0.34	•
4 BI2	1/4	7/16-20	1/2	0.3	0.44	•
5 BI2	5/16	1/2-20	9/16	0.36	0.45	•
6 BI2	3/8	9/16-18	5/8	0.42	0.45	•
8 BI2	1/2	3/4-16	7/8	0.56	0.58	•

### BTI2

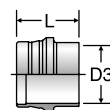
Nut and Ferrule  
Intru-Lok



TUBE FITTING PART #	END SIZE (in.)	C HEX (in.)	L (in.)	STANDARD MATERIAL FROM STOCK -B
2 BTI2	1/8	3/8	0.36	•
3 BTI2	3/16	7/16	0.34	•
4 BTI2	1/4	1/2	0.44	•
5 BTI2	5/16	9/16	0.45	•
6 BTI2	3/8	5/8	0.45	•
8 BTI2	1/2	7/8	0.58	•

### TI2

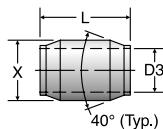
Ferrule  
Intru-Lok



TUBE FITTING PART #	TUBE O.D. (in.)	D3 (in.)	L (in.)	STANDARD MATERIAL FROM STOCK -B
2 TI2	1/8	0.13	0.35	•
3 TI2	3/16	0.19	0.39	•
4 TI2	1/4	0.26	0.4	•
5 TI2	5/16	0.32	0.42	•
6 TI2	3/8	0.38	0.41	•
8 TI2	1/2	0.51	0.52	•

### TIP\*

Expander / Insert

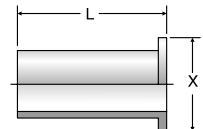


TUBE FITTING PART #	TUBE O.D. (in.)	D3 (in.)	L (in.)	X DIA (in.)	STANDARD MATERIAL FROM STOCK -B
4 TIP	1/4	0.14	0.45	0.22	•
6 TIP	3/8	0.22	0.45	0.3	•

\* For use with thermoplastic tube and BIP nut.

### T23UI

Insert

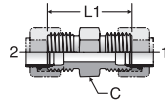


TUBE FITTING PART #	TUBE O.D. (in.)	TUBE WALL THICKNESS (in.)	L (in.)	X DIA (in.)	STANDARD MATERIAL FROM STOCK -B
4 T23UI	1/4	0.04	0.53	0.23	•
5 T23UI	5/16	0.062	0.56	0.29	•
6 T23UI	3/8	0.062	0.56	0.35	•
8 T23UI	1/2	0.062	0.64	0.47	•

Dimensions and pressures for reference only, subject to change.

### HBI2

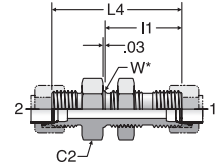
Union  
Intru-Lok / Intru-Lok



TUBE FITTING PART #	END SIZE		C HEX (in.)	L1 (in.)	STANDARD Dynamic Pressure (x 1,000 PSI) -B
	1 (in.)	2 (in.)			
2 HBI2	1/8	1/8	3/8	0.81	1.5
3 HBI2	3/16	3/16	3/8	0.75	1.5
4 HBI2	1/4	1/4	7/16	0.84	1.5
5 HBI2	5/16	5/16	1/2	0.91	1.5
6 HBI2	3/8	3/8	9/16	1.03	1.5
8 HBI2	1/2	1/2	3/4	1.19	1.5

### WBI2

Bulkhead Union  
Intru-Lok / Intru-Lok

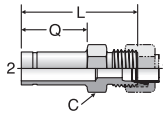


\* W – Pilot drill diameter

TUBE FITTING PART #	END SIZE		C2 HEX (in.)	I1 (in.)	L4 (in.)	W DIA (in.)	STANDARD Dynamic Pressure (x 1,000 PSI) -B
	1 (in.)	2 (in.)					
4 WBI2	1/4	1/4	9/16	0.88	1.34	0.44	1.5
6 WBI2	3/8	3/8	11/16	0.94	1.56	0.56	1.5
8 WBI2	1/2	1/2	7/8	1.06	1.75	0.75	1.5

### TRBI2

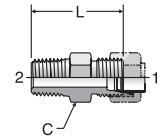
Tube End Reducer  
Intru-Lok



TUBE FITTING PART #	END SIZE		C HEX (in.)	L (in.)	Q (in.)	STANDARD Dynamic Pressure (x 1,000 PSI) -B
	1 (in.)	2 (in.)				
4-3 TRBI2	1/4	3/16	7/16	1	0.56	1.5
6-4 TRBI2	3/8	1/4	7/16	1.06	0.59	1.5
8-4 TRBI2	1/2	1/4	9/16	1.3	0.75	1.5

### FBI2

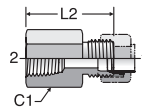
Male Connector  
Intru-Lok / NPTF



TUBE FITTING PART #	END SIZE		C HEX (in.)	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI) -B
	1 (in.)	2 NPTF			
2 FBI2	1/8	1/8-27	7/16	0.86	1.5
3 FBI2	3/16	1/8-27	7/16	0.81	1.5
4 FBI2	1/4	1/8-27	7/16	0.88	1.5
4-4 FBI2	1/4	1/4-18	9/16	1.08	1.5
4-8 FBI2	1/4	1/2-14	7/8	1.31	1.5
5 FBI2	5/16	1/8-27	1/2	0.94	1.5
5-4 FBI2	5/16	1/4-18	9/16	1.14	1.5
6 FBI2	3/8	1/4-18	9/16	1.17	1.5
6-2 FBI2	3/8	1/8-27	9/16	0.97	1.5
6-6 FBI2	3/8	3/8-18	11/16	1.19	1.5
6-8 FBI2	3/8	1/2-14	7/8	1.42	1.5
8 FBI2	1/2	3/8-18	3/4	1.28	1.5
8-4 FBI2	1/2	1/4-18	3/4	1.27	1.5
8-8 FBI2	1/2	1/2-14	7/8	1.5	1.5

### GBI2

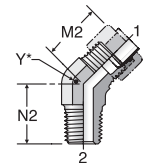
Female Connector  
Intru-Lok / NPTF



TUBE FITTING PART #	END SIZE		C1 HEX (in.)	L2 (in.)	STANDARD Dynamic Pressure (x 1,000 PSI) -B
	1 (in.)	2 NPTF			
2 GBI2	1/8	1/8-27	9/16	0.78	1.5
3 GBI2	3/16	1/8-27	9/16	0.75	1.5
4 GBI2	1/4	1/8-27	9/16	0.8	1.5
4-4 GBI2	1/4	1/4-18	3/4	0.97	1.5
6 GBI2	3/8	1/4-18	3/4	0.98	1.5
6-2 GBI2	3/8	1/8-27	9/16	0.86	1.5
6-6 GBI2	3/8	3/8-18	7/8	1.08	1.5
6-8 GBI2	3/8	1/2-14	1 1/8	1.23	1.5
8 GBI2	1/2	3/8-18	7/8	1.16	1.5
8-4 GBI2	1/2	1/4-18	13/16	1.16	1.5
8-8 GBI2	1/2	1/2-14	1 1/8	1.31	1.5

### VBI2

45° Male Elbow  
Intru-Lok / NPTF



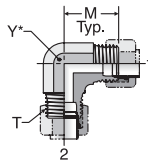
Y\* – Across wrench flats

TUBE FITTING PART #	END SIZE		M2 (in.)	N2 (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI) -B
	1 (in.)	2 NPTF				
4 VBI2	1/4	1/8-27	0.5	0.63	7/16	1.5
5 VBI2	5/16	1/8-27	0.59	0.63	9/16	1.5
6 VBI2	3/8	1/4-18	0.69	0.84	9/16	1.5

Dimensions and pressures for reference only, subject to change.

### EBI2

Union Elbow  
Intru-Lok / Intru-Lok

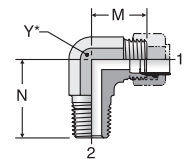


Y\* – Across wrench flats

TUBE FITTING PART #	END SIZE		M (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI) -B
	1 (in.)	2 (in.)			
4 EBI2	1/4	1/4	0.67	7/16	1.5
6 EBI2	3/8	3/8	0.72	9/16	1.5
8 EBI2	1/2	1/2	0.89	3/4	1.5

### CBI2

Male Elbow  
Intru-Lok / NPTF

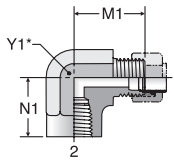


Y\* – Across wrench flats

TUBE FITTING PART #	END SIZE		M (in.)	N (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI) -B
	1 (in.)	2 NPTF				
2 CBI2	1/8	1/8-27	0.66	0.69	5/16	1.5
3 CBI2	3/16	1/8-27	0.56	0.67	3/8	1.5
4 CBI2	1/4	1/8-27	0.59	0.69	3/8	1.5
4-4 CBI2	1/4	1/4-18	0.72	0.91	9/16	1.5
5 CBI2	5/16	1/8-27	0.8	0.74	9/16	1.5
5-4 CBI2	5/16	1/4-18	0.78	0.91	9/16	1.5
6 CBI2	3/8	1/4-18	0.72	0.91	9/16	1.5
6-2 CBI2	3/8	1/8-27	0.72	0.81	9/16	1.5
6-6 CBI2	3/8	3/8-18	0.86	1	3/4	1.5
6-8 CBI2	3/8	1/2-14	1	1.27	5/8	1.5
8 CBI2	1/2	3/8-18	0.88	1	3/4	1.5
8-4 CBI2	1/2	1/4-18	0.88	1.06	3/4	1.5
8-8 CBI2	1/2	1/2-14	1.09	1.38	7/8	1.5

### DBI2

Female Elbow  
Intru-Lok / NPTF

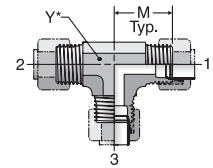


Y1\* – Across wrench flats

TUBE FITTING PART #	END SIZE		M1 (in.)	N1 (in.)	Y1 (in.)	STANDARD Dynamic Pressure (x 1,000 PSI) -B
	1 (in.)	1 NPTF				
2 DBI2	1/8	1/8-27	0.69	0.53	9/16	1.5
3 DBI2	3/16	1/8-27	0.66	0.53	9/16	1.5
4 DBI2	1/4	1/8-27	0.72	0.55	9/16	1.5
4-4 DBI2	1/4	1/4-18	0.84	0.69	3/4	1.5
6 DBI2	3/8	1/4-18	0.92	0.69	3/4	1.5
6-6 DBI2	3/8	3/8-18	1	0.81	7/8	1.5
8-8 DBI2	1/2	1/2-14	1.13	0.94	1	1.5

### JB I2

Union Tee  
Intru-Lok (all three ends)

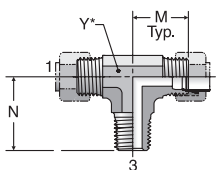


Y1\* – Across wrench flats

TUBE FITTING PART #	END SIZE			M (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI) -B
	1 (in.)	2 (in.)	3 (in.)			
2 JB I2	1/8	1/8	1/8	0.63	5/16	1.5
3 JB I2	3/16	3/16	3/16	0.59	3/8	1.5
4 JB I2	1/4	1/4	1/4	0.59	3/8	1.5
5 JB I2	5/16	5/16	5/16	0.66	9/16	1.5
6 JB I2	3/8	3/8	3/8	0.72	9/16	1.5
8 JB I2	1/2	1/2	1/2	0.88	3/4	1.5

### SBI2

Male Branch Tee  
Intru-Lok / Intru-Lok / NPTF

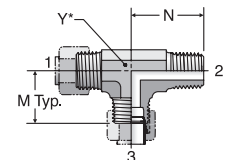


Y\* – Across wrench flats

TUBE FITTING PART #	END SIZE			M (in.)	N (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI) -B
	1 (in.)	2 (in.)	3 NPTF				
2 SBI2	1/8	1/8	1/8-27	0.63	0.69	11/32	1.5
4 SBI2	1/4	1/4	1/8-27	0.61	0.78	3/8	1.5
4-4-4 SBI2	1/4	1/4	1/4-18	0.75	0.98	3/8	1.5
6 SBI2	3/8	3/8	1/4-18	0.72	0.91	9/16	1.5

### RB I2

Male Run Tee  
Intru-Lok / NPTF / Intru-Lok



Y\* – Across wrench flats

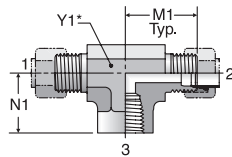
TUBE FITTING PART #	END SIZE			M (in.)	N (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI) -B
	1 (in.)	2 NPTF	3 (in.)				
2 RB I2	1/8	1/8/27	1/8	0.63	0.69	5/16	1.5
3 RB I2	3/16	1/8-27	3/16	0.59	0.69	3/8	1.5
4 RB I2	1/4	1/8-27	1/4	0.59	0.69	3/8	1.5
4-4-4 RB I2	1/4	1/4-18	1/4	0.75	0.98	9/16	1.5
6 RB I2	3/8	1/4-18	3/8	1.05	1.07	9/16	1.5

Dimensions and pressures for reference only, subject to change.



### OBI2

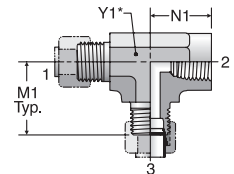
Female Branch Tee  
Intru-Lok / NPTF



Y\* – Across wrench flats

### MBI2

Female Run Tee  
Intru-Lok / NPTF / Intru-Lok



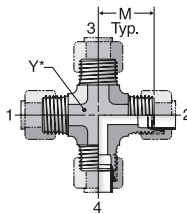
Y\* – Across wrench flats

TUBE FITTING PART #	END SIZE			M1 (in.)	N1 (in.)	Y1 (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)
	1 (in.)	2 (in.)	3 NPTF				-B
4 OBI2	1/4	1/4	1/8-27	0.72	0.53	9/16	1.5
4-4-4 OBI2	1/4	1/4	1/4-18	0.86	0.69	3/4	1.5
6 OBI2	3/8	3/8	1/4-18	0.92	0.69	3/4	1.5
8 OBI2	1/2	1/2	3/8-18	1.09	0.81	7/8	1.5

TUBE FITTING PART #	END SIZE			M1 (in.)	N1 (in.)	Y1 (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)
	1 (in.)	2 (in.)	3 NPTF				-B
4 OBI2	1/4	1/4	1/8-27	0.72	0.53	9/16	1.5
4-4-4 OBI2	1/4	1/4	1/4-18	0.86	0.69	3/4	1.5
6 OBI2	3/8	3/8	1/4-18	0.92	0.69	3/4	1.5
8 OBI2	1/2	1/2	3/8-18	1.09	0.81	7/8	1.5

### KBI2

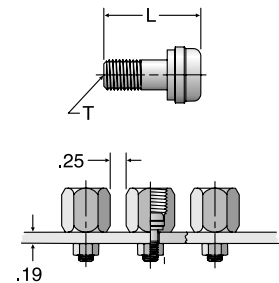
Union Cross  
Intru-Lok (all four ends)



Y\* – Across wrench flats

### T22I

Mountie



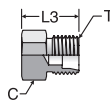
Typical application

TUBE FITTING PART #	END SIZE				M (in.)	Y (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)
	1 (in.)	2 (in.)	3 (in.)	4 (in.)			-B
4 KBI2	1/4	1/4	1/4	1/4	0.66	7/16	1.5
6 KBI2	3/8	3/8	3/8	3/8	0.78	1/2	1.5

TUBE FITTING PART #	TUBE O.D. (in.)	T TUBE END UN/UNF-2A	L (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)
				-B
4 T22I	1/4	1/4-20	0.81	1.5
6 T22I	3/8	1/4-20	0.81	1.5

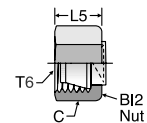
### PNI

Plug  
Intru-Lok



### FNI

Cap  
Intru-Lok



TUBE FITTING PART #	TUBE O.D. (in.)	T TUBE END UN/UNF-2A	C HEX (in.)	L3 (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)
					-B
4 PNI	1/4	7/16-20	7/16	0.5	1.5
5 PNI	5/16	1/2-20	1/2	0.52	1.5
6 PNI	3/8	9/16-18	9/16	0.59	1.5
8 PNI	1/2	3/4-16	3/4	0.67	1.5

TUBE FITTING PART #	TUBE O.D. (in.)	C HEX (in.)	L5 (in.)	STANDARD Dynamic Pressure (x 1,000 PSI)
				-B
2 FNI	1/8	3/8	0.36	1.5
3 FNI	3/16	7/16	0.34	1.5
4 FNI	1/4	1/2	0.44	1.5
5 FNI	5/16	9/16	0.45	1.5
6 FNI	3/8	5/8	0.45	1.5
8 FNI	1/2	7/8	0.58	1.5

Dimensions and pressures for reference only, subject to change.

