Nomenclature/How to Order

Parker CPI™/A-LOK® tube fitting part numbers are constructed using alphanumeric characters to identify the size, style and material of the fitting.

CPI™ Inch Parts

Port 1 Size Designator	–	Port 2 Size Designator	Thread Designator	Shape Designator	–	Material	–	Options (see page 11)
Example: 8	–	**4**		**FBZ**	–	**SS**	–	
1/2" Tube O.D.	–	1/4" Pipe Thread	(blank – see Note 1 below)	Male Connector	–	Stainless Steel	–	(blank)

Part Number as it is ordered (without options): 8-4 FBZ-SS. This part appears on page 12 and is a CPI™ NPT male connector.

A-LOK® Inch Parts

Port 1 Size Designator	Shape Designator	Port 2 Size Designator	Thread Designator	–	Material	–	Options (see page 11)
Example: 8	**MSC**	**4**	**N**	**–**	**316**		
1/2" Tube O.D.	Male Connector	1/4" Pipe Thread	NPT	–	Stainless Steel	–	(blank)

Part Number as it is ordered (without options): 8MSC4N-316. This part appears on page 12 and is an A-LOK® NPT male connector.

CPI™ Metric Parts

Port 1 Size Designator	Port 2 Size Designator	–	Thread Size	Thread Designator	–	Material	–	Options See page 11
Example: GBZ	**12**	**–**	**1/4**	**K**	**–**	**SS**		
Female Connector	12mm	–	1/4"	BSP	–	Stainless Steel	–	(blank)

Part Number as it is ordered (without options): GBZ 12-1/4K-SS. This part appears on page 25 and is a CPI™ BSP female connector.

A-LOK® Metric Parts

Port 1 Size Designator	Shape Designator	Port 2 Size Designator	Thread Designator	–	Material	–	Options See page 11
Example: M12	**FSC**	**1/4**	**N**	**–**	**316**		
12mm	Female Connector	1/4"	NPT	–	Stainless Steel	–	(blank)

Part Number as it is ordered (without options): M12FSC1/4N-316. This part appears on page 24 and is a A-LOK® NPT female connector.

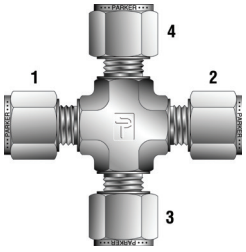
Body Designator: A letter or combination of letters and numbers are used to designate the type of fitting. See the visual index on pages 6-7 for body designator.

Fractional Size: Tube and pipe thread sizes are designed by the number of sixteenths of an inch (1/2" tube = 8/16" = 8) (1/4" pipe thread = 4/16" = 4).

Metric Size: Metric tube is designated in millimeters and prefixed "M" (i.e., 12mm tube – M12.) The pipe thread size is written as a fraction (i.e., 1/4 NPT = 1/4).

All Straights & Elbows: Call out largest CPI™/A-LOK® tube end size first followed by the smaller CPI™/A-LOK® tube end or pipe thread size.

Fractional Tees & Crosses: For drop size tees – first size the run (1 to 2) and then branch (3). Example – the size designator for a male run tee for 3/8" O.D. tube and 1/4" male pipe thread would be 6-4-6. For crosses – first size the run (1 to 2) and then the branch (3 to 4). For tees with all ends the same, use the tube and size before and after the style designator; i.e. 4-4-4 JBZ (CPI™), 4ET4 (A-LOK®).



Metric Tees & Crosses: For drop size tees – first size the run (1 to 2) and then branch (3). Example – the size designator for a male run tee for 6mm tube and 1/4" male pipe thread would be 6-4-6. For crosses – first size the run (1 to 2) and then the branch (3 to 4). For tees with all ends the same, use the tube end size after the style designator; i.e. JBZ 4-4-4 JBZ (CPI™), ETM4 (A-LOK®).

Material: See Table 1 on the previous page for the material symbol.

Thread Types:

N = NPT(1)/National Pipe Taper	ANSI B1.20.1
K = BSP/ISO Taper	BS21, ISO7/1
R = BSP/ISO Parallel	BS2779, ISO 228/1+2, DIN 3852 **FORM A**(2)
BR = BSP/ISO Parallel	BS2779, ISO 228/1+2, DIN 3852 **FORM B**(3)
M = Metric Thread	ISO 6149-2
R-ED = BSPP/ISO Parallel	BS2779, ISO 228/1+2, DIN 3852 **with elastic sealing washer**(4)
GC = BSPP Gauge Connector	B2779, ISO 228/1+2, DIN 3852

(1) **N thread designator is only used for A-LOK® nomenclature.**

(2) Form A requires the use of a bonded washer. See page 76 of this catalog.

(3) Form B (cutting face) may be used with or without a sealing washer.

(4) ED fittings are supplied with Nitrile sealing washers as standard. Fluorocarbon seals are available upon request.

Special Fittings: Consult the factory. If there is any question as to the fitting desired, particularly for special fitting configurations, it is suggested that a customer print be submitted.

Special Options: See the following page for available options.

Color Coding

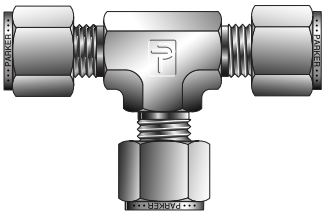
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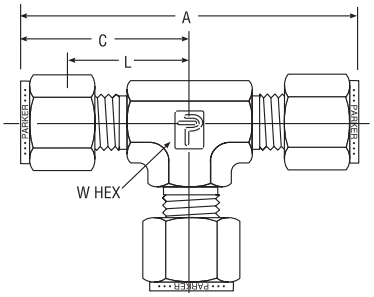
fractional

metric

Parker Hannifin Corporation
Instrumentation Products Division
Huntsville, AL USA
www.parker.com/ipd

Union Tee
For fractional tube



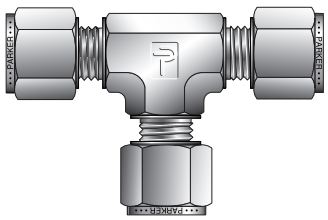


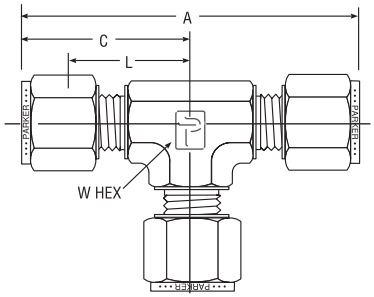
CPI™ PART NO.	A-LOK® PART NO.	INTER-CHANGES WITH	INCHES				
			TUBE O.D.	A	C	L	W HEX
1-1-1 JBZ	**1ET1**	100-3	1/16	1.42	0.71	0.56	3/8
2-2-2 JBZ	**2ET2**	200-3	1/8	1.76	0.88	0.62	3/8
3-3-3 JBZ	**3ET3**	300-3	3/16	1.96	0.96	0.70	7/16
4-4-4 JBZ	**4ET4**	400-3	1/4	2.12	1.06	0.77	1/2
5-5-5 JBZ	**5ET5**	500-3	5/16	2.34	1.17	0.88	5/8
6-6-6 JBZ	**6ET6**	600-3	3/8	2.40	1.20	0.91	5/8
8-8-8 JBZ	**8ET8**	810-3	1/2	2.84	1.42	1.02	13/16
10-10-10 JBZ	**10ET10**	1010-3	5/8	3.06	1.53	1.13	1
12-12-12 JBZ	**12ET12**	1210-3	3/4	3.14	1.57	1.16	1-1/16
14-14-14 JBZ	**14ET14**	1410-3	7/8	3.52	1.76	1.36	1-3/8
16-16-16 JBZ	**16ET16**	1610-3	1	3.86	1.93	1.45	1-3/8
20-20-20 JBZ	**20ET20**	2000-3	1-1/4	5.22	2.61	1.75	1-5/8
24-24-24 JBZ	**24ET24**	2400-3	1-1/2	6.12	3.06	2.00	1-7/8
32-32-32 JBZ	**32ET32**	3200-3	2	8.44	4.22	2.75	2-13/16

NOTE: A and C dimensions are typical finger-tight. Dimensions for reference only, subject to change.

Sizes 20, 24, 32 require additional lubrication prior to assembly.

Union Tee
For metric tube





CPI™ PART NO.	A-LOK® PART NO.	INTER-CHANGES WITH	MILLIMETERS				INCHES
			TUBE O.D.	A	C	L	W HEX
JBZ 2-2-2	**ETM2**	2MO-3	2	44,7	22,3	15,7	3/8
JBZ 3-3-3	**ETM3**	3MO-3	3	44,7	22,3	15,7	3/8
JBZ 4-4-4	**ETM4**	4MO-3	4	50,8	25,4	18,8	1/2
JBZ 6-6-6	**ETM6**	6MO-3	6	53,9	27,0	19,6	1/2
JBZ 8-8-8	**ETM8**	8MO-3	8	59,7	29,9	22,4	5/8
JBZ 10-10-10	**ETM10**	10MO-3	10	63,0	31,5	23,9	11/16
JBZ 12-12-12	**ETM12**	12MO-3	12	72,0	36,0	25,9	13/16
JBZ 14-14-14	**ETM14**	14MO-3	14	77,6	38,8	28,7	1
JBZ 15-15-15	**ETM15**	15MO-3	15	77,6	38,8	28,7	1
JBZ 16-16-16	**ETM16**	16MO-3	16	77,6	38,8	28,7	1
JBZ 18-18-18	**ETM18**	18MO-3	18	79,5	38,8	29,7	1-1/16
JBZ 20-20-20	**ETM20**	20MO-3	20	89,3	44,6	34,5	1-3/8
JBZ 22-22-22	**ETM22**	22MO-3	22	89,3	44,6	34,5	1-3/8
JBZ 25-25-25	**ETM25**	25MO-3	25	98,3	49,1	36,8	1-3/8

NOTE: A and C dimensions are typical finger-tight. Dimensions for reference only, subject to change.

Parker Hannifin Corporation
Instrumentation Products Division
Huntsville, AL USA
www.parker.com/ipd