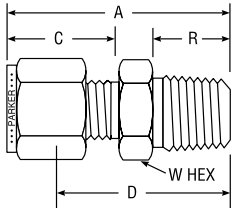
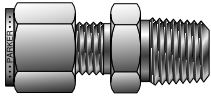


Tube to Male Pipe

NPT Male Connector For fractional tube



CPIT™ PART NO.	A-LOK® PART NO.	INTER-CHANGES WITH	INCHES						
			TUBE O.D.	NPT PIPE THREAD	A	C	D	R	W HEX
1-1 FBZ	1MSC1N	100-1-1	1/16	1/16	.93	.43	.78	.38	5/16
1-2 FBZ	1MSC2N	100-1-2	1/16	1/8	1.03	.43	.88	.38	7/16
1-4 FBZ	1MSC4N	100-1-4	1/16	1/4	1.23	.43	1.08	.56	9/16
2-1 FBZ	2MSC1N	200-1-1	1/8	1/16	1.17	.60	.91	.38	3/8
2-2 FBZ	2MSC2N	200-1-2	1/8	1/8	1.20	.60	.94	.38	7/16
2-4 FBZ	2MSC4N	200-1-4	1/8	1/4	1.40	.60	1.14	.56	9/16
2-6 FBZ	2MSC6N	200-1-6	1/8	3/8	1.42	.60	1.16	.56	11/16
2-8 FBZ	2MSC8N	200-1-8	1/8	1/2	1.67	.60	1.41	.75	7/8
3-1 FBZ	3MSC1N	300-1-1	3/16	1/16	1.23	.64	.97	.38	7/16
3-2 FBZ	3MSC2N	300-1-2	3/16	1/8	1.23	.64	.97	.38	7/16
3-4 FBZ	3MSC4N	300-1-4	3/16	1/4	1.43	.64	1.17	.56	9/16
4-1 FBZ	4MSC1N	400-1-1	1/4	1/16	1.29	.70	1.00	.38	1/2
4-2 FBZ	4MSC2N	400-1-2	1/4	1/8	1.29	.70	1.00	.38	1/2
4-4 FBZ	4MSC4N	400-1-4	1/4	1/4	1.49	.70	1.20	.56	9/16
4-6 FBZ	4MSC6N	400-1-6	1/4	3/8	1.51	.70	1.22	.56	11/16
4-8 FBZ	4MSC8N	400-1-8	1/4	1/2	1.76	.70	1.47	.75	7/8
4-12 FBZ	4MSC12N	400-1-12	1/4	3/4	1.82	.70	1.53	.75	1-1/16
5-2 FBZ	5MSC2N	500-1-2	5/16	1/8	1.34	.73	1.05	.38	9/16
5-4 FBZ	5MSC4N	500-1-4	5/16	1/4	1.52	.73	1.23	.56	9/16
5-6 FBZ	5MSC6N	500-1-6	5/16	3/8	1.55	.73	1.25	.56	11/16
5-8 FBZ	5MSC8N	500-1-8	5/16	1/2	1.79	.73	1.5	.75	7/8
6-2 FBZ	6MSC2N	600-1-2	3/8	1/8	1.38	.76	1.09	.38	5/8
6-4 FBZ	6MSC4N	600-1-4	3/8	1/4	1.57	.76	1.28	.56	5/8
6-6 FBZ	6MSC6N	600-1-6	3/8	3/8	1.57	.76	1.28	.56	11/16
6-8 FBZ	6MSC8N	600-1-8	3/8	1/2	1.82	.76	1.53	.75	7/8
6-12 FBZ	6MSC12N	600-1-12	3/8	3/4	1.88	.76	1.59	.75	1-1/16
8-2 FBZ	8MSC2N	810-1-2	1/2	1/8	1.53	.87	1.13	.38	13/16
8-4 FBZ	8MSC4N	810-1-4	1/2	1/4	1.71	.87	1.31	.56	13/16
8-6 FBZ	8MSC6N	810-1-6	1/2	3/8	1.71	.87	1.31	.56	13/16
8-8 FBZ	8MSC8N	810-1-8	1/2	1/2	1.93	.87	1.53	.75	7/8
8-12 FBZ	8MSC12N	810-1-12	1/2	3/4	1.99	.87	1.59	.75	1-1/16
8-16 FBZ	8MSC16N	810-1-16	1/2	1	2.28	.87	1.88	.94	1-3/8
10-6 FBZ	10MSC6N	1010-1-6	5/8	3/8	1.74	.87	1.34	.56	15/16
10-8 FBZ	10MSC8N	1010-1-8	5/8	1/2	1.93	.87	1.53	.75	15/16
10-12 FBZ	10MSC12N	1010-1-12	5/8	3/4	1.99	.87	1.59	.75	1-1/16
12-8 FBZ	12MSC8N	1210-1-8	3/4	1/2	1.99	.87	1.59	.75	1-1/16
12-12 FBZ	12MSC12N	1210-1-12	3/4	3/4	1.99	.87	1.59	.75	1-1/16
12-16 FBZ	12MSC16N	1210-1-16	3/4	1	2.28	.87	1.88	.94	1-3/8
14-12 FBZ	14MSC12N	1410-1-12	7/8	3/4	1.99	.87	1.59	.75	1-3/16
14-16 FBZ	14MSC16N	1410-1-16	7/8	1	2.28	.87	1.88	.94	1-3/8
16-8 FBZ	16MSC8N	1610-1-8	1	1/2	2.27	1.05	1.78	.75	1-3/8
16-12 FBZ	16MSC12N	1610-1-12	1	3/4	2.27	1.05	1.78	.75	1-3/8
16-16 FBZ	16MSC16N	1610-1-16	1	1	2.46	1.05	1.97	.94	1-3/8
20-20 FBZ	20MSC20N	2010-1-20	1-1/4	1-1/4	3.03	1.52	2.17	.97	1-3/4
24-24 FBZ	24MSC24N	2410-1-24	1-1/2	1-1/2	3.50	1.77	2.44	1.00	2-1/8
32-32 FBZ	32MSC32N	3210-1-32	2	2	4.47	2.47	3.00	1.04	2-3/4

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.

Color Coding

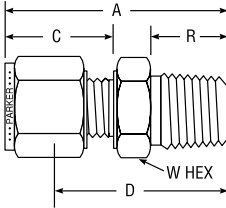
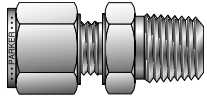
For easy reference, table column headings are color indicated as follows:

fractional

metric

Tube to Male Pipe

NPT Male Connector For metric tube



Single/Double Ferrule
Instrument Compression
Fittings

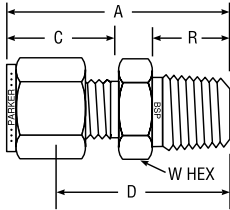
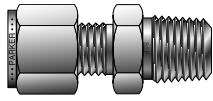
CPI™ PART NO.	A-LOK® PART NO.	INTER- CHANGES WITH	MILLIMETERS						
			TUBE O.D.	NPT PIPE THREAD	A	C	D	R	W HEX
FBZ 2-1/8	M2MSC1/8N	2MO-1-2	2	1/8	29,7	15,3	23,1	9,5	12,0
FBZ 3-1/8	M3MSC1/8N	3MO-1-2	3	1/8	29,7	15,3	23,1	9,5	12,0
FBZ 3-1/4	M3MSC1/4N	3MO-1-4	3	1/4	35,3	15,3	28,7	14,3	14,0
FBZ 4-1/8	M4MSC1/8N	4MO-1-2	4	1/8	31,2	16,1	24,6	9,5	12,0
FBZ 4-1/4	M4MSC1/4N	4MO-1-4	4	1/4	36,3	16,1	29,7	14,3	14,0
FBZ 6-1/8	M6MSC1/8N	6MO-1-2	6	1/8	32,9	17,7	25,4	9,5	14,0
FBZ 6-1/4	M6MSC1/4N	6MO-1-4	6	1/4	38,1	17,7	30,6	14,3	14,0
FBZ 6-3/8	M6MSC3/8N	6MO-1-6	6	3/8	38,5	17,7	31,0	14,3	18,0
FBZ 6-1/2	M6MSC1/2N	6MO-1-8	6	1/2	44,8	17,7	37,3	19,1	22,0
FBZ 8-1/8	M8MSC1/8N	8MO-1-2	8	1/8	34,2	18,6	26,7	9,5	15,0
FBZ 8-1/4	M8MSC1/4N	8MO-1-4	8	1/4	38,8	18,6	31,3	14,3	15,0
FBZ 8-3/8	M8MSC3/8N	8MO-1-6	8	3/8	39,3	18,6	31,8	14,3	18,0
FBZ 8-1/2	M8MSC1/2N	8MO-1-8	8	1/2	45,6	18,6	38,1	19,1	22,0
FBZ 10-1/8	M10MSC1/8N	10MO-1-2	10	1/8	36,1	19,5	28,6	9,5	18,0
FBZ 10-1/4	M10MSC1/4N	10MO-1-4	10	1/4	40,9	19,5	33,3	14,3	18,0
FBZ 10-3/8	M10MSC3/8N	10MO-1-6	10	3/8	40,9	19,5	33,3	14,3	18,0
FBZ 10-1/2	M10MSC1/2N	10MO-1-8	10	1/2	47,5	19,5	38,9	19,1	22,0
FBZ 10-3/4	M10MSC3/4N	10MO-1-12	10	3/4	46,4	19,5	38,9	19,1	27,0
FBZ 10-1	M10MSC1N	10MO-1-16	10	1	55,0	19,5	47,5	23,8	35,0
FBZ 12-1/4	M12MSC1/4N	12MO-1-4	12	1/4	43,4	22,0	33,3	14,3	22,0
FBZ 12-3/8	M12MSC3/8N	12MO-1-6	12	3/8	43,4	22,0	33,3	14,3	22,0
FBZ 12-1/2	M12MSC1/2N	12MO-1-8	12	1/2	49,0	22,0	38,9	19,1	22,0
FBZ 12-3/4	M12MSC3/4N	12MO-1-12	12	3/4	50,5	22,0	40,4	19,1	27,0
FBZ 14-1/4	M14MSC1/4N	14MO-1-4	14	1/4	44,2	22,0	34,1	14,3	24,0
FBZ 14-3/8	M14MSC3/8N	14MO-1-6	14	3/8	44,2	22,0	34,1	14,3	24,0
FBZ 14-1/2	M14MSC1/2N	14MO-1-8	14	1/2	49,0	22,0	38,9	19,1	24,0
FBZ 15-1/2	M15MSC1/2N	15MO-1-8	15	1/2	49,0	22,0	38,9	19,1	24,0
FBZ 16-3/8	M16MSC3/8N	16MO-1-6	16	3/8	44,1	22,0	34,01	14,3	24,0
FBZ 16-1/2	M16MSC1/2N	16MO-1-8	16	1/2	49,0	22,0	38,9	19,1	24,0
FBZ 16-3/4	M16MSC3/4N	16MO-1-12	16	3/4	50,5	22,0	40,5	19,1	27,0
FBZ 18-1/2	M18MSC1/2N	18MO-1-8	18	1/2	50,6	22,0	40,5	19,1	27,0
FBZ 18-3/4	M18MSC3/4N	18MO-1-12	18	3/4	50,6	22,0	40,5	19,1	27,0
FBZ 20-1/2	M20MSC1/2N	20MO-1-8	20	1/2	50,6	22,0	42,2	19,1	30,0
FBZ 20-3/4	M20MSC3/4N	20MO-1-12	20	3/4	52,3	22,0	42,2	19,1	30,0
FBZ 20-1	M20MSC1N	20MO-1-16	20	1	57,7	22,0	47,6	23,8	35,0
FBZ 22-3/4	M22MSC3/4N	22MO-1-12	22	3/4	52,3	22,0	42,2	19,1	35,0
FBZ 24-1/2	M25MSC1/2N	25MO-1-8	25	1/2	57,5	26,5	45,3	19,1	35,0
FBZ 25-3/4	M25MSC3/4N	25MO-1-12	25	3/4	57,5	26,5	45,2	19,1	35,0
FBZ 25-1	M25MSC1N	25MO-1-16	25	1	62,3	26,5	50,0	23,8	35,0
	M28MSC1N	28MO-1-16	28	1	73,0	36,6	38,6	23,9	41,0
	M30NSC1N	30MO-1-16	30	1	76,3	39,6	41,7	23,9	46,0
	M30NSC11/4N	30MO-1-20	30	1 1/4	77,2	39,6	41,7	24,7	46,0
	M32MSC11/2N	32MO-1-24	32	1 1/2	79,5	42,0	44,1	25,4	46,0

NOTE: A and C dimensions are typical finger-tight.

Dimensions for reference only, subject to change.

Tube to Male Pipe

BSP Taper Male Connector For fractional tube

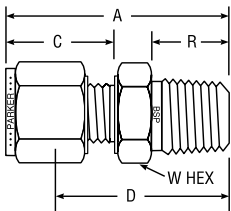
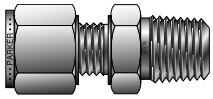


CPI™ PART NO.	A-LOK® PART NO.	INTER- CHANGES WITH	INCHES							
			TUBE O.D.	BSPT THREAD	A	C	D	R	W HEX	BORE
2-2K FBZ	2MSC2K	200-1-2RT	1/8	1/8	1.20	.60	0.94	.38	7/16	.19
2-4K FBZ	2MSC4K	200-1-4RT	1/8	1/4	1.40	.60	1.14	.56	9/16	.19
4-2K FBZ	4MSC2K	400-1-2RT	1/4	1/8	1.30	.70	1.00	.38	1/2	.19
4-4K FBZ	4MSC4K	400-1-4RT	1/4	1/4	1.50	.70	1.20	.56	9/16	.19
4-6K FBZ	4MSC6K	400-1-6RT	1/4	3/8	1.52	.70	1.22	.56	11/16	.19
4-8K FBZ	4MSC8K	400-1-8RT	1/4	1/2	1.77	.70	1.47	.75	7/8	.19
5-2K FBZ	5MSC2K	500-1-2RT	5/16	1/8	1.34	.73	1.05	.38	9/16	.19
5-4K FBZ	5MSC4K	500-1-4RT	5/16	1/4	1.52	.73	1.23	.56	9/16	.19
6-2K FBZ	6MSC2K	600-1-2RT	3/8	1/8	1.39	.76	1.09	.38	5/8	.19
6-4K FBZ	6MSC4K	600-1-4RT	3/8	1/4	1.57	.76	1.28	.56	5/8	.28
6-6K FBZ	6MSC6K	600-1-6RT	3/8	3/8	1.57	.76	1.28	.56	11/16	.28
6-8K FBZ	6MSC8K	600-1-8RT	3/8	1/2	1.82	.76	1.53	.75	7/8	.28
8-4K FBZ	8MSC4K	810-1-4RT	1/2	1/4	1.69	.86	1.31	.56	13/16	.28
8-6K FBZ	8MSC6K	810-1-6RT	1/2	3/8	1.69	.86	1.31	.56	13/16	.38
8-8K FBZ	8MSC8K	810-1-8RT	1/2	1/2	1.91	.66	1.53	.75	7/8	.41

NOTE: A and C dimensions are typical finger-tight.

Dimensions for reference only, subject to change.

BSP Taper Male Connector For metric tube



CPI™ PART NO.	A-LOK® PART NO.	INTER- CHANGES WITH	MILLIMETERS						
			TUBE O.D.	BSPT THREAD	A	C	D	R	W HEX
FBZ 2-1/8K	M2MSC1/8K	2MO-1-2RT	2	1/8	29,7	15,3	23,1	9,5	12,0
FBZ 3-1/8K	M3MSC1/8K	3MO-1-2RT	3	1/8	29,7	15,3	23,1	9,7	12,0
FBZ 3-1/4K	M3MSC1/4K	3MO-1-4RT	3	1/4	35,3	15,3	28,7	14,2	14,0
FBZ 4-1/8K	M4MSC1/8K	4MO-1-2RT	4	1/8	31,2	16,1	24,6	9,7	12,0
FBZ 4-1/4K	M4MSC1/4K	4MO-1-4RT	4	1/4	36,3	16,1	29,7	14,2	14,0
FBZ 6-1/8K	M6MSC1/8K	6MO-1-2RT	6	1/8	32,9	17,7	25,4	9,7	14,0
FBZ 6-1/4K	M6MSC1/4K	6MO-1-4RT	6	1/4	40,0	17,7	30,5	14,2	14,0
FBZ 6-3/8K	M6MSC3/8K	6MO-1-6RT	6	3/8	38,5	17,7	31,0	14,2	18,0
FBZ 6-1/2K	M6MSC1/2K	6MO-1-8RT	6	1/2	45,6	17,7	38,1	19,1	22,0
FBZ 8-1/8K	M8MSC1/8K	8MO-1-2RT	8	1/8	33,9	18,6	26,4	9,5	15,0
FBZ 8-1/4K	M8MSC1/4K	8MO-1-4RT	8	1/4	38,7	18,6	31,2	14,2	15,0
FBZ 8-3/8K	M8MSC3/8K	8MO-1-6RT	8	3/8	39,3	18,6	31,8	14,2	18,0
FBZ 8-1/2K	M8MSC1/2K	8MO-1-8RT	8	1/2	45,6	18,6	38,1	19,1	22,0
FBZ 10-1/8K	M10MSC1/8K	10MO-1-2RT	10	1/8	36,2	19,5	28,6	9,5	18,0
FBZ 10-1/4K	M10MSC1/4K	10MO-1-4RT	10	1/4	40,9	19,5	33,3	14,2	18,0
FBZ 10-3/8K	M10MSC3/8K	10MO-1-6RT	10	3/8	40,9	19,5	33,3	14,2	18,0
FBZ 10-1/2K	M10MSC1/2K	10MO-1-8RT	10	1/2	46,5	19,5	38,9	19,1	22,0
FBZ 12-1/4K	M12MSC1/4K	12MO-1-4RT	12	1/4	43,4	22,0	33,3	14,2	22,0
FBZ 12-3/8K	M12MSC3/8K	12MO-1-6RT	12	3/8	43,4	22,0	33,3	14,2	22,0
FBZ 12-1/2K	M12MSC1/2K	12MO-1-8RT	12	1/2	49,0	22,0	38,9	19,1	22,0
FBZ 12-3/4K	M12MSC3/4K	12MO-1-12RT	12	3/4	49,5	22,0	40,4	19,1	27,0
FBZ 15-1/2K	M15MSC1/2K	15MO-1-8RT	15	1/2	49,0	22,0	38,9	19,1	24,0
FBZ 16-3/8K	M16MSC3/8K	16MO-1-6RT	16	3/8	44,2	22,0	34,1	14,2	24,0
FBZ 16-1/2K	M16MSC1/2K	16MO-1-8RT	16	1/2	49,0	22,0	38,9	19,1	24,0
FBZ 16-3/4K	M16MSC3/4K	16MO-1-12RT	16	3/4	49,5	22,0	40,5	19,1	27,0
FBZ 18-1/2K	M18MSC1/2K	18MO-1-8RT	18	1/2	50,6	22,0	40,4	19,1	27,0
FBZ 18-3/4K	M18MSC3/4K	18MO-1-12RT	18	3/4	50,6	22,0	40,4	19,1	27,0
FBZ 20-1/2K	M20MSC1/2K	20MO-1-8RT	20	1/2	52,3	22,0	42,2	19,1	30,0
FBZ 20-3/4K	M20MSC3/4K	20MO-1-12RT	20	3/4	52,3	22,0	42,2	19,1	30,0
FBZ 22-3/4K	M22MSC3/4K	22MO-1-12RT	22	3/4	52,3	22,0	42,2	19,1	30,0
FBZ 25-3/4K	M25MSC3/4K	25MO-1-12RT	25	3/4	57,5	26,5	45,2	19,1	35,0
FBZ 25-1K	M25MSC1K	25MO-1-16RT	25	1	62,3	26,5	50,0	23,9	35,0

NOTE: A and C dimensions are typical finger-tight.

Dimensions for reference only, subject to change.

Color Coding

For easy reference, table column headings are color indicated as follows:

fractional

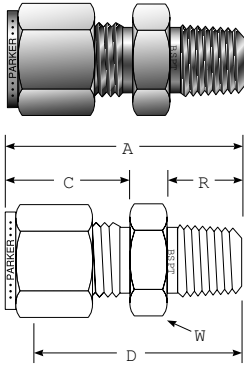


metric



ISO Conversion Fittings

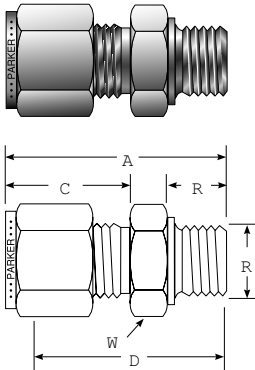
BSP Taper Male Connector



Tube O.D. (in.)	BSP Thread	Parker CPI™ Part No.	Parker A-LOK® Part No.	A (in.)	C (in.)	D (in.)	R (in.)	W Hex
1/8	1/8-28	2-2K FBZ	2MSC2K	1.20	.60	.94	.38	7/16
1/8	1/4-19	2-4K FBZ	2MSC4K	1.40	.60	1.14	.56	9/16
1/4	1/8-28	4-2K FBZ	4MSC2K	1.30	.70	1.00	.38	1/2
1/4	1/4-19	4-4K FBZ	4MSC4K	1.50	.70	1.20	.56	9/16
1/4	3/8-19	4-6K FBZ	4MSC6K	1.52	.70	1.22	.56	11/16
1/4	1/2-14	4-8K FBZ	4MSC8K	1.76	.70	1.44	.75	7/8
5/16	1/8-28	5-2K FBZ	5MSC2K	1.34	.73	1.05	.38	9/16
5/16	1/4-19	5-4K FBZ	5MSC4K	1.53	.73	1.23	.56	9/16
3/8	1/8-28	6-2K FBZ	6MSC2K	1.39	.76	1.09	.38	5/8
3/8	1/4-19	6-4K FBZ	6MSC4K	1.59	.76	1.28	.56	5/8
3/8	3/8-19	6-6K FBZ	6MSC6K	1.59	.76	1.28	.56	11/16
3/8	1/2-14	6-8K FBZ	6MSC8K	1.82	.76	1.53	.75	7/8
1/2	1/4-19	8-4K FBZ	8MSC4K	1.75	.87	1.31	.56	13/16
1/2	3/8-19	8-6K FBZ	8MSC6K	1.75	.87	1.31	.56	13/16
1/2	1/2-14	8-8K FBZ	8MSC8K	1.93	.87	1.53	.75	7/8

Connects fractional tube to female ISO taper thread.

BSPP Male Connector



Tube O.D. (in.)	BSP Thread	Parker CPI™ Part No.	Parker A-LOK® Part No.	A (in.)	C (in.)	D (in.)	R (in.)	W Hex
1/8	1/8-28	2-2R FBZ	2MSC2R	1.18	.60	0.92	.28	9/16
1/8	1/4-19	2-4R FBZ	2MSC4R	1.38	.60	1.13	.44	3/4
1/8	3/8-19	2-6R FBZ	2MSC6R	1.43	.60	1.17	.44	7/8
1/4	1/8-28	4-2R FBZ	4MSC2R	1.28	.70	0.98	.28	9/16
1/4	1/4-19	4-4R FBZ	4MSC4R	1.49	.70	1.19	.44	3/4
1/4	3/8-19	4-6R FBZ	4MSC6R	1.55	.70	1.25	.44	7/8
1/4	1/2-14	4-8R FBZ	4MSC8R	1.77	.70	1.47	.56	1 1/16
3/8	1/8-28	6-2R FBZ	6MSC2R	1.37	.76	1.06	.28	5/8
3/8	1/4-19	6-4R FBZ	6MSC4R	1.57	.76	1.25	.44	3/4
3/8	3/8-19	6-6R FBZ	6MSC6R	1.59	.76	1.30	.44	7/8
3/8	1/2-14	6-8R FBZ	6MSC8R	1.84	.76	1.53	.56	1 1/16
1/2	1/4-19	8-4R FBZ	8MSC4R	1.71	.87	1.28	.44	13/16
1/2	3/8-19	8-6R FBZ	8MSC6R	1.74	.87	1.30	.44	7/8
1/2	1/2-14	8-8R FBZ	8MSC8R	1.96	.87	1.53	.56	1 1/16
3/4	1/2-14	12-8R FBZ	12MSC8R	1.93	.87	1.53	.56	1 1/16
3/4	3/4-19	12-12R FBZ	12MSC12R	2.10	.87	1.69	.63	1 3/8
1	1/2-14	16-8R FBZ	16MSC8R	2.21	1.05	1.72	.56	1 3/8
1	1-11	16-16R FBZ	16MSC16R	2.37	1.05	1.88	.72	1 5/8

Connects fractional tube to female ISO parallel thread.
Note: Bonded Seal, page 133, must be used with BSPP end shown.

Dimensions for reference only, subject to change.