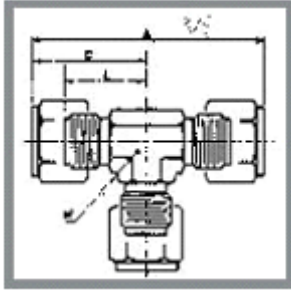


Union Tee



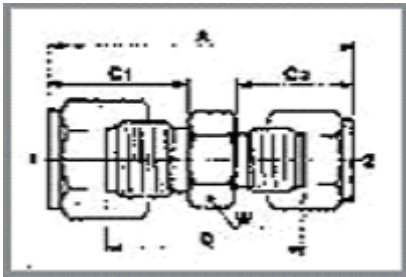
Imperial Tubing										
Tube O.D (inch)	Part Number	A		C		L		W (inch)	Min. bore	
		inch	mm	inch	mm	inch	mm		inch	mm
1/16	ASC-1UT1	1.40	35.6	0.70	17.8	0.56	14.2	5/16	0.05	1.3
1/8	ASC-2UT2	1.82	46.2	0.91	23.1	0.66	16.8	5/16	0.09	2.3
3/16	ASC-3UT3	1.88	47.8	0.94	24.9	0.69	17.5	7/16	0.13	3.3
1/4	ASC-4UT4	2.03	51.6	1.02	25.9	0.72	18.3	7/16	0.19	4.8
5/16	ASC-5UT5	2.21	56.1	1.10	27.9	0.81	20.6	9/16	0.25	6.4
3/8	ASC-6UT6	2.27	57.7	1.13	28.7	0.84	21.3	9/16	0.28	7.1
1/2	ASC-8UT8	2.71	68.8	1.35	34.3	0.97	24.6	3/4	0.41	10.4
5/8	ASC-10UT10	2.89	73.4	1.44	36.6	1.06	26.9	7/8	0.50	12.7
3/4	ASC-12UT12	3.09	78.5	1.54	39.1	1.16	29.5	1.1/16	0.63	16.0
7/8	ASC-14UT14	3.33	84.6	1.66	42.2	1.28	32.5	1.5/16	0.75	19.1
1	ASC-16UT16	3.56	90.4	1.78	45.2	1.31	33.3	1.5/16	0.88	22.4
Metric Tubing										
Tube O.D (mm)	Part Number	A	C	L	W	Min. bore (mm)				
		mm	mm	mm	inch					

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3	ASC-3MUT	46.6	23.3	16.7	5/16	2.4
4	ASC-4MUT	48.2	24.1	17.5	5/16	3.0
6	ASC-6MUT	51.6	25.8	18.3	7/16	4.8
8	ASC-8MUT	56.2	28.1	20.6	9/16	6.4
10	ASC-10MUT	66.0	33.0	25.4	3/4	7.9
12	ASC-12MUT	69.4	34.7	24.6	3/4	9.5
16	ASC-16MUT	74.2	37.1	27.0	7/8	12.7
18	ASC-18MUT	79.0	39.5	29.4	1.1/16	15.1
20	ASC-20MUT	85.2	42.6	32.5	1.5/16	15.9
25	ASC-25MUT	91.2	45.6	33.3	1.3/8	22.2

Reducing Union



Imperial Tubing													
Tube O.D		Part Number	A		C ₁		C ₂		D		W inch		Min bore
1 inch	2 inch	inch	mm	inch	mm	inch	mm	inch	mm	inch	inch	mm	
1/8	1/16	ASC-2RU1	1.20	30.5	0.60	15.2	0.43	10.9	0.81	20.6	7/16	0.05	1.3
3/16	1/16	ASC-3RU1	1.25	31.8	0.63	16.0	0.43	10.9	0.86	21.8	7/16	0.05	1.3
3/16	1/8	ASC-3RU2	1.42	36.1	0.63	16.0	0.60	15.2	0.92	23.4	7/16	0.09	2.3
1/4	1/16	ASC-4RU1	1.35	34.3	0.70	17.8	0.43	10.9	0.91	23.1	1/2	0.05	1.3

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1/4	1/8	ASC-4RU2	1.52	38.6	0.70	17.8	0.60	15.2	0.97	24.6	1/2	0.09	2.3
1/4	3/16	ASC-4RU3	1.54	39.1	0.70	17.8	0.63	16.0	1.00	25.4	1/2	0.13	3.3
5/16	1/4	ASC-5RU4	1.67	42.4	0.73	18.6	0.70	17.8	1.08	27.4	9/16	0.19	4.8
3/8	1/16	ASC-6RU1	1.44	36.6	0.76	19.3	0.43	10.9	1.00	25.4	5/8	0.05	1.3
3/8	1/8	ASC-6RU2	1.60	40.6	0.76	19.3	0.60	15.2	1.06	26.9	5/8	0.09	2.3
3/8	1/4	ASC-6RU4	1.72	43.7	0.76	19.3	0.70	17.8	1.13	28.7	5/8	0.19	4.8
3/8	5/16	ASC-6RU5	1.75	44.5	0.76	19.3	0.73	18.6	1.16	29.5	5/8	0.25	6.4
1/2	1/8	ASC-8RU2	1.72	43.7	0.86	21.8	0.60	15.2	1.09	27.7	13/16	0.09	2.3
12/	1/4	ASC-8RU4	1.84	46.7	0.86	21.8	0.70	17.8	1.16	29.5	13/16	0.19	4.8
1/2	3/8	ASC-8RU6	1.90	48.3	0.86	21.8	0.76	19.3	1.22	31.0	13/16	0.28	7.1
5/8	3/8	ASC-10RU6	1.93	49.0	0.86	21.8	0.76	19.3	1.25	31.8	15/16	0.28	7.1
5/8	1/2	ASC-10RU8	2.02	51.3	0.86	21.8	0.86	21.8	1.25	31.8	15/16	0.41	10.4
3/4	1/2	ASC-12RU8	2.08	52.8	0.86	21.8	0.86	21.8	1.31	33.3	1.1/16	0.41	10.4
3/4	5/8	ASC-12RU10	2.08	52.8	0.86	21.8	0.86	21.8	1.31	33.3	1.1/16	0.50	12.7
1	3/4	ASC-16RU12	2.35	59.7	1.04	26.4	0.86	21.8	1.50	38.1	1.3/8	0.63	16.0

Metric tubing

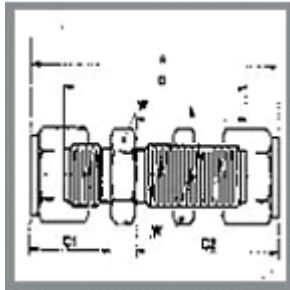
Tube O.D 1 mm 2 mm		Part Number	A mm	C1 mm	D mm	W mm	Min bore mm	
6	3	ASC-6MRU3M	38.7	17.7	15.3	1/2	2.4	
8	6	ASC-8MRU6M	42.4	18.6	27.4	9/16	4.8	
10	6	ASC-10MRU6M	44.5	19.5	29.4	11/16	4.8	
10	8	ASC-10MRU8M	44.5	19.5	29.4	11/16	6.4	
12	6	ASC-12MRU6M	47	22	29.4	13/16	4.8	

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12	8	ASC-12MRU8M	47.8	22	30.2	13/16	6.4
12	10	ASC-12MRU10M	48.7	22	31	13/16	7.9
16	12	ASC-16MRU12M	52	22	31.8	15/16	9.5
25	18	ASC-25MRU18M	60.5	26.5	38.1	1.3/8	15.1
25	20	ASC-25MRU20M	62.3	26.5	39.9	1.3/8	15.9

Bulkhead Union



Imperial tubing																		
Tube O.D inch	Part Number	A		C ₁		C ₂		D		L		W inch	B'head hole drill size		Max b'head thickness		Min bore	
		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm		inch	mm	inch	mm	inch	mm
1/16	ASC-1BU1	1.22	31.0	0.43	10.9	0.67	17.0	0.94	23.9	0.53	13.5	5/16	13/64	5.2	0.12	3.1	0.05	1.3
1/8	ASC-2BU2	2.00	50.8	0.60	15.2	1.22	31.0	1.50	38.1	0.97	24.6	1/2	21/64	8.3	0.50	12.7	0.09	2.3

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3/16	ASC-3BU3	2.09	53.1	0.63	16.0	1.25	31.8	1.59	40.4	1.00	25.4	9/16	25/64	9.9	0.50	12.7	0.13	3.3
1/4	ASC-4BU4	2.28	57.9	0.70	17.8	1.33	33.8	1.69	42.3	1.03	26.2	5/8	29/64	11.5	0.40	10.2	0.19	4.8
5/16	ASC-5BU5	2.40	61.0	0.73	18.6	1.41	35.8	1.81	46.0	1.12	28.5	11/16	33/64	13.1	0.44	11.2	0.25	6.4
3/8	ASC-6BU6	2.47	62.7	0.76	19.3	1.45	36.8	1.88	47.8	1.16	29.5	3/4	37/64	14.7	0.44	11.2	0.28	7.1
1/2	ASC-8BU8	2.77	70.4	0.86	21.8	1.63	41.3	2.00	50.8	1.25	31.8	15/16	49/64	19.4	0.50	12.7	0.41	10.4
5/8	ASC-10BU10	2.83	71.9	0.86	21.8	1.66	42.2	2.06	52.3	1.28	32.5	1.1/16	57/64	22.6	0.50	12.7	0.50	12.7
3/4	ASC-12BU12	3.08	78.2	0.86	21.8	1.85	47.0	2.31	58.7	1.47	37.3	1.3/16	1.1/64	25.8	0.66	16.8	0.63	16.0
7/8	ASC-14BU14	3.30	83.8	0.86	21.8	2.07	52.6	2.53	64.3	1.69	42.9	1.3/8	1.9/64	29.0	0.75	19.1	0.75	19.1
1	ASC-16BU16	3.75	95.3	1.04	26.4	2.25	57.2	2.81	71.4	1.78	45.2	1.5/8	1.21/64	33.7	0.75	19.1	0.88	22.4

Metric tubing

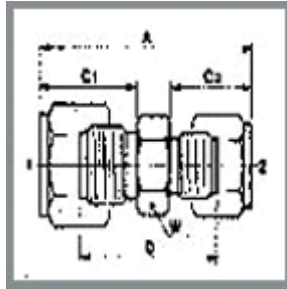
	Tube O.D mm	Part Number	A	C ₁	C ₂	D	L	W inch	B'head hole drill size mm	Max b'head thickness mm	Min bore	
			m	m	m	m	m				mm	
	3	ASC-3MBU	51.3	15.3	31.2	38.2	24.6	1/2	8.3	12.7	2.4	
	4	ASC-4MBU	53.7	16.1	32.0	40.5	25.4	9/16	9.9	12.7	3.0	
	6	ASC-6MBU	57.9	17.7	33.7	42.9	26.2	5/8	11.5	10.2	4.8	
	8	ASC-8MBU	61.0	18.6	36.0	46.0	28.5	11/16	13.1	11.2	6.4	

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10	ASC-10MBU	63.6	19.5	37.0	48.4	29.4	13/16	16.3	11.2	7.9
12	ASC-12MBU	71.0	22.0	41.9	50.8	31.8	15/16	19.5	12.7	9.5
16	ASC-16MBU	72.6	22.0	42.6	52.4	32.5	1.1/16	22.5	12.7	12.7
18	ASC-18MBU	78.9	22.0	47.4	58.7	37.3	1.3/16	26.0	16.8	15.1

Union



Imperial Tubing									
Tube O.D inch	Part Number	A		C		D		Min bore	
		inch	mm	inch	mm	inch	mm	inch	mm
1/16	ASC-1U1	0.97	24.6	0.43	10.9	0.69	17.5	5/16	1.3
1/8	ASC-2U2	1.38	35.1	0.60	15.2	0.88	22.4	7/16	2.3
3/16	ASC-3U3	1.45	36.8	0.63	16.0	0.95	24.1	7/16	3.3
1/4	ASC-4U4	1.62	41.1	0.70	17.8	1.03	26.2	1/2	4.8
5/16	ASC-5U5	1.70	43.2	0.73	18.6	1.11	28.2	9/16	6.4
3/8	ASC-6U6	1.78	45.2	0.76	19.3	1.19	30.2	5/8	7.1
1/2	ASC-8U8	2.00	50.8	0.96	21.8	1.22	31.0	13/16	10.4

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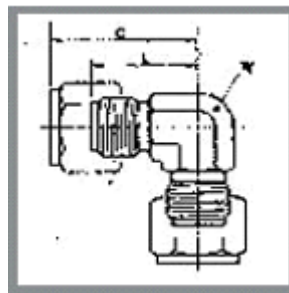
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5/8	ASC-10U10	2.02	51.3	0.86	21.8	1.25	31.8	15/16	12.7
3/4	ASC-12U12	2.08	52.8	0.86	21.8	1.31	33.3	1.1/16	16.0
7/8	ASC-14U14	2.15	54.6	0.86	21.8	1.38	35.1	1.3/16	19.1
1	ASC-16U16	2.53	64.3	1.04	26.4	1.59	40.4	1.3/8	22.4

Metric Tubing

Tube O.D mm	Part Number	A mm	C mm	D mm	W inch	Min bore mm
3	ASC-3MU	35.3	15.3	22.1	7/16	2.4
4	ASC-4MU	37.4	16.1	24.2	7/16	3.0
6	ASC-6MU	41.2	17.7	26.2	1/2	4.8
8	ASC-8MU	43.2	18.6	28.2	9/16	6.4
10	ASC-10MU	46.2	19.5	31.0	11/16	7.9
12	ASC-12MU	51.2	22.0	31.0	13/16	9.5
16	ASC-16MU	52.0	22.0	31.8	15/16	12.7
18	ASC-18MU	53.5	22.0	33.3	1.1/16	15.1
20	ASC-20MU	55.0	22.0	34.8	1.3/16	15.9
25	ASC-25MU	65.1	26.5	40.5	1.3/8	22.2

Union Elbow



Imperial tubing

Tube O.D	Part Number		C	L	W	Min. bore
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(inch)			inch	mm	inch	mm	(inch)	inch	mm
1/16	ASC-IUE1	0.70	17.8	0.56	14.2	5/16	0.05	1.3	
1/8	ASC-2UE2	0.61	23.1	0.66	16.8	5/16	0.09	2.3	
3/16	ASC-3UE3	0.94	23.9	0.69	17.5	7/16	0.13	3.3	
1/4	ASC-4UE4	1.02	25.9	0.72	18.3	7/16	0.19	4.8	
5/16	ASC-5UE5	1.10	27.9	0.81	20.6	9/16	0.25	6.4	
3/8	ASC-6UE6	1.13	28.7	0.84	21.3	9/16	0.28	7.1	
1/2	ASC-8UE8	1.35	34.3	0.97	24.6	3/4	0.41	10.4	
5/8	ASC-10UE10	1.44	36.6	1.06	26.9	7/8	0.50	12.7	
3/4	ASC-12UE12	1.54	39.1	1.16	29.5	1.1/16	0.63	16.0	
7/8	ASC-14UE14	1.66	42.2	1.28	32.5	1.5/16	0.75	19.1	
1	ASC-16UE16	1.78	45.2	1.31	33.3	1.5/16	0.88	22.4	

Metric tubing

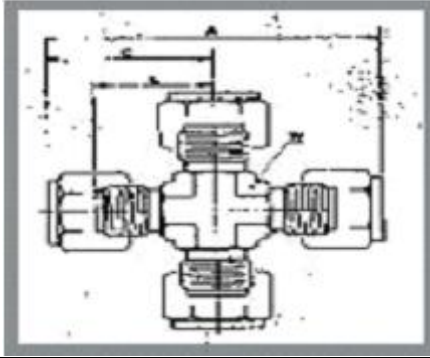
	Tube O.D (mm)	Part Number	C	L	W (inch)	Min. bore (mm)	
			mm	mm			
	3	ASC-3MUE	23.3	16.7	5/16	2.4	
	4	ASC-4MUE	24.1	17.5	5/16	3.0	
	6	ASC-6MUE	25.8	18.3	7/16	4.8	
	8	ASC-8MUE	28.1	20.6	9/16	6.4	
	10	ASC-10MUE	33.0	25.4	3/4	7.9	
	12	ASC-12MUE	34.7	24.6	3/4	9.5	
	16	ASC-16MUE	37.1	27.0	7/8	12.7	
	18	ASC-18MUE	39.5	29.4	1.1/16	15.1	
	20	ASC-20MUE	42.6	32.5	1.5/16	15.9	

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	25	ASC-25MUE	45.6	33.3	1.5/16	22.2	
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Union Cross



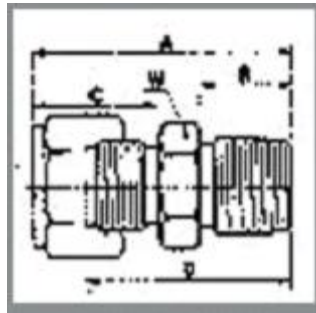
Imperial Tubing										
Tube O.D (mm)	Part Number	A		C		L		W (inch)	Min. bore	
		inch	mm	inch	mm	inch	mm		inch	mm
1/8	ASC-2UC2	1.81	46.0	0.91	23.0	0.66	16.8	7/16	0.09	2.3
3/16	ASC-3UC3	1.88	47.8	0.94	23.9	0.69	17.5	7/16	0.13	3.3
1/4	ASC-4UC4	2.03	51.6	1.02	25.9	0.72	18.3	7/16	0.19	4.8
5/16	ASC-5UC5	2.21	56.6	1.10	27.9	0.81	20.6	9/16	0.25	6.4
3/8	ASC-6UC6	2.27	57.7	1.13	28.7	0.84	21.3	9/16	0.28	7.1
1/2	ASC-8UC8	2.71	68.8	1.35	34.3	0.97	24.6	3/4	0.41	10.4
5/8	ASC-10UC10	2.89	73.4	1.44	36.6	1.06	26.9	7/8	0.50	12.7
3/4	ASC-12UC12	3.09	78.5	1.54	39.1	1.16	29.5	1.1/16	0.63	16.0
7/8	ASC-14UC14	3.27	83.1	1.63	41.4	1.25	31.8	1.5/16	0.75	19.1
1	ASC-16UC16	3.82	97.0	1.91	48.5	1.44	36.6	1.5/16	0.88	22.4
Metric tubing										
	Tube O.D (mm)	Part Number	A	C	L	W (inch)	Min. bore (mm)			
			mm	mm	mm					

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3	ASC-3MUC	46.8	23.4	16.8	7/16	2.4
4	ASC-4MUC	48.2	24.1	17.5	7/16	3.0
6	ASC-6MUC	51.6	25.8	18.3	7/16	4.8
8	ASC-8MUC	56.2	28.1	20.6	9/16	6.4
10	ASC-10MUC	66.0	33.0	25.4	3/4	7.9
12	ASC-12MUC	69.4	34.7	24.6	3/4	9.5
16	ASC-16MUC	72.6	36.3	26.2	7/8	12.7
18	ASC-18MUC	79.0	39.5	29.4	1.1/16	15.1

Male Connector NPT MCN (Imperial Series)



Imperial Tubing													
Tube O.D inch	NPT thread	Part Number	A		C		D		R		W	Min bore	
			inch	mm	inch	mm	inch	mm	inch	mm	inch	inch	mm
1/16	1/16	ASC-1MC1N	0.92	9.7	0.43	10.9	0.78	19.8	0.38	9.7	5/16	0.05	1.3
1/16	1/8	ASC-1MC2N	0.98	24.9	0.43	10.9	0.84	21.3	0.38	9.7	7/16	0.05	1.3
1/16	1/4	ASC-1MC4N	1.20	30.5	0.43	10.9	1.06	26.9	0.56	14.2	9/16	0.05	1.3
1/8	1/16	ASC-2MC1N	1.16	29.5	0.60	15.2	0.91	23.1	0.38	9.7	3/8	0.09	2.3
1/8	1/8	ASC-2MC2N	1.16	29.5	0.60	15.2	0.91	23.1	0.38	9.7	7/16	0.09	2.3
1/8	1/4	ASC-2MC4N	1.38	35.1	0.60	15.2	1.13	28.7	0.56	14.2	9/16	0.09	2.3
1/8	3/8	ASC-2MC6N	1.41	35.8	0.60	15.2	1.15	29.2	0.56	14.2	11/16	0.09	2.3

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3/16	1/16	ASC-3MC1N	1.20	30.5	0.63	16.0	0.95	24.1	0.38	9.7	7/16	0.13	3.3
3/16	1/8	ASC-3MC2N	1.20	30.5	0.63	16.0	0.95	24.1	0.38	9.7	7/16	0.13	3.3
3/16	1/4	ASC-3MC4N	1.41	35.8	0.63	16.0	1.16	29.5	0.56	14.2	9/16	0.13	3.3
1/4	1/16	ASC-4MC1N	1.30	33.0	0.70	17.8	1.00	25.4	0.38	9.7	1/2	0.13	3.3
1/4	1/8	ASC-4MC2N	1.30	33.0	0.70	17.8	1.00	25.4	0.38	9.7	1/2	0.19	4.8
1/4	1/4	ASC-4MC4N	1.49	37.9	0.70	17.8	1.19	30.2	0.56	14.2	9/16	0.19	4.8
1/4	3/8	ASC-4MC6N	1.52	38.6	0.70	17.8	1.22	31.0	0.56	14.2	11/16	0.19	4.8
1/4	1/2	ASC-4MC8N	1.74	44.2	0.70	17.8	1.44	36.6	0.75	19.1	7/8	0.19	4.8
5/16	1/8	ASC-5MC2N	1.34	34.0	0.73	18.6	1.05	26.7	0.38	9.7	9/16	0.19	4.8
5/16	1/4	ASC-5MC4N	1.52	38.6	0.73	18.6	1.23	31.2	0.56	14.2	9/16	0.25	6.4
5/16	3/8	ASC-5MC6N	1.54	39.1	0.73	18.6	1.25	31.8	0.56	14.2	11/16	0.25	6.4
3/8	1/8	ASC-6MC2N	1.38	35.1	0.76	19.3	1.09	27.7	0.38	9.7	5/8	0.19	4.8
3/8	1/4	ASC-6MC4N	1.57	39.9	0.76	19.3	1.28	32.5	0.56	14.2	5/8	0.28	7.1
3/8	3/8	ASC-6MC6N	1.57	39.9	0.76	19.3	1.28	32.5	0.56	14.2	11/16	0.28	7.1
3/8	1/2	ASC-6MC8N	1.79	45.5	0.76	19.3	1.50	38.1	0.75	19.1	7/8	0.28	7.1
3/8	3/4	ASC-6MC12N	1.82	46.2	0.76	19.3	1.53	38.9	0.75	19.1	1.1/16	0.28	7.1
1/2	1/8	ASC-8MC2N	1.51	38.4	0.86	21.8	1.13	28.7	0.38	9.7	13/16	0.19	4.8
1/2	1/4	ASC-8MC4N	1.69	42.9	0.86	21.8	1.31	33.3	0.56	14.2	13/16	0.28	7.1
1/2	3/8	ASC-8MC6N	1.69	42.9	0.86	21.8	1.31	33.3	0.56	14.2	13/16	0.41	10.4
1/2	1/2	ASC-8MC8N	1.88	47.8	0.86	21.8	1.50	38.1	0.75	19.1	7/8	0.41	10.4
1/2	3/4	ASC-8MC12N	1.91	48.5	0.86	21.8	1.53	38.9	0.75	19.1	1.1/16	0.41	10.4
1/2	1	ASC-8MC16N	2.26	57.2	0.86	21.8	1.88	47.8	0.94	23.9	1.3/8	0.41	10.4
5/8	3/8	ASC-10MC6N	1.72	43.7	0.86	21.8	1.34	34.0	0.56	14.2	15/16	0.41	10.4
5/8	1/2	ASC-10MC8N	1.91	48.5	0.86	21.8	1.53	38.9	0.75	19.1	15/16	0.50	12.7

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5/8	3/4	ASC-10MC12N	1.91	48.5	0.86	21.8	1.53	38.9	0.75	19.1	1.1/16	0.50	12.7
3/4	1/2	ASC-12MC8N	1.97	50.0	0.86	21.8	1.59	40.4	0.75	19.1	1.1/16	0.50	12.7
3/4	3/4	ASC-12MC12N	1.97	50.0	0.86	21.8	1.59	40.4	0.75	19.1	1.1/16	0.63	16.
3/4	1	ASC-12MC16N	2.19	55.6	0.86	21.8	1.81	46.0	0.94	23.9	1.3/8	0.63	16.
7/8	3/4	ASC-14MC12N	1.97	50.0	0.86	21.8	1.59	40.4	0.75	19.1	1.3/16	0.72	18.3
1	1/2	ASC-16MC8N	2.25	57.2	1.04	26.4	1.78	45.2	0.75	19.1	1.3/8	0.50	12.7
1	3/4	ASC-16MC12N	2.25	57.2	1.04	26.4	1.78	45.2	0.75	19.1	1.3/8	0.72	18.3
1	1	ASC-16MC16N	2.44	62.0	1.04	26.4	1.97	50.0	0.94	23.9	1.3/8	0.88	22.2

Male Connector NPT-MMCN (Metric Series)

Metric tubing									
Tube O.D mm	NPT thread	Part Number	A	C	D	R	W inch	Min bore mm	
			mm	mm	mm	mm			
3	1/8	ASC-3MMC1/8N	29.7	15.3	23.1	9.5	7/16	2.4	
3	1/4	ASC-3MMC1/4N	35.3	15.3	28.7	14.3	9/16	2.4	
4	1/8	ASC-4MMC1/8N	30.4	16.1	23.8	9.5	7/16	3.0	
4	1/4	ASC-4MMC1/4N	36.0	16.1	29.4	14.3	9/16	3.0	
6	1/8	ASC-6MMC1/8N	32.9	17.7	25.4	9.5	1/2	3.2	
6	1/4	ASC-6MMC1/4N	37.7	17.7	30.2	14.3	9/16	4.8	
6	3/8	ASC-6MMC3/8N	38.5	17.7	31.0	14.3	11/16	4.8	
6	1/2	ASC-6MMC1/2N	44.0	17.7	36.5	19.1	7/8	4.8	
8	1/8	ASC-8MMC1/8N	34.2	18.6	26.7	9.5	9/16	4.8	
8	1/4	ASC-8MMC1/4N	38.7	18.6	31.2	14.3	9/16	6.4	

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8	3/8	ASC-8MMC3/8N	39.3	18.6	31.8	14.3	11/16	6.4
8	1/2	ASC-8MMC1/2N	44.8	18.6	37.3	19.1	7/8	6.4
10	1/4	ASC-10MMC1/4N	40.9	19.5	33.3	14.3	11/16	7.1
10	3/8	ASC-10MMC3/8N	40.9	19.5	33.3	14.3	11/16	7.9
10	1/2	ASC-10MMC1/2N	45.7	19.5	38.1	19.1	7/8	7.9
12	1/4	ASC-12MMC1/4N	43.4	22.0	33.3	14.3	13/16	7.1
12	3/8	ASC-12MMC3/8N	43.4	22.0	33.3	14.3	13/16	9.5
12	1/2	ASC-12MMC1/2N	48.2	22.0	38.1	19.1	7/8	9.5
12	3/4	ASC-12MMC3/4N	49.0	22.0	38.9	19.1	1.1/16	9.5
16	3/8	ASC-16MMC3/8N	44.2	22.0	34.1	14.3	15/16	10.3
16	1/2	ASC-16MMC1/2N	49.0	22.0	38.9	19.1	15/16	12.7
16	3/4	ASC-16MMC3/4N	49.0	22.0	38.9	19.1	1.1/16	12.7
18	1/2	ASC-18MMC1/2N	50.6	22.0	40.5	19.1	1.1/16	12.7
18	3/4	ASC-18MMC3/4N	50.6	22.0	40.5	19.1	1.1/16	15.1
20	1/2	ASC-20MMC1/2N	50.6	22.0	42.2	19.1	1.3/16	12.7
20	3/4	ASC-20MMC3/4N	52.3	22.0	42.2	19.1	1.3/16	15.9
25	3/4	ASC-25MMC3/4N	57.5	26.5	45.2	19.1	1.3/8	18.3
25	1	ASC-25MMC1N	62.3	26.5	50.0	23.8	1.3/8	22.2

Male Connector BSP : MCB & MMCB

Tube O.D	BSP Tr thread	Part Number	A		C		D		R		W	X		Min bore	
			inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	
inch											inch	inch	mm	inch	mm

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1/8	1/4	ASC-2MC4BP	1.27	32.3	0.60	15.2	1.13	28.7	0.44	11.2	3/4	0.70	17.8	0.09	2.3
1/4	1/8	ASC-4MC2BP	1.28	32.5	0.70	17.8	0.98	24.9	0.28	7.1	9/16	0.54	13.7	0.16	4.1
1/4	1/4	ASC-4MC4BP	1.49	37.9	0.70	17.8	1.19	30.2	0.44	11.2	3/4	0.70	17.8	0.19	4.8
1/4	3/8	ASC-4MC6BP	1.55	39.4	0.70	17.8	1.25	31.8	0.44	11.2	7/8	0.86	21.8	0.19	4.8
1/4	1/2	ASC-4MC8BP	1.77	45.0	0.70	17.8	1.47	37.3	0.56	14.2	1.1/16	1.01	25.7	0.19	4.8
3/8	1/8	ASC-6MC2BP	1.35	34.3	0.76	19.3	1.06	26.9	0.28	7.1	5/8	0.54	13.7	0.16	4.1
3/8	1/4	ASC-6MC4BP	1.54	39.1	0.76	19.3	1.25	31.8	0.44	11.2	3/4	0.70	17.8	0.25	6.4
3/8	3/8	ASC-6MC6BP	1.57	39.9	0.76										

Male Connector BSPP MCBP & MMCBP

Metric Tubing								
Tube O.D mm	NPT thread	Part Number	A	C	D	R	W	Min bore
			mm	mm	mm	mm	inch	mm
3	1/8	ASC-3MM1/8N	29.7	15.3	23.1	9.5	7/16	2.4
3	1/4	ASC-3MMC1/4N	35.3	15.3	28.7	14.3	9/16	2.4
4	1/8	ASC-4MMC1/8N	30.4	16.1	23.8	9.5	7/16	3.0
4	1/4	ASC-4MMC1/4N	36.0	16.1	29.4	14.3	9/16	3.0
6	1/8	ASC-6MMC1/8N	32.9	17.7	25.4	9.5	1/2	3.2
6	1/4	ASC-6MMC1/4N	37.7	17.7	30.2	14.3	9/16	4.8

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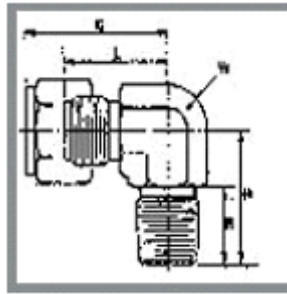
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6	3/8	ASC-6MMC3/8N	38.5	17.7	31.0	14.3	11/16	4.8
6	1/2	ASC-6MMC1/2N	44.0	17.7	36.5	19.1	7/8	4.8
8	1/8	ASC-8MMC1/8N	34.2	18.6	26.7	9.5	9/16	4.8
8	1/4	ASC-8MMC1/4N	38.7	18.6	31.2	14.3	9/16	6.4
8	3/8	ASC-8MMC3/8N	39.3	18.6	31.8	14.3	11/16	6.4
8	1/2	ASC-8MMC1/2N	44.8	18.6	37.3	19.1	7/8	6.4
10	1/4	ASC-10MMC1/4N	40.9	19.5	33.3	14.3	11/16	7.1
10	3/8	ASC-10MMC3/8N	40.9	19.5	33.3	14.3	11/16	7.9
10	1/2	ASC-10MMC1/2N	45.7	19.5	38.1	19.1	7/8	7.9
12	1/4	ASC-12MMC1/4N	43.4	22.0	33.3	14.3	13/16	7.1
12	3/8	ASC-12MMC3/8N	43.4	22.0	33.3	14.3	13/16	9.5
12	1/2	ASC-12MMC1/2N	48.2	22.0	38.1	19.1	7/8	9.5
12	3/4	ASC-12MMC3/4N	49.0	22.0	38.9	19.1	1.1/16	9.5
16	3/8	ASC-16MMC3/8N	44.2	22.0	34.1	14.3	15/16	10.3
16	1/2	ASC-16MMC1/2N	49.0	22.0	38.9	19.1	15/16	12.7
16	3/4	ASC-16MMC3/4N	49.0	22.0	38.9	19.1	1.1/16	12.7
18	1/2	ASC-18MMC1/2N	50.6	22.0	40.5	19.1	1.1/16	12.7
18	3/4	ASC-18MMC3/4N	50.6	22.0	40.5	19.1	1.1/16	15.1
20	1/2	ASC-20MMC1/2N	50.6	22.0	42.2	19.1	1.3/16	12.7
20	3/4	ASC-20MMC3/4N	52.3	22.0	42.2	19.1	1.3/16	15.9
25	3/4	ASC-25MMC3/4N	57.5	26.5	45.2	19.1	1.3/8	18.3
25	1	ASC-25MMC1N	62.3	26.5	50.0	23.8	1.3/8	22.2

Male Elbow NPT Imperial Series

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Imperial tubing

Tube O.D inch	NPT thread	Part Number	C		H		L		R		W	Min bore	
			inch	mm	inch	mm	inch	mm	inch	mm	inch	inch	mm
1/16	1/16	ASC-1ME1N	0.70	18.3	0.72	18.3	0.56	14.2	0.38	9.7	5/16	0.05	1.3
1/16	1/8	ASC-1ME2N	0.70	18.3	0.72	18.3	0.56	14.2	0.38	9.7	5/16	0.05	1.3
1/8	1/8	ASC-2ME2N	0.91	23.1	0.72	18.3	0.66	16.8	0.38	9.7	5/16	0.09	2.3
1/8	1/4	ASC-2ME4N	0.97	24.6	0.94	23.9	0.72	18.3	0.56	14.2	9/16	0.09	2.3
3/16	1/8	ASC-3ME2N	0.94	23.9	0.75	19.1	0.69	17.5	0.38	9.7	7/16	0.13	3.3
1/4	1/8	ASC-4ME2N	1.02	25.9	0.78	19.8	0.72	18.3	0.38	9.7	7/16	0.19	4.8
1/4	1/4	ASC-4ME4N	1.08	27.4	0.94	23.9	0.78	19.8	0.56	14.2	9/16	0.19	4.8
1/4	3/8	ASC-4ME6N	1.18	30.0	1.13	28.7	0.88	22.4	0.56	14.2	3/4	0.19	4.8
1/4	1/2	ASC-4ME8N	1.27	32.3	1.31	33.3	0.97	24.6	0.75	19.1	7/8	0.19	4.8
5/16	1/8	ASC-5ME2N	1.10	27.9	0.81	20.6	0.81	20.6	0.38	9.7	9/16	0.19	4.8
5/16	1/4	ASC-5ME4N	1.10	27.9	1.00	25.4	0.81	20.6	0.56	14.2	9/16	0.25	6.4
5/16	3/8	ASC-5ME6N	1.23	31.2	1.13	28.7	0.94	23.9	0.56	14.2	3/4	0.25	6.4
3/8	1/8	ASC-6ME2N	1.13	26.7	0.88	22.4	0.84	21.3	0.38	9.7	9/16	0.19	4.8
3/8	1/4	ASC-6ME4N	1.13	28.7	1.00	25.4	0.84	21.3	0.56	14.2	9/16	0.28	7.1
3/8	3/8	ASC-6ME6N	1.26	32.0	1.13	28.7	0.97	24.6	0.56	14.2	3/4	0.28	7.1
3/8	1/2	ASC-6ME8N	1.32	33.5	1.03	26.2	1.03	26.2	0.75	19.1	7/8	0.28	7.1
1/2	1/4	ASC-8ME4N	1.35	34.3	1.13	28.7	0.97	24.6	0.56	14.2	3/4	0.28	7.1

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1/2	3/8	ASC-8ME6N	1.35	34.3	1.13	28.7	0.97	24.6	0.56	14.2	3/4	0.41	10.4
1/2	1/2	ASC-8ME8N	1.41	35.8	1.31	33.3	1.03	26.2	0.75	19.1	7/8	0.41	10.4
1/2	3/4	ASC-8ME12N	1.54	39.1	1.50	38.1	1.16	29.5	0.75	19.1	1.1/16	0.41	10.4
5/8	3/8	ASC-10ME6N	1.41	35.8	1.25	31.8	1.03	26.2	0.56	14.2	7/8	0.41	10.4
5/8	1/2	ASC-10ME8N	1.44	36.6	1.34	34.0	1.06	26.9	0.75	19.1	7/8	0.50	12.7
3/4	1/2	ASC-12ME8N	1.54	39.1	1.50	38.1	1.16	29.5	0.75	19.1	1.1/16	0.50	12.7
3/4	3/4	ASC-12ME12N	1.54	39.1	1.50	38.1	1.16	29.5	0.75	19.1	1.1/16	0.63	16
7/8	3/4	ASC-14ME12N	1.66	42.2	1.50	38.1	1.28	32.5	0.75	19.1	1.5/16	0.72	18.3
1	3/4	ASC-16ME12N	1.78	45.2	1.66	42.2	1.31	33.3	0.75	19.1	1.5/16	0.72	18.3
1	1	ASC-16ME16N	1.77	45.2	1.84	46.7	1.31	33.3	0.94	23.9	1.5/16	0.88	22.4

Male Elbow NPT (Metric Series)

Metric tubing								
Tube O.D mm	NPT thread	Part Number	C	H	L	R	W	Min bore
			mm	mm	mm	mm	inch	mm
3	1/8	ASC-3MME1/8N	23.3	18.3	16.7	9.7	5/16	2.4
3	1/4	ASC-3MME1/4N	24.9	23.8	18.3	14.2	9/16	2.4
4	1/8	ASC-4MME1/8N	24.1	18.3	17.5	9.7	5/16	3.0
4	1/4	ASC-4MME1/4N	25.7	23.8	19.1	14.2	9/16	3.0
6	1/8	ASC-6MME1/8N	25.8	19.8	18.3	9.7	7/16	4.8
6	1/4	ASC-6MME1/4N	27.3	23.8	19.8	14.2	9/16	4.8

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6	3/8	ASC-6MME3/8N	29.7	28.6	22.2	14.2	3/4	4.8
6	1/2	ASC-6MME1/2N	32.1	33.3	24.6	19.1	7/8	4.8
8	1/4	ASC-8MME1/4N	28.1	25.4	20.6	14.2	9/16	6.4
8	3/8	ASC-8MME3/8N	31.4	28.7	23.9	14.2	3/4	6.4
10	1/4	ASC-10MME1/4N	33.0	28.6	25.4	14.2	3/4	7.1
10	3/8	ASC-10MME3/8N	33.0	28.6	25.4	14.2	3/4	7.9
10	1/2	ASC-10MME1/2N	33.8	33.3	26.2	19.1	7/8	7.9
12	1/4	ASC-12MME1/4N	34.7	28.6	24.6	14.2	3/4	7.1
12	3/8	ASC-12MME3/8N	34.7	28.6	24.6	14.2	3/4	9.5
12	1/2	ASC-12MME1/2N	36.3	33.3	26.2	19.1	7/8	9.5
12	3/4	ASC-12MME3/4N	39.5	38.1	29.4	19.1	1.1/16	9.5
16	3/8	ASC-16MME3/8N	36.3	31.8	26.2	14.2	7/8	10.3
16	1/2	ASC-16MME1/2N	37.1	34.1	27.0	19.1	7/8	12.7
16	3/4	ASC-16MME3/4N	39.5	38.1	29.4	19.1	1.1/16	12.7
18	1/2	ASC-18MME1/2N	39.5	38.1	29.4	19.1	1.1/16	12.7
18	3/4	ASC-18MME3/4N	39.5	38.1	29.4	19.1	1.1/16	15.1
20	1/2	ASC-20MME1/2N	42.6	42.2	32.5	19.1	1.5/16	12.7
20	3/4	ASC-20MME3/4N	42.6	42.2	32.5	19.1	1.5/16	15.9
25	3/4	ASC-25MME3/4N	45.6	42.1	33.3	19.1	1.5/16	18.3
25	1	ASC-25MME1N	45.6	46.8	33.3	23.9	1.5/16	22.2

Male Elbow NPT BSP : MEB & MMEB

Imperial Tubing

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Tube O.D inch	BSP Tr thread	Part Number	C		H		L		R		W inch	Min bore	
inch	mm	inch	mm	inch	mm	inch	mm	inch	mm				
1/4	1/8	ASC-4ME2B	1.02	25.9	0.78	19.8	0.72	18.3	0.38	9.7	7/16	0.19	4.8
1/4	1/4	ASC-4ME4B	1.08	27.4	0.94	23.9	0.78	19.8	0.56	14.2	9/16	0.19	4.8
3/8	1/4	ASC-6ME4B	1.13	28.7	1.00	25.4	0.84	21.3	0.56	14.2	9/16	0.28	7.1
3/8	3/8	ASC-6ME6B	1.26	32.0	1.25	31.8	0.97	24.6	0.56	14.2	3/4	0.28	7.1
1/2	1/4	ASC-8ME4B	1.35	34.3	1.25	31.8	0.97	24.6	0.56	14.2	3/4	0.28	7.1
1/2	1/2	ASC-8ME8B	1.41	35.8	1.31	33.3	1.03	26.2	0.75	19.1	7/8	0.41	10.4

Metric tubing

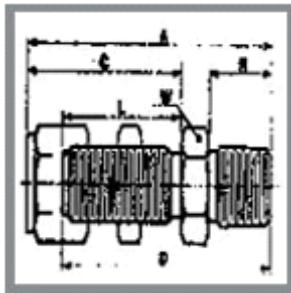
Tube O.D mm	BSP Tr thread	Part Number	C	H	L	R	W	Min bore
			mm	mm	mm	mm	inch	mm
3	1/8	ASC-3MME1/8B	23.3	18.3	16.7	9.7	5/16	2.4
4	1/8	ASC-4MME1/8B	24.1	18.3	17.5	9.7	5/16	2.4
6	1/8	ASC-6MME1/8B	25.8	19.8	18.3	9.7	7/16	4.8
6	1/4	ASC-6MME1/4B	27.3	23.8	19.8	14.2	9/16	4.8
6	3/8	ASC-6MME3/8B	29.7	28.6	22.2	14.2	3/4	4.8
6	1/2	ASC-6MME1/2B	32.1	33.3	24.6	19.1	7/8	4.8
8	1/4	ASC-8MME1/4B	28.1	25.4	20.6	14.2	9/16	6.4
10	1/8	ASC-10MME1/8B	33.0	23.0	25.4	9.7	3/4	4.8
10	1/4	ASC-10MME1/4B	33.0	28.6	25.4	14.2	3/4	7.1
10	3/8	ASC-10MME3/8B	33.0	28.6	25.4	14.2	3/4	7.9
10	1/2	ASC-10MME1/2B	33.8	33.3	26.2	19.1	7/8	7.9

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12	1/4	ASC-12MME1/4B	34.7	28.6	24.6	14.2	3/4	7.1
12	3/8	ASC-12MME3/8B	34.7	28.6	24.6	14.2	3/4	9.5
12	1/2	ASC-12MME1/2B	36.3	33.3	26.2	19.1	7/8	9.5
16	3/8	ASC-16MME3/8B	36.3	31.8	26.2	14.2	7/8	10.3
16	1/2	ASC-16MME1/2B	37.1	34.1	27.0	19.1	7/8	12.7
18	1/2	ASC-18MME1/2B	39.5	38.1	29.4	19.1	1.1/16	12.7
18	3/4	ASC-18MME3/4B	39.5	38.1	29.4	19.1	1.1/16	15.1
20	3/4	ASC-20MME3/4B	42.6	42.2	32.5	19.1	1.5/16	15.9
25	1	ASC-25MME1B	45.6	46.8	33.3	23.9	5/16	22.2

Male Bulkhead Connector



Imperial tubing																		
Tub e O. D	NPT threa d	Part Numbe r	A		C		D		L		R		W	B'hea d hole drill size	Max b'head thichne ss	Min bore		
			inch	mm	inc h	m m	inc h	m m	inc h	mm	inc h	m m				inch	inc h	m m
/16	1/16	ASC-1MBC1N	1.55	39.4	0.67	17.0	1.41	35.8	0.53	13.5	0.38	9.7	5/16	13/64	0.12	0.05	1.3	1.3
1/16	1/8	ASC-1MBC2N	1.55	39.4	0.67	17.0	1.41	35.8	0.53	13.5	0.38	9.7	7/16	13/64	0.12	0.05	1.3	1.3
1/8	1/8	ASC-2MBC2N	1.81	46.0	1.22	31.0	1.56	39.6	0.97	24.6	0.38	9.7	1/2	21/64	0.50	0.09	2.3	2.3
3/16	1/8	ASC-3MBC2	1.84	46.7	1.25	31.8	1.59	40.4	1.00	25.4	0.38	9.7	9/16	25/64	0.50	0.13	3.3	3.3

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		N																
1/4	1/8	ASC-4MBC2N	1.96	50.0	1.33	33.8	1.66	42.2	1.03	26.2	0.38	9.7	5/8	29/64	0.40	0.19	4.8	4.8
1/4	1/4	ASC-4MBC4N	2.11	53.6	1.33	33.8	1.81	46.0	1.03	26.2	0.56	14.2	5/8	29/64	0.40	0.19	4.8	4.8
1/4	3/8	ASC-4MBC6N	2.18	55.4	1.33	33.8	1.88	47.8	1.03	26.2	0.56	14.2	11/16	29/64	0.40	0.19	4.8	4.8
1/4	1/2	ASC-4MBC8N	2.49	63.3	1.33	33.8	2.19	55.6	1.03	26.2	0.75	19.1	7/8	29/64	0.40	0.19	4.8	4.8
3/8	1/8	ASC-6MBC2N	2.10	53.3	1.45	36.8	1.81	46.0	1.16	29.5	0.38	9.7	3/4	37/64	0.44	0.19	4.8	4.8
3/8	1/4	ASC-6MBC4N	2.26	57.4	1.45	36.8	1.97	50.0	1.16	29.5	0.56	14.2	3/4	37/64	0.44	0.28	7.1	7.1
3/8	3/8	ASC-6MBC6N	2.26	57.4	1.45	36.8	1.97	50.0	1.16	29.5	0.56	14.2	3/4	37/64	0.44	0.28	7.1	7.1
3/8	1/2	ASC-6MBC8N	2.60	66.0	1.45	36.8	2.31	58.7	1.16	29.5	0.75	19.1	7/8	37/64	0.44	0.28	7.1	7.1
1/2	3/8	ASC-8MBC6N	2.52	64.0	1.63	41.4	2.14	54.4	1.25	31.8	0.56	14.2	15/16	49/64	0.50	0.41	10.4	10.4
1/2	1/2	ASC-8MBC8N	2.66	67.6	1.63	41.4	2.28	57.9	1.25	31.8	0.75	19.1	15/16	49/64	0.50	0.41	10.4	10.4

Metric tubing

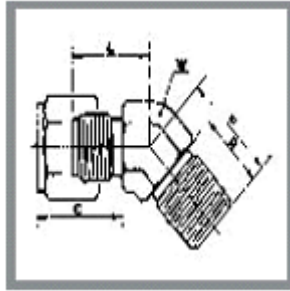
	Tube O.D mm	NPT thread	Part Number	A	C	D	L	R	W	B'head hole drill size mm	Max b'head thickness inch	Min bore mm	
				m	m	m	m	m	inch				
	6	1/8	ASC-6MBC1/8N	49.6	33.7	42.1	26.2	9.5	5/8	11.5	10.2	4.8	
	6	1/4	ASC-6MBC1/4N	53.5	33.7	46.0	26.2	14.3	5/8	11.5	10.2	4.8	
	8	1/8	ASC-8MBC1/8N	52.3	36.0	44.8	28.5	9.5	11/16	13.1	11.2	4.8	
	8	1/4	ASC-8MBC1/4N	57.5	36.0	50.0	28.5	14.3	11/16	13.1	11.2	6.4	
	10	1/4	ASC-10MBC1/4N	58.4	37.0	50.8	29.4	14.3	13/16	16.3	11.2	7.1	
	10	3/8	ASC-10MBC3/8N	58.4	37.0	50.8	29.4	14.3	13/16	16.3	11.2	7.9	
	10	1/2	ASC-10MBC1/2N	63.1	37.0	55.5	29.4	19.0	7/8	16.3	11.2	7.9	

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12	1/4	ASC-12MBC1/4N	63.3	10.1	53.2	31.8	14.3	15/16	19.5	12.7	7.1
12	3/8	ASC-12MBC3/8N	64.5	10.1	54.4	31.8	14.3	15/16	19.5	12.7	9.5
12	1/2	ASC-12MBC1/2N	67.5	10.1	57.4	31.8	19.0	15/16	19.5	12.7	9.5

Male Elbow 45 Degree



Imperial Tubing														
Tube O.D inch	NPT thread	Part Number	C		L		P		R			W inch	Min bore	
			inch	mm	inch	mm	inch	mm	inch	mm	mm		inch	mm
1/16	1/16	ASC-1MET1N	0.58	14.7	0.44	11.2	0.56	14.2	0.38	9.7	9.7	3/8	0.05	1.3
1/8	1/8	ASC-2MET2N	0.78	19.8	0.53	13.5	0.52	13.2	0.38	9.7	9.7	7/16	0.09	2.3
3/16	1/8	ASC-3MET2N	0.81	20.6	0.56	14.2	0.58	14.7	0.38	9.7	9.7	7/16	0.13	3.3
1/4	1/8	ASC-4MET2N	0.93	23.6	0.63	16.0	0.66	16.8	0.38	9.7	9.7	9/16	0.19	4.8
1/4	1/4	ASC-4MET4N	0.96	24.4	0.66	16.8	0.86	21.8	0.56	14.2	14.2	9/16	0.19	4.8
5/16	1/8	ASC-5MET2N	0.95	24.1	0.66	16.8	0.66	16.8	0.38	9.7	9.7	9/16	0.19	4.8

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3/8	1/4	ASC-6MET4N	1.01	25.7	0.7 2	18. 3	0.86	21. 8	0.5 6	14. 2	14. 2	9/16	0.2 8	7.1
1/2	3/8	ASC-8MET6N	1.13	28.7	0.7 5	19. 1	0.95	24. 1	0.5 6	14. 2	14. 2	3/4	0.4 1	10
5/8	1/2	ASC-10MET8N	1.19	30.2	0.8 1	20. 6	1.17	29. 7	0.7 5	19. 1	19. 1	7/8	0.5 0	13
3/4	3/4	ASC-12MET12N	1.22	31.0	0.8 4	21. 3	1.20	30. 5	0.7 5	19. 1	19. 1	1.1/1 6	0.6 3	16
7/8	3/4	ASC-14MET12N	1.32	33.5	0.9 4	23. 9	1.27	32. 3	0.7 5	19. 1	19. 1	1.5/1 6	0.7 2	18
1	1	ASC-1MET1N	1.66	42.2	1.1 9	30. 2	1.48	37. 6	0.9 4	23. 9	23. 9	1.5/1 6	0.8 8	22

Metric Tubing

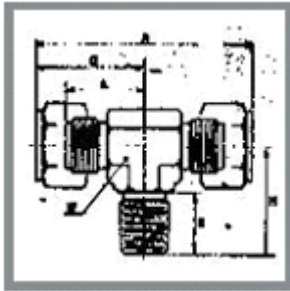
	Tube O.D mm	NPT threa d	Part Number	C	L	P	R	W inch	Min bore mm	
				m m	m m	m m	m m			
	6	1/8	ASC-6MMET1/8N	17. 7	16. 0	16. 8	9.5	9/16	4.8	
	6	1/4	ASC-66MMET1/4N	17. 7	16. 0	21. 8	14. 3	9/16	4.8	
	8	1/8	ASC-8MMET1/8N	18. 6	16. 8	16. 8	9.5	9/16	4.8	
	10	1/4	ASC-10MMET1/4N	19. 5	19. 0	24. 1	14. 3	3/4	7.1	
	12	3/8	ASC-12MMET3/8	22. 0	19. 0	24. 1	14. 3	3/4	9.5	

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			8N						
	12	1/2	ASC-12MMET1/2N	22.0	20.6	29.7	19.0	7/8	9.5
	16	1/2	ASC-16MMET1/2N	22.0	20.6	29.7	19.0	7/8	12.7

Male Run Tee



Imperial Tubing														
Tube O.D inch	NPT thread	Part Number	C		L		P		R			W inch	Min bore	
			inch	mm	inch	mm	inch	mm	inch	mm	mm		inch	mm
1/16	1/16	ASC-1MET1N	0.58	14.7	0.44	11.2	0.56	14.2	0.38	9.7	9.7	3/8	0.05	1.3
1/8	1/8	ASC-2MET2N	0.78	19.8	0.53	13.5	0.52	13.2	0.38	9.7	9.7	7/16	0.09	2.3
3/16	1/8	ASC-3MET2N	0.81	20.6	0.56	14.2	0.58	14.7	0.38	9.7	9.7	7/16	0.13	3.3
1/4	1/8	ASC-4MET2N	0.93	23.6	0.63	16.0	0.66	16.8	0.38	9.7	9.7	9/16	0.19	4.8
1/4	1/4	ASC-4MET4N	0.96	24.4	0.66	16.8	0.86	21.8	0.56	14.2	14.2	9/16	0.19	4.8

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5/16	1/8	ASC-5MET2N	0.95	24.1	0.66	16.8	0.66	16.8	0.38	9.7	9.7	9/16	0.19	4.8
3/8	1/4	ASC-6MET4N	1.01	25.7	0.72	18.3	0.86	21.8	0.56	14.2	14.2	9/16	0.28	7.1
1/2	3/8	ASC-8MET6N	1.13	28.7	0.75	19.1	0.95	24.1	0.56	14.2	14.2	3/4	0.41	10
5/8	1/2	ASC-10MET8N	1.19	30.2	0.81	20.6	1.17	29.7	0.75	19.1	19.1	7/8	0.50	13
3/4	3/4	ASC-12MET12N	1.22	31.0	0.84	21.3	1.20	30.5	0.75	19.1	19.1	1.1/16	0.63	16
7/8	3/4	ASC-14MET12N	1.32	33.5	0.94	23.9	1.27	32.3	0.75	19.1	19.1	1.5/16	0.72	18
1	1	ASC-1MET1N	1.66	42.2	1.19	30.2	1.48	37.6	0.94	23.9	23.9	1.5/16	0.88	22

Metric Tubing

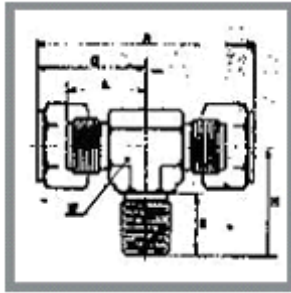
Tube O.D mm	NPT thread	Part Number	C	L	P	R	W inch	Min bore mm
			m m	m m	m m	m m		
6	1/8	ASC-6MMET1/8N	17.7	16.0	16.8	9.5	9/16	4.8
6	1/4	ASC-6MMET1/4N	17.7	16.0	21.8	14.3	9/16	4.8
8	1/8	ASC-8MMET1/8N	18.6	16.8	16.8	9.5	9/16	4.8
10	1/4	ASC-10MMET1/4N	19.5	19.0	24.1	14.3	3/4	7.1

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	12	3/8	ASC-12MMET3/8N	22.0	19.0	24.1	14.3	3/4	9.5
	12	1/2	ASC-12MMET1/2N	22.0	20.6	29.7	19.0	7/8	9.5
	16	1/2	ASC-16MMET1/2N	22.0	20.6	29.7	19.0	7/8	12.7

Male Branch Tee



Imperial Tubing																
Tube O.D inch	NPT thread	Part Number	A		C		H		L		R		W inch	Min bore		Min. Bore
			inch	mm	inch	mm	inch	mm	inch	mm	inch	mm		inch	mm	
1/8	1/8	ASC-2MBT2N	1.82	46.2	0.91	23.1	0.72	18.3	0.66	16.8	0.34	8.6	5/16	0.09	0.09	2.3
3/16	1/8	ASC-3MBT2N	1.88	47.8	0.94	24.6	0.75	19.1	0.69	17.5	0.38	9.7	7/16	0.13	0.13	3.3
1/4	1/8	ASC-4MBT2N	2.03	51.6	1.02	25.9	0.78	19.8	0.72	18.3	0.38	9.7	7/16	0.19	0.19	4.8
1/4	1/4	ASC-4MBT4N	2.15	54.6	1.08	27.4	0.94	23.9	0.78	19.5	0.56	14.2	9/16	0.19	0.19	4.8
5/16	1/8	ASC-5MBT2N	2.21	56.1	1.10	27.9	0.81	20.6	0.81	20.6	0.38	9.7	9/16	0.19	0.19	4.8
5/16	1/4	ASC-5MBT4N	2.21	56.1	1.10	27.9	1.00	25.4	0.81	20.6	0.56	14.2	9/16	0.25	0.25	6.4
3/8	1/4	ASC-6MBT4N	2.27	57.7	1.13	28.9	1.00	25.4	0.83	21.3	0.56	14.2	9/16	0.28	0.28	7.1
3/8	3/8	ASC-6MBT6N	2.53	64.3	1.26	32.0	1.13	28.7	0.97	24.6	0.56	14.2	3/4	0.28	0.28	7.1
1/2	3/8	ASC-8MBT6N	2.71	68.8	1.35	34.3	1.13	28.7	0.97	24.6	0.56	14.2	3/4	0.41	0.41	10
1/2	1/2	ASC-8MBT8N	2.83	71.9	1.41	35.8	1.31	33.3	1.03	26.6	0.75	19.1	7/8	0.41	0.41	10

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5/8	1/2	ASC-10MBT8N	2.89	73.4	1.44	36.6	1.34	34.0	1.08	26.9	0.75	19.1	7/8	0.50	0.5	13
3/4	3/4	ASC-12MBT12N	3.09	78.5	1.54	39.1	1.50	38.1	1.16	29.5	0.75	19.1	1.1/16	0.63	0.63	16
7/8	3/4	ASC-14MBT12N	3.33	84.6	1.66	42.2	1.50	38.1	1.28	32.5	0.75	19.1	1.5/16	0.72	0.72	18
1	3/4	ASC-16MBT12N	3.56	90.4	1.78	45.2	1.66	42.2	1.31	33.3	0.75	19.1	1.5/16	0.72	0.72	18
1	1	ASC-16MBT16N	3.56	90.4	1.78	45.2	1.84	46.7	1.31	33.3	0.94	23.9	1.5/16	0.88	0.88	22

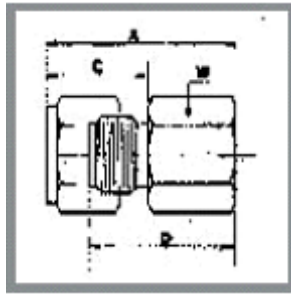
Metric Tubing

	Tub e O.D mm	NPT threa d	Part Number	A	C	H	L	R	W inc h	Min bore mm	
				mm	mm	mm	mm	mm			
	6	1/8	ASC-6MMBT1/8N	51.6	25.8	19.8	18.3	9.7	7/16	4.8	
	6	1/4	ASC-6MMBT1/4N	54.6	27.3	23.8	19.8	14.2	9/16	4.8	
	8	1/8	ASC-8MMBT1/8N	56.2	28.1	20.6	20.6	9.7	9/16	4.8	
	8	1/4	ASC-8MMBT1/4N	56.2	28.1	25.4	20.6	14.2	9/16	6.4	
	10	1/4	ASC-10MMBT1/4N	66.0	33.0	28.6	25.4	14.2	3/4	7.9	
	10	3/8	ASC-10MMBT3/8N	66.0	33.0	28.6	25.4	14.2	3/4	7.9	
	12	1/4	ASC-12MMBT1/4N	69.4	34.7	28.6	24.6	14.2	3/4	9.5	
	12	3/8	ASC-12MMBT3/8N	69.4	34.7	28.6	24.6	14.2	3/4	9.5	
	12	1/2	ASC-12MMBT1/2N	72.6	36.3	33.3	26.2	19.1	7/8	9.5	

Female Connector BSP / BSPP

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Imperial Tubing											
Tube O.D inch	NPT thread	Part Number	A		C		D		W inch	Min bore	
			inch	mm	inch	mm	inch	mm		inch	mm
1/16	1/16	ASC-1FC1N	0.92	23.4	0.43	10.9	0.78	19.8	7/16	0.05	1.3
1/16	1/8	ASC-1FC2N	0.95	24.1	0.43	10.9	0.81	20.6	9/16	0.05	1.3
1/8	1/8	ASC-2FC2N	1.13	28.7	0.60	15.2	0.88	22.4	9/16	0.09	2.3
1/8	1/4	ASC-2FC4N	1.31	33.3	0.60	15.2	1.06	26.9	3/4	0.09	2.3
3/16	1/8	ASC-3FC2N	1.16	29.5	0.63	16.0	0.91	23.1	9/16	0.13	3.3
3/16	1/4	ASC-3FC4N	1.28	32.5	0.63	16.0	1.03	26.2	3/4	0.13	3.3
1/4	1/8	ASC-4FC2N	1.24	26.6	0.70	17.8	0.94	23.9	9/16	0.19	4.8
1/4	1/4	ASC-4FC4N	1.43	36.3	0.70	17.8	1.13	28.7	3/4	0.19	4.8
1/4	3/8	ASC-4FC6N	1.49	37.9	0.70	17.8	1.19	30.2	7/8	0.19	4.8
1/4	1/2	ASC-4FC8N	1.71	43.4	0.70	17.8	1.41	35.8	1.1/16	0.19	4.8
5/16	1/8	ASC-5FC2N	1.26	32.0	0.73	18.6	0.97	24.6	9/16	0.25	6.4
5/16	1/4	ASC-5FC4N	1.45	36.8	0.73	18.6	1.16	29.5	3/4	0.25	6.4

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5/16	3/8	ASC-5FC6N	1.51	38.4	0.73	18.6	1.22	31.0	7/8	0.25	6.4
3/8	1/8	ASC-6FC2N	1.29	32.8	0.76	19.3	1.00	25.4	5/8	0.28	7.1
3/8	1/4	ASC-6FC4N	1.48	37.6	0.76	19.3	1.19	30.2	3/4	0.28	7.1
3/8	3/8	ASC-6FC6N	1.54	39.1	0.76	19.3	1.25	31.8	7/8	0.28	7.1
3/8	1/2	ASC-6FC8N	1.73	43.9	0.76	19.3	1.44	36.6	1.1/16	0.28	7.1
1/2	1/4	ASC-8FC4N	1.63	41.4	0.86	21.8	1.25	31.8	13/16	0.41	10.4
1/2	3/8	ASC-8FC6N	1.63	41.4	0.86	21.8	1.25	31.8	7/8	0.41	10.4
1/2	1/2	ASC-8FC8N	1.82	46.2	0.86	21.8	1.44	36.6	1.1/16	0.41	10.4
1/2	3/4	ASC-8FC12N	1.88	47.8	0.86	21.8	1.50	38.1	1.5/16	0.41	10.4
5/8	3/8	ASC-10FC6N	1.63	41.4	0.86	21.8	1.25	31.8	15/16	0.50	12.7
5/8	1/2	ASC-10FC8N	1.82	46.2	0.86	21.8	1.44	36.6	1.1/16	0.50	12.7
3/4	1/2	ASC-12FC12N	1.82	46.2	0.86	21.8	1.44	36.6	1.1/16	0.63	16
3/4	3/4		1.88	47.8	0.86	21.8	1.50	38.1	1.5/16	0.63	16
7/8	3/4	ASC-14FC12N	1.94	49.3	0.86	21.8	1.56	39.6	1.3/8	0.75	19.1
1	3/4	ASC-16FC12N	2.10	53.3	1.04	26.4	1.63	41.4	1.3/8	0.88	22.4
1	1	ASC-16FC16N	2.44	62.0	1.04	26.4	1.97	50.0	1.5/8	0.88	22.4

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Female Connector NPT Metric Series

Metric tubing							
Tube O.D(mm)	NPT Thread	Part Number	A	C	D	W(inch)	Min bore (mm)
			mm	mm	mm		
3	1/8	ASC-3MFC1/8N	28.8	15.3	22.2	9/16	2.4
3	1/4	ASC-3MFC1/4N	33.6	15.3	27.0	3/4	2.4
4	1/8	ASC-4MFC1/8N	29.6	16.1	23.0	9/16	3.0
6	1/8	ASC-6MFC1/8N	31.3	17.7	23.8	9/16	4.8
6	1/4	ASC-6MFC1/4N	36.1	17.7	28.6	3/4	4.8
6	3/8	ASC-6MFC3/8N	37.7	17.7	30.2	7/8	4.8
8	1/8	ASC-8MFC1/8N	32.1	18.6	24.6	9/16	6.4
8	1/4	ASC-8MFC1/4N	36.9	18.6	29.4	3/4	6.4
8	3/8	ASC-8MFC3/8N	38.5	18.6	31.0	7/8	6.4
10	1/4	ASC-10MFC1/4N	37.8	19.5	30.2	3/4	7.9
10	3/8	ASC-10MFC3/8N	39.4	19.5	31.8	7/8	7.9
10	1/2	ASC-10MFC1/2N	44.1	19.5	36.5	1.1/16	7.9
12	1/4	ASC-12MFC1/4N	41.9	22.0	31.8	13/16	9.5
12	3/8	ASC-12MFC3/8N	41.9	22.0	31.8	7/8	9.5
12	1/2	ASC-12MFC1/2N	46.6	22.0	36.5	1.1/16	9.5
16	3/8	ASC-16MFC3/8N	41.9	22.0	31.8	1.5/16	12.7
16	1/2	ASC-16MFC1/2N	46.6	22.0	36.5	1.1/16	12.7
20	1/2	ASC-16MFC1/2N	47.9	22.0	37.8	1.3/16	15.9
20	3/4	ASC-16MFC3/4N	49.7	22.0	39.6	1.3/8	15.9
25	3/4	ASC-16MFC3/4N	53.6	26.5	41.3	1.3/8	22.2
25	1	ASC-25MFC1N	62.3	26.5	50.0	1.5/8	22.2

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Female Connector BSP / BSPP

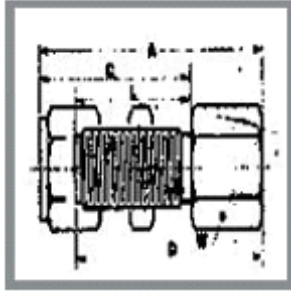
Imperial Tubing											
Tube O.D(inch)	BSP Tr thread	Part Number	A		C		D		W (inch)	Min (bore)	
			inch	mm	inch	mm	inch	mm		inch	mm
1/4	1/8	ASC-4FC2B	1.27	32.3	0.70	17.8	0.97	24.6	9/16	0.19	4.8
1/4	1/4	ASC-4FC4B	1.39	35.3	0.70	17.8	1.09	27.7	3/4	0.19	4.8
1/4	3/8	ASC-4FC6B	1.52	38.6	0.70	17.8	1.22	31.0	7/8	0.19	4.8
1/4	1/2	ASC-4FC8B	1.68	42.7	0.70	17.8	1.38	35.1	1.1/16	0.19	4.8
GCR – BSPP Gauge connector											
Metric tubing											
Tube O.D(mm)	BSPP thread	Part Number	A	C	D	P	W(inch)	Min bore			
mm	mm	mm	mm	mm							
6	1/4	ASC-6MFC1/4BP	37.7	17.7	30.2	5.2	3/4	4.8			
6	3/8	ASC-6MFC3/8BP	37.7	17.7	30.2	6.5	7/8	4.8			
6	1/2	ASC-6MFC1/2BP	43.2	17.7	35.7	7.0	1.1/16	4.8			
8	1/4	ASC-8MFC1/4BP	38.5	18.6	31.0	5.2	3/4	5.2			
8	3/8	ASC-8MFC3/8BP	40.8	18.6	33.3	6.5	7/8	6.5			
8	1/2	ASC-8MFC1/2BP	44.0	18.6	36.5	7.0	1.1/16	6.4			
10	1/4	ASC-10MFC1/4BP	39.4	19.5	31.8	5.2	3/4	5.2			
10	3/8	ASC-10MFC3/8BP	38.8	19.5	31.2	6.5	7/8	6.5			
10	1/2	ASC-10MFC1/2BP	41.3	19.5	33.7	7.0	1.1/16	7.0			
12	1/4	ASC-12MFC1/4BP	41.9	22.0	31.8	5.2	13/16	5.2			
12	3/8	ASC-12MFC3/8BP	44.4	22.0	34.3	6.5	7/8	6.5			

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12	1/2	ASC-12MFC1/2BP	48.2	22.0	38.1	7.0	1.1/16	7.0
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Female Bulkhead Connector



Imperial tubing															
Tube O.D (inch)	NPT thread	Part Number	A		C		D		L		W(inch)	B'head hole drill size(inch)	Max b'head thickness (inch)	Min bore	
			(inch)	(mm)	inch	mm	inch	mm	inch	mm				inch	mm
1/8	1/8	ASC-2FBC2N	1.75	44.5	1.22	31.0	1.50	38.1	0.97	24.6	9/16	21/64	0.50	0.09	2.3
3/16	1/8	ASC-3FBC2N	1.78	45.2	1.25	31.8	1.53	38.9	1.00	25.4	9/16	25/64	0.50	0.13	3.3
1/4	1/8	ASC-4FBC2N	1.86	47.2	1.33	33.8	1.56	39.6	1.03	26.2	5/8	29/64	0.40	0.19	4.8
1/4	1/4	ASC-4FBC4N	2.05	52.1	1.33	33.8	1.75	44.5	1.03	26.2	3/4	29/64	0.40	0.19	4.8
5/16	1/8	ASC-5FBC2N	1.95	49.5	1.41	35.8	1.66	42.2	1.12	28.5	11/16	33/64	0.44	0.25	6.4
5/16	1/2	ASC-5FBC8N	2.38	60.5	1.41	35.8	2.09	53.7	1.12	28.5	1.1/16	33/64	0.44	0.25	6.4
3/8	1/4	ASC-8FBC4N	2.17	55.1	1.45	36.8	1.88	47.8	1.16	29.5	3/4	37/64	0.44	0.28	7.1
1/2	3/8	ASC-8FBC6N	2.41	61.2	1.63	41.4	2.03	51.6	1.25	31.8	7/8	49/64	0.50	0.41	10
1/2	1/2	ASC-8FBC8N	2.60	66.0	1.63	41.4	2.22	56.4	1.25	31.8	1.1/16	49/64	0.50	0.41	10

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3/4	3/4	ASC-12FBC12N	2.88	73.2	1.85	47.0	2.50	63.5	1.47	37.3	1.3/8	1.1/64	0.66	0.63	16
7/8	3/4	ASC-14FBC12N	3.16	80.3	2.07	52.6	2.78	70.6	1.69	42.9	1.3/8	1.9/64	0.75	0.75	19
1	1	ASC-16FBC16N	3.66	93.0	2.25	57.2	3.19	81.0	1.78	45.2	1.5/8	1.2/64	0.75	0.88	22

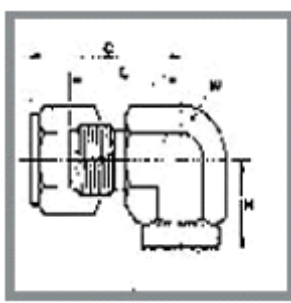
Metric tubing

Tube O.D (mm)	NPT thread	Part Number	A	C	D	L	W (inch)	B'head hole drill size (mm)	Max b'head thickness (mm)	Min bore (mm)	
			mm	mm	mm	mm					
6	1/8	ASC-6MFBC1/8N	47.2	33.7	39.7	26.2	5/8	11.5	10.2	4.8	
6	1/4	ASC-6MFBC1/4N	52.0	33.7	44.5	26.2	3/4	11.5	10.2	4.8	
8	1/8	ASC-8MFBC1/8N	49.6	36.1	42.1	28.5	11/16	13.1	11.2	6.4	
10	1/4	ASC-10MFBC1/4N	55.2	37.0	47.6	29.4	13/16	16.3	11.2	7.9	
12	3/8	ASC-12MFBC3/8N	60.9	41.9	50.8	31.8	15/16	19.5	12.7	9.5	
12	1/2	ASC-12MFBC1/2N	66.4	41.9	56.3	31.8	1.1/16	19.5	12.7	9.5	

Female Elbow

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Imperial Tubing												
Tube O.D inch	NPT thread	Part Number	C		H		L		W	Min bore		
			(mm)	(inch)	(mm)	(inch)	(mm)	mm		(inch)		
1/16	1/16	ASC-1FE1N	0.70	17.8	0.56	14.2	0.56	14.2	7/16	0.05	1.3	1.3
1/16	1/8	ASC-1FE2N	0.80	20.3	0.75	19.1	0.66	16.8	9/16	0.05	1.3	1.3
1/8	1/8	ASC-2FE2N	0.97	24.6	0.75	19.1	0.72	18.3	9/16	0.09	2.3	2.3
1/8	1/4	ASC-2FE4N	1.09	27.7	0.84	21.3	0.84	21.3	3/4	0.09	2.3	2.3
3/16	1/8	ASC-3FE2N	1.00	25.4	0.75	19.1	0.75	19.1	9/16	0.13	3.3	3.3
1/4	1/8	ASC-4FE2N	1.08	27.4	0.75	19.1	0.78	19.8	9/16	0.19	4.8	4.8
1/4	1/4	ASC-4FE4N	1.21	30.7	0.84	21.3	0.91	23.1	3/4	0.19	4.8	4.8
1/4	3/8	ASC-4FE6N	1.43	36.3	0.84	21.3	1.13	28.7	1.1/16	0.19	4.8	4.8
1/4	1/2	ASC-4FE8N	1.43	36.3	1.13	28.7	1.13	28.7	1.1/16	0.19	4.8	4.8
5/16	1/8	ASC-5FE2N	1.10	27.9	0.75	19.1	0.81	20.6	9/16	0.25	6.4	6.4

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5/16	1/4	ASC-5FE4N	1.23	31.2	0.88	22.4	0.94	23.9	3/4	2.25	6.4	6.4
3/8	1/8	ASC-6FE2N	1.13	28.7	0.75	19.1	0.84	21.3	9/16	0.28	7.1	7.1
3/8	1/4	ASC-6FE4N	1.26	32.0	0.84	21.3	0.97	24.6	3/4	0.28	7.1	7.1
3/8	3/8	ASC-6FE6N	1.32	33.5	0.84	21.3	1.03	26.2	7/8	0.28	7.1	7.1
3/8	1/2	ASC-6FE8N	1.42	36.1	1.13	28.7	1.13	28.7	1.1/16	0.28	7.1	7.1
1/2	1/4	ASC-8FE4N	1.35	34.3	0.84	21.3	0.97	24.6	3/4	0.41	10.4	10.4
1/2	3/8	ASC-8FE6N	1.41	35.8	0.91	23.1	1.03	26.2	7/8	0.41	10.4	10.4
1/2	1/2	ASC-8FE8N	1.51	38.4	1.13	28.7	1.13	28.7	1.1/16	0.41	10.4	10.4
5/8	3/8	ASC-10FE6N	1.41	35.8	0.91	23.1	1.03	26.2	7/8	0.50	12.7	12.7
5/8	1/2	ASC-10FE8N	1.51	38.4	1.13	28.7	1.13	28.7	1.1/16	0.50	12.7	12.7
3/4	1/2	ASC-12FE8N	1.54	39.1	1.13	28.7	1.16	29.5	1.1/16	0.63	16	16.0
3/4	3/4	ASC-12FE12N	1.63	41.4	1.25	31.8	1.25	31.8	1.5/16	0.63	16	16.0
1	1	ASC-16FE16N	2.00	50.8	1.50	38.1	1.53	38.9	1.5/18	0.88	22.4	22.4
Metric Tubing												
		Tube O.D (mm)	NPT thread	Part Number	C	H	L	W (inch)	Min bore (mm)			

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(mm)	(mm)	(mm)					
6	1/8	ASC-6MFE1/8N	27.3	19.1	19.8	9/16	4/8
6	1/4	ASC-6MFE1/4N	30.5	21.4	23.0	3/4	4/8
8	1/4	ASC-8MFE1/4N	31.3	22.2	23.8	3/4	6.4
10	1/4	ASC-10MFE1/4N	32.2	21.4	24.6	3/4	7.9
10	3/8	ASC-10MFE3/8N	33.8	23.0	26.2	7/8	7.9
12	1/4	ASC-12MFE1/4N	34.7	21.4	24.6	3/4	9.5
12	3/8	ASC-12MFE3/8N	36.3	23.0	26.2	7/8	9.5
12	1/2	ASC-12MFE1/2N	38.7	28.6	28.6	1.1/1 6	9.5
16	3/8	ASC-16MFE3/8N	36.3	21.3	26.2	7/8	12.7
16	1/2	ASC-16MFE1/2N	38.7	28.6	28.6	1.1/1 6	12.7

Female Run Tee

Imperial tubing

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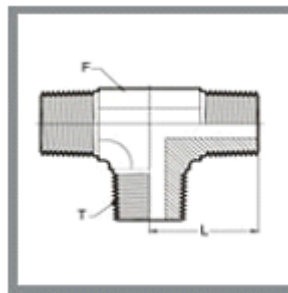
Tube O.D	NPT thread	Part Number	A		C		H		L		W	Min. bore
			mm	inch	mm	inch	mm	inch	mm	inch		
1/8	1/8	ASC-2FRT2N	1.75	44.45	1.00	25.40	0.75	19.05	0.75	19.05	9/16	0.09
3/16	1/8	ASC-3FRT2N	1.75	44.45	1.00	25.40	0.75	19.05	0.75	19.05	9/16	0.13
1/4	1/8	ASC-4FRT2N	1.83	46.48	1.08	27.43	0.75	19.05	0.78	19.81	9/16	0.19
1/4	1/4	ASC-4FRT4N	2.05	52.07	1.21	30.73	0.84	21.34	0.91	23.11	3/4	0.19
5/16	1/8	ASC-5FRT2N	1.85	46.99	1.10	27.94	0.75	19.05	0.81	20.57	9/16	0.25
3/8	1/4	ASC-6FRT4N	2.10	53.34	1.26	32.00	0.84	21.34	0.97	24.64	3/4	0.28
1/2	3/8	ASC-8FRT6N	2.32	58.93	1.41	35.81	0.91	23.11	1.03	26.16	7/8	0.41
1/2	1/2	ASC-8FRT8N	2.64	67.06	1.51	38.35	1.31	33.27	1.13	28.70	1.1/16	0.41
3/4	3/4	ASC-12FRT12N	2.88	73.15	1.63	41.40	1.25	31.75	1.25	31.75	1.5/16	0.63
7/8	1/2	ASC-14FRT8N	2.64	67.1	1.51	38.4	1.13	28.7	1.13	28.7	1.1/16	0.63
7/8	3/4	ASC-14FRT12N	2.88	73.2	1.63	41.4	1.25	31.75	1.25	31.75	1.5/16	0.75
1	3/4	ASC-16FRT12N	3.03	76.96	1.78	45.21	1.25	31.75	1.31	33.27	1.5/16	0.88
1	1	ASC-16FRT16N	3.50	88.90	2.00	50.80	1.50	38.10	1.53	38.86	1.5/8	0.88
Metric tubing												
Tube O.D mm	NPT thread	Part Number	A		C		H		L		W	Min. bore
			inch	mm	inch	mm	inch	mm	inch	mm		
3	1/8	ASC-3MFRT1/8N	1.75	44.45	1.00	25.40	0.75	19.05	0.75	19.05	9/16	0.09

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6	1/8	ASC-6MFRT1/8N	1.83	46.48	1.08	27.43	0.75	19.05	0.78	19.81	9/16	0.19
6	1/4	ASC-6MFRT1/4N	2.05	52.07	1.21	30.73	0.84	21.34	0.91	23.11	3/4	0.19
8	1/8	ASC-8MFRT1/8N	1.85	46.99	1.10	27.94	0.75	19.05	0.81	20.57	9/16	0.25
10	1/4	ASC-10MFRT1/4N	2.10	53.34	1.26	32.00	0.84	21.34	0.97	24.64	3/4	0.28
12	3/8	ASC-12MFRT3/8N	2.32	58.93	1.41	35.81	0.91	23.11	1.03	26.16	7/8	0.41
12	1/2	ASC-12MFRT1/2N	2.64	67.06	1.51	38.35	1.31	33.27	1.13	28.70	1.1/16	0.41
20	3/4	ASC-20MFRT3/4N	2.88	73.15	1.63	41.40	1.25	31.75	1.25	31.75	1.5/16	0.63
25	3/4	ASC-25MFRT3/4N	3.03	76.96	1.78	45.21	1.25	31.75	1.31	33.27	1.5/16	0.88
25	1	ASC-25MFRT1N	3.50	88.90	2.00	50.80	1.50	38.10	1.53	38.86	1.5/8	0.88

Male Tee



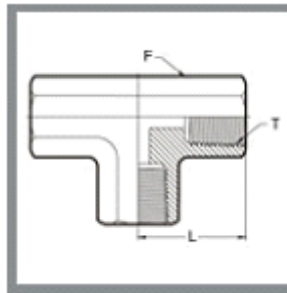
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		A/F	NPT(F)	

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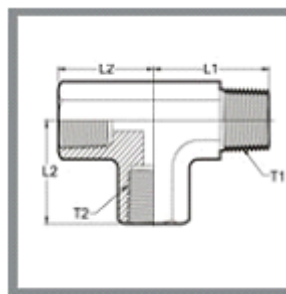
M.TEE2	1/8"	1/8"	1/2"	0.75
M.TEE4	1/4"	1/4"	9/16"	0.87
M.TEE6	3/8"	3/8"	11/16"	0.94
M.TEE8	1/2"	1/2"	7/8"	1.30
M.TEE12	3/4"	3/4"	1-1/16"	1.38

Female Tee



PART NO.	SIZE	F	T	L
		A/F	NPT(F)	
F.TEE2	1/8"	9/16"	1/8"	0.79
F.TEE4	1/4"	11/16"	1/4"	0.94
F.TEE6	3/8"	7/8"	3/8"	0.98
F.TEE8	1/2"	1-1/16"	1/2"	1.22
F.TEE12	3/4"	1-1/4"	3/4"	1.57

Street Tee



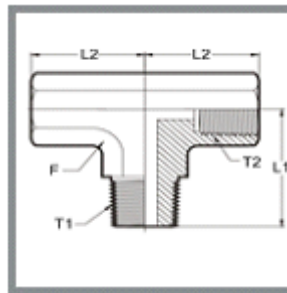
PART NO.	SIZE	F	T1	T2	L1	L2
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		A/F	NPT(M)	NPT(F)		
TTF.M/F22	1/8"X1/8"	9/16"	1/8"	1/8"	0.83	0.75
TTF.M/F44	1/4"X1/4"	3/4"	1/4"	1/4"	1.16	0.89
TTF.M/F66	3/8"X3/8"	7/8"	3/8"	3/8"	1.34	1.02
TTF.M/F88	1/2"X1/2"	1-1/16"	1/2"	1/2"	1.50	1.18
TTF.M/F1212	3/4"X3/4"	1-1/4"	3/4"	3/4"	1.89	1.57

Male Female Branch Tee

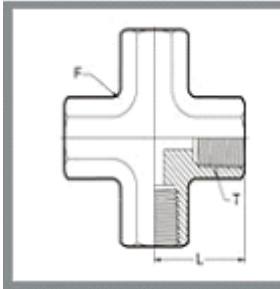


PART NO.	SIZE	F	T1	T2	L1	L2
		A/F	NPT(M)	NPT(F)		
TFT.M/F22	1/8"X1/8"	9/16"	1/8"	1/8"	0.83	0.75
TFT.M/F44	1/4"X1/4"	3/4"	1/4"	1/4"	0.98	0.87
TFT.M/F66	3/8"X3/8"	7/8"	3/8"	3/8"	1.34	1.02
TFT.M/F88	1/2"X1/2"	1-1/16"	1/2"	1/2"	1.50	1.18
TFT.M/F1212	3/4"X3/4"	1-1/4"	3/4"	3/4"	1.89	1.57

Female Cross

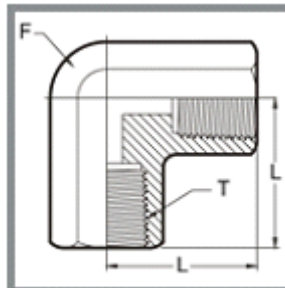
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PART NO.	SIZE	F A/F	T1 NPT(M)	T2 NPT(F)
F.CR2	1/8"	9/16"	1/8"	0.79
F.CR4	1/4"	11/16"	1/4"	0.83
F.CR6	3/8"	7/8"	3/8"	0.98
F.CR8	1/2"	1-1/16"	1/2"	1.22

Female Elbow

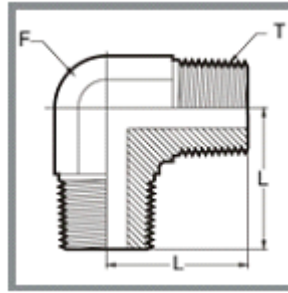


PART NO.	SIZE	T NPT(F)	F A/F	L
F.EL2	1/8"	1/8"	9/16"	0.75
F.EL4	1/4"	1/4"	3/4"	0.94
F.EL6	3/8"	3/8"	7/8"	1.02
F.EL8	1/2"	1/2"	1-1/16"	1.22
F.EL12	3/4"	3/4"	1-1/4"	1.14

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Male Elbow

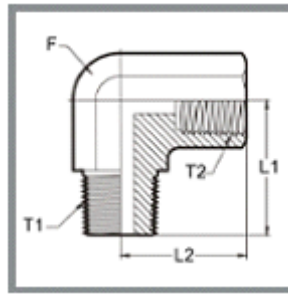


PART NO.	SIZE	T NPT(F)	F A/F	L
E.M/M22	1/8"	1/8"	1/2"	0.67
E.M/M44	1/4"	1/4"	9/16"	0.98
E.M/M66	3/8"	3/8"	11/16"	1.02
E.M/M88	1/2"	1/2"	7/8"	1.34
E.M/M1212	3/4"	3/4"	1-1/16"	1.57

Street Elbow

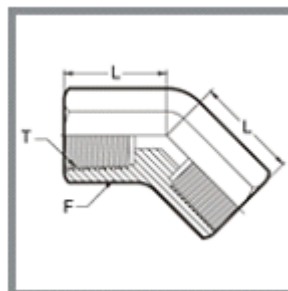
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PART NO.	SIZE	F A/F	T1 NPT(M)	T2 NPT(F)	L1	L2
E.M/F22	1/8"X1/8"	9/16"	1/8"	1/8"	0.67	0.87
E.M/F44	1/4"X1/4"	11/16"	1/4"	1/4"	0.98	0.75
E.M/F66	3/8"X3/8"	7/8"	3/8"	3/8"	1.02	1.02
E.M/F88	1/2"X1/2"	1-1/16"	1/2"	1/2"	1.34	1.22
E.M/F1212	3/4"X3/4"	1-1/4"	3/4"	3/4"	1.57	1.22
E.M/F1616	1"X1"	1-5/8"	1"	1"	1.97	1.81

45° FEMALE ELBOW



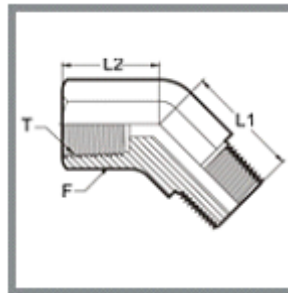
PART NO.	SIZE	T NPT(F)	F A/F	L
45F.EL2	1/8"	1/8"	9/16"	0.47
45F.EL4	1/4"	1/4"	3/4"	0.69

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45F.EL6	3/8"	3/8"	7/8"	0.75
45F.EL8	1/2"	1/2"	1-1/16"	0.94
45F.EL12	3/4"	3/4"	1-1/4"	1.00

45° STREET ELBOW

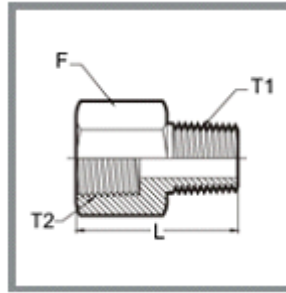


PART NO.	SIZE	T NPT(M/F)	F A/F	L1	L2
45E.M/F22	1/8"	1/8"	1/2"	0.72	0.47
45E.M/F44	1/4"	1/4"	9/16"	1.05	0.63
45E.M/F66	3/8"	3/8"	11/16"	1.06	0.72
45E.M/F88	1/2"	1/2"	7/8"	1.34	0.91
45E.M/F1212	3/4"	3/4"	1-1/16"	1.38	0.97

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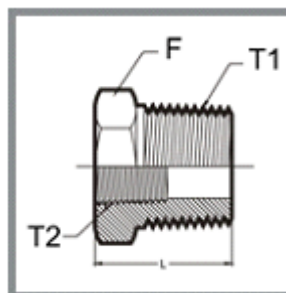
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Male Female Adapter



PART NO.	SIZE M/F	T1 NPT	T2 NPT	F A/F	L
ADPT22	1/8"X1/8"	1/8"	1/8"	9/16"	0.89
ADPT24	1/8"X1/4"	1/8"	1/4"	3/4"	1.06
ADPT44	1/4"X3/4"	1/4"	1/4"	7/8"	1.28
ADPT48	1/4"X1/2"	1/4"	1/2"	1-1/16"	1.50
ADPT412	1/4"X3/4"	1/4"	3/4"	1-1/4"	1.54
ADPT66	3/8"X3/8"	3/8"	3/8"	1-1/16"	1.50
ADPT612	3/8"X3/4"	3/8"	3/4"	1-1/4"	1.54
ADPT88	1/2"X1/2"	1/2"	1/2"	1-1/16"	1.73
ADPT812	1/2"X3/4"	1/2"	3/4"	1-1/4"	1.73
ADPT1212	3/4"X3/4"	3/4"	3/4"	1-5/8"	2.01
ADPT1616	1"X1"	1"	1"	1-5/8"	2.01

Bushing



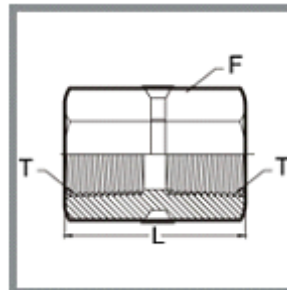
PART NO.	SIZE	T1	T2	F	L

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	M/F	NPT	NPT	A/F	
BUSH42	1/4"x1/8"	1/4"	1/8"	9/16"	0.93
BUSH62	3/8"x1/8"	3/8"	1/8"	11/16"	0.81
BUSH64	3/8"x1/4"	3/8"	1/4"	3/4"	1.10
BUSH82	1/2"x1/8"	1/2"	1/8"	7/8"	1.06
BUSH84	1/2"x1/4"	1/2"	1/4"	7/8"	1.06
BUSH86	1/2"x3/8"	1/2"	3/8"	7/8"	1.30
BUSH124	3/4"x1/4"	3/4"	1/4"	1-1/16"	1.10
BUSH126	3/4"x3/8"	3/4"	3/8"	1-1/16"	1.10
BUSH128	3/4"x1/2"	3/4"	1/2"	1-1/16"	1.50
BUSH168	1"x1/2"	1"	1/2"	1-3/8"	1.34
BUSH1612	1"x3/4"	1"	3/4"	1-3/8"	1.69

Hex Coupling



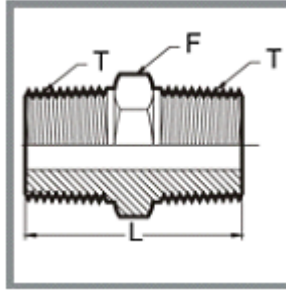
PART NO.	SIZE	T1	F	L
	M/F	NPT	A/F	
COPL2	1/8"	1/8"	9/16"	0.81
COPL4	1/4"	1/4"	3/4"	1.18
COPL6	3/8"	3/8"	7/8"	1.18
COPL8	1/2"	1/2"	1-1/16"	1.57
COPL12	3/4"	3/4"	1-1/4"	1.61

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COPL16	1"	1"	1-5/8"	2.01
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Reducing Hex Nipple

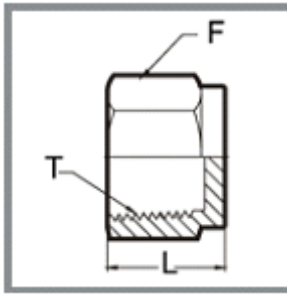


PART NO.	SIZE	T1	T2	F	L
	M/F	NPT	NPT	A/F	
R.HNIPP42	1/4"x1/8"	1/4"	1/8"	3/4"	1.00
R.HNIPP62	3/8"x1/8"	3/8"	1/8"	7/8"	1.00
R.HNIPP64	3/8"x1/4"	3/8"	1/4"	7/8"	1.18
R.HNIPP82	1/2"X1/8"	1/2"	1/8"	1-1/16"	1.20
R.HNIPP84	1/2"X1/4"	1/2"	1/4"	1-1/16"	1.38
R.HNIPP86	1/2"X3/8"	1/2"	3/8"	1-1/16"	1.38
R.COPL88	1/2" X 1/2"	1/2"	1/2"	1-1/16"	1.57
R.HNIPP124	3/4"X1/4"	3/4"	1/4"	1-1/4"	1.42
R.HNIPP126	3/4"X3/8"	3/4"	3/8"	1-1/4"	1.42
R.HNIPP128	3/4"X1/2"	3/4"	1/2"	1-1/4"	1.61
R.HNIPP168	1"X1/2"	1"	1/2"	1-5/8"	1.85
R.HNIPP1612	1"X3/4"	1"	3/4"	1-5/8"	1.85

Female Cap

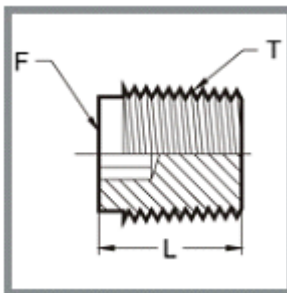
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PART NO.	SIZE	F	T1 NPT(F)	L
CAP2	1/8"	9/16"	1/8"	0.53
CAP4	1/4"	3/4"	1/4"	0.71
CAP6	3/8"	7/8"	3/8"	0.71
CAP8	1/2"	1-1/16"	1/2"	1.94
CAP12	3/4"	1-1/4"	3/4"	1.98
CAP16	1	1-5/8"	1"	1.22

Allen Key

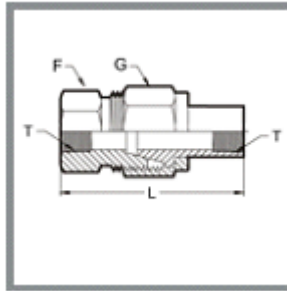


PART NO.	SIZE	F	T1 NPT(F)	L
A.PLUG2	1/8"	3/16"	1/8"	0.30
A.PLUG4	1/4"	1/4"	1/4"	0.30
A.PLUG6	3/8"	3/8"	3/8"	0.47

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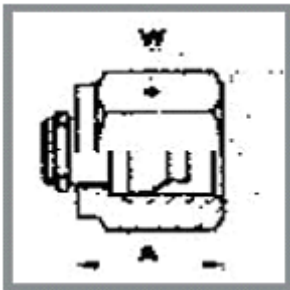
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Union Joint Ball



PART NO.	SIZE	F	T1 NPT(F)	L
A.PLUG2	1/8"	3/16"	1/8"	0.30
A.PLUG4	1/4"	1/4"	1/4"	0.30
A.PLUG6	3/8"	3/8"	3/8"	0.47

Blanking Plug



Imperial tubing					
Tube O.D	UN thread	Part Number	A	W	

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inch	inch	mm	inch	(inch)	
1/16	10-32UNF	ASC-1BP1	0.31	7.9	5/16
1/8	5/16-20UN	ASC-2BP2	0.47	11.9	7/16
3/16	3/8-20UN	ASC-3BP3	0.47	11.9	1/2
1/4	7/16-20UNF	ASC-4BP4	0.50	12.7	9/16
5/16	1/2-20UNF	ASC-5BP5	0.53	13.5	5/8
3/8	9/16-20UN	ASC-6BP6	0.56	14.2	11/16
1/2	3/4-20UNEF	ASC-8BP8	0.69	17.5	7/8
5/8	7/8-20UNEF	ASC-10BP10	0.69	17.5	1
3/4	1-20UNEF	ASC-12BP12	0.69	17.5	1.1/8
7/8	1.1/8-20UN	ASC-14BP12	0.69	17.5	1.1/4
1	1.5/16-20UN	ASC-16BP16	0.81	20.6	1.1/2

Metric Tubing

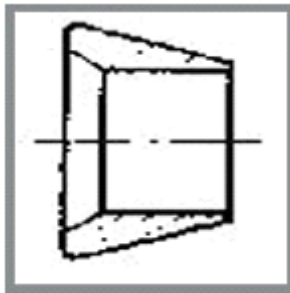
Tube O.D	UN thread	Part Number	A	W	
mm			mm	(inch)	
3	5/16-20UN	ASC-3MBP	11.9	12	
4	3/8-20UN	ASC-4MBP	11.9	12	
6	7/16-20UNF	ASC-6MBP	12.7	14	
8	1/2-20UNF	ASC-8MBP	13.5	16	
10	5/8-20UN	ASC-10MBP	15.1	19	
12	3/4-20UNEF	ASC-12MBP	17.5	22	
16	7/8-20UNEF	ASC-16MBP	17.5	25	
18	1-20UNEF	ASC-18MBP	17.5	30	
20	1.1/16-20UN	ASC-20MBP	17.5	32	

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25	1.5/16-20UN	ASC-25MBP	20.6	38	
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Front Ferrule



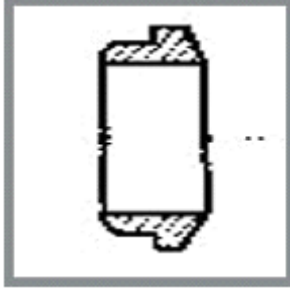
Imperial tubing		Metric tubing	
Tube O.D inch	Part Number	Tube O.D mm	Part Number
1/16	ASC-1FF1	3	3MFF
1/8	ASC-2FF2	4	4MFF
3/16	ASC-3FF3	6	6MFF
1/4	ASC-4FF4	8	8MFF
5/16	ASC-5FF5	10	10MFF
3/8	ASC-6FF6	12	12MFF
1/2	ASC-8FF8	16	16MFF
5/8	ASC-10FF10	18	18MFF
3/4	ASC-12FF12	20	20MFF

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7/8	ASC-14FF14	25	25MFF
1	ASC-16FF16		

Back Ferrule



Imperial tubing		Metric tubing	
Tube O.D inch	Part Number	Tube O.D mm	Part Number
1/16	ASC-1BF1	3	3MBF
1/8	ASC-2BF2	4	4MBF
3/16	ASC-3BF3	6	6MBF
1/4	ASC-4BF4	8	8MBF
5/16	ASC-5BF5	10	10MBF
3/8	ASC-6BF6	12	12MBF
1/2	ASC-8BF8	16	16MBF
5/8	ASC-10BF10	18	18MBF
3/4	ASC-12BF12	20	20MBF
7/8	ASC-14BF14	25	25MBF
1	ASC-16BF16		

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