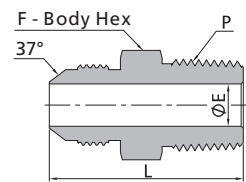
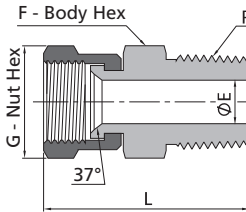
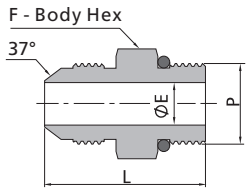


Male Connectors



SAE 070102						
Tube O.D.		P-NPT Size	Basic Ordering Number	Dimension, mm		
in.	mm			L	E	F
1/8	3	1/8	-CM-AN2-NS2	28.2	1.6	11.1
3/16	4	1/8	-CM-AN3-NS2	29.0	3.2	11.1
1/4	6	1/8	-CM-AN4-NS2	31.0	4.4	12.7
1/4	6	1/4	-CM-AN4-NS4	36.0	4.4	14.3
1/4	6	1/2	-CM-AN4-NS8	42.7	4.4	22.2
5/16	8	1/8	-CM-AN5-NS2	31.0	4.8	14.3
5/16	8	1/4	-CM-AN5-NS4	36.1	6.0	14.3
3/8	10	1/8	-CM-AN6-NS2	31.8	4.8	15.9
3/8	10	1/4	-CM-AN6-NS4	36.3	7.1	15.9
3/8	10	3/8	-CM-AN6-NS6	36.3	7.5	19.1
3/8	10	1/2	-CM-AN6-NS8	42.5	7.5	22.2
1/2	12	1/4	-CM-AN8-NS4	38.9	7.1	20.6
1/2	12	3/8	-CM-AN8-NS6	38.9	9.9	20.6
1/2	12	1/2	-CM-AN8-NS8	45.5	9.9	22.2
1/2	12	3/4	-CM-AN8-NS12	47.0	9.9	28.6
5/8	16	3/8	-CM-AN10-NS6	43.1	9.9	23.8
5/8	16	1/2	-CM-AN10-NS8	48.0	12.3	23.8
5/8	16	3/4	-CM-AN10-NS12	49.5	12.3	28.6
3/4	18	3/4	-CM-AN12-NS12	52.3	15.5	28.6
3/4	18	1	-CM-AN12-NS16	57.1	15.5	34.9
7/8	22	3/4	-CM-AN14-NS12	53.1	18.3	31.8
1	25	3/4	-CM-AN16-NS12	53.5	18.3	34.9
1	25	1	-CM-AN16-NS16	58.4	21.5	34.9
1 1/4	32	1	-CM-AN20-NS16	61.5	23.8	42.9
1 1/4	32	1 1/4	-CM-AN20-NS20	62.2	27.5	42.9
1 1/2	38	1 1/4	-CM-AN24-NS20	68.1	31.7	50.8
1 1/2	38	1 1/2	-CM-AN24-NS24	68.1	33.0	50.8
2	50	2	-CM-AN32-NS32	79.0	45.0	66.7

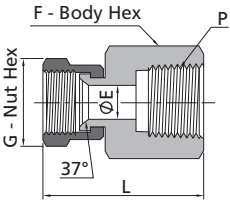
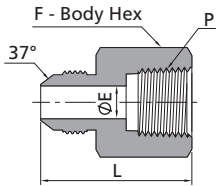
Male Connectors



SAE 070120						
Tube O.D.		P-SAE/MS Thread Size	Basic Ordering Number	Dimension, mm		
in.	mm			L	E	F
1/8	3	5/16-24	-CM-AN2-ST5	26.9	1.6	11.1
3/16	4	3/8-24	-CM-AN3-ST6	27.9	3.2	12.7
1/4	6	7/16-20	-CM-AN4-ST7	31.2	4.4	14.3
1/4	6	1/2-20	-CM-AN4-ST8	31.2	4.4	15.9
1/4	6	9/16-18	-CM-AN4-ST9	33.0	4.4	17.5
1/4	6	3/4-16	-CM-AN4-ST12	34.8	4.4	22.2
5/16	8	1/2-20	-CM-AN5-ST8	31.2	6.0	15.9
3/8	10	9/16-18	-CM-AN6-ST9	33.0	7.5	17.5
3/8	10	3/4-16	-CM-AN6-ST12	35.1	7.5	22.2
3/8	10	7/8-14	-CM-AN6-ST14	38.1	7.5	25.4
1/2	12	9/16-18	-CM-AN8-ST9	36.6	7.5	20.6
1/2	12	3/4-16	-CM-AN8-ST12	37.6	9.9	22.2
1/2	12	7/8-14	-CM-AN8-ST14	40.6	9.9	25.4
1/2	12	1 1/16-12	-CM-AN8-ST17	44.7	9.9	31.8
5/8	16	3/4-16	-CM-AN10-ST12	40.6	10.7	23.8
5/8	16	7/8-14	-CM-AN10-ST14	43.2	12.3	25.4
5/8	16	1 1/16-12	-CM-AN10-ST17	47.2	12.3	31.8
3/4	18	3/4-16	-CM-AN12-ST12	45.2	10.7	28.6
3/4	18	7/8-14	-CM-AN12-ST14	46.4	12.7	28.6
3/4	18	1 1/16-12	-CM-AN12-ST17	50.0	15.5	31.8
3/4	18	1 5/16-12	-CM-AN12-ST21	50.8	15.5	38.1
7/8	22	1 3/16-12	-CM-AN14-ST19	50.5	18.3	34.9
7/8	22	1 5/16-12	-CM-AN14-ST21	51.3	18.3	38.1
1	25	1 1/16-12	-CM-AN16-ST17	51.1	16.7	34.9
1	25	1 3/16-12	-CM-AN16-ST19	51.8	18.3	34.9
1	25	1 5/16-12	-CM-AN16-ST21	51.8	21.5	38.1

Tube O.D.		P-NPT Size	Basic Ordering Number	Dimension, mm			
in.	mm			L	E	G	F
1/8	3	1/8	-CM-AS2-NS2	30.0	1.6	11.1	11.1
3/16	4	1/8	-CM-AS3-NS2	32.0	3.2	12.7	11.1
1/4	6	1/8	-CM-AS4-NS2	34.2	4.4	14.3	12.7
5/16	8	1/8	-CM-AS5-NS2	35.0	6.0	15.9	14.3
3/8	10	1/4	-CM-AS6-NS4	40.2	7.5	17.5	15.9
1/2	12	3/8	-CM-AS8-NS6	42.7	9.9	22.2	20.6
5/8	16	1/2	-CM-AS10-NS8	51.3	12.3	25.4	23.8
3/4	18	3/4	-CM-AS12-NS12	54.5	15.5	31.8	28.6
7/8	22	3/4	-CM-AS14-NS12	56.0	18.0	34.9	31.8
1	25	1	-CM-AS16-NS16	63.7	21.5	38.1	34.9
1 1/4	32	1 1/4	-CM-AS20-NS20	68.9	27.5	50.8	42.9
1 1/2	38	1 1/2	-CM-AS24-NS24	77.6	33.0	57.2	50.8
2	50	2	-CM-AS32-NS32	92.9	45.0	73.0	66.7

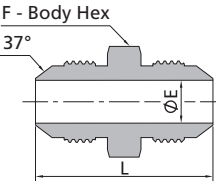
Female Connectors



SAE 070103						
Tube O.D.		P-NPT Size	Basic Ordering Number	Dimension, mm		
in.	mm			L	E	F
1/8	3	1/8	-CF-AN2-NS2	28.4	1.6	14.3
3/16	4	1/8	-CF-AN3-NS2	28.7	3.2	14.3
1/4	6	1/8	-CF-AN4-NS2	30.2	4.4	14.3
1/4	6	1/4	-CF-AN4-NS4	35.3	4.4	19.1
5/16	8	1/8	-CF-AN5-NS2	29.7	6.0	14.3
5/16	8	1/4	-CF-AN5-NS4	35.3	6.0	19.1
3/8	10	1/4	-CF-AN6-NS4	35.6	7.5	19.1
3/8	10	3/8	-CF-AN6-NS6	37.1	7.5	22.2
1/2	12	3/8	-CF-AN8-NS6	39.6	9.9	22.2
1/2	12	1/2	-CF-AN8-NS8	45.6	9.9	28.6
5/8	16	1/2	-CF-AN10-NS8	48.0	12.3	28.6
3/4	18	1/2	-CF-AN12-NS8	52.1	15.5	28.6
3/4	18	3/4	-CF-AN12-NS12	52.3	15.5	34.9
7/8	22	3/4	-CF-AN14-NS12	52.3	18.3	34.9
1	25	1	-CF-AN16-NS16	59.7	21.5	41.3
1 1/4	32	1 1/4	-CF-AN20-NS20	63.2	27.5	50.8
2	38	1 1/2	-CF-AN24-NS24	66.5	33.0	60.3
2	50	2	-CF-AN32-NS32	75.4	45.0	73.0

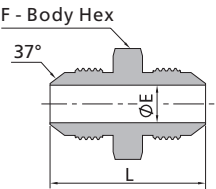
Tube O.D.		P-NPT Size	Basic Ordering Number	Dimension, mm			
in.	mm			L	E	G	F
1/8	3	1/8	-CF-AS2-NS2	36.1	1.6	11.1	14.3
3/16	4	1/8	-CF-AS3-NS2	37.3	3.2	12.7	14.3
1/4	6	1/8	-CF-AS4-NS2	39.7	4.4	14.3	14.3
5/16	8	1/8	-CF-AS5-NS2	40.5	6.0	15.9	14.3
3/8	10	1/4	-CF-AS6-NS4	45.8	7.5	17.5	19.1
1/2	12	3/8	-CF-AS8-NS6	47.0	9.9	22.2	22.2
5/8	16	1/2	-CF-AS10-NS8	51.6	12.3	25.4	28.6
3/4	18	3/4	-CF-AS12-NS12	66.6	15.5	31.8	34.9
7/8	22	3/4	-CF-AS14-NS12	67.8	18.0	34.9	34.9
1	25	1	-CF-AS16-NS16	73.5	21.5	38.1	41.3
1 1/4	32	1 1/4	-CF-AS20-NS20	78.1	27.5	50.8	50.8
1 1/2	38	1 1/2	-CF-AS24-NS24	86.7	33.0	60.3	60.3
2	50	2	-CF-AS32-NS32	89.3	45.0	73.0	66.7

Unions



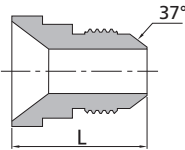
SAE 070101					
Tube O.D.		Basic Ordering Number	Dimension, mm		
in.	mm		L	E	F
1/8	3	-U-AN2	29.7	1.6	11.1
3/16	4	-U-AN3	31.2	3.2	11.1
1/4	6	-U-AN4	34.8	4.4	12.7
5/16	8	-U-AN5	34.8	6.0	14.3
3/8	10	-U-AN6	35.8	7.5	15.9
1/2	12	-U-AN8	41.1	9.9	20.6
5/8	16	-U-AN10	47.8	12.3	23.8
3/4	18	-U-AN12	54.9	15.5	28.6
7/8	22	-U-AN14	56.1	18.3	31.8
1	25	-U-AN16	57.2	21.5	34.9
1 1/4	32	-U-AN20	61.7	27.5	42.9
1 1/2	38	-U-AN24	69.8	33.0	50.8
2	50	-U-AN32	86.4	45.0	66.7

Large Hex Unions



SAE 070119					
Tube O.D.		Basic Ordering Number	Dimension, mm		
in.	mm		L	E	F
1/8	3	-HU-AN2	29.7	1.6	14.3
3/16	4	-HU-AN3	31.2	3.2	15.9
1/4	6	-HU-AN4	34.8	4.4	17.5
5/16	8	-HU-AN5	34.8	6.0	19.1
3/8	10	-HU-AN6	35.8	7.5	20.6
1/2	12	-HU-AN8	41.1	9.9	25.4
5/8	16	-HU-AN10	47.8	12.3	28.6
3/4	18	-HU-AN12	54.9	15.5	34.9
7/8	22	-HU-AN14	56.1	18.3	38.1
1	25	-HU-AN16	57.2	21.5	41.3
1 1/4	32	-HU-AN20	61.7	27.5	47.6
1 1/2	38	-HU-AN24	69.8	33.0	54.0
2	50	-HU-AN32	86.4	45.0	69.9

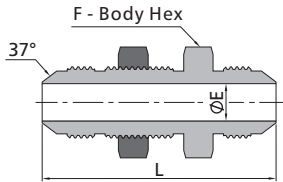
Reducing Adapters



SAE 070123			
Tube O.D.		Basic Ordering Number	L (mm)
in.-mm	in.-mm		
3/8-10	1/4-6	-RA-AN6-AN4	24.6
1/2-12	1/4-6	-RA-AN8-AN4	25.4
1/2-12	3/8-10	-RA-AN8-AN6	25.4
5/8-16	1/4-6	-RA-AN10-AN4	26.2
5/8-16	3/8-10	-RA-AN10-AN6	26.2
3/4-18	1/4-6	-RA-AN12-AN4	27.7
3/4-18	3/8-10	-RA-AN12-AN6	27.7
3/4-18	1/2-12	-RA-AN12-AN8	30.2
7/8-22	3/8-10	-RA-AN14-AN6	28.7
7/8-22	5/8-16	-RA-AN14-AN10	33.7
1-25	1/4-6	-RA-AN16-AN4	31.0
1-25	3/8-10	-RA-AN16-AN6	31.0
1-25	1/2-12	-RA-AN16-AN8	32.3
1-25	5/8-16	-RA-AN16-AN10	35.1
1-25	3/4-18	-RA-AN16-AN12	37.3
1 1/4-32	3/4-18	-RA-AN20-AN12	38.8
1 1/4-32	1-25	-RA-AN20-AN16	40.3
1 1/2-38	1/2-12	-RA-AN24-AN8	39.6
1 1/2-38	3/4-18	-RA-AN24-AN12	41.4
1 1/2-38	1-25	-RA-AN24-AN16	41.4
2-50	1 1/2-38	-RA-AN32-AN24	48.5

8 37° Flared Tube Fittings

Bulkhead Unions



SAE 070601					
Tube O.D.		Basic Ordering Number	Dimension, mm		
in.	mm		L	E	F
3/16	4	-BU-AN3	48.3	3.2	15.9
1/4	6	-BU-AN4	52.6	4.4	17.5
5/16	8	-BU-AN5	52.6	6.0	19.1
3/8	10	-BU-AN6	55.4	7.5	20.6
1/2	12	-BU-AN8	62.0	9.9	25.4
5/8	16	-BU-AN10	69.6	12.3	28.6
3/4	18	-BU-AN12	78.5	15.5	34.9
7/8	22	-BU-AN14	79.2	18.3	38.1
1	25	-BU-AN16	79.8	21.5	41.3
1 1/4	32	-BU-AN20	84.1	27.5	47.6
1 1/2	38	-BU-AN24	89.4	33.0	54.0
2	50	-BU-AN32	106.7	45.0	69.9