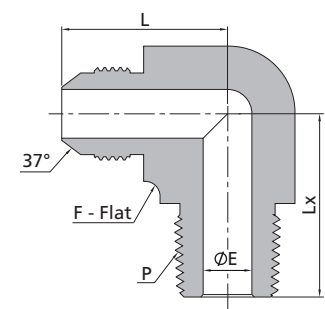
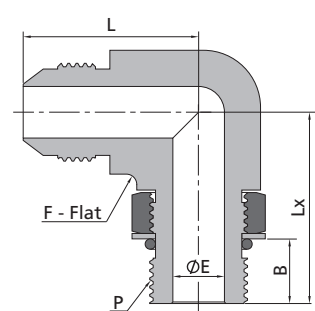


Male Elbows



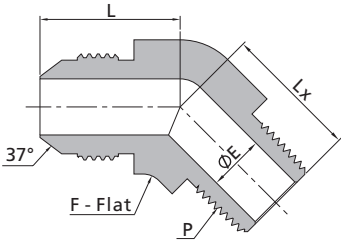
SAE 070202							
Tube O.D.		P-NPT Size	Basic Ordering Number	Dimension, mm			
in.	mm			L	E	F	Lx
1/8	3	1/8	-LM-AN2-NS2	19.6	1.6	11.1	18.3
3/16	4	1/8	-LM-AN3-NS2	21.1	3.2	11.1	18.3
1/4	6	1/8	-LM-AN4-NS2	22.6	4.4	12.7	19.8
1/4	6	1/4	-LM-AN4-NS4	26.9	4.4	14.3	27.7
5/16	8	1/8	-LM-AN5-NS2	24.1	4.8	14.3	19.8
5/16	8	1/4	-LM-AN5-NS4	26.9	6.0	14.3	27.7
3/8	10	1/8	-LM-AN6-NS2	26.9	4.8	14.3	22.8
3/8	10	1/4	-LM-AN6-NS4	26.9	7.1	14.3	27.7
3/8	10	3/8	-LM-AN6-NS6	29.0	7.5	17.5	31.0
3/8	10	1/2	-LM-AN6-NS8	31.2	7.5	20.6	37.3
1/2	12	1/4	-LM-AN8-NS4	31.8	7.1	20.6	31.0
1/2	12	3/8	-LM-AN8-NS6	31.8	9.9	20.6	31.0
1/2	12	1/2	-LM-AN8-NS8	33.7	9.9	20.6	37.3
1/2	12	3/4	-LM-AN8-NS12	36.0	9.9	25.4	40.4
5/8	16	3/8	-LM-AN10-NS6	36.8	9.9	20.6	33.0
5/8	16	1/2	-LM-AN10-NS8	36.8	12.3	20.6	37.3
5/8	16	3/4	-LM-AN10-NS12	38.9	12.3	25.4	40.4
3/4	18	3/4	-LM-AN12-NS12	42.2	15.5	27.0	40.4
3/4	18	1	-LM-AN12-NS16	42.2	15.5	31.8	50.4
7/8	22	3/4	-LM-AN14-NS12	45.7	18.3	31.8	42.9
1	25	3/4	-LM-AN16-NS12	46.0	18.3	34.9	45.2
1	25	1	-LM-AN16-NS16	46.0	21.5	34.9	50.0
1 1/4	32	1	-LM-AN20-NS16	52.3	23.8	42.9	59.6
1 1/4	32	1 1/4	-LM-AN20-NS20	52.3	27.5	42.9	60.5
1 1/2	38	1 1/2	-LM-AN24-NS24	59.2	33.0	50.8	67.1
2	50	2	-LM-AN32-NS32	77.7	45.0	63.5	76.2

Adjustable Male Elbows



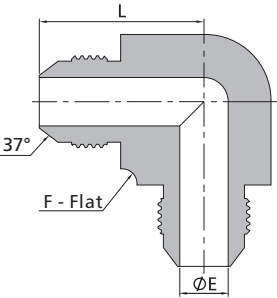
SAE 070220								
Tube O.D.		P-SAE/MS Thread Size	Basic Ordering Number	Dimension, mm				
in.	mm			L	E	F	Lx	B
1/8	3	5/16-24	-LP-AN2-ST5	19.6	1.6	11.1	23.9	8.4
3/16	4	3/8-24	-LP-AN3-ST6	21.1	3.2	11.1	23.9	8.4
1/4	6	7/16-20	-LP-AN4-ST7	22.6	4.4	12.7	26.2	9.8
5/16	8	1/2-20	-LP-AN5-ST8	24.1	6.0	14.3	28.7	9.8
3/8	10	9/16-18	-LP-AN6-ST9	26.9	7.5	15.9	31.8	11.0
1/2	12	3/4-16	-LP-AN8-ST12	31.8	9.9	20.6	36.8	12.5
5/8	16	7/8-14	-LP-AN10-ST14	36.8	12.3	23.8	43.2	14.2
3/4	18	1 1/16-12	-LP-AN12-ST17	42.2	15.5	31.8	49.3	16.5
7/8	22	1 3/16-12	-LP-AN14-ST19	45.7	18.3	31.8	50.8	16.5
1	25	1 5/16-12	-LP-AN16-ST21	46.0	21.5	34.9	52.1	16.5
1 1/4	32	1 5/8-12	-LP-AN20-ST26	52.3	27.5	42.9	57.2	16.5
1 1/2	38	1 7/8-12	-LP-AN24-ST30	59.2	33.0	50.8	60.7	16.5
2	50	2 1/2-12	-LP-AN32-ST40	77.7	45.0	63.5	73.4	16.5

45° Male Elbows



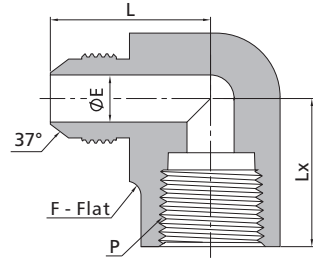
SAE 070302							
Tube O.D.		P-NPT Size	Basic Ordering Number	Dimension, mm			
in.	mm			L	E	F	Lx
1/8	3	1/8	-VM-AN2-NS2	17.5	1.6	11.1	13.2
3/16	4	1/8	-VM-AN3-NS2	17.5	3.2	11.1	13.2
1/4	6	1/8	-VM-AN4-NS2	18.3	4.4	12.7	16.3
5/16	8	1/8	-VM-AN5-NS2	19.6	4.8	14.3	16.3
3/8	10	1/4	-VM-AN6-NS4	21.1	7.1	14.3	21.8
1/2	12	3/8	-VM-AN8-NS6	24.9	9.9	17.5	24.1
5/8	16	1/2	-VM-AN10-NS8	28.2	12.3	20.6	29.7
3/4	18	3/4	-VM-AN12-NS12	32.5	15.5	27.0	30.5
7/8	22	3/4	-VM-AN14-NS12	36.8	18.3	31.8	33.0
1	25	1	-VM-AN16-NS16	37.3	21.5	34.9	37.6
1 1/4	32	1 1/4	-VM-AN20-NS20	40.4	27.5	42.9	42.4
1 1/2	38	1 1/2	-VM-AN24-NS24	45.2	33.0	50.8	45.0
2	50	2	-VM-AN32-NS32	56.4	45.0	63.5	53.6

Union Elbows

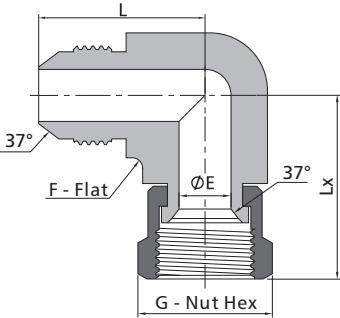


SAE 070201					
Tube O.D.		Basic Ordering Number	Dimension, mm		
in.	mm		L	E	F
1/8	3	-LU-AN2	19.6	1.6	11.1
3/16	4	-LU-AN3	21.1	3.2	11.1
1/4	6	-LU-AN4	22.6	4.4	12.7
5/16	8	-LU-AN5	24.1	6.0	14.3
3/8	10	-LU-AN6	26.9	7.5	14.3
1/2	12	-LU-AN8	31.8	9.9	20.6
5/8	16	-LU-AN10	36.8	12.3	20.6
3/4	18	-LU-AN12	42.2	15.5	27.0
7/8	22	-LU-AN14	45.7	18.3	31.8
1	25	-LU-AN16	46.0	21.5	34.9
1 1/4	32	-LU-AN20	52.3	27.5	42.9
1 1/2	38	-LU-AN24	59.2	33.0	50.8
2	50	-LU-AN32	77.7	45.0	63.5

Female Elbows



SAE 070203							
Tube O.D.		P-NPT Size	Basic Ordering Number	Dimension, mm			
in.	mm			L	E	F	Lx
1/8	3	1/8	-LF-AN2-NS2	25.4	1.6	14.3	16.8
3/16	4	1/8	-LF-AN3-NS2	26.2	3.2	14.3	16.8
1/4	6	1/8	-LF-AN4-NS2	27.4	4.4	14.3	16.8
1/4	6	1/4	-LF-AN4-NS4	30.9	4.4	20.6	22.4
5/16	8	1/8	-LF-AN5-NS2	27.4	6.0	14.3	16.8
5/16	8	1/4	-LF-AN5-NS4	30.9	6.0	20.6	22.4
3/8	10	1/8	-LF-AN6-NS2	26.9	7.5	15.9	16.8
3/8	10	1/4	-LF-AN6-NS4	31.2	7.5	20.6	22.4
3/8	10	3/8	-LF-AN6-NS6	33.2	7.5	23.8	25.9
1/2	12	1/4	-LF-AN8-NS4	31.6	9.9	20.6	22.4
1/2	12	3/8	-LF-AN8-NS6	36.1	9.9	23.8	25.9
1/2	12	1/2	-LF-AN8-NS8	36.1	9.9	27.0	31.2
5/8	16	1/2	-LF-AN10-NS8	41.7	12.3	27.0	31.2
3/4	18	1/2	-LF-AN12-NS8	42.1	15.5	31.8	31.2
3/4	18	3/4	-LF-AN12-NS12	48.0	15.5	34.9	34.5
7/8	22	3/4	-LF-AN14-NS12	47.2	18.3	34.9	36.1
1	25	1	-LF-AN16-NS16	55.1	21.5	42.9	41.1
1 1/4	32	1 1/4	-LF-AN20-NS20	59.2	27.5	50.8	43.2
1 1/2	38	1 1/2	-LF-AN24-NS24	73.4	33.0	63.5	52.8
2	50	2	-LF-AN32-NS32	83.8	45.0	63.5	60.7



SAE 070221						
Tube O.D.		Basic Ordering Number	Dimension, mm			
in.	mm		L	E	F	Lx
1/8	3	-LU-AN2-AS2	19.6	1.6	11.1	24.6
3/16	4	-LU-AN3-AS3	21.1	3.2	11.1	25.4
1/4	6	-LU-AN4-AS4	22.6	4.4	12.7	25.4
5/16	8	-LU-AN5-AS5	24.1	6.0	14.3	26.9
3/8	10	-LU-AN6-AS6	26.9	7.5	14.3	31.8
1/2	12	-LU-AN8-AS8	31.8	9.9	20.6	35.1
5/8	16	-LU-AN10-AS10	36.8	12.3	20.6	41.1
3/4	18	-LU-AN12-AS12	42.2	15.5	27.0	44.4
7/8	22	-LU-AN14-AS14	45.7	18.3	31.8	45.2
1	25	-LU-AN16-AS16	46.0	21.5	34.9	50.8
1 1/4	32	-LU-AN20-AS20	52.3	27.5	42.9	58.7
1 1/2	38	-LU-AN24-AS24	59.2	33.0	50.8	65.8
2	50	-LU-AN32-AS32	77.7	45.0	63.5	85.9