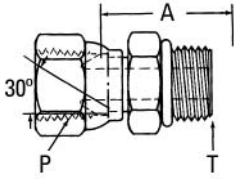


Pipe to SAE O-Ring

Internal Pipe Swivel (NPSM)/SAE O-Ring Boss

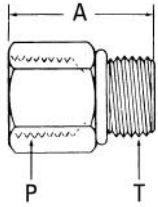


Part No. 2066-(Dash size)

Dash Size	Thread P	Thread T	A	
			mm	in
4-4S	1/4-18	7/16-20	26,7	1.05
4-6S	1/4-18	9/16-18	29,0	1.14
6-6S	3/8-18	9/16-18	29,0	1.14
6-8S	3/8-18	3/4-16	30,3	1.19
8-8S	1/2-14	3/4-16	31,2	1.23
8-10S	1/2-14	7/8-14	33,0	1.30
12-8S	3/4-14	3/4-16	37,8	1.49
12-10S	3/4-14	7/8-14	39,4	1.55
12-12S	3/4-14	1 1/16-12	40,1	1.58
12-14S	3/4-14	1 3/16-12	40,1	1.58
16-16S	1-11 1/2	1 5/16-12	40,4	1.59
16-20S	1-11 1/2	1 5/8-12	40,4	1.59

NOTE: Available without O-ring.
Order by Part No. 206604-(Dash size).

Internal Pipe/SAE O-Ring Boss

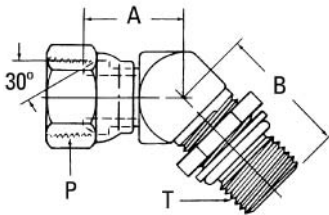


Part No. 2216-(Dash size)

Dash Size	Thread P	Thread T	A	
			mm	in
2-4S	1/8-27	7/16-20	23,4	0.92
4-5S	1/4-18	1/2-20	30,5	1.20
4-6S	1/4-18	9/16-18	31,5	1.24
6-8S	3/8-18	3/4-16	31,8	1.25
6-12S	3/8-18	1 1/16-12	34,0	1.34
8-8S	1/2-14	3/4-16	41,9	1.65
8-10S	1/2-14	7/8-14	39,1	1.54
8-12S	1/2-14	1 1/16-12	43,7	1.72
12-12S	3/4-14	1 1/16-12	42,4	1.67
12-14S	3/4-14	1 3/16-12	42,7	1.68
12-16S	3/4-14	1 5/16-12	25,4	1.00
16-16S	1-11 1/2	1 5/16-12	48,5	1.91
16-20S	1-11 1/2	1 5/8-12	25,4	1.00
20-20S	1 1/2-11 1/2	1 5/8-12	50,8	2.00
24-24S	1 1/2-11 1/2	1 7/8-12	50,8	2.00
32-32S	2-11 1/2	2 1/2-12	53,3	2.10

NOTE: Available without O-ring.
Order by Part no. 2216-1-(Dash size).

Internal Pipe Swivel (NPSM)/SAE O-Ring Boss (adj.)



Part No. 2067-(Dash size)

Dash Size	Thread P	Thread T	A		B	
			mm	in	mm	in
6-6S	3/8-18	9/16-18	23,4	0.92	30,5	1.20
6-8S	3/8-18	3/4-16	23,4	0.92	33,8	1.33
8-8S	1/2-14	3/4-16	23,1	0.91	35,3	1.39
8-10S	1/2-14	7/8-14	23,1	0.91	39,4	1.55
12-8S	3/4-14	3/4-16	27,9	1.10	36,6	1.44
12-12S	3/4-14	1 1/16-12	27,9	1.10	44,7	1.76
12-16S	3/4-14	1 5/16-12	27,9	1.10	48,0	1.89
16-12S	1-11 1/2	1 1/16-12	32,0	1.26	48,0	1.89
16-16S	1-11 1/2	1 5/16-12	32,0	1.26	48,0	1.89

NOTE: Available without O-ring. Order by Part No. 2067-1-(Dash size).

SPECIALTY & TRUCK HOSE

LOW & MEDIUM PRESSURE HOSE

HIGH PRESSURE HOSE

HOSE FITTINGS

ADAPTERS & TUBE FITTINGS

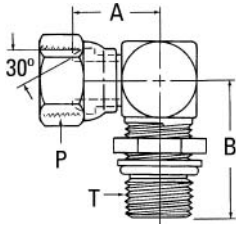
ACCESSORIES & ASSEMBLY INSTRUCTIONS

HOSE ASSEMBLY EQUIPMENT

APPENDICES

Pipe to SAE O-Ring

Internal Pipe Swivel (NPSM)/SAE O-Ring Boss (adj.)

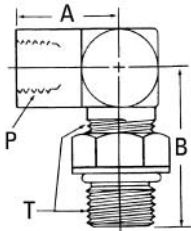


Part No. 2068-(Dash size)

Dash Size	Thread P	Thread T	A		B	
			mm	in	mm	in
4-4S	1/4-18	7/16-20	23,1	0.91	29,5	1.16
4-6S	1/4-18	9/16-18	18,5	0.73	31,8	1.25
6-6S	3/8-18	9/16-18	27,7	1.09	34,3	1.35
6-8S	3/8-18	3/4-16	27,7	1.09	37,6	1.48
8-8S	1/2-14	3/4-16	27,4	1.08	38,3	1.51
8-10S	1/2-14	7/8-14	27,4	1.08	42,4	1.67
12-8S	3/4-14	3/4-16	26,2	1.03	38,1	1.50
12-10S	3/4-14	7/8-14	27,7	1.09	43,2	1.70
12-12S	3/4-14	1 1/16-12	34,5	1.36	50,0	1.97
16-16S	1-11 1/2	1 5/16-12	38,9	1.53	53,9	2.12
20-16S	1 1/4-11 1/2	1 5/16-12	43,2	1.70	41,1	1.62
20-20S	1 1/4-11 1/2	1 5/8-12	41,1	1.62	60,7	2.39

NOTE: Available without O-ring. Order by Part No. 2068-1-(Dash size).

Internal Pipe/SAE O-Ring Boss (adj.)

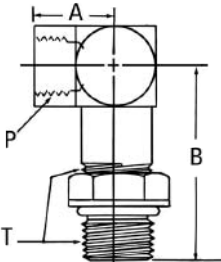


Part No. 206801-(Dash size)

Dash Size	Thread P	Thread T	A		B	
			mm	in	mm	in
6-8S	3/8-18	3/4-16	25,9	1.02	41,1	1.62
8-8S	1/2-14	3/4-16	31,2	1.23	43,9	1.73
12-12S	3/4-14	1 1/16-12	34,5	1.36	55,2	2.17
16-16S	1-11 1/2	1 5/16-12	41,1	1.62	61,2	2.41

NOTE: Available without O-ring. Order by Part No. 206801-1-(Dash size).

Internal Pipe/SAE O-Ring Boss (adj.)



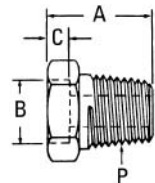
Part No. 206804-(Dash size)

Dash Size	Thread P	Thread T	A		B	
			mm	in	mm	in
6-8S	3/8-18	3/4-16	25,9	1.02	75,4	2.97
8-10S	1/2-14	7/8-14	31,2	1.23	90,4	3.56
12-12S	3/4-14	1 1/16-12	34,5	1.36	104,6	4.12
16-16S	1-11 1/2	1 5/16-12	41,1	1.62	117,8	4.64

NOTE: Available without O-ring. Order by Part No. 206804-1-(Dash size).

Pipe to Braze & Weld

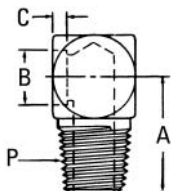
Braze Port/ External Pipe



Part No. 73056-(Dash size)

Dash Size	Tube O.D.		Thread P	A		B		C	
	mm	in		mm	in	mm	in	mm	in
16S	25,4	1.00	1-11 1/2	33,6	1.32	25,4	1.00	6,4	0.25
32S	50,8	2.00	2-11 1/2	38,9	1.53	50,8	2.00	6,4	0.25

Braze Port/ External Pipe



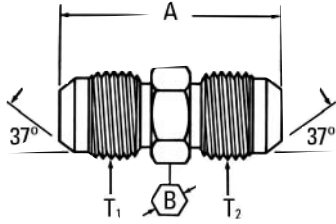
Part No. FF1159-(Dash size)

Dash Size	Tube O.D.		Thread P	A		B		C	
	mm	in		mm	in	mm	in	mm	in
0406S	9,6	0.38	1/4-18	22,9	0.90	9,7	0.38	4,0	0.16
2020S	31,7	1.25	1 1/4-11 1/2	59,7	2.35	31,8	1.25	6,4	0.25

SPECIALTY & TRUCK HOSE
 LOW & MEDIUM PRESSURE HOSE
 HIGH PRESSURE HOSE
 HOSE FITTINGS
 ADAPTERS & TUBE FITTINGS
 ACCESSORIES & ASSEMBLY INSTRUCTIONS
 HOSE ASSEMBLY EQUIPMENT
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SAE 37° (JIC) Flare Union

Union 37° Flare/ 37° Flare

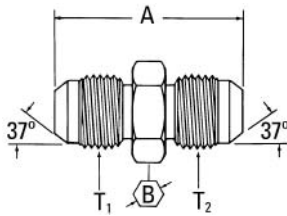


Part No. 2027-(Dash size) (Ref. SAE 070101)

Dash Size	Tube O.D.		Thread T1	Thread T2	A		B	
	mm	in			mm	in	mm	in
3-3S	4,8	0.19	3/8-24	3/8-24	31,2	1.23	11,2	0.44
4-4S	6,3	0.25	7/16-20	7/16-20	34,8	1.37	12,7	0.50
5-4S	6,3	0.25	1/2-20	7/16-20	34,8	1.37	14,2	0.56
5-5S	7,9	0.31	1/2-20	1/2-20	34,8	1.37	14,2	0.56
6-4S	6,3	0.25	9/16-18	7/16-20	35,6	1.40	15,7	0.62
6-5S	7,9	0.31	9/16-18	1/2-20	35,6	1.40	15,7	0.62
6-6S	9,6	0.38	9/16-18	9/16-18	35,8	1.41	15,7	0.62
8-4S	6,3	0.25	3/4-16	7/16-20	38,3	1.51	20,6	0.81
8-6S	9,6	0.38	3/4-16	9/16-18	38,6	1.52	20,6	0.81
8-8S	12,7	0.50	3/4-16	3/4-16	41,1	1.62	20,6	0.81
10-5S	7,9	0.31	7/8-14	1/2-20	42,4	1.67	23,9	0.94
10-6S	9,6	0.38	7/8-14	9/16-18	42,7	1.68	23,9	0.94
10-8S	12,7	0.50	7/8-14	3/4-16	45,2	1.78	23,9	0.94
10-10S	16,0	0.63	7/8-14	7/8-14	47,7	1.88	23,9	0.94
12-8S	9,6	0.38	1 1/16-12	3/4-16	49,5	1.95	28,5	1.12
12-10S	15,5	0.61	1 1/16-12	7/8-14	52,0	2.05	28,5	1.12
12-12S	19,0	0.75	1 1/16-12	1 1/16-12	54,9	2.16	28,5	1.12
14-14S	21,1	0.83	1 3/16-12	1 3/16-12	56,1	2.21	31,8	1.25
16-12S	19,0	0.75	1 5/16-12	1 1/16-12	55,9	2.20	35,1	1.38
16-16S	25,4	1.00	1 5/16-12	1 5/16-12	57,2	2.25	35,1	1.38
20-20S	31,7	1.25	1 5/8-12	1 5/8-12	61,7	2.43	42,9	1.69
24-24S	38,1	1.50	1 7/8-12	1 7/8-12	69,8	2.75	50,8	2.00
32-32S	50,8	2.00	2 1/2-12	2 1/2-12	86,4	3.40	66,5	2.62

Also available in stainless steel as part no. 259-2027.
See pg. 280 for more information.

37° Flare/37° Flare (Large Hex)



Part No. 202712-(Dash size) (Ref. SAE 070119)

Dash Size	Tube O.D.		Thread T1	Thread T2	A		B	
	mm	in			mm	in	mm	in
5-5S	7,9	0.31	1/2-20	1/2-20	34,8	1.37	19,0	0.75
6-4S	6,3	0.25	9/16-18	7/16-20	35,6	1.40	20,6	0.81
6-5S	7,9	0.31	9/16-18	1/2-20	35,6	1.40	20,6	0.81
8-8S	12,7	0.50	3/4-16	3/4-16	41,1	1.62	25,4	1.00
10-8S	12,7	0.50	7/8-14	3/4-16	45,2	1.78	28,5	1.12
10-10S	16,0	0.63	7/8-14	7/8-14	47,7	1.88	28,5	1.12
12-10S	16,0	0.63	1 1/16-12	7/8-14	52,0	2.05	35,1	1.38
12-12S	19,0	0.75	1 1/16-12	1 1/16-12	54,9	2.16	35,1	1.38
16-12S	19,0	0.75	1 5/16-12	1 1/16-12	55,9	2.20	41,1	1.62
16-16S	25,4	1.00	1 5/16-12	1 5/16-12	57,2	2.25	41,1	1.62
24-24S	38,1	1.50	1 7/8-12	1 7/8-12	69,8	2.75	53,9	2.12

SPECIALTY &
TRUCK HOSE

LOW & MEDIUM
PRESSURE HOSE

HIGH PRESSURE HOSE

HOSE FITTINGS

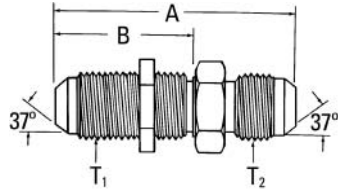
ADAPTERS &
TUBE FITTINGS

ACCESSORIES &
ASSEMBLY INSTRUCTIONS

HOSE ASSEMBLY
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37° Flare Bulkhead/37° Flare

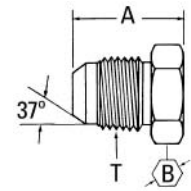


Part No. 2041-(Dash size) (Ref. SAE 070601)

Dash Size	Tube O.D.		Thread T1	Thread T2	A		B	
	mm	in			mm	in	mm	in
4-4S	6,3	0.25	7/16-20	7/16-20	52,6	2.07	31,2	1.23
4-6S	9,6	0.38	7/16-20	9/16-18	53,3	2.10	31,2	1.23
5-5S	7,9	0.31	1/2-20	1/2-20	52,6	2.07	31,2	1.23
6-6S	9,6	0.38	9/16-18	9/16-18	55,4	2.18	33,3	1.31
8-8S	12,7	0.50	3/4-16	3/4-16	62,0	2.44	37,3	1.47
10-10S	16,0	0.63	7/8-14	7/8-14	69,6	2.74	40,9	1.61
12-12S	19,0	0.75	1 1/16-12	1 1/16-12	78,5	3.09	45,2	1.78
12-16S	25,4	1.00	1 1/16-12	1 5/16-12	79,7	3.14	45,2	1.78
16-16S	25,4	1.00	1 5/16-12	1 5/16-12	79,7	3.14	45,2	1.78
20-20S	31,7	1.25	1 5/8-12	1 5/8-12	84,1	3.31	46,5	1.83
24-24S	38,1	1.50	1 7/8-12	1 7/8-12	89,4	3.52	46,7	1.84

NOTE: Available without nut. Order by Part No. 2041-1-(Dash size).

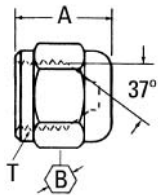
37° Flare Plug



Part No. 900599-(Dash size) (Ref. SAE 070109)

Dash Size	Tube O.D.		Thread T	A		B	
	mm	in		mm	in	mm	in
3S	4,8	0.19	3/8-24	18,5	0.73	11,2	0.44
4S	6,3	0.25	7/16-20	20,3	0.80	12,7	0.50
5S	7,9	0.31	1/2-20	20,3	0.80	14,2	0.56
6S	9,6	0.38	9/16-18	21,3	0.84	15,7	0.62
8S	12,7	0.50	3/4-16	23,9	0.94	20,6	0.81
10S	16,0	0.63	7/8-14	27,9	1.10	23,9	0.94
12S	19,0	0.75	1 1/16-12	32,5	1.28	28,5	1.12
16S	25,4	1.00	1 5/16-12	33,8	1.33	35,1	1.38
20S	31,7	1.25	1 5/8-12	36,8	1.45	42,9	1.69
24S	38,1	1.50	1 7/8-12	41,9	1.65	50,8	2.00
32S	50,8	2.00	2 1/2-12	52,0	2.05	66,5	2.62

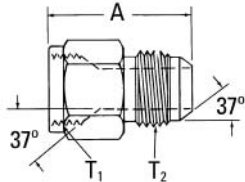
Cap Nut



Part No. 210292-(Dash size) (Ref. SAE 070112)

Dash Size	Tube O.D.		Thread T	A		B	
	mm	in		mm	in	mm	in
3S	4,8	0.19	3/8-24	14,2	0.56	11,2	0.44
4S	6,3	0.25	7/16-20	15,0	0.59	14,2	0.56
5S	7,9	0.31	1/2-20	15,5	0.61	15,7	0.62
6S	9,6	0.38	9/16-18	15,7	0.62	17,6	0.69
8S	12,7	0.50	3/4-16	19,0	0.75	22,4	0.88
10S	16,0	0.63	7/8-14	21,3	0.84	25,4	1.00
12S	19,0	0.75	1 1/16-12	23,1	0.91	31,8	1.25
16S	25,4	1.00	1 5/16-12	25,9	1.02	38,1	1.50
20S	31,7	1.25	1 5/8-12	26,9	1.06	50,8	2.00
24S	38,1	1.50	1 7/8-12	30,3	1.19	57,2	2.25
32S	50,8	2.00	2 1/2-12	36,6	1.44	73,1	2.88

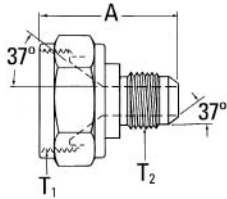
37° Flare (Internal)/ 37° Flare



Part No. 2215-(Dash size)

Dash Size	Tube O.D.		Thread T1	Thread T2	A	
	mm	in			mm	in
6-5S	7,9	0.31	9/16-18	1/2-20	30,0	1.18
10-8S	12,7	0.50	7/8-14	3/4-16	38,9	1.53
10-12S	19,0	0.75	7/8-14	1/16-12	44,2	1.74
12-10S	16,0	0.63	1 1/16-12	7/8-14	43,9	1.73
12-16S	25,4	1.00	1 1/16-12	1 5/16-12	50,8	2.00
16-20S	31,7	1.25	1 5/16-12	1 5/8-12	58,4	2.30
24-20S	31,7	1.25	1 7/8-12	1 5/8-12	58,4	2.30

37° Flare Swivel (Reducer)/37° Flare

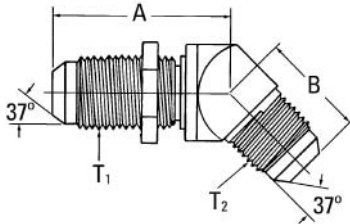


Part No. 221501-(Dash size) (Ref. SAE 070123)

Dash Size	Male Tube O.D.		Thread T1	Thread T2	A	
	mm	in			mm	in
6-4S	6,3	0.25	9/16-18	7/16-20	35,6	1.40
8-4S	6,3	0.25	3/4-16	7/16-20	38,1	1.50
8-6S	9,6	0.38	3/4-16	9/16-18	38,1	1.50
10-6S	9,6	0.38	7/8-14	9/16-18	41,1	1.62
12-6S	9,6	0.38	1 1/16-12	9/16-18	42,9	1.69
12-8S	12,7	0.50	1 1/16-12	3/4-16	45,5	1.79
16-6S	9,6	0.38	1 5/16-12	9/16-18	46,7	1.84
16-8S	12,7	0.50	1 5/16-12	3/4-16	49,3	1.94
16-10S	16,0	0.63	1 5/16-12	7/8-14	51,8	2.04
16-12S	19,0	0.75	1 5/16-12	1 1/16-12	54,6	2.15
20-16S	25,4	1.00	1 5/8-12	1 5/16-12	56,6	2.23

NOTE: Available without nut. Order by Part No. FF1066-(Dash size).

37° Flare Bulkhead/ 37° Flare

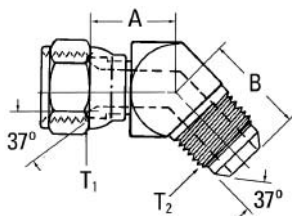


Part No. 2042-(Dash size) (Ref. SAE 070801)

Dash Size	Tube O.D.		Thread T1	Thread T2	A		B	
	mm	in			mm	in	mm	in
3-3S	4,8	0.19	3/8-24	3/8-24	35,1	1.38	18,3	0.72
4-4S	6,3	0.25	7/16-20	7/16-20	38,9	1.53	19,5	0.77
5-5S	7,9	0.31	1/2-20	1/2-20	42,2	1.66	19,0	0.75
6-6S	9,6	0.38	9/16-18	9/16-18	42,4	1.67	21,0	0.83
8-8S	12,7	0.50	3/4-16	3/4-16	49,3	1.94	24,9	0.98
10-10S	16,0	0.63	7/8-14	7/8-14	55,2	2.17	28,2	1.11
12-12S	19,0	0.75	1 1/16-12	1 1/16-12	59,9	2.36	35,8	1.41
16-16S	25,4	1.00	1 5/16-12	1 5/16-12	65,5	2.58	37,3	1.47
20-20S	31,7	1.25	1 5/8-12	1 5/8-12	64,3	2.53	42,9	1.69

NOTE: Available without nut. Order by Part No. 2042-1-(Dash size).

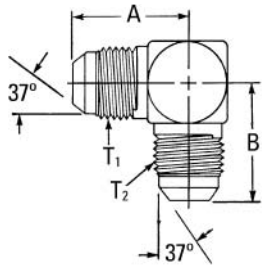
37° Flare Swivel/ 37° Flare



Part No. 2070-(Dash size) (Ref. SAE 070321)

Dash Size	Tube O.D.		Thread T1	Thread T2	A		B	
	mm	in			mm	in	mm	in
4-4S	6,3	0.25	7/16-20	7/16-20	15,2	0.60	18,3	0.72
5-5S	7,9	0.31	1/2-20	1/2-20	15,7	0.62	19,5	0.77
6-6S	9,6	0.38	9/16-18	9/16-18	18,8	0.74	21,0	0.83
8-8S	12,7	0.50	3/4-16	3/4-16	21,8	0.86	24,9	0.98
10-10S	16,0	0.63	7/8-14	7/8-14	23,9	0.94	28,2	1.11
12-12S	19,0	0.75	1 1/16-12	1 1/16-12	23,9	0.94	32,5	1.28
16-16S	25,4	1.00	1 5/16-12	1 5/16-12	29,5	1.16	37,3	1.47

37° Flare/37° Flare

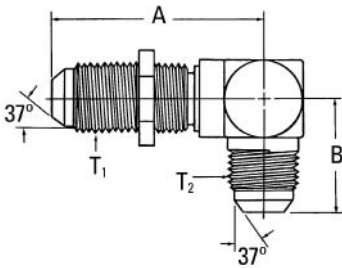


Part No. 2039-(Dash size) (Ref. SAE 070201)

Dash Size	Tube O.D.		Thread T1	Thread T2	A		B	
	mm	in			mm	in	mm	in
4-4S	6,3	0.25	7/16-20	7/16-20	22,6	0.89	22,6	0.89
5-5S	7,9	0.31	1/2-20	1/2-20	24,1	0.95	24,1	0.95
6-6S	9,6	0.38	9/16-18	9/16-18	26,9	1.06	26,9	1.06
8-6S	9,6	0.38	3/4-16	9/16-16	31,8	1.25	29,0	1.14
8-8S	12,7	0.50	3/4-16	3/4-16	31,8	1.25	31,8	1.25
10-10S	16,0	0.63	7/8-14	7/8-14	36,8	1.45	36,8	1.45
12-12S	19,0	0.75	1 1/16-12	1 1/16-12	42,2	1.66	42,2	1.66
16-12S	19,0	0.75	1 5/16-12	1 1/16-12	46,0	1.81	44,7	1.76
16-16S	25,4	1.00	1 5/16-12	1 5/16-12	46,0	1.81	46,0	1.81
20-20S	31,7	1.25	1 5/8-12	1 5/8-12	52,3	2.06	52,3	2.06
24-24S	38,1	1.50	1 7/8-12	1 7/8-12	59,2	2.33	59,2	2.33
32-32S	50,8	2.00	2 1/2-12	2 1/2-12	77,7	3.06	77,7	3.06

Also available in stainless steel as part no. 259-2039. See pg. 280 for more information.

37° Flare Bulkhead/ 37° Flare

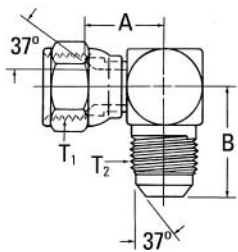


Part No. 2043-(Dash size) (Ref. SAE 070701)

Dash Size	Tube O.D.		Thread T1	Thread T2	A		B	
	mm	in			mm	in	mm	in
4-4S	6,3	0.25	7/16-20	7/16-20	40,4	1.59	24,6	0.97
5-5S	7,9	0.31	1/2-20	1/2-20	43,7	1.72	26,9	1.06
6-6S	9,6	0.38	9/16-18	9/16-18	46,0	1.81	27,7	1.09
8-8S	12,7	0.50	3/4-16	3/4-16	53,6	2.11	34,5	1.36
10-10S	16,0	0.63	7/8-14	7/8-14	60,7	2.39	39,6	1.56
12-12S	19,0	0.75	1 1/16-12	1 1/16-12	67,8	2.67	45,2	1.78
16-16S	25,4	1.00	1 5/16-12	1 5/16-12	71,1	2.80	49,3	1.94
20-20S	31,7	1.25	1 5/8-12	1 5/8-12	79,2	3.12	55,9	2.20

NOTE: Available without nut. Order by Part No. 2043-1-(Dash size).

37° Flare Swivel/ 37° Flare

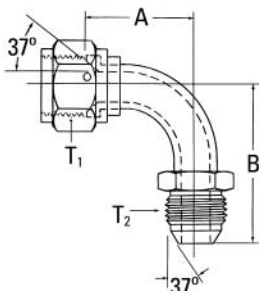


Part No. 2071-(Dash size) (Ref. SAE 070221)

Dash Size	Tube O.D.		Thread T1	Thread T2	A		B	
	mm	in			mm	in	mm	in
4-4S	6,3	0.25	7/16-20	7/16-20	16,8	0.66	22,6	0.89
4-6S	9,6	0.38	7/16-20	9/16-18	20,8	0.82	26,9	1.06
5-5S	7,9	0.31	1/2-20	1/2-20	17,3	0.68	24,1	0.95
6-6S	9,6	0.38	9/16-18	9/16-18	22,4	0.88	26,9	1.06
8-8S	12,7	0.50	3/4-16	3/4-16	24,4	0.96	31,8	1.25
10-8S	12,7	0.50	7/8-14	3/4-16	28,5	1.12	33,8	1.33
10-10S	16,0	0.63	7/8-14	7/8-14	28,5	1.12	36,8	1.45
12-12S	19,0	0.75	1 1/16-12	1 1/16-12	30,3	1.19	42,2	1.66
14-14S	22,3	0.88	1 3/16-12	1 3/16-12	30,5	1.20	45,7	1.80
16-16S	25,4	1.00	1 5/16-12	1 5/16-12	35,8	1.41	46,0	1.81
20-20S	31,7	1.25	1 5/8-12	1 5/8-12	42,7	1.68	52,3	2.06
24-24S	38,1	1.50	1 7/8-12	1 7/8-12	47,2	1.86	59,2	2.33

Also available in stainless steel as part no. 259-2071. See pg. 280 for more information.

37° Flare Swivel/ 37° Flare*



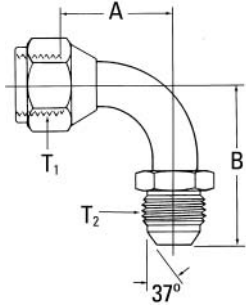
Part No. FF5163-(Dash size)

Dash Size	Tube O.D.		Thread T1	Thread T2	A		B	
	mm	in			mm	in	mm	in
0808S	12,7	0.50	3/4-16	3/4-16	47,5	1.87	54,9	2.16
1212S	19,0	0.75	1 1/16-12	1 1/16-12	59,7	2.35	71,4	2.81
1616S	25,4	1.00	1 5/16-12	1 5/16-12	77,2	3.04	86,6	3.41
2020S	31,7	1.25	1 5/8-12	1 5/8-12	86,4	3.40	94,2	3.71
2424S	38,1	1.50	1 7/8-12	1 7/8-12	100,3	3.95	110,0	4.33

*Suitable for pressures through heavy spiral hose - SAE 100R10.

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 APPENDICES

**37° Flare Swivel/
37° Flare***

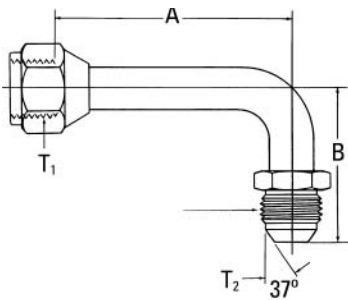


Part No. 500454-(Dash size)

Dash Size	Tube O.D.		Thread T1	Thread T2	A		B	
	mm	in			mm	in	mm	in
4S	6,3	0.25	7/16-20	7/16-20	17,3	0.68	28,5	1.12
5S	7,9	0.31	1/2-20	1/2-20	19,5	0.77	31,5	1.24
6S	9,6	0.38	9/16-18	9/16-18	21,6	0.85	33,3	1.31
8S	12,7	0.50	3/4-16	3/4-16	27,7	1.09	42,2	1.66
10S	16,0	0.63	7/8-14	7/8-14	31,2	1.23	46,2	1.82
12S	19,0	0.75	1 1/16-12	1 1/16-12	46,2	1.82	63,2	2.49
16S	25,4	1.00	1 5/16-12	1 5/16-12	60,7	2.39	70,9	2.79
20S	31,7	1.25	1 5/8-12	1 5/8-12	69,8	2.75	79,7	3.14

*Suitable for pressures through 4 light spiral hose - SAE 100R9.

**37° Flare Swivel/
37° Flare***

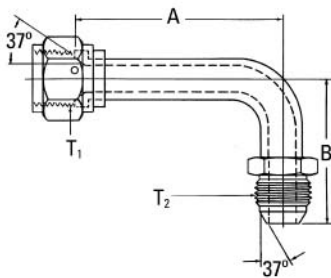


Part No. 504095-(Dash size)

Dash Size	Tube O.D.		Thread T1	Thread T2	A		B	
	mm	in			mm	in	mm	in
4S	6,3	0.25	7/16-20	7/16-20	45,7	1.80	28,5	1.12
5S	7,9	0.31	1/2-20	1/2-20	44,9	1.77	31,5	1.24
6S	9,6	0.38	9/16-18	9/16-18	55,4	2.18	33,3	1.31
8S	12,7	0.50	3/4-16	3/4-16	61,7	2.43	45,2	1.78
10S	16,0	0.63	7/8-14	7/8-14	65,3	2.57	52,6	2.07
12S	19,0	0.75	1 1/16-12	1 1/16-12	94,7	3.73	63,2	2.49
16S	25,4	1.00	1 5/16-12	1 5/16-12	116,3	4.58	70,9	2.79
20S	31,7	1.25	1 5/8-12	1 5/8-12	140,5	5.53	79,7	3.14

*Suitable for pressures through 4 light spiral hose - SAE 100R9

**37° Flare Swivel/
37° Flare***

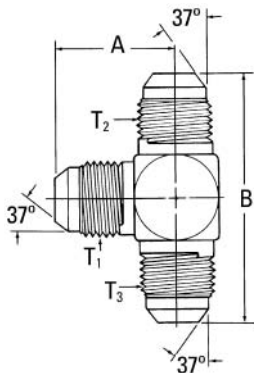


Part No. FF5164-(Dash size)

Dash Size	Tube O.D.		Thread T1	Thread T2	A		B	
	mm	in			mm	in	mm	in
3808S	12,7	0.50	3/4-16	3/4-16	84,8	3.34	54,9	2.16
1212S	19,0	0.75	1 1/16-12	1 1/16-12	112,0	4.41	71,4	2.81
1616S	25,4	1.00	1 5/16-12	1 5/16-12	133,1	5.24	86,6	3.41
2020S	31,7	1.25	1 5/8-12	1 5/8-12	164,6	6.48	94,2	3.71

*Suitable for pressures through heavy spiral hose - SAE 100R10

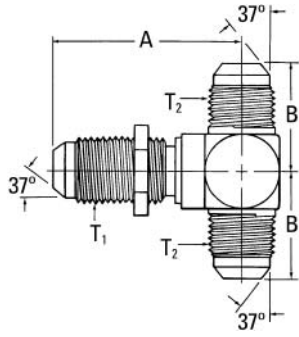
**37° Flare/
37° Flare/37° Flare**



Part No. 2033-(Dash size) (Ref. SAE 070401)

Dash Size	Thread T1	Thread T2	Thread T3	A		B	
				mm	in	mm	in
4-4S	7/16-20	7/16-20	7/16-20	22,6	0.89	45,2	1.78
5-5S	1/2-20	1/2-20	1/2-20	24,1	0.95	48,3	1.90
6-6S	9/16-18	9/16-18	9/16-18	26,9	1.06	53,3	2.10
8-6-6S	3/4-16	9/16-18	9/16-18	31,8	1.25	57,9	2.28
8-8S	3/4-16	3/4-16	3/4-16	31,8	1.25	63,5	2.50
8-12-12S	3/4-16	1 1/16-12	1 1/16-12	36,1	1.42	84,3	3.32
10-10S	7/8-14	7/8-14	7/8-14	36,8	1.45	73,7	2.90
12-12S	1 1/16-12	1 1/16-12	1 1/16-12	42,2	1.66	84,3	3.32
12-12-16S	1 1/16-12	1 1/16-12	1 5/16-12	46,7	1.84	92,7	3.65
16-16S	1 5/16-12	1 5/16-12	1 5/16-12	46,0	1.81	91,9	3.62
16-16-20S	1 5/16-12	1 5/16-12	1 5/8-12	52,8	2.08	103,1	4.06
20-12-16S	1 5/8-12	1 1/16-12	1 5/16-12	52,3	2.06	103,9	4.09
20-16-16S	1 5/8-12	1 5/16-12	1 5/16-12	52,3	2.06	107,2	4.22
20-20S	1 5/8-12	1 5/8-12	1 5/8-12	52,3	2.06	111,2	4.38

**37° Flare Bulkhead/
37° Flare**

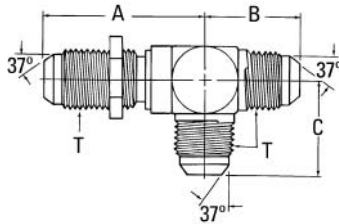


Part No. 203002-(Dash size) (Ref. SAE 070959)

Dash Size	Tube O.D.		Thread T1	Thread T2	A		B	
	mm	in			mm	in	mm	in
4-4S	6,3	0.25	7/16-20	7/16-20	40,4	1.59	23,4	0.92
5-5S	7,9	0.31	1/2-20	1/2-20	41,1	1.62	24,1	0.95
6-6S	9,6	0.38	9/16-18	9/16-18	46,0	1.81	26,9	1.06
8-8S	12,7	0.50	3/4-16	3/4-16	53,6	2.11	31,5	1.24
10-10S	16,0	0.63	7/8-14	7/8-14	60,7	2.39	36,6	1.44
12-12S	19,0	0.75	1 1/16-12	1 5/16-12	67,8	2.67	43,7	1.72
16-16S	25,4	1.00	1 5/8-12	1 5/8-12	71,1	2.80	49,3	1.94

NOTE: Available without nut. Order by Part No. 203002-1-(Dash size).

**37° Flare Bulkhead/
37° Flare**

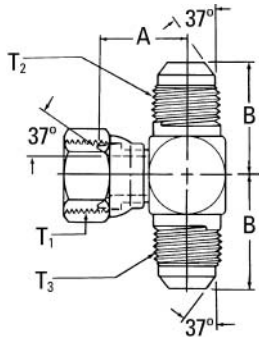


Part No. 203008-(Dash size) (Ref. SAE 070958)

Dash Size	Tube O.D.		Thread T1	A		B		C	
	mm	in		mm	in	mm	in	mm	in
6-6S	9,6	0.38	9/16-18	46,0	1.81	27,7	1.09	27,7	1.09
8-8S	12,7	0.50	3/4-16	53,6	2.11	34,5	1.36	34,5	1.36
12-12S	19,0	0.75	1 1/16-12	67,8	2.67	42,2	1.66	42,2	1.66
16-16S	25,4	1.00	1 5/8-12	71,1	2.80	49,3	1.94	49,3	1.94
20-20S	31,7	1.25	1 5/8-12	79,2	3.12	55,6	2.19	52,3	2.06

NOTE: Available without nut. Order by Part No. FF1065-(Dash size).

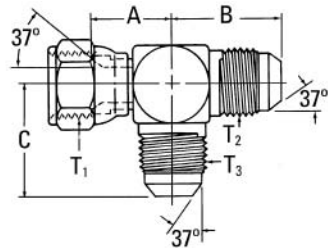
**37° Flare Swivel/
37° Flare/37° Flare**



Part No. 203101-(Dash size) (Ref. SAE 070433)

Dash Size	Thread T1	Thread T2	Thread T3	A		B	
				mm	in	mm	in
4-4S	7/16-20	7/16-20	7/16-20	22,6	0.89	45,2	1.78
4-4S	7/16-20	7/16-20	7/16-20	16,8	0.66	22,6	0.89
6-6S	9/16-18	9/16-18	9/16-18	22,4	0.88	26,7	1.05
8-8S	3/4-16	3/4-16	3/4-16	24,4	0.96	31,8	1.25
10-10S	7/8-14	7/8-14	7/8-14	28,5	1.12	36,8	1.45
12-12S	1 1/16-12	1 1/16-12	1 1/16-12	30,3	1.19	42,2	1.66
16-16S	1 5/8-12	1 5/8-12	1 5/8-12	35,8	1.41	46,0	1.81
20-20S	1 5/8-12	1 5/8-12	1 5/8-12	39,4	1.55	52,3	2.06

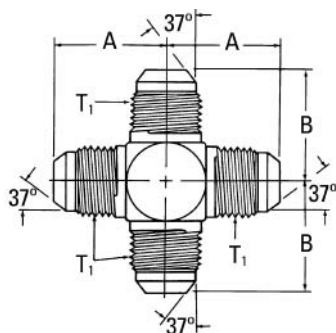
**37° Flare Bulkhead/
37° Flare/37° Flare**



Part No. 203102-(Dash size) (Ref. SAE 070432)

Dash Size	Tube O.D.		Thread T1	Thread T2	Thread T3	A		B		C	
	mm	in				mm	in	mm	in	mm	in
4-4S	6,3	0.25	7/16-20	7/16-20	7/16-20	16,8	0.66	22,6	0.89	22,6	0.89
5-5S	7,9	0.31	1/2-20	1/2-20	1/2-20	17,3	0.68	24,1	0.95	24,1	0.95
6-6S	9,6	0.38	9/16-18	9/16-18	9/16-18	22,4	0.88	26,9	1.06	26,9	1.06
8-8S	12,7	0.50	3/4-16	3/4-16	3/4-16	24,4	0.96	31,8	1.25	31,8	1.25
10-10S	16,0	0.63	7/8-14	7/8-14	7/8-14	28,5	1.12	36,8	1.45	36,8	1.45
10-10-12S	19,0	0.75	7/8-14	7/8-14	1 1/16-12	28,7	1.13	39,1	1.54	42,2	1.66
12-12S	19,0	0.75	1 1/16-12	1 1/16-12	1 1/16-12	30,3	1.19	42,2	1.66	42,2	1.66
16-16S	25,4	1.00	1 5/8-12	1 5/8-12	1 5/8-12	35,8	1.41	46,0	1.81	46,0	1.81
20-20S	31,7	1.25	1 5/8-12	1 5/8-12	1 5/8-12	42,7	1.68	52,3	2.06	52,3	2.06

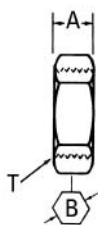
37° Flare



Part No. 2020-(Dash size) (Ref. SAE 070501)

Dash Size	Tube O.D.		Thread T1	A		B	
	mm	in		mm	in	mm	in
4-4S	6,3	0.25	7/16-20	22,6	0.89	22,6	0.89
5-5S	7,9	0.31	1/2-20	24,1	0.95	24,1	0.95
6-6S	9,6	0.38	9/16-18	26,9	1.06	26,9	1.06
8-8S	12,7	0.50	3/4-16	31,8	1.25	31,8	1.25
10-10S	16,0	0.63	7/8-14	36,8	1.45	36,8	1.45
12-12S	19,0	0.75	1 1/16-12	42,2	1.66	44,2	1.74
16-16S	25,4	1.00	1 5/16-12	46,0	1.81	49,8	1.96

Bulkhead Lock Nut

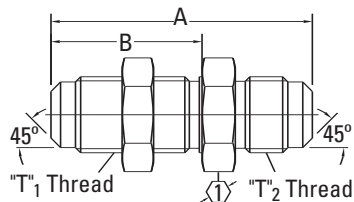


Part No. 210212-(Dash size) (Ref. SAE 070118)

Dash Size	Tube O.D.		Thread T1	A		B	
	mm	in		mm	in	mm	in
4S	6,3	0.25	7/16-20	6,4	0.25	17,6	0.69
5S	7,9	0.31	1/2-20	6,4	0.25	19,0	0.75
6S	9,6	0.38	9/16-18	6,8	0.27	20,6	0.81
8S	12,7	0.50	3/4-16	7,9	0.31	25,4	1.00
10S	16,0	0.63	7/8-14	9,1	0.36	28,5	1.12
12S	19,0	0.75	1 1/16-12	10,4	0.41	35,1	1.38
16S	25,4	1.00	1 5/16-12	10,4	0.41	41,1	1.62
20S	31,7	1.25	1 5/8-12	10,4	0.41	47,7	1.88
24S	38,1	1.50	1 7/8-12	10,4	0.41	53,9	2.12

SAE 45° Flare Union

SAE 45° Flare Bulkhead/45° Flare

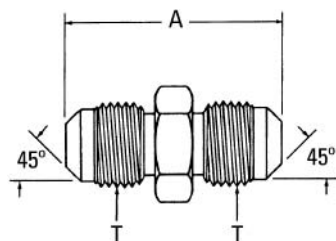


Part No. 2056-(Dash size)

Dash Size	Tube O.D.		Thread T1	Thread T2	A		B		①
	mm	in			mm	in	mm	in	
10-10S	16,0	0.63	7/8-14	7/8-14	75,9	2.99	43,9	1.73	28,5 1.12

Note: Available without nut. Order by Part No. 2056-1-(Dash size)

45° Flare/45° Flare



Part No. 2060-(Dash size)

(Ref. SAE 010101)

Dash Size	Tube O.D.		Thread T	A	
	mm	in		mm	in
2-2B	3,3	0.13	5/16-24	23,4	0.92
3-3B	4,8	0.19	3/8-24	26,9	1.06
4-4B	6,3	0.25	7/16-20	30,3	1.19
5-5B	7,9	0.31	1/2-20	34,0	1.34
6-6B	9,6	0.38	5/8-18	38,1	1.50
8-8B	12,7	0.50	3/4-16	46,0	1.81
10-10B	16,0	0.63	7/8-14	53,9	2.12
12-12B	19,0	0.75	1 1/16-14	62,0	2.44

SPECIALTY & TRUCK HOSE

LOW & MEDIUM PRESSURE HOSE

HIGH PRESSURE HOSE

HOSE FITTINGS

ADAPTERS & TUBE FITTINGS

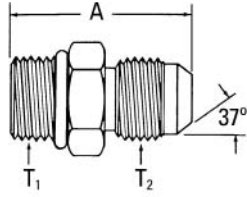
ACCESSORIES & ASSEMBLY INSTRUCTIONS

HOSE ASSEMBLY EQUIPMENT

APPENDICES

SAE O-Ring to 37° Flare

SAE O-Ring Boss/ 37° Flare



Part No. 202702-(Dash size) (Ref. SAE 070120)

Dash Size	Tube O.D.		Thread T1	Thread T2	A	
	mm	in			mm	in
4-4S	6,3	0.25	7/16-20	7/16-20	31,2	1.23
4-6S	9,6	0.38	7/16-20	9/16-18	32,3	1.27
4-8S	12,7	0.50	7/16-20	3/4-16	37,8	1.49
5-5S	7,9	0.31	1/2-20	1/2-20	31,2	1.23
5-6S	9,6	0.38	1/2-20	9/16-18	32,3	1.27
6-4S	6,3	0.25	9/16-18	7/16-20	32,8	1.29
6-6S	9,6	0.38	9/16-18	9/16-18	33,0	1.30
6-8S	12,7	0.50	9/16-18	3/4-16	36,6	1.44
6-10S	16,0	0.63	9/16-18	7/8-14	43,4	1.71
8-4S	6,3	0.25	3/4-16	7/16-20	34,8	1.37
8-5S	7,9	0.31	3/4-16	1/2-20	34,8	1.37
8-6S	9,6	0.38	3/4-16	9/16-18	35,1	1.38
8-8S	12,7	0.50	3/4-16	3/4-16	37,6	1.48
8-10S	16,0	0.63	3/4-16	7/8-14	41,6	1.64
8-12S	19,0	0.75	3/4-16	1 1/16-12	49,3	1.94
10-4S	6,3	0.25	7/8-14	7/16-20	37,8	1.49
10-6S	9,6	0.38	7/8-14	9/16-18	38,1	1.50
10-8S	12,7	0.50	7/8-14	3/4-16	40,6	1.60
10-10S	16,0	0.63	7/8-14	7/8-14	43,2	1.70
10-12S	19,0	0.75	7/8-14	1 1/16-12	47,7	1.88
10-16S	25,4	1.00	7/8-14	1 5/16-12	52,6	2.07
12-6S	9,6	0.38	1 1/16-12	9/16-18	42,2	1.66
12-8S	12,7	0.50	1 1/16-12	3/4-16	44,7	1.76
12-10S	16,0	0.63	1 1/16-12	7/8-14	47,2	1.86
12-12S	19,0	0.75	1 1/16-12	1 1/16-12	50,0	1.97
12-14S	22,3	0.88	1 1/16-12	1 3/16-12	50,5	1.99
12-16S	25,4	1.00	1 1/16-12	1 5/16-12	51,8	2.04
12-20S	31,7	1.25	1 1/16-12	1 5/8-12	58,4	2.30
14-10S	16,0	0.63	1 3/16-12	7/8-14	47,2	1.86
14-12S	19,0	0.75	1 3/16-12	1 1/16-12	49,8	1.96
14-16S	25,4	1.00	1 9/16-12	1 5/16-12	51,8	2.04
16-8S	12,7	0.50	1 5/16-12	3/4-16	45,5	1.79
16-10S	16,0	0.63	1 5/16-12	7/8-14	48,0	1.89
16-12S	19,0	0.75	1 5/16-12	1 1/16-12	50,5	1.99
16-16S	25,4	1.00	1 5/16-12	1 5/16-12	51,8	2.04
16-20S	31,7	1.25	1 5/16-12	1 5/8-12	59,2	2.33
20-12S	19,0	0.75	1 5/8-12	1 1/16-12	52,8	2.08
20-16S	25,4	1.00	1 5/8-12	1 5/16-12	53,9	2.12
20-20S	31,7	1.25	1 5/8-12	1 5/8-12	55,2	2.17
20-24S	38,1	1.50	1 5/8-12	1 7/8-12	64,3	2.53
24-16S	25,4	1.00	1 7/8-12	1 5/16-12	55,9	2.20
24-20S	31,7	1.25	1 7/8-12	1 5/8-12	56,9	2.24
24-24S	38,1	1.50	1 7/8-12	1 7/8-12	60,2	2.37
32-32S	50,8	2.00	2 1/2-12	2 1/2-12	70,6	2.78

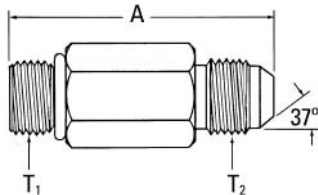
Available without O-ring. Order by Part No. 202701-(Dash size).

Also available in stainless steel as part no. 259-202702.

See pg. 281 for more information.

SPECIALTY & TRUCK HOSE
LOW & MEDIUM PRESSURE HOSE
HIGH PRESSURE HOSE
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HOSE ASSEMBLY EQUIPMENT
APPENDICES

SAE O-Ring Boss/ 37° Flare

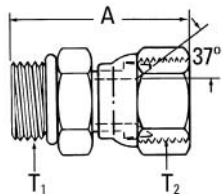


Part No. 202713-(Dash size)

Dash Size	Tube O.D.		Thread T1	Thread T2	A	
	mm	in			mm	in
6-6S	9,6	0.38	9/16-18	9/16-18	58,7	2.31
8-8S	12,7	0.50	3/4-16	3/4-16	68,6	2.70
10-10S	16,0	0.63	7/8-14	7/8-14	77,2	3.04
12-12S	19,0	0.75	1 1/16-12	1 1/16-12	91,7	3.61
16-16S	25,4	1.00	1 5/16-12	1 5/16-12	101,1	3.98

NOTE: Available without O-ring. Order by Part No. 202703-(Dash size).

SAE O-Ring Boss/ 37° Flare Swivel

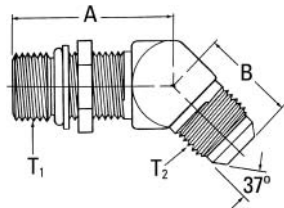


Part No. 2266-(Dash size)

Dash Size	Tube O.D.		Thread T1	Thread T2	A	
	mm	in			mm	in
6-8S	12,7	0.50	9/16-18	3/4-16	41,4	1.63
8-8S	12,7	0.50	3/4-16	3/4-16	39,4	1.55
10-10S	16,0	0.63	7/8-14	7/8-14	43,7	1.72
12-12S	19,0	0.75	1 1/16-12	1 1/16-12	48,3	1.90
16-16S	25,4	1.00	1 5/16-12	1 5/16-12	53,6	2.11

NOTE: Available without O-ring. Order by Part No. 226601-(Dash size).

SAE O-Ring boss (adj.)/37° flare

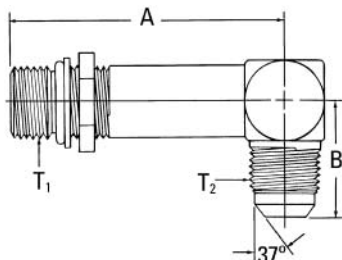


Part No. 2061-(Dash size) (Ref. SAE 070320)

Dash Size	Tube O.D.		Thread T1	Thread T2	A		B	
	mm	in			mm	in	mm	in
4-4S	6,3	0.25	7/16-20	7/16-20	26,7	1.05	18,3	0.72
5-5S	7,9	0.31	1/2-20	1/2-20	26,7	1.05	19,5	0.77
6-6S	9,6	0.38	9/16-18	9/16-18	29,0	1.14	21,0	0.83
8-8S	12,7	0.50	3/4-16	3/4-16	33,0	1.30	24,9	0.98
8-10S	16,0	0.63	3/4-16	7/8-14	34,5	1.36	28,2	1.11
10-8S	12,7	0.50	7/8-14	3/4-16	38,6	1.52	25,1	0.99
10-10S	16,0	0.63	7/8-14	7/8-14	38,6	1.52	28,2	1.11
12-12S	19,0	0.75	1 1/16-12	1 1/16-12	43,9	1.73	32,5	1.28
12-16S	25,4	1.00	1 1/16-12	1 5/16-12	47,2	1.86	37,3	1.47
16-12S	19,0	0.75	1 5/16-12	1 1/16-12	47,2	1.86	36,1	1.42
16-16S	25,4	1.00	1 5/16-12	1 5/16-12	47,2	1.86	37,3	1.47
20-16S	25,4	1.00	1 5/8-12	1 5/16-12	49,3	1.94	38,6	1.52
20-20S	31,7	1.25	1 5/8-12	1 5/8-12	49,3	1.94	41,4	1.63

NOTE: Available without O-ring. Order by Part No. 2061-1-(Dash size).

SAE O-Ring Boss (adj.)/37° Flare



Part No. 206209-(Dash size)

Dash Size	Tube O.D.		Thread T1	Thread T2	A		B	
	mm	in			mm	in	mm	in
4-4S	6,3	0.25	7/16-20	7/16-20	43,9	1.73	22,6	0.89
6-6S	9,6	0.38	9/16-18	9/16-18	52,8	2.08	26,9	1.06
8-8S	12,7	0.50	3/4-16	3/4-16	63,0	2.48	31,8	1.25
8-10S	16,0	0.63	3/4-16	7/8-14	64,0	2.52	36,8	1.45
10-10S	16,0	0.63	7/8-14	7/8-14	73,4	2.89	36,8	1.45
12-12S	19,0	0.75	1 1/16-12	1 1/16-12	84,8	3.34	42,2	1.66
16-16S	25,4	1.00	1 5/16-12	1 5/16-12	94,5	3.72	46,0	1.81
20-20S	31,7	1.25	1 5/8-12	1 5/8-12	112,0	4.41	52,3	2.06

NOTE: Available without O-ring. Order by Part No. 206209-1-(Dash size).

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HOSE FITTINGS

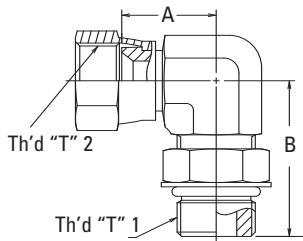
ADAPTERS &
TUBE FITTINGS

ACCESSORIES &
ASSEMBLY INSTRUCTIONS

HOSE ASSEMBLY
EQUIPMENT

APPENDICES

**SAE O-Ring Boss(adj.)/
37° Flare Swivel**

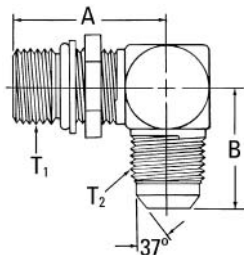


Part No. 2214-(Dash size)

Dash Size	Tube O.D.		Thread T1	Thread T2	A		B	
	mm	in			mm	in	mm	in
4-4S	6,3	0.25	7/16-20	7/16-20	17,3	0.68	27,9	1.10
6-4S	9,6	0.38	9/16-18	7/16-20	19,0	0.75	31,8	1.25
8-8S	12,7	0.50	3/4-16	3/4-16	23,9	0.94	36,8	1.45
12-12S	19,0	0.75	1 1/16-12	1 1/16-12	30,0	1.18	49,3	1.94

NOTE: Available without O-ring. Order by Part No. 2214-2-(Dash size).

**SAE O-Ring Boss(adj.)/
37° Flare**

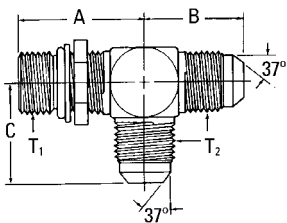


Part No. 2062-(Dash size) (Ref. SAE 070220)

Dash Size	Tube O.D.		Thread T1	Thread T2	A		B	
	mm	in			mm	in	mm	in
4-4S	6,3	0.25	7/16-20	7/16-20	26,2	1.03	22,6	0.89
4-6S	9,6	0.38	7/16-20	9/16-18	30,3	1.19	26,9	1.06
5-5S	7,9	0.31	1/2-20	1/2-20	28,7	1.13	24,1	0.95
5-6S	9,6	0.38	1/2-20	9/16-18	30,3	1.19	26,9	1.06
6-4S	6,3	0.25	9/16-18	7/16-20	31,8	1.25	26,7	1.05
6-6S	9,6	0.38	9/16-18	9/16-18	31,8	1.25	26,9	1.06
6-8S	12,7	0.50	9/16-18	3/4-16	33,6	1.32	31,8	1.25
8-5S	7,9	0.31	3/4-16	1/2-20	36,8	1.45	26,4	1.04
8-6S	9,6	0.38	3/4-16	9/16-18	36,8	1.45	29,0	1.14
8-8S	12,7	0.50	3/4-16	3/4-16	36,8	1.45	31,8	1.25
8-10S	16,0	0.63	3/4-16	7/8-14	39,1	1.54	36,8	1.45
10-6S	9,6	0.38	7/8-14	9/16-18	43,2	1.70	29,0	1.14
10-8S	12,7	0.50	7/8-14	3/4-16	43,2	1.70	33,8	1.33
10-10S	16,0	0.63	7/8-14	7/8-14	43,2	1.70	36,8	1.45
10-12S	19,0	0.75	7/8-14	1 1/16-12	45,2	1.78	42,2	1.66
12-8S	12,7	0.50	1 1/16-12	3/4-16	49,3	1.94	36,1	1.42
12-10S	16,0	0.63	1 1/16-12	7/8-14	49,3	1.94	39,1	1.54
12-12S	19,0	0.75	1 1/16-12	1 1/16-12	49,3	1.94	42,2	1.66
12-16S	25,4	1.00	1 1/16-12	1 5/16-12	52,0	2.05	46,0	1.81
12-20S	31,7	1.25	1 1/16-12	1 5/8-12	56,1	2.21	52,3	2.06
14-16S	25,4	1.00	1 3/16-12	1 5/16-12	52,3	2.06	46,0	1.81
16-8S	12,7	0.50	1 5/16-12	3/4-16	52,0	2.05	38,6	1.52
16-12S	19,0	0.75	1 5/16-12	1 1/16-12	52,0	2.05	44,7	1.76
16-16S	25,4	1.00	1 5/16-12	1 5/16-12	52,0	2.05	46,0	1.81
16-20S	31,7	1.25	1 5/16-12	1 5/8-12	56,1	2.21	52,3	2.06
20-16S	25,4	1.00	1 5/8-12	1 5/16-12	55,9	2.20	53,1	2.09
20-20S	31,7	1.25	1 5/8-12	1 5/8-12	57,2	2.25	52,3	2.06
20-24S	38,1	1.50	1 5/8-12	1 7/8-12	60,7	2.39	59,2	2.33
24-20S	31,7	1.25	1 7/8-12	1 5/8-12	60,7	2.39	55,9	2.20
24-24S	38,1	1.50	1 7/8-12	1 7/8-12	60,7	2.39	59,2	2.33

Note: Available without O-ring. Order by Part No. 2062-1-(Dash size). Also available in stainless steel as part no. 259-2062. See pg. 281 for more information.

**SAE O-Ring Boss(adj.)/
37° Flare**



Part No. 203005-(Dash size) (Ref. SAE 070428)

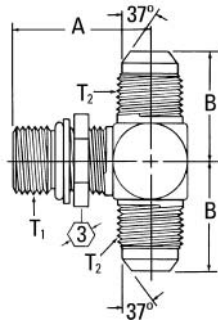
Dash Size	Tube O.D.		Thread T1	Thread T2	A		B		C	
	mm	in			mm	in	mm	in	mm	in
4-4S	6,3	0.25	7/16-20	7/16-20	26,2	1.03	22,6	0.89	22,6	0.89
5-5S	7,9	0.31	1/2-20	1/2-20	27,7	1.09	24,4	0.96	24,1	0.95
6-4-4S			9/16-18	7/16-20	31,8	1.25	26,7	1.05	24,6	0.97
6-6S	9,6	0.38	9/16-18	9/16-18	31,8	1.25	26,9	1.06	26,9	1.06
8-8S	12,7	0.50	3/4-16	3/4-16	36,8	1.45	31,8	1.25	31,8	1.25
10-10S	16,0	0.63	7/8-14	7/8-14	43,2	1.70	36,8	1.45	36,8	1.45
12-12S	19,0	0.75	1 1/16-12	1 1/16-12	49,3	1.94	42,2	1.66	42,2	1.66
12-16-16S	25,4	1.00	1 1/16-12	1 5/16-12	52,0	2.05	46,0	1.81	46,0	1.81
16-16S	25,4	1.00	1 5/16-12	1 5/16-12	52,0	2.05	46,0	1.81	46,0	1.81
20-20S	31,7	1.25	1 5/8-12	1 5/8-12	57,2	2.25	55,6	2.19	52,3	2.06

NOTE: Available without O-ring. Order by Part No. 203005-1-(Dash size).

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**SAE O-Ring Boss(adj.)/
37° Flare**

Part No. 203003-(Dash size) (Ref. SAE 070429)

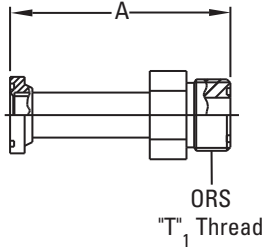


Dash Size	Tube O.D.		Thread T1	Thread T2	A		B	
	mm	in			mm	in	mm	in
4-4S	6,3	0.25	7/16-20	7/16-20	26,2	1.03	22,6	0.89
5-5S	7,9	0.31	1/2-20	1/2-20	27,4	1.08	24,1	0.95
6-6S	9,6	0.38	9/16-18	9/16-18	31,8	1.25	26,9	1.06
8-8S	12,7	0.50	3/4-16	3/4-16	36,8	1.45	31,8	1.25
10-10S	16,0	0.63	7/8-14	7/8-14	43,4	1.71	36,8	1.45
10-12-12S			7/8-14	1 1/16-12	45,7	1.80	42,2	1.66
12-12S	19,0	0.75	1 1/16-12	1 1/16-12	49,3	1.94	42,2	1.66
16-10-10S			1 5/16-12	7/8-14	52,0	2.05	41,6	1.64
16-16S	25,4	1.00	1 5/16-12	1 5/16-12	52,0	2.05	46,0	1.81
20-20S	31,7	1.25	1 5/8-12	1 5/8-12	57,6	2.27	52,3	2.06

SAE Split Flange to ORS

**ORS/Split Flange
(Code 62)**

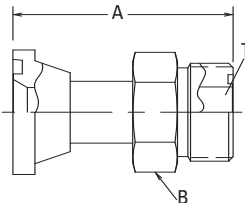
Part No. FF5943T(Size)



Dash Size	Tube O.D.		Thread T1	A	
	mm	in		mm	in
1612S	25,4	1.00	1.4375-12	69,8	2.75
1616S	25,4	1.00	1.4375-12	90,7	3.57
1620S	25,4	1.00	1.4375-12	90,7	3.57

**ORS/Split Flange
(Code 61)/ORS Male**

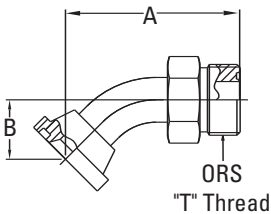
Part No. FF6033T(Dash size)



Dash Size	Split Flange Size	Tube O.D.		Thread T	A		B	
		mm	in		mm	in	mm	in
1624S	1	25,4	1.00	1 7/16-12	72,4	2.85	38,1	1.50

**45° ORS/Split Flange
(Code 61)**

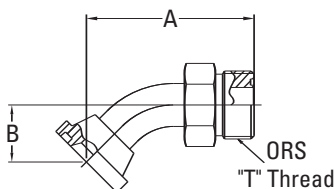
Part No. FF6001T(Size)



Dash Size	Tube O.D.		Thread T1	A Ref		B Ref	
	mm	in		mm	in	mm	in
1216S	19,0	0.75	1 3/16-12	74,7	2.94	25,4	1.00
1616S	25,4	1.00	1 7/16-12	86,6	3.41	26,9	1.06
2020S	31,7	1.25	1 11/16-12	91,9	3.62	29,2	1.15
2424S	38,1	1.50	2-12	57,2	2.25	35,8	1.41

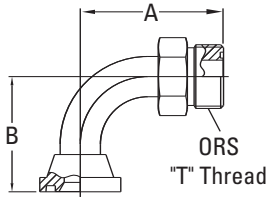
**45° ORS/Split Flange
(Code 62)**

Part No. FF6002T(Size)



Dash Size	Tube O.D.		Thread T1	A Ref		B Ref	
	mm	in		mm	in	mm	in
1212S	19,0	0.75	1 3/16-12	74,7	2.94	25,4	1.00
1612S	25,4	1.00	1 7/16-12	74,7	2.94	25,4	1.00
1616S	25,4	1.00	1 7/16-12	86,6	3.41	26,9	1.06
2020S	31,7	1.25	1 11/16-12	91,9	3.62	29,2	1.15
2424S	38,1	1.50	2-12	107,9	4.25	35,8	1.41

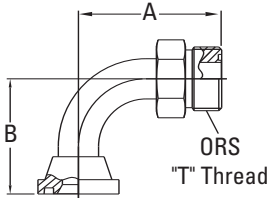
**90° ORS/Split Flange
(Code 61)**



Part No. FF5946T(Size)

Dash Size	Tube O.D.		Thread T	A		B	
	mm	in		mm	in	mm	in
1212S	19,0	0.75	1 ³ / ₁₆ -12	67,3	2.65	54,1	2.13
1216S	19,0	0.75	1 ³ / ₁₆ -12	67,3	2.65	54,1	2.13
1616S	25,4	1.00	1 ⁷ / ₁₆ -12	81,8	3.22	60,2	2.37
2020S	31,7	1.25	1 ¹¹ / ₁₆ -12	88,1	3.47	66,5	2.62
2424S	38,1	1.50	2-12	100,8	3.97	79,2	3.12

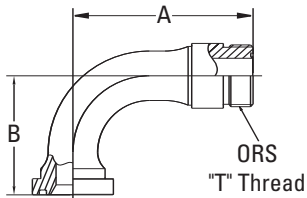
**90° ORS/Split Flange
(Code 62)**



Part No. FF5945T(Size)

Dash Size	Tube O.D.		Thread T	A		B	
	mm	in		mm	in	mm	in
1212S	19,0	0.75	1 ³ / ₁₆ -12	67,3	2.65	54,1	2.13
1612S	25,4	1.00	1 ⁷ / ₁₆ -12	67,3	2.65	54,1	2.13
1616S	25,4	1.00	1 ⁷ / ₁₆ -12	81,8	3.22	60,2	2.37
1620S	25,4	1.00	1 ⁷ / ₁₆ -12	88,1	3.47	66,5	2.62
2020S	31,7	1.25	1 ¹¹ / ₁₆ -12	88,1	3.47	66,5	2.62
2424S	38,1	1.50	2-12	100,8	3.97	79,2	3.12

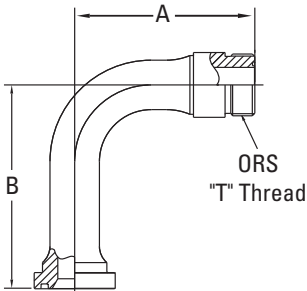
**90° ORS/Split Flange
(Code 62)**



Part No. FF6062T(Size)

Dash Size	Tube O.D.		Thread T	A Ref		B Ref	
	mm	in		mm	in	mm	in
1616S	25,4	1.00	1 ⁷ / ₁₆ -12	105,9	4.17	70,1	2.76

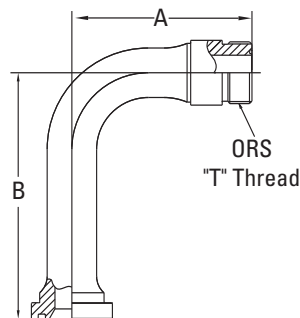
**90° ORS/Split Flange
(Code 62)**



Part No. FF6063T(Size)

Dash Size	Tube O.D.		Thread T	A Ref		B Ref	
	mm	in		mm	in	mm	in
1616S	25,4	1.00	1 ⁷ / ₁₆ -12	105,9	4.17	119,9	4.72

**90° ORS/Split Flange
(Code 62)**

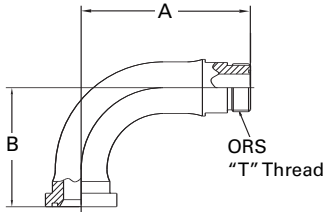


Part No. FF6064T(Size)

Dash Size	Tube O.D.		Thread T	A		B	
	mm	in		mm	in	mm	in
1616S	25,4	1.00	1 ⁷ / ₁₆ -12	105,9	4.17	144,8	5.70

SPECIALTY & TRUCK HOSE
LOW & MEDIUM PRESSURE HOSE
HIGH PRESSURE HOSE
HOSE FITTINGS
ADAPTERS & TUBE FITTINGS
ACCESSORIES & ASSEMBLY INSTRUCTIONS
HOSE ASSEMBLY EQUIPMENT
APPENDICES

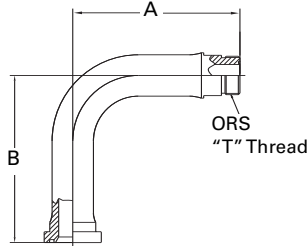
**90° ORS/Split Flange
(Code 62)**



Part No. FF6071T(Size)

Dash Size	Tube O.D.		Thread T	A		B	
	mm	in		mm	in	mm	in
1620S	25,4	1.00	1 ⁷ / ₁₆ -12	128,0	5.04	89,9	3.54

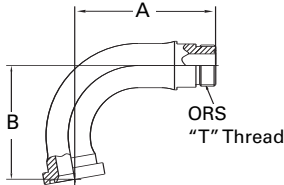
**90° ORS/Split Flange
(Code 62)**



Part No. FF6072T(Size)

Dash Size	Tube O.D.		Thread T	A		B	
	mm	in		mm	in	mm	in
1620S	25,4	1.00	1 ⁷ / ₁₆ -12	158,0	6.22	158,0	6.22

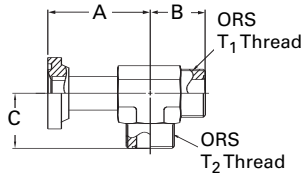
**100° ORS/Split Flange
(Code 62)**



Part No. FF6073T(Size)

Dash Size	Tube O.D.		Thread T	A		B	
	mm	in		mm	in	mm	in
1620S	25,4	1.00	1 ⁷ / ₁₆ -12	124,5	4.90	100,3	3.95

**ORS/Split Flange
(Code 62)**

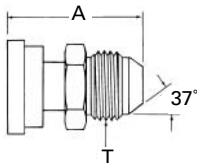


Part No. FF2522T(Size)

Dash Size	Tube O.D.		Thread T1	Thread T2	A		B		C	
	mm	in			mm	in	mm	in	mm	in
0812S	12,7	0.50	1 ³ / ₁₆ -16	1 ³ / ₁₆ -16	41,1	1.62	27,9	1.10	27,9	1.10
1616S	25,4	1.00	1 ⁷ / ₁₆ -12	1 ⁷ / ₁₆ -12	78,7	3.10	41,6	1.64	41,6	1.64
1620S	25,4	1.00	1 ⁷ / ₁₆ -12	1 ⁷ / ₁₆ -12	77,5	3.05	41,6	1.64	41,6	1.64

SAE Split Flange to 37° Flare

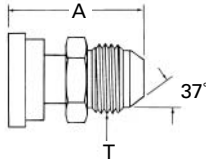
**Split Flange/
37° Flare SAE
Standard Pressure
Series (Code 61)**



Part No. 500025-(Dash size) (mates with 449-74446 flanges) **The performance rating of these adapters is the lower of the two terminal ends. These adapters are rated to JIC pressures as specified in SAE J514.**

Dash Size	Split Flange Size	Tube O.D.		Thread T	A	
		mm	in		mm	in
8S	1/2	12,7	0.50	3/4-16	42,2	1.66
12S	3/4	19,0	0.75	1 ¹ / ₁₆ -12	48,5	1.91
12-8S	3/4	12,7	0.50	3/4-16	51,6	2.03
16-10S	1	16,0	0.63	7/8-14	47,2	1.86
16-12S	1	19,0	0.75	1 ¹ / ₁₆ -12	58,4	2.30
16S	1	25,4	1.00	1 ⁵ / ₁₆ -12	51,1	2.01
20-16S	1 ¹ / ₄	25,4	1.00	1 ⁵ / ₁₆ -12	59,7	2.35
20-24S	1 ¹ / ₄	38,1	1.50	1 ⁷ / ₈ -12	67,0	2.64
20S	1 ¹ / ₄	31,7	1.25	1 ⁵ / ₈ -12	62,5	2.46
24S	1 ¹ / ₂	38,1	1.50	1 ⁷ / ₈ -12	68,8	2.71
24-16S	1 ¹ / ₂	25,4	1.00	1 ⁵ / ₁₆ -12	61,2	2.41
24-20S	1 ¹ / ₂	31,7	1.25	1 ⁵ / ₈ -12	62,5	2.46
32-16S	2	25,4	1.00	1 ⁵ / ₁₆ -12	58,9	2.32
32-20S	2	31,7	1.25	1 ⁵ / ₈ -12	64,0	2.52
32-24S	2	38,1	1.50	1 ⁷ / ₈ -12	68,8	2.71
32S	2	50,8	2.00	2 ¹ / ₂ -12	78,2	3.08

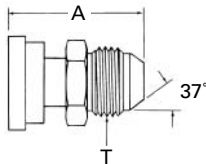
Split flange/37° flare SAE standard pressure series (Code 61)



Part No. FF5239-(Dash size) (mates with 449-74446 flanges) **The performance rating of these adapters is the lower of the two terminal ends. These adapters are rated to JIC pressures as specified in SAE J514.**

Dash Size	Split Flange Size	Tube O.D.		Thread T	A	
		mm	in		mm	in
1212S	3/4	19,0	0.75	1 ¹ / ₁₆ -12	80,5	3.17
1616S	1	25,4	1.00	1 ⁵ / ₁₆ -12	95,5	3.76
2020S	1 ¹ / ₄	31,7	1.25	1 ⁵ / ₈ -12	97,5	3.84
2424S	1 ¹ / ₂	38,1	1.50	1 ⁷ / ₈ -12	118,6	4.67
3232S	2	50,8	2.00	2 ¹ / ₂ -12	143,0	5.63

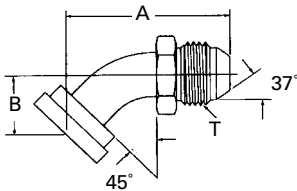
Split Flange/ 37° Flare SAE Standard Pressure Series (Code 62)



Part No. FF5541-(Dash size) (mates with FC3425- size-449 flanges) **The performance rating of these adapters is the lower of the two terminal ends. These adapters are rated to JIC pressures as specified in SAE J514.**

Dash Size	Split Flange Size	Tube O.D.		Thread T	A	
		mm	in		mm	in
1212S	3/4	19,0	0.75	1 ¹ / ₁₆ -12	80,5	3.17
1616S	1	25,4	1.00	1 ⁵ / ₁₆ -12	95,5	3.76
2016S	1 ¹ / ₄	25,4	1.00	1 ⁵ / ₁₆ -12	95,5	3.76
2020S	1 ¹ / ₄	31,7	1.25	1 ⁵ / ₈ -12	97,5	3.84
2416S	1 ¹ / ₂	25,4	1.00	1 ⁵ / ₁₆ -12	95,5	3.76
2420S	1 ¹ / ₂	31,7	1.25	1 ⁵ / ₈ -12	97,5	3.84
2424S	1 ¹ / ₂	38,1	1.50	1 ⁷ / ₈ -12	118,6	4.67

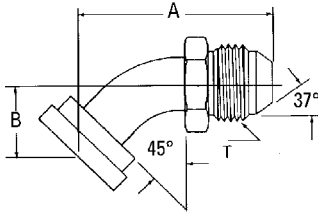
Split Flange/ 37° Flare SAE Standard Pressure Series (Code 62)



Part No. FF5539-(Dash size) (mates with FC3425-size-449 flanges) **The performance rating of these adapters is the lower of the two terminal ends. These adapters are rated to JIC pressures as specified in SAE J514.**

Dash Size	Split Flange Size	Tube O.D.		Thread T	A		B	
		mm	in		mm	in	mm	in
1612S	1	19,0	0.75	1 ¹ / ₁₆ -12	78,5	3.09	25,4	1.00
1616S	1	25,4	1.00	1 ¹ / ₁₆ -12	91,4	3.60	26,9	1.06
2020S	1 ¹ / ₄	31,7	1.25	1 ⁵ / ₈ -12	98,0	3.86	29,2	1.15
2416S	1 ¹ / ₂	25,4	1.00	1 ⁵ / ₁₆ -12	103,1	4.06	31,8	1.25
2420S	1 ¹ / ₂	31,7	1.25	1 ⁵ / ₈ -12	98,0	3.86	29,2	1.15
2424S	1 ¹ / ₂	38,1	1.50	1 ⁷ / ₈ -12	117,1	4.61	35,8	1.41

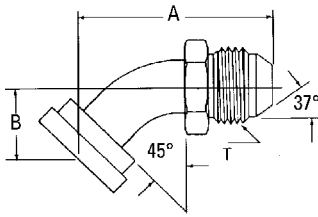
Split Flange/37° Flare SAE Standard Pressure Series (Code 61)



Part No. 500023-(Dash size) (mates with 449-74446 flanges) **The performance rating of these adapters is the lower of the two terminal ends. These adapters are rated to JIC pressures as specified in SAE J514.**

Dash Size	Split Flange Size	Tube O.D.		Thread T	A		B	
		mm	in		mm	in	mm	in
8S	1/2	12,7	0.50	3/4-16	59,4	2.34	25,4	1.00
12-8S	3/4	12,7	0.50	3/4-16	59,4	2.34	25,4	1.00
12S	3/4	19,0	0.75	1 1/16-12	70,3	2.77	25,7	1.01
16-10S	1	16,0	0.63	7/8-14	65,5	2.58	25,4	1.00
16-12S	1	19,0	0.75	1 1/16-12	70,3	2.77	25,7	1.01
16S	1	25,4	1.00	1 5/16-12	77,2	3.04	28,7	1.13
20-12S	1 1/4	19,0	0.75	1 1/16-12	70,3	2.77	25,7	1.01
20-16S	1 1/4	25,4	1.00	1 5/16-12	77,2	3.04	28,7	1.13
20S	1 1/4	31,7	1.25	1 5/8-12	82,3	3.24	28,5	1.12
24-16S	1 1/2	25,4	1.00	1 5/16-12	78,2	3.08	29,7	1.17
24-20S	1 1/2	31,7	1.25	1 5/8-12	82,3	3.24	28,5	1.12
24S	1 1/2	38,1	1.50	1 7/8-12	89,9	3.54	28,5	1.12
24-32S	1 1/2	50,8	2.00	2 1/2-12	99,3	3.91	28,5	1.12
32S	2	50,8	2.00	2 1/2-12	107,7	4.24	31,8	1.25
40-24S	2 1/2	38,1	1.50	1 7/8-12	90,9	3.58	29,7	1.17
40S	2 1/2	63,5	2.50	3-12	131,6	5.18	42,2	1.66

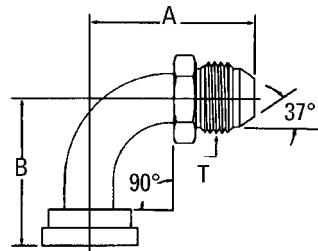
Split Flange/37° Flare SAE Standard Pressure Series (Code 61)



Part No. FF5238-(Dash size) (mates with 449-74446 flanges) **The performance rating of these adapters is the lower of the two terminal ends. These adapters are rated to JIC pressures as specified in SAE J514.**

Dash Size	Split Flange Size	Tube O.D.		Thread T	A		B	
		mm	in		mm	in	mm	in
1212S	3/4	19,0	0.75	1 1/16-12	78,5	3.09	25,4	1.00
1616S	1	25,4	1.00	1 5/16-12	91,4	3.60	26,9	1.06
1620S	1	31,7	1.25	1 5/8-12	92,4	3.64	26,9	1.06
2020S	1 1/4	31,7	1.25	1 5/8-12	98,0	3.86	29,2	1.15
2420S	1 1/2	31,7	1.25	1 5/8-12	98,0	3.86	35,8	1.41
2424S	1 1/2	38,1	1.50	1 7/8-12	117,1	4.61	35,8	1.41
3232S	2	50,8	2.00	2 1/2-12	153,4	6.04	50,8	2.00

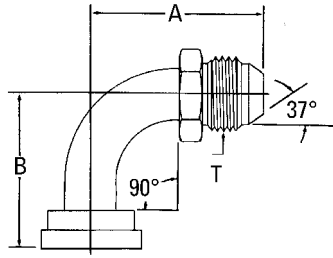
Split Flange/37° Flare SAE Standard Pressure Series (Code 61)



Part No. 500024-(Dash size) (mates with 449-74446 flanges) **The performance rating of these adapters is the lower of the two terminal ends. These adapters are rated to JIC pressures as specified in SAE J514.**

Dash Size	Split Flange Size	Tube O.D.		Thread T	A		B	
		mm	in		mm	in	mm	in
8S	1/2	12,7	0.50	3/4-16	45,2	1.78	41,1	1.62
12S	3/4	19,0	0.75	1 1/16-12	63,2	2.49	54,6	2.15
16-10S	1	16,0	0.63	7/8-14	54,9	2.16	53,9	2.12
16-12S	1	19,0	0.75	1 1/16-12	63,2	2.49	54,6	2.15
16S	1	25,4	1.00	1 5/16-12	70,9	2.79	60,2	2.37
12-8S	3/4	12,7	0.50	3/4-16	45,2	1.78	41,1	1.62
12-10S	3/4	16,0	0.63	7/8-14	60,4	2.38	54,6	2.15
20-12S	1 1/4	19,0	0.75	1 1/16-12	63,2	2.49	54,6	2.15
20-16S	1 1/4	25,4	1.00	1 5/16-12	70,9	2.79	60,2	2.37
20S	1 1/4	31,7	1.25	1 5/8-12	79,7	3.14	63,5	2.50
20-24S	1 1/4	38,1	1.50	1 7/8-12	90,9	3.58	68,3	2.69
24-16S	1 1/2	25,4	1.00	1 5/16-12	70,9	2.79	62,0	2.44
24-20S	1 1/2	31,7	1.25	1 5/8-12	79,7	3.14	63,5	2.50
24S	1 1/2	38,1	1.50	1 7/8-12	90,9	3.58	69,8	2.75
32-24S	2	38,1	1.50	1 7/8-12	90,9	3.58	69,8	2.75
32S	2	50,8	2.00	2 1/2-12	113,3	4.46	82,5	3.25
40-24S	2 1/2	38,1	1.50	1 7/8-12	90,9	3.58	71,4	2.81
40-40S	2 1/2	63,5	2.50	3-12	148,8	5.86	131,8	5.19

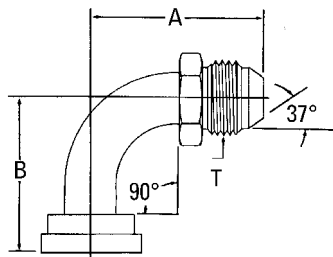
**Split Flange/
37° Flare SAE
Standard Pressure
Series (Code 61)**



Part No. FF5162-(Dash size) (mates with 449-74446 flanges)
The performance rating of these adapters is the lower of the two terminal ends. These adapters are rated to JIC pressures as specified in SAE J514.

Dash Size	Split Flange Size	Tube O.D.		Thread T	A		B	
		mm	in		mm	in	mm	in
0808S	1/2	12,7	0.50	3/4-16	54,9	2.16	41,1	1.62
1212S	3/4	19,0	0.75	1 1/16-12	71,4	2.81	54,1	2.13
1612S	1	19,0	0.75	1 1/16-12	71,4	2.81	54,1	2.13
1616S	1	25,4	1.00	1 5/16-12	86,6	3.41	60,4	2.38
1620S	1	31,7	1.25	1 5/8-12	87,9	3.46	60,4	2.38
2016S	1 1/4	25,4	1.00	1 5/16-12	86,6	3.41	60,4	2.38
2020S	1 1/4	31,7	1.25	1 5/8-12	94,2	3.71	66,5	2.62
2420S	1 1/2	31,7	1.25	1 5/8-12	94,2	3.71	66,5	2.62
2424S	1 1/2	38,1	1.50	1 7/8-12	110,0	4.33	79,2	3.12
3232S	2	50,8	2.00	2 1/2-12	145,0	5.71	114,3	4.50

**Split Flange/37° Flare
SAE High Pressure
Series (Code 62)**

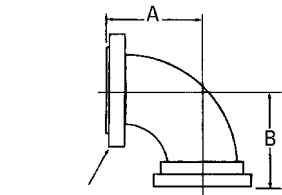


Part No. FF5540-(Dash size) (mates with FC3425 - size-449 flanges)
The performance rating of these adapters is the lower of the two terminal ends. These adapters are rated to JIC pressures as specified in SAE J514.

Dash Size	Split Flange Size	Tube O.D.		Thread T	A		B	
		mm	in		mm	in	mm	in
1612S	1	19,0	0.75	1 1/16-12	71,4	2.81	54,1	2.13
1616S	1	25,4	1.00	1 5/16-12	86,6	3.41	60,4	2.38
2016S	1 1/4	25,4	1.00	1 5/16-12	86,6	3.41	60,4	2.38
2020S	1 1/4	31,7	1.25	1 5/8-12	94,2	3.71	66,5	2.62
2416S	1 1/2	25,4	1.00	1 5/16-12	86,6	3.41	69,8	2.75
2420S	1 1/2	31,7	1.25	1 5/8-12	94,2	3.71	66,5	2.62
2424S	1 1/2	38,1	1.50	1 7/8-12	110,0	4.33	79,2	3.12

SAE Split Flange to SAE Split Flange

**SAE Swivel Flange/
Split Flange SAE
Standard Pressure
Series (Code 61)**

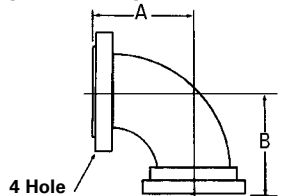


4 Hole
(Threaded)
Swivel Flange

Part No. 504089-(Dash size) (suitable for pressures thru 4 light spiral hose - SAE 100R9)

Dash Size	Flange Size	Shoulder Size	A		B	
			mm	in	mm	in
16S	1	1	52,3	2.06	60,2	2.37
20S	1 1/4	1 1/4	58,7	2.31	63,5	2.50
24S	1 1/2	1 1/2	66,5	2.62	69,8	2.75
32S	2	2	79,2	3.12	82,5	3.25
40S	2 1/2	2 1/2	119,1	4.69	131,8	5.19

**SAE Swivel Flange/
Split Flange (Welded)
SAE Standard
Pressure Series
(Code 61)**



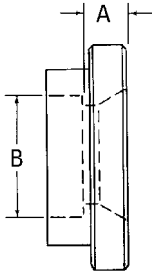
4 Hole
(Threaded)
Swivel Flange

Part No. FF5321-(Dash size) (suitable for pressures thru 4 heavy spiral hose - SAE 100R10)

Dash Size	Flange Size	Shoulder Size	A		B	
			mm	in	mm	in
1616S	1	1	60,4	2.38	60,4	2.38
2020S	1 1/4	1 1/4	66,5	2.62	66,5	2.62
2424S	1 1/2	1 1/2	79,2	3.12	79,2	3.12
3232S	2	2	114,3	4.50	114,3	4.50

Braze & Weld to Split Flange

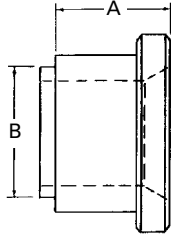
Braze/Solid Flanged Head SAE Standard Pressure Series (Code 61)



Part No. 71418-(Dash size)

Dash Size	Split Flange Size	Tube O.D.		A		B	
		mm	in	mm	in	mm	in
12-12S	3/4	19,0	0.75	7,9	0.31	19,0	0.75
16-12S	3/4	25,4	1.00	7,9	0.31	25,4	1.00
16-16S	1	25,4	1.00	7,9	0.31	25,4	1.00
16-20S	1 1/4	25,4	1.00	7,9	0.31	25,4	1.00
20-16S	1	31,7	1.25	7,9	0.31	31,8	1.25
20-20S	1 1/4	31,7	1.25	7,9	0.31	31,8	1.25
20-24S	1 1/2	31,7	1.25	7,9	0.31	31,8	1.25
24-20S	1 1/4	38,1	1.50	9,7	0.38	38,1	1.50
24-24S	1 1/2	38,1	1.50	9,7	0.38	38,1	1.50
32-32S	2	50,8	2.00	9,7	0.38	50,8	2.00
40-40S	2 1/2	63,5	2.50	11,2	0.44	63,5	2.50

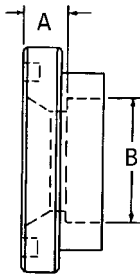
Weld (Tank Pilot) Solid Flanged Head SAE Standard Pressure Series (Code 61)



Part No. 71423-(Dash size)

Dash Size	Flange Size	A		B	
		mm	in	mm	in
12S	3/4	27,4	1.08	26,9	1.06
16S	1	27,4	1.08	33,3	1.31
20S	1 1/4	27,4	1.08	36,6	1.44
24S	1 1/2	29,0	1.14	42,9	1.69
32S	2	29,0	1.14	55,6	2.19

Braze/(Flanged Head) SAE Standard Pressures Series (Code 61)



Part No. 4624-(Dash size)

Dash Size	Split Flange Size	Tube O.D.		A		B	
		mm	in	mm	in	mm	in
8-6S	1/2	9,6	0.38	6,4	0.25	9,7	0.38
8S	1/2	12,7	0.50	6,4	0.25	12,7	0.50
12-8S	3/4	12,7	0.50	6,4	0.25	12,7	0.50
12-10S	3/4	16,0	0.63	7,9	0.31	15,7	0.62
12-16S	3/4	25,4	1.00	7,9	0.31	25,4	1.00
12S	3/4	19,0	0.75	7,9	0.31	19,0	0.75
16-10S	1	16,0	0.63	10,4	0.41	15,7	0.62
16-12S	1	19,0	0.75	7,9	0.31	19,0	0.75
16-20S	1	31,7	1.25	7,9	0.31	31,8	1.25
16S	1	25,4	1.00	7,9	0.31	25,4	1.00
20-12S	1 1/4	19,0	0.75	7,9	0.31	19,0	0.75
20-16S	1 1/4	25,4	1.00	7,9	0.31	25,4	1.00
20-24S	1 1/4	38,1	1.50	7,9	0.31	38,1	1.50
20S	1 1/4	31,7	1.25	7,9	0.31	31,8	1.25
24-12S	1 1/2	19,0	0.75	9,7	0.38	19,0	0.75
24-16S	1 1/2	25,4	1.00	9,7	0.38	25,4	1.00
24-20S	1 1/2	31,7	1.25	7,9	0.31	31,8	1.25
24S	1 1/2	38,1	1.50	9,7	0.38	38,1	1.50
32-16S	2	25,4	1.00	7,1	0.28	25,4	1.00
32-20S	2	31,7	1.25	9,7	0.38	31,8	1.25
32-24S	2	38,1	1.50	9,7	0.38	38,1	1.50
32S	2	50,8	2.00	9,7	0.38	50,8	2.00
40-32S	2 1/2	50,8	2.00	11,2	0.44	50,8	2.00

SPECIALTY & TRUCK HOSE

LOW & MEDIUM PRESSURE HOSE

HIGH PRESSURE HOSE

HOSE FITTINGS

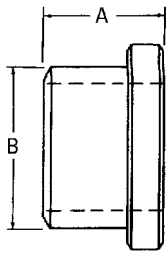
ADAPTERS & TUBE FITTINGS

ACCESSORIES & ASSEMBLY INSTRUCTIONS

HOSE ASSEMBLY EQUIPMENT

APPENDICES

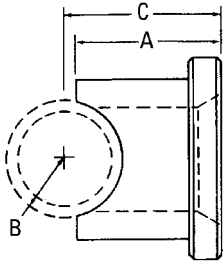
**Buttweld (Pipe)/
Solid Flanged Head
SAE Standard
Pressure Series
(Code 61)**



Part No. 71416-(Dash size)

Dash Size	Flange Size	A		B	
		mm	in	mm	in
16S	1	27,4	1.08	33,6	1.32
20S	1 ¹ / ₄	27,4	1.08	42,2	1.66
24S	1 ¹ / ₂	29,0	1.14	48,3	1.90
32S	2	29,0	1.14	60,4	2.38

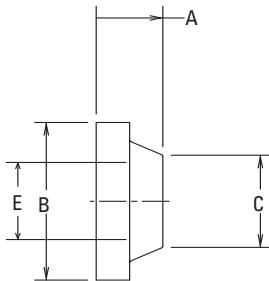
**Saddle Weld
(Pipe)/Solid Flanged
Head SAE Standard
Pressure Series
(Code 61)**



Part No. 71422-(Dash size)

Dash Size	Flange Size	A		B		C	
		mm	in	mm	in	mm	in
16-16S	1	30,7	1.21	16,8	0.66	38,6	1.52
20-20S	1 ¹ / ₄	32,3	1.27	21,0	0.83	44,9	1.77
24-24S	1 ¹ / ₂	36,1	1.42	24,1	0.95	49,8	1.96
24-32S	2	39,6	1.56	24,1	0.95	47,2	1.86

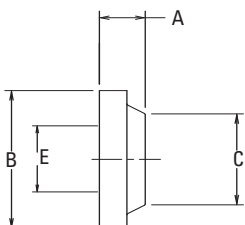
**Braze/(Flanged Head)
SAE High Pressure
Series (Code 62)**



Part No. FC1102-(Dash size)

Dash Size	Tube O.D.		A		B		C		E	
	mm	in	mm	in	mm	in	mm	in	mm	in
0808S	12,7	0.50	15,7	0.62	31,7	1.25	17,8	0.70	9,9	0.39
1208S	12,7	0.50	15,7	0.62	41,4	1.63	24,1	0.95	9,9	0.39
1212S	19,0	0.75	17,5	0.69	41,4	1.63	24,1	0.95	14,7	0.58
1612S	25,4	1.00	17,5	0.69	47,7	1.88	31,5	1.24	14,7	0.58
1616S	25,4	1.00	15,7	0.62	47,7	1.88	31,5	1.24	20,8	0.82
2012S	31,7	1.25	15,7	0.62	54,1	2.13	38,3	1.51	19,0	0.75
2016S	31,7	1.25	15,7	0.62	54,1	2.13	38,3	1.51	20,8	0.82
2020S	31,7	1.25	15,7	0.62	54,1	2.13	38,1	1.50	26,7	1.05
2416S	38,1	1.50	15,7	0.62	63,5	2.50	46,5	1.83	20,8	0.82
2424S	38,1	1.50	19,0	0.75	63,5	2.50	46,5	1.83	32,2	1.27
3220S	50,8	2.00	15,7	0.62	79,5	3.13	63,0	2.48	26,7	1.05
3224S	50,8	2.00	19,0	0.75	79,5	3.13	63,0	2.48	32,2	1.27
3232S	50,8	2.00	28,4	1.12	79,5	3.13	58,7	2.31	43,7	1.72

**Braze/Solid Flanged
Head SAE High
Pressure Series
(Code 62)**



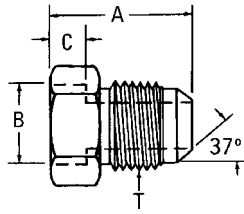
Part No. FC1132-(Dash size)

Dash Size	Tube O.D.		A		B		C		E	
	mm	in	mm	in	mm	in	mm	in	mm	in
1212	19,0	0.75	17,5	0.69	41,4	1.63	24,1	0.95	14,7	0.58
1616	25,4	1.00	15,7	0.62	47,7	1.88	31,5	1.24	20,5	0.81
2020	31,7	1.25	15,7	0.62	54,1	2.13	38,1	1.50	26,7	1.05

SPECIALTY & TRUCK HOSE
LOW & MEDIUM PRESSURE HOSE
HIGH PRESSURE HOSE
HOSE FITTINGS
ADAPTERS & TUBE FITTINGS
ACCESSORIES & ASSEMBLY INSTRUCTIONS
HOSE ASSEMBLY EQUIPMENT
APPENDICES

Braze & Weld to 37° Flare

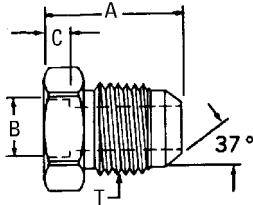
Weld Port/37° Flare



Part No. 202232-(Dash size)

Dash Size	Tube O.D.		Thread T	A		B		C	
	mm	in		mm	in	mm	in	mm	in
1/4-8S	6,3	0.25	3/4-16	30,5	1.20	14,2	0.56	9,7	0.38
1/2-12S	12,7	0.50	1 1/16-12	39,1	1.54	21,8	0.86	12,7	0.50
1-20S	25,4	1.00	1 5/8-12	46,0	1.81	34,0	1.34	16,0	0.63

Braze Port/37° Flare



Part No. 73014-(Dash size)

Dash Size	Tube O.D.		Thread T	A		B		C	
	mm	in		mm	in	mm	in	mm	in
4S	6,3	0.25	7/16-20	18,8	0.74	6,4	0.25	4,0	0.16
5S	7,9	0.31	1/2-20	20,3	0.80	7,9	0.31	4,0	0.16
6S	9,6	0.38	9/16-18	20,6	0.81	9,7	0.38	4,0	0.16
8-6S	12,7	0.50	9/16-18	21,3	0.84	12,7	0.50	4,0	0.16
8S	12,7	0.50	3/4-16	23,9	0.94	12,7	0.50	4,0	0.16
10S	16,0	0.63	7/8-14	27,2	1.07	15,7	0.62	4,0	0.16
10-16S	16,0	0.63	1 5/16-12	32,8	1.29	15,7	0.62	4,0	0.16
12-10S	19,0	0.75	7/8-14	28,7	1.13	19,0	0.75	6,4	0.25
12S	19,0	0.75	1 1/16-12	31,5	1.24	19,0	0.75	6,4	0.25
14S	22,3	0.88	1 3/16-12	32,0	1.26	22,4	0.88	6,4	0.25
16S	25,4	1.00	1 5/16-12	32,8	1.29	25,4	1.00	6,4	0.25
16-12S	25,4	1.00	1 1/16-12	31,5	1.24	25,4	1.00	6,4	0.25
16-20S	25,4	1.00	1 5/8-12	35,6	1.40	25,4	1.00	6,4	0.25
20S	31,7	1.25	1 5/8-12	35,6	1.40	31,8	1.25	6,4	0.25
20-16S	31,7	1.25	1 5/16-12	32,8	1.29	31,8	1.25	6,4	0.25
24-16S	38,1	1.50	1 5/16-12	35,8	1.41	38,1	1.50	6,4	0.25
24S	38,1	1.50	1 7/8-12	40,1	1.58	38,1	1.50	6,4	0.25
24-20S	38,1	1.50	1 5/8-12	37,1	1.46	38,1	1.50	6,4	0.25
24-32S	38,1	1.50	2 1/2-12	49,5	1.95	38,1	1.50	6,4	0.25
32S	50,8	2.00	2 1/2-12	49,8	1.96	50,8	2.00	6,4	0.25
40S	63,5	2.50	3-12	47,2	1.86	63,5	2.50	6,4	0.25

SPECIALTY & TRUCK HOSE

LOW & MEDIUM PRESSURE HOSE

HIGH PRESSURE HOSE

HOSE FITTINGS

ADAPTERS & TUBE FITTINGS

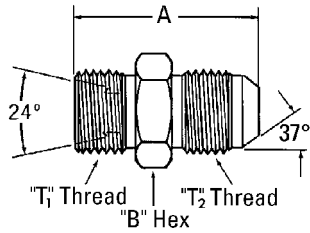
ACCESSORIES & ASSEMBLY INSTRUCTIONS

HOSE ASSEMBLY EQUIPMENT

APPENDICES

SAE Flareless to 37° Union

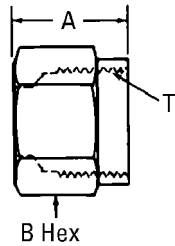
Male SAE Flareless/ 37° Flare*



Part No. FF1315-(Dash size)

Dash Size	Tube O.D.		Thread T1	Thread T2	A		B	
	mm	in			mm	in	mm	in
0404S	6,3	0.25	7/16-20	7/16-20	31,0	1.22	12,7	0.50
0604S	9,6	0.38	9/16-18	7/16-20	32,3	1.27	15,7	0.62
0606S	9,6	0.38	9/16-18	9/16-18	32,5	1.28	15,7	0.62
0806S	12,7	0.50	3/4-16	9/16-18	34,8	1.37	20,6	0.81
0808S	12,7	0.50	3/4-16	3/4-16	37,3	1.47	20,6	0.81
1008S	16,0	0.63	7/8-14	3/4-16	40,4	1.59	23,9	0.94
1010S	16,0	0.63	7/8-14	7/8-14	42,9	1.69	23,9	0.94
1212S	19,0	0.75	1 1/16-12	1 1/16-12	49,0	1.93	28,5	1.12
1412S	22,3	0.88	1 3/16-12	1 1/16-12	49,0	1.93	31,8	1.25
1616S	25,4	1.00	1 5/16-12	1 5/16-12	50,3	1.98	35,1	1.38

Flareless Tube Nut*



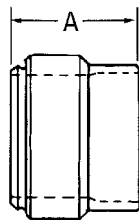
Part No. 210294-(Dash size)

Use with FF1315-(Dash size) Body Only

(Ref. SAE 080110)

Dash Size	Tube O.D.		Thread T	A		B	
	mm	in		mm	in	mm	in
4S	6,3	0.25	7/16-20	17,8	0.70	14,2	0.56
6S	9,6	0.38	9/16-18	19,0	0.75	17,6	0.69
8S	12,7	0.50	3/4-16	21,3	0.84	22,4	0.88
10S	16,0	0.63	7/8-14	23,4	0.92	25,4	1.00
12S	19,0	0.75	1 1/16-12	24,6	0.97	31,8	1.25
14S	22,3	0.88	1 3/16-12	25,4	1.00	35,1	1.38
16S	25,4	1.00	1 5/16-12	26,7	1.05	38,1	1.50

Ferrule-Style A* (for Flareless Tube Fittings)



Part No. FF9173-(Dash size)

Use with FF1315-(Dash size) Body Only

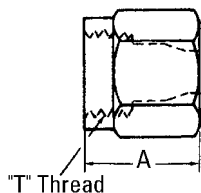
(Ref. SAE 080115A)

Dash Size	Tube O.D.		A	
	mm	in	mm	in
04S	6,3	0.25	9,1	0.36
06S	9,6	0.38	9,9	0.39
08S	12,7	0.50	10,9	0.43
10S	16,0	0.63	11,2	0.44
12S	19,0	0.75	11,9	0.47
14S	22,3	0.88	12,2	0.48
16S	25,4	1.00	12,2	0.48

*NOTE: All three components (adapter FF1315, tube nut 210294 and ferrule FF9173) required for assembly. Order by Part Number FF1316-(Dash size) for complete assembly.

Versil-Flare Flare and Flareless

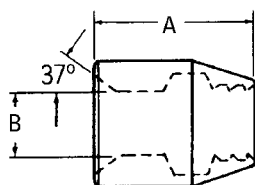
Versil-Flare Flareless Tube Nut



Part No. FC2875-(Dash size) Use with FF9605-(Dash size) Ferrule Only

Dash Size	Tube O.D.		Thread T	A	
	mm	in		mm	in
03S	4,8	0.19	3/8-24	20,1	0.79
04S	6,3	0.25	7/16-20	20,8	0.82
05S	7,9	0.31	1/2-20	20,8	0.82
06S	9,6	0.38	9/16-18	21,8	0.86
08S	12,7	0.50	3/4-16	27,4	1.08
10S	16,0	0.63	7/8-14	28,5	1.12
12S	19,0	0.75	1 1/16-12	34,5	1.36
16S	25,4	1.00	1 5/16-12	35,6	1.40
20S	31,7	1.25	1 5/8-12	45,7	1.80
24S	38,1	1.50	1 7/8-12	46,7	1.84
32S	50,8	2.00	2 1/2-12	55,9	2.20

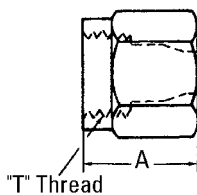
Versil-Flare Flareless Tube Ferrule



Part No. FF9605-(Dash size) Use with FC2875-(Dash size) Nut Only

Dash Size	Tube O.D.		A		B	
	mm	in	mm	in	mm	in
03S	4,8	0.19	10,2	0.40	4,8	0.19
04S	6,3	0.25	10,7	0.42	6,4	0.25
05S	7,9	0.31	10,7	0.42	7,9	0.31
06S	9,6	0.38	11,7	0.46	9,7	0.38
08S	12,7	0.50	14,5	0.57	12,7	0.50
10S	16,0	0.63	14,7	0.58	15,7	0.62
12S	19,0	0.75	17,8	0.70	19,0	0.75
16S	25,4	1.00	17,8	0.70	25,4	1.00
20S	31,7	1.25	25,4	1.00	31,8	1.25
24S	38,1	1.50	25,4	1.00	38,1	1.50
32S	50,8	2.00	29,7	1.17	50,8	2.00

Versil-Flare SAE 37° Flared Style "B" Nut



Part No. 1290-(Dash size) (Ref. SAE 070110) Use with 900605 Tube Sleeve Only

Dash Size	Tube O.D.		Thread T	A		B	
	mm	in		mm	in	mm	in
3S	4,8	0.19	3/8-24	15,2	0.60	11,2	0.44
4S	6,3	0.25	7/16-20	15,7	0.62	14,2	0.56
5S	7,9	0.31	1/2-20	17,0	0.67	15,7	0.62
6S	9,6	0.38	9/16-18	18,3	0.72	17,6	0.69
8S	12,7	0.50	3/4-16	21,3	0.84	22,4	0.88
10S	16,0	0.63	7/8-14	24,6	(0.97)	25,4	1.00
12S	19,0	0.75	1 1/16-12	25,9	1.02	31,8	1.25
14S	22,3	0.88	1 3/16-12	27,4	1.08	35,1	1.38
16S	25,4	1.00	1 5/16-12	28,5	1.12	38,1	1.50
20S	31,7	1.25	1 5/8-12	31,0	1.22	50,8	2.00
24S	38,1	1.50	1 7/8-12	35,8	1.41	57,2	2.25
32S	50,8	2.00	2 1/2-12	40,4	1.59	73,1	2.88

Also available in stainless steel as part no. 259-1290. See pg. 281 for more information.

SPECIALTY &
TRUCK HOSE

LOW & MEDIUM
PRESSURE HOSE

HIGH PRESSURE HOSE

HOSE FITTINGS

ADAPTERS &
TUBE FITTINGS

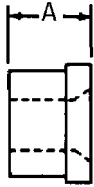
ACCESSORIES &
ASSEMBLY INSTRUCTIONS

HOSE ASSEMBLY
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Versil-Flare
SAE 37° Flared Sleeve

Part No. 900605-(Dash size) (Ref. SAE 070115)
Use with 1290 Short Nut Only

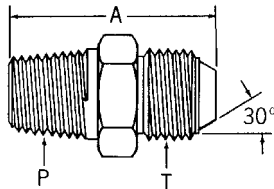


Dash Size	Tube O.D.		A	
	mm	in	mm	in
3S	4,8	0.19	8,6	0.34
4S	6,3	0.25	10,4	0.41
5S	7,9	0.31	11,2	0.44
6S	9,6	0.38	12,7	0.50
8S	12,7	0.50	14,2	0.56
10S	16,0	0.63	16,8	0.66
12S	19,0	0.75	17,6	0.69
14S	22,3	0.88	19,3	0.76
16S	25,4	1.00	19,8	0.78
20S	31,7	1.25	23,1	0.91
24S	38,1	1.50	28,5	1.12
32S	50,8	2.00	30,3	1.19

*Also available in stainless steel as part no. 259-900605.
See pg. 281 for more information.*

Specials

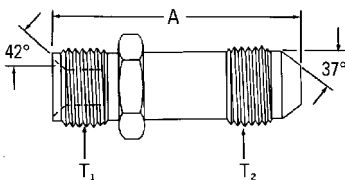
**External Pipe/
30° Flare**



Part No. 2004-(Dash size)

Dash Size	Tube O.D.		Thread P	Thread T	A	
	mm	in			mm	in
12-16S	25,4	1.00	3/4-14	1 5/16-14	46,7	1.84
16-16S	25,4	1.00	1-11 1/2	1 5/16-14	51,6	2.03
20-20S	31,7	1.25	1 1/4-11 1/2	1 5/8-14	59,4	2.34

**42° Inverted Flare/
37° Flare**

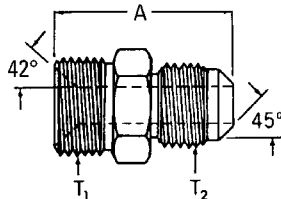


Part No. 202124-(Dash size)
Part No. FF1327-(Dash size) Long*

Dash Size	Tube O.D.		Thread T1	Thread T2	A	
	mm	in			mm	in
3-3S	4,8	0.19	3/8-24	3/8-24	27,2	1.07
3-4S	6,3	0.25	3/8-24	7/16-20	29,0	1.14
0304S*	6,3	0.25	3/8-24	7/16-20	61,0	2.40
4-4S	6,3	0.25	7/16-24	7/16-20	29,0	1.14
0404S*	6,3	0.25	7/16-24	7/16-20	61,0	2.40
0405S*	7,9	0.31	7/16-24	1/2-20	61,0	2.40
5-4S	6,3	0.25	1/2-20	7/16-20	29,5	1.16

**Length required to insert adapter at installation.*

**42° Inverted Flare/
45° Flare**

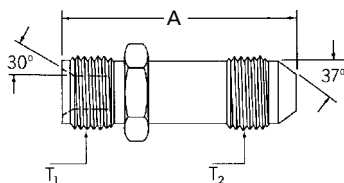


Part No. 200001-(Dash size)

Dash Size	Tube O.D.		Thread T1	Thread T2	A	
	mm	in			mm	in
4-4B	6,3	0.25	7/16-24	7/16-20	27,7	1.09
4-5B	7,9	0.31	7/16-24	1/2-20	28,5	1.12
4-6B	9,6	0.38	7/16-24	5/8-18	30,7	1.21
5-4B	6,3	0.25	1/2-20	7/16-20	27,9	1.10
5-5B	7,9	0.31	1/2-20	1/2-20	29,5	1.16
5-6B	9,6	0.38	1/2-20	5/8-18	31,8	1.25
6-5B	7,9	0.31	5/8-18	1/2-20	31,0	1.22
6-6B	9,6	0.38	5/8-18	5/8-18	32,5	1.28
7-6B	9,6	0.38	1 1/16-18	5/8-18	36,3	1.43
7-8B	12,7	0.50	1 1/16-18	3/4-16	39,6	1.56
8-6B	9,6	0.38	3/4-18	5/8-18	36,3	1.43
8-8B	12,7	0.50	3/4-18	3/4-16	39,6	1.56
10-10B	16,0	0.63	7/8-18	7/8-14	44,7	1.76
12-12B	19,0	0.75	1 1/16-16	1 1/16-14	52,0	2.05

SPECIALTY & TRUCK HOSE
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HIGH PRESSURE HOSE
HOSE FITTINGS
ADAPTERS & TUBE FITTINGS
ACCESSORIES & ASSEMBLY INSTRUCTIONS
HOSE ASSEMBLY EQUIPMENT
APPENDICES

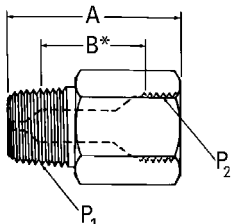
30° Inverted Flare/ 37° Flare



Part No. FF1353-(Dash size) Part No. FF1354-(Dash size) Long†

Dash Size	Tube O.D.		Thread T1	Thread T2	A	
	mm	in			mm	in
0404S	6,3	0.25	7/16-20	7/16-20	33,8	1.33
0404S†	6,3	0.25	7/16-20	7/16-20	63,5	2.50

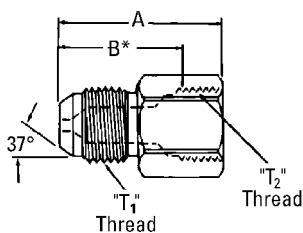
Restrictor† Male Pipe/ Female Pipe



Part No. FF1980-(Dash size)

Dash Size	Tube O.D.		Thread P1	Thread P2	A		B*	
	mm	in			mm	in	mm	in
0404	6,3	0.25	1/4-18	1/4-18	35,3	1.39	16,2	0.64
0606	9,6	0.38	3/8-18	3/8-18	36,6	1.44	17,6	0.69
0808	12,7	0.50	1/2-14	1/2-14	47,5	1.87	22,1	0.87

Restrictor† 37° Male Flare/ 37° Female



Part No. FF1981-(Dash size)

Dash Size	Tube O.D.		Thread P1	Thread P2	A		B*	
	mm	in			mm	in	mm	in
0404	6,3	0.25	7/16-20	7/16-20	28,9	1.14	17,5	0.69
0606	9,6	0.38	9/16-18	9/16-18	30,2	1.19	18,3	0.72
0808	12,7	0.50	3/4-16	3/4-16	34,5	1.36	25,6	1.01

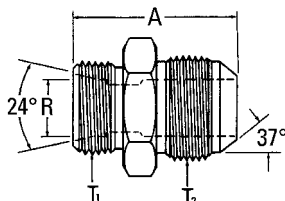
*Length required to insert adapter at installation.

†Ordering Information: Eaton Restrictor Adapters are available in orifice sizes from .06 to .25 inches. When ordering restrictor adapters, it is important to indicate the drill size required.

For example: For a .125 drill size in FF1980-0404 adapter, order as FF1980-125-0404. If you indicate the desired orifice size in inches, the appropriate 3 digit number will be assigned.

Metric to 37° Flare

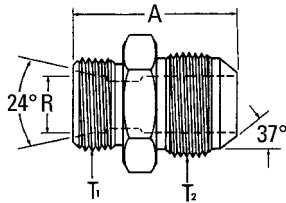
Metric 24° (DIN 3901/3902 I.Rh)/ 37° Flare



Part No. 15.063-(Dash size)

Dash Size	Tube O.D.		Thread T1	Thread T2	A		Rø	
	mm	in			mm	in	mm	in
6-4	6,4	0.25	M12 x 1.5	7/16-20	31,0	1.22	6,0	0.24
8-6	9,7	0.38	M14 x 1.5	9/16-18	31,0	1.22	8,0	0.31
10-8	12,7	0.50	M16 x 1.5	3/4-16	34,5	1.36	10,0	0.39
12-8	12,7	0.50	M18 x 1.5	3/4-16	34,5	1.36	12,0	0.47
15-10	16,0	0.63	M22 x 1.5	7/8-14	39,1	1.54	15,0	0.59
18-12	19,0	0.75	M26 x 1.5	1 1/16-12	42,9	1.69	18,0	0.71
22-16	25,4	1.00	M30 x 2	1 5/16-12	46,0	1.81	22,0	0.87
28-20	31,8	1.25	M36 x 2	1 5/8-12	47,5	1.87	28,0	1.10
35-24	38,1	1.50	M45 x 2	1 7/8-12	52,6	2.07	35,0	1.38
42-32	50,8	2.00	M52 x 2	2 1/2-12	61,0	2.40	42,0	1.65

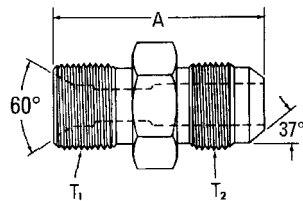
Metric 24° (DIN 3901/3902 s.Rh)/ 37° Flare



Part No. 15.147-(Dash size)

Dash Size	Tube O.D.		Thread T1	Thread T2	A		Rø	
	mm	in			mm	in	mm	in
6-6	9,7	0.38	M14 x 1.5	⁹ / ₁₆ -18	33,0	1.30	6,0	0.24
10-8	12,7	0.50	M18 x 1.5	³ / ₄ -16	35,6	1.40	10,0	0.39
14-10	16,0	0.63	M22 x 1.5	⁷ / ₈ -14	40,4	1.59	14,0	0.55
16-12	19,0	0.75	M24 x 1.5	¹ / ₁₆ -12	44,9	1.77	16,0	0.63
20-16	25,4	1.00	M30 x 2	¹ / ₁₆ -12	48,0	1.89	20,0	0.79
25-20	31,8	1.25	M36 x 2	¹ / ₈ -12	51,6	2.03	25,0	0.98
30-24	38,1	1.50	M42 x 2	¹ / ₈ -12	56,4	2.22	30,0	1.18
38-32	50,8	2.00	M52 x 2	² / ₂ -12	67,0	2.64	38,0	1.50

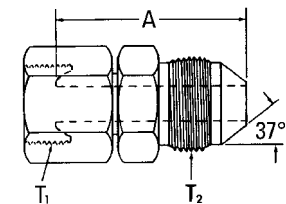
Metric 60° (DIN 7631)/37° Flare



Part No. 15.117-(Dash size)

Dash Size	Tube O.D.		Thread T1	Thread T2	A	
	mm	in			mm	in
4-4	6,4	0.25	M12 x 1.5	⁷ / ₁₆ -20	31,0	1.22
6-6	9,7	0.38	M14 x 1.5	⁹ / ₁₆ -18	31,0	1.22
8-6	9,7	0.38	M16 x 1.5	⁹ / ₁₆ -18	32,0	1.26
8-8	12,7	0.50	M16 x 1.5	³ / ₄ -16	34,5	1.36
10-8	12,7	0.50	M18 x 1.5	³ / ₄ -16	34,5	1.36
13-10	16,0	0.63	M22 x 1.5	⁷ / ₈ -14	38,6	1.52
16-12	19,0	0.75	M26 x 1.5	¹ / ₁₆ -12	42,9	1.69
25-20	31,8	1.25	M38 x 1.5	¹ / ₈ -12	47,5	1.87
32-24	38,1	1.50	M45 x 1.5	¹ / ₈ -12	52,6	2.07
40-32	50,8	2.00	M52 x 1.5	² / ₂ -12	61,0	2.40

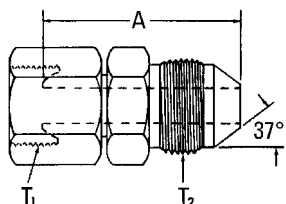
Metric 24° (DIN 3901/3902 s.Rh)/ 37° Flare



Part No. 15.164-(Dash size)

Dash Size	Tube O.D.		Thread T1	Thread T2	A	
	mm	in			mm	in
6-6	9,7	0.38	M14 x 1.5	⁹ / ₁₆ -18	35,1	1.38
10-8	12,7	0.50	M18 x 1.5	³ / ₄ -16	38,1	1.50
14-10	16,0	0.63	M22 x 1.5	⁷ / ₈ -14	40,9	1.61
16-12	19,0	0.75	M24 x 1.5	¹ / ₁₆ -12	43,4	1.71
20-16	25,4	1.00	M30 x 2	¹ / ₁₆ -12	47,0	1.85
30-24	38,1	1.50	M42 x 2	¹ / ₈ -12	53,9	2.12
38-32	50,8	2.00	M52 x 2	² / ₂ -12	62,5	2.46

Metric 24° (DIN 3901/3902 I.Rh)/ 37° Flare



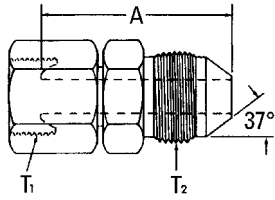
PartNo. 15.163-(Dash size)

Dash Size	Tube O.D.		Thread T1	Thread T2	A	
	mm	in			mm	in
4-4†	6,4	0.25	M12 x 1.5	⁷ / ₁₆ -20	34,5	1.36
6-6†	9,7	0.38	M14 x 1.5	⁹ / ₁₆ -18	34,5	1.36
8-6†	9,7	0.38	M16 x 1.5	⁹ / ₁₆ -18	35,6	1.40
8-8†	12,7	0.50	M16 x 1.5	³ / ₄ -16	38,1	1.50
10-8†	12,7	0.50	M18 x 1.5	³ / ₄ -16	38,1	1.50
13-10†	16,0	0.63	M22 x 1.5	⁷ / ₈ -14	40,9	1.61
16-12†	19,0	0.75	M26 x 1.5	¹ / ₁₆ -12	47,5	1.87
22-16	25,4	1.00	M30 x 2	¹ / ₁₆ -12	49,0	1.93
28-20	31,8	1.25	M36 x 2	¹ / ₈ -12	51,6	2.03
35-24	38,1	1.50	M45 x 2	¹ / ₈ -12	53,6	2.11
42-32	50,8	2.00	M52 x 2	² / ₂ -12	62,5	2.46

†Universal fitting also mates with 60° DIN 7631/7647 connections.

SPECIALTY & TRUCK HOSE
 LOW & MEDIUM PRESSURE HOSE
 HIGH PRESSURE HOSE
 HOSE FITTINGS
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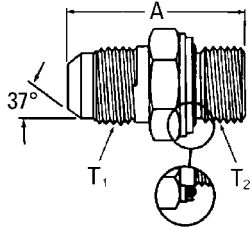
Metric 60° (DIN 7631/7647)/37° Flare



Part No. 15.165-(Dash size)

Dash Size	Tube O.D.		Thread T1	Thread T2	A	
	mm	in			mm	in
20-16	25,4	1.00	M30 x 1.5	1 ⁵ / ₁₆ -12	46,0	1.81
25-20	31,7	1.25	M38 x 1.5	1 ⁵ / ₈ -12	49,5	1.95
32-24	38,1	1.50	M45 x 1.5	1 ⁷ / ₈ -12	52,6	2.07
40-32	50,8	2.00	M52 x 1.5	2 ¹ / ₂ -12	61,0	2.40

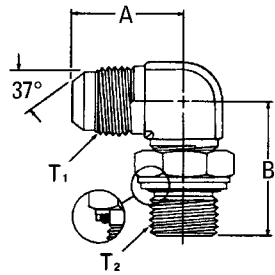
SAE 37° Male/Metric Male



GG108-NP(Size)-(Size)

Dash Size	Tube O.D.		Thread T1	Thread T2	A	
	mm	in			mm	in
04-10	6,4	0.25	7/16-20	M10 x 1	29,0	1.14
04-12	6,4	0.25	7/16-20	M12 x 1.5	33,0	1.30
05-10	7,9	0.31	1/2-20	M10 x 1	29,0	1.14
06-14	9,7	0.38	9/16-18	M14 x 1.5	34,0	1.34
06-16	9,7	0.38	9/16-18	M16 x 1.5	34,0	1.34
08-16	12,7	0.50	3/4-16	M16 x 1.5	37,1	1.46
08-18	12,7	0.50	3/4-16	M18 x 1.5	37,6	1.48
10-18	16,0	0.63	7/8-14	M18 x 1.5	40,1	1.58
10-20	16,0	0.63	7/8-14	M20 x 1.5	42,9	1.69
10-22	16,0	0.63	7/8-14	M22 x 1.5	42,9	1.69
12-22	19,0	0.75	1 ¹ / ₁₆ -12	M22 x 1.5	46,5	1.83
12-27	19,0	0.75	1 ¹ / ₁₆ -12	M27 x 2	49,5	1.95
16-33	25,4	1.00	1 ⁵ / ₁₆ -12	M33 x 2	53,6	2.11

90° Adjustable Elbow SAE 37° Male/Metric Male



GG308-NP(Size)-(Size)

Dash Size	Tube O.D.		Thread T1	Thread T2	A		B	
	mm	in			mm	in	mm	in
04-10	6,4	0.25	7/16-20	M10 x 1	22,6	0.89	25,9	1.02
04-12	6,4	0.25	7/16-20	M12 x 1.5	26,9	1.06	31,5	1.24
06-16	9,7	0.38	9/16-18	M16 x 1.5	28,5	1.12	36,6	1.44
08-16	12,7	0.50	3/4-16	M16 x 1.5	31,5	1.24	36,6	1.44
08-18	12,7	0.50	3/4-16	M18 x 1.5	31,5	1.24	36,6	1.44
10-18	16,0	0.63	7/8-14	M18 x 1.5	36,6	1.44	39,6	1.56
10-20	16,0	0.63	7/8-14	M20 x 1.5	36,6	1.44	42,9	1.69
10-22	16,0	0.63	7/8-14	M22 x 1.5	36,6	1.44	42,9	1.69
12-22	19,0	0.75	1 ¹ / ₁₆ -12	M22 x 1.5	41,9	1.65	45,5	1.79
12-27	19,0	0.75	1 ¹ / ₁₆ -12	M27 x 2	41,9	1.65	49,0	1.93
16-33	25,4	1.00	1 ⁵ / ₁₆ -12	M33 x 2	46,0	1.81	52,0	2.05

SPECIALTY & TRUCK HOSE

LOW & MEDIUM PRESSURE HOSE

HIGH PRESSURE HOSE

HOSE FITTINGS

ADAPTERS & TUBE FITTINGS

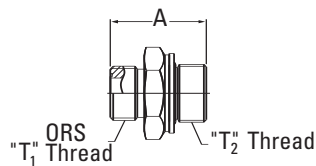
ACCESSORIES & ASSEMBLY INSTRUCTIONS

HOSE ASSEMBLY EQUIPMENT

APPENDICIES

ORS to Metric

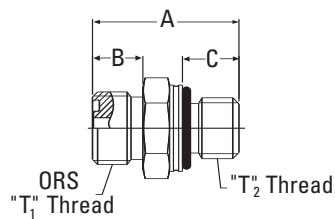
ORS - Special Metric Connector (Mates with DIN 3852 large spotface)



Part No. FF2485T(Size)

Dash Size	Tube O.D.		Thread T1	Thread T2	Ref A	
	mm	in			mm	in
0410S	6,4	0.25	⁹ / ₁₆ -18	M10 x 1	24,9	0.98
0614S	9,7	0.38	¹¹ / ₁₆ -16	M14 x 1.5	31,0	1.22
0818S	12,7	0.50	¹³ / ₁₆ -16	M18 x 1.5	33,6	1.32
0822S	12,7	0.50	¹³ / ₁₆ -16	M22 x 1.5	36,3	1.43
1022S	16,0	0.63	1-14	M22 x 1.5	39,1	1.54
1227S	19,0	0.75	¹³ / ₁₆ -12	M27 x 2	44,4	1.75
1633S	25,4	1.00	¹⁷ / ₁₆ -12	M33 x 2	48,0	1.89
2042S	31,8	1.25	¹¹ / ₁₆ -12	M42 x 2	51,6	2.03
2448S	38,1	1.50	2-12	M48 x 2	55,6	2.19

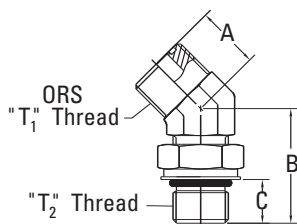
ORS/Male ISO 6149 Boss (S-Series)



Part No. FF2742T(Size) (Ref. SAE 52M0187)

Dash Size	Tube O.D.		Thread T1	Thread T2	A		B		C	
	mm	in			mm	in	mm	in	mm	in
0410S	6,4	0.25	⁹ / ₁₆ -18	M10 x 1	27,9	1.10	9,9	0.39	9,4	0.37
0412S	6,4	0.25	⁹ / ₁₆ -18	M12 x 1.5	28,5	1.12	9,9	0.39	10,9	0.43
0612S	9,7	0.38	¹¹ / ₁₆ -16	M12 x 1.5	32,0	1.26	11,2	0.44	10,9	0.43
0614S	9,7	0.38	¹¹ / ₁₆ -16	M14 x 1.5	32,0	1.26	11,2	0.44	10,9	0.43
0616S	9,7	0.38	¹¹ / ₁₆ -16	M16 x 1.5	33,6	1.32	11,2	0.44	12,4	0.49
0818S	12,7	0.50	¹³ / ₁₆ -16	M18 x 1.5	38,1	1.50	12,7	0.50	14,0	0.55
0822S	12,7	0.50	¹³ / ₁₆ -16	M22 x 1.5	39,4	1.55	12,7	0.50	15,0	0.59
1022S	16,0	0.63	1-14	M22 x 1.5	41,9	1.65	15,5	0.61	15,0	0.59
1222S	19,0	0.75	¹³ / ₁₆ -12	M22 x 1.5	43,4	1.71	17,0	0.67	15,0	0.59
1227S	19,0	0.75	¹³ / ₁₆ -12	M27 x 2	48,5	1.91	17,0	0.67	18,5	0.73
1633S	25,4	1.00	¹⁷ / ₁₆ -12	M33 x 2	52,0	2.05	17,6	0.69	19,0	0.75
2042S	31,8	1.25	¹¹ / ₁₆ -12	M42 x 2	54,6	2.15	17,6	0.69	14,0	0.55
2448S	38,1	1.50	2-12	M48 x 2	56,9	2.24	15,0	0.59	21,6	0.85

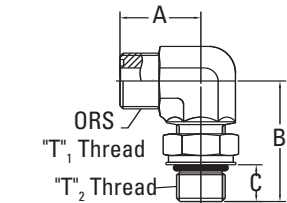
45° ORS/ISO 6149 Boss (S-Series)



Part No. FF2743T(Size) (Ref. SAE 52M0287)

Dash Size	Tube O.D.		Thread T1	Thread T2	A		B		C	
	mm	in			mm	in	mm	in	mm	in
0818S	12,7	0.50	¹³ / ₁₆ -16	M18 x 1.5	20,3	0.80	37,1	1.46	14,2	0.56
1022S	16,0	0.63	1-14	M22 x 1.5	23,4	0.92	43,9	1.73	14,7	0.58
1227S	19,0	0.75	¹³ / ₁₆ -12	M27 x 2	25,9	1.02	50,5	1.99	18,3	0.72

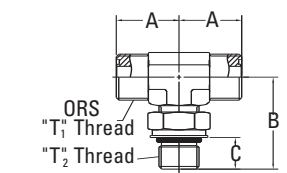
90° ORS/ISO 6149 Boss (S-Series)



Part No. FF2744T(Size) (Ref. SAE 52M0287)

Dash Size	Tube O.D.		Thread T1	Thread T2	A		B		C	
	mm	in			mm	in	mm	in	mm	in
0818S	12,7	0.50	¹³ / ₁₆ -16	M18 x 1.5	29,7	1.17	44,2	1.74	14,2	0.56
1022S	16,0	0.63	1-14	M22 x 1.5	33,3	1.31	49,0	1.93	14,7	0.58
1227S	19,0	0.75	¹³ / ₁₆ -12	M27 x 2	37,3	1.47	55,6	2.19	18,3	0.72

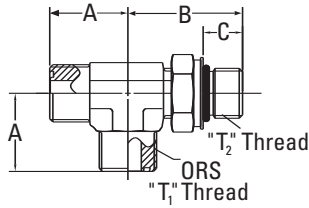
ORS/ISO 6149 Boss (S-Series) Branch Tee



Part No. FF2745T(Size) (Ref. SAE 52M0489)

Dash Size	Tube O.D.		Thread T1	Thread T2	A		B		C	
	mm	in			mm	in	mm	in	mm	in
0818S	12,7	0.50	¹³ / ₁₆ -16	M18 x 1.5	27,9	1.10	40,9	1.61	14,2	0.56
1022S	16,0	0.63	1-14	M22 x 1.5	33,3	1.31	49,0	1.93	14,7	0.58
1227S	19,0	0.75	¹³ / ₁₆ -12	M27 x 2	37,3	1.47	55,6	2.19	18,3	0.72

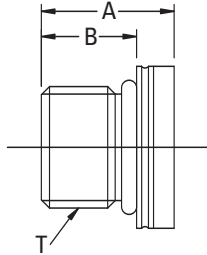
ORS/ISO 6149 Boss (S-Series) Run Tee



Part No. FF2746T(Size) (Ref. SAE 52M0488)

Dash Size	Tube O.D.		Thread T1	Thread T2	A		B		C	
	mm	in			mm	in	mm	in	mm	in
0818S	12,7	0.50	1 ³ / ₁₆ -16	M18 x 1.5	27,9	1.10	40,9	1.61	14,2	0.56
1022S	16,0	0.63	1-14	M22 x 1.5	33,3	1.31	49,0	1.93	14,7	0.58
1227S	19,0	0.75	1 ³ / ₁₆ -12	M27 x 2	37,3	1.47	55,6	2.19	18,3	0.72

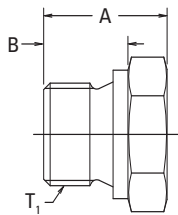
Male ISO-6149 Boss (S-Series) Plug



Part No. FF90396-(Dash size)

Dash Size	Thread T	A		B	
		mm	in	mm	in
14S	M14x1.5	15,0	0.59	6,1	0.24
18S	M18x1.5	18,3	0.72	8,1	0.32
22S	M22x1.5	19,3	0.76	9,9	0.39

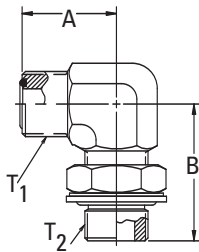
DIN 3852 Form "A" with Dowty Seal Plug



Part No. FF1939-(Dash size)

Dash Size	Tube O.D.		Thread T1	A		B	
	mm	in		mm	in	mm	in
065	9,6	0.38	G ³ / ₈	22,3	0.88	22,3	0.88
085	12,7	0.50	G ¹ / ₂	24,9	0.98	26,9	1.06

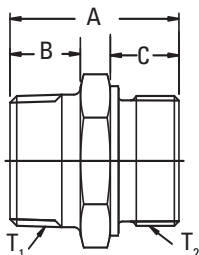
90° ORS Male/ Special BSP Parallel - Mates with DIN 3852 Large Spottface



Part No. FF2484T-(Dash size)

Dash Size	Tube O.D.		Thread T1	Thread T2	A		B	
	mm	in			mm	in	mm	in
0402S	6,3	0.25	9 ¹⁶ / ₁₆ -18	G 0.13	21,6	0.85	32,5	1.28
0604S	9,6	0.38	1 ¹⁶ / ₁₆ -16	G 0.25	24,9	0.98	37,1	1.46
0806S	12,7	0.50	1 ³ / ₁₆ -16	G 0.38	27,9	1.10	25,4	1.00
1008S	16,0	0.63	1-14	G 0.50	33,3	1.31	50,0	1.97
1212S	19,0	0.75	1 ³ / ₁₆ -12	G 0.75	37,3	1.47	54,9	2.16

Male Pipe NPTF/ BSP Male Parallel DIN3852 Form "B"



Part No. 15.000-(Dash size)*

Dash Size	Tube O.D.		Thread T1	Thread T2	A		B		C	
	mm	in			mm	in	mm	in	mm	in
4-4	6,3	0.25	1 ⁴ / ₄ -18	G 1 ⁴ / ₄	36,1	1.42	14,0	0.55	19,0	0.75
6-6	9,6	0.38	3 ⁸ / ₈ -18	G 3 ⁸ / ₈	38,1	1.50	14,5	0.57	22,1	0.87
8-8	12,7	0.50	1 ² / ₂ -14	G 1 ² / ₂	40,4	1.59	17,0	0.67	26,9	1.06
12-12	19,0	0.75	3 ⁴ / ₄ -14	G 3 ⁴ / ₄	44,4	1.75	19,0	0.75	32,0	1.26
16-16	25,4	1.00	1-11 ² / ₂	G 1	54,3	2.14	21,1	0.83	40,9	1.61
20-20	31,7	1.25	1 ¹ / ₄ -11	G 1 ¹ / ₄	57,1	2.25	23,1	0.91	50,0	1.97

*These adapters do not come with an O-ring on the BSP thread.

SPECIALTY & TRUCK HOSE

LOW & MEDIUM PRESSURE HOSE

HIGH PRESSURE HOSE

HOSE FITTINGS

ADAPTERS & TUBE FITTINGS

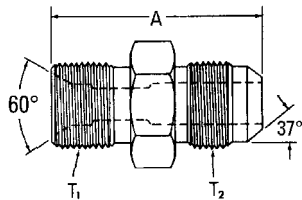
ACCESSORIES & ASSEMBLY INSTRUCTIONS

HOSE ASSEMBLY EQUIPMENT

APPENDICES

BSPP to 37° Flare

BSPP (parallel)/ 37° flare

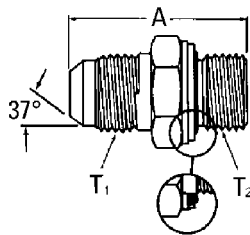


Part No. 2063-(Dash size)

Dash Size	Tube O.D.		Thread T1	Thread T2	A	
	mm	in			mm	in
2-4S	6,4	0.25	1/8-28	7/16-20	35,1	1.38
4-4S	6,4	0.25	1/4-19	7/16-20	35,1	1.38
4-5S	7,9	0.31	1/4-19	1/2-20	35,1	1.38
4-6S	9,7	0.38	1/4-19	9/16-18	35,1	1.38
6-6S	9,7	0.38	3/8-19	9/16-18	36,3	1.43
6-8S	12,7	0.50	3/8-19	3/4-16	38,9	1.53
8-8S	12,7	0.50	1/2-14	3/4-16	41,4	1.63
8-10S	16,0	0.63	1/2-14	7/8-14	43,9	1.73
10-12S	19,0	0.75	5/8-14	1 1/16-12	49,3	1.94
12-10S	16,0	0.63	3/4-14	7/8-14	47,7	1.88
12-12S	19,0	0.75	3/4-14	1 1/16-12	50,5	1.99
16-16S	25,4	1.00	1-11	1 5/16-12	53,1	2.09

Note: The BSPP male end mates with a BSPP female swivel nut.
Use GG106 conversion adapters for port connections.

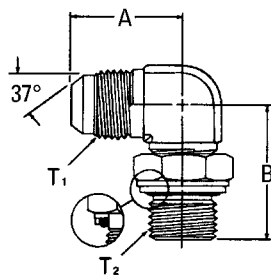
SAE 37° Male/ BSPP Male



GG106-NP(Size)-(Size)

Dash Size	Tube O.D.		Thread T1	Thread T2	A	
	mm	in			mm	in
04-02	6,4	0.25	7/16-20	G 1/8-28	29,0	1.14
04-04	6,4	0.25	7/16-20	G 1/4-19	34,5	1.36
04-06	6,4	0.25	7/16-20	G 3/8-19	34,5	1.36
04-08	6,4	0.25	7/16-20	G 1/2-14	38,1	1.50
06-04	9,7	0.38	9/16-18	G 1/4-19	34,5	1.36
06-06	9,7	0.38	9/16-18	G 3/8-19	34,5	1.36
06-08	9,7	0.38	9/16-18	G 1/2-14	38,1	1.50
08-04	12,7	0.50	3/4-16	G 1/4-19	37,6	1.48
08-06	12,7	0.50	3/4-16	G 3/8-19	37,6	1.48
08-08	12,7	0.50	3/4-16	G 1/2-14	40,9	1.61
08-12	12,7	0.50	3/4-16	G 3/4-14	44,9	1.77
10-06	16,0	0.63	7/8-14	G 3/8-19	40,4	1.59
10-08	16,0	0.63	7/8-14	G 1/2-14	43,4	1.71
12-08	19,0	0.75	1 1/16-12	G 1/2-14	47,0	1.85
12-12	19,0	0.75	1 1/16-12	G 3/4-14	50,0	1.97
12-16	19,0	0.75	1 1/16-12	G 1-11	52,6	2.07
16-12	25,4	1.00	1 1/16-12	G 3/4-14	51,1	2.01
16-16	25,4	1.00	1 5/16-12	G 1-11	53,6	2.11
16-20	25,4	1.00	1 5/16-12	G 1 1/4-11	56,9	2.24
20-20	31,8	1.25	1 5/8-12	G 1 1/4-11	58,4	2.30

90° Adjustable Elbow SAE 37° Male/ BSPP Male

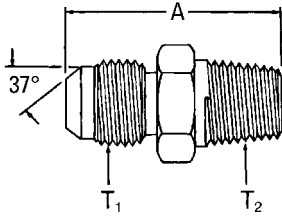


GG306-NP(Size)-(Size)

Dash Size	Tube O.D.		Thread T1	Thread T2	A		B	
	mm	in			mm	in	mm	in
04-02	6,4	0.25	7/16-20	G 1/8-28	22,6	0.89	26,4	1.04
04-04	6,4	0.25	7/16-20	G 1/4-19	26,9	1.06	31,5	1.24
05-04	7,9	0.31	1/2-20	G 1/4-19	26,9	1.06	31,5	1.24
06-04	9,7	0.38	9/16-18	G 1/4-19	26,9	1.06	31,5	1.24
06-06	9,7	0.38	9/16-18	G 3/8-19	28,5	1.12	36,6	1.44
06-08	9,7	0.38	9/16-18	G 1/2-14	31,0	1.22	42,9	1.69
08-06	12,7	0.50	3/4-16	G 3/8-19	31,5	1.24	36,6	1.44
08-08	12,7	0.50	3/4-16	G 1/2-14	34,0	1.34	42,9	1.69
10-08	16,0	0.63	7/8-14	G 1/2-14	36,6	1.44	42,9	1.69
12-12	19,0	0.75	1 1/16-12	G 3/4-14	41,9	1.65	49,0	1.93
16-16	25,4	1.00	1 5/16-12	G 1-11	46,0	1.81	52,6	2.07
20-20	31,8	1.25	1 5/8-12	G 1 1/4-11	52,0	2.05	56,9	2.24

BSPT to 37° Flare

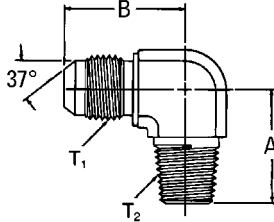
SAE 37° Male/
BSPT Male



GG110-NP(Size)-(Size)

Dash Size	Tube O.D.		Thread T1	Thread T2	A	
	mm	in			mm	in
04-02	6,4	0.25	7/16-20	R1/8-28	29,0	1.14
04-04	6,4	0.25	7/16-20	R1/4-19	33,0	1.30
06-04	9,7	0.38	9/16-18	R1/4-19	33,6	1.32
06-06	9,7	0.38	9/16-18	R3/8-19	33,6	1.32
08-06	12,7	0.50	3/4-16	R3/8-19	36,6	1.44
08-08	12,7	0.50	3/4-16	R1/2-14	40,4	1.59
10-08	16,0	0.63	7/8-14	R1/2-14	42,9	1.69
12-08	19,0	0.75	1 1/16-12	R1/2-14	47,5	1.87
12-12	19,0	0.75	1 1/16-12	R3/4-14	49,5	1.95
12-16	19,0	0.75	1 1/16-12	R1-11	51,6	2.03
16-12	25,4	1.00	1 5/16-12	R3/4-14	50,5	1.99
16-16	25,4	1.00	1 5/16-12	R1-11	52,6	2.07

90° Elbow,
SAE 37° Male/
BSPT Male

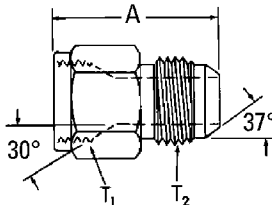


GG310-NP(Size)-(Size)

Dash Size	Tube O.D.		Thread T1	Thread T2	A		B	
	mm	in			mm	in	mm	in
04-02	6,4	0.25	7/16-20	R1/8-28	20,6	0.81	23,4	0.92
04-04	6,4	0.25	7/16-20	R1/4-19	27,4	1.08	26,9	1.06
06-04	9,7	0.38	9/16-18	R1/4-19	27,4	1.08	26,9	1.06
06-06	9,7	0.38	9/16-18	R3/8-19	31,0	1.22	28,5	1.12
06-08	9,7	0.38	9/16-18	R1/2-14	37,1	1.46	31,0	1.22
08-06	12,7	0.50	3/4-16	R3/8-19	31,0	1.22	31,5	1.24
08-08	12,7	0.50	3/4-16	R1/2-14	37,1	1.46	34,0	1.34
12-12	19,0	0.75	1 1/16-12	R3/4-14	40,4	1.59	41,9	1.65
16-16	25,4	1.00	1 5/16-12	R1-11	50,0	1.97	46,0	1.81

JIS 30° to 37° Flare

Female Cone Seat
JIS 30° Female
Cone Seat/SAE
37° Male



Part No. FF2593-(Size)

Dash Size	Tube O.D.		Thread T1	Thread T2	A	
	mm	in			mm	in
0404S	6,4	0.25	G1/4-19	7/16-20	30,3	1.19
0606S	9,7	0.38	G3/8-19	9/16-18	30,7	1.21
0808S	12,7	0.50	G1/2-14	3/4-16	35,8	1.41
1212S	19,0	0.75	G3/4-14	1 1/16-12	43,2	1.70

SPECIALTY &
TRUCK HOSE

LOW & MEDIUM
PRESSURE HOSE

HIGH PRESSURE HOSE

HOSE FITTINGS

ADAPTERS &
TUBE FITTINGS

ACCESSORIES &
ASSEMBLY INSTRUCTIONS

HOSE ASSEMBLY
EQUIPMENT

APPENDICES

Stainless Steel Adapters

Eaton stainless steel adapters are manufactured from 316 stainless steel for excellent corrosive resistance. All parts meet dimensional and performance requirements of SAE J514.

Additionally, all parts are passivated after machining to increase corrosive protection.

Applications:

- Marine/Military
- Chemical Processing
- Pulp and Paper Industry
- Food and Beverage Processing
- Off-Shore Drilling

Note: Stainless steel threaded products are susceptible to galling. Sealing surfaces and threads may be severely damaged due to the high pressure associated with assembly. It is recommended that a high-pressure lubricant be used to prevent galling.

Torque Requirements

SAE Degree (JIC)

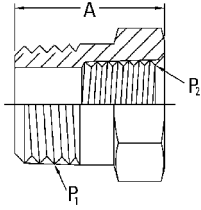
Dash Size	Thread Size (Inches)	Swivel Nut Torque	
		Ft./Lbs.	Newton Meters
-04	7/16-20	11-12	15-16
-05	1/2-20	15-16	20-22
-06	9/16-18	18-20	24-28
-08	3/4-16	38-42	52-88
-10	7/8-14	57-62	77-85
-12	1 1/16-12	79-87	108-119
-16	1 5/16-12	108-113	148-154
-20	1 5/8-12	127-133	173-182
-24	1 7/8-12	158-167	216-227
-32	2 1/2-12	245-258	334-352

Straight Thread O-Ring

Low pressure with 37° (SAE J514)

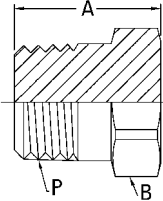
Dash Size	Thread Size (Inches)	Swivel Nut Torque	
		Ft./Lbs.	Newton Meters
-03	3/8-24	8-9	12-13
-04	7/16-20	13-15	18-20
-05	1/2-20	14-15	19-21
-06	9/16-18	23-24	32-33
-08	3/4-16	40-43	55-57
-10	7/8-14	43-48	59-64
-12	1 1/16-12	68-75	93-101
-14	1 3/16-12	83-90	113-122
-16	1 5/16-12	112-123	152-166
-20	1 5/8-12	146-161	198-218
-24	1 7/8-12	154-170	209-230
-32	2 1/2-12	218-240	296-325

Pipe NPTF to NPTF Reducer Bushings



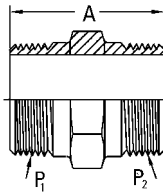
Part Number	Thread P1	Thread P2	A	
			mm	in
259-2081-4-2	1/4-18	1/8-27	21,6	0.85
259-2081-6-2	3/8-18	1/8-27	21,6	0.85
259-2081-6-4	3/8-18	1/4-18	25,4	1.00
259-2081-8-2	1/2-14	1/8-27	27,9	1.10
259-2081-8-4	1/2-14	1/4-18	27,9	1.10
259-2081-8-6	1/2-14	3/8-18	28,5	1.12
259-2081-12-4	3/4-14	1/4-18	29,7	1.17
259-2081-12-6	3/4-14	3/8-18	29,7	1.17
259-2081-12-8	3/4-14	1/2-14	34,5	1.36
259-2081-16-6	1-11 1/2	3/8-18	34,5	1.36
259-2081-16-8	1-11 1/2	1/2-14	34,5	1.36
259-2081-16-12	1-11 1/2	3/4-14	37,8	1.49
259-2081-20-12	1 1/4-11 1/2	3/4-14	37,3	1.47
259-2081-20-16	1 1/4-11 1/2	1-11 1/2	40,9	1.61
259-2081-24-12	1 1/2-11 1/2	3/4-14	39,9	1.57
259-2081-24-16	1 1/2-11 1/2	1-11 1/2	39,9	1.57
259-2081-32-16	2-11 1/2	1-11 1/2	44,4	1.75
259-2081-32-20	2-11 1/2	1 1/4-11 1/2	44,4	1.75
259-2081-32-24	2-11 1/2	1 1/2-11 1/2	44,4	1.75

Plugs



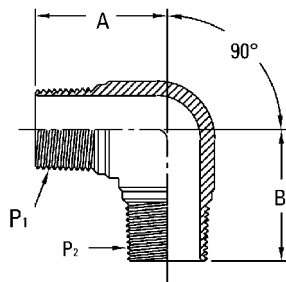
Part Number	Thread P1	A		B	
		mm	in	mm	in
259-2082-2	1/8-27	14,7	0.58	11,2	0.44
259-2082-4	1/4-18	19,3	0.76	14,2	0.56
259-2082-6	3/8-18	20,1	0.79	17,6	0.69
259-2082-8	1/2-14	24,9	0.98	22,4	0.88
259-2082-12	3/4-14	27,4	1.08	26,9	1.06
259-2082-16	1-11 1/2	32,3	1.27	33,3	1.31
259-2082-20	1 1/4-11 1/2	33,0	1.30	44,4	1.75
259-2082-24	1 1/2-11 1/2	33,8	1.33	50,8	2.00
259-2082-32	2-11 1/2	35,3	1.39	63,5	2.50

Hexagon Pipe Nipples



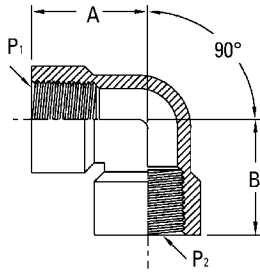
Part Number	Thread P1	Thread P2	A	
			mm	in
259-2083-4-4	1/4-18	1/4-18	36,8	1.45
259-2083-6-4	3/8-18	1/4-18	36,8	1.45
259-2083-6-6	3/8-18	3/8-18	36,8	1.45
259-2083-8-6	1/2-14	3/8-18	43,2	1.70
259-2083-8-8	1/2-14	1/2-14	48,0	1.89
259-2083-12-8	3/4-14	1/2-14	49,8	1.96
259-2083-12-12	3/4-14	3/4-14	49,8	1.96
259-2083-16-12	1-11 1/2	3/4-14	54,6	2.15
259-2083-16-16	1-11 1/2	1-11 1/2	59,4	2.34
259-2083-20-16	1 1/4-11 1/2	1-11 1/2	62,2	2.45
259-2083-20-20	1 1/4-11 1/2	1 1/4-11 1/2	63,0	2.48
259-2083-24-24	1 1/2-11 1/2	1 1/2-11 1/2	66,3	2.61

90° Male Pipe Elbows



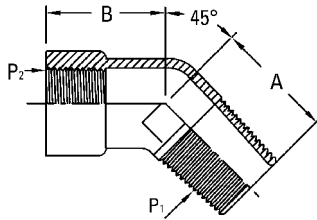
Part Number	Thread P1	Thread P2	A		B	
			mm	in	mm	in
259-2085-4-4	1/4-18	1/4-18	27,7	1.09	27,7	1.09
259-2085-6-4	3/8-18	1/4-18	31,0	1.22	31,0	1.22
259-2085-6-6	3/8-18	3/8-18	31,0	1.22	31,0	1.22
259-2085-8-6	1/2-14	3/8-18	37,3	1.47	32,5	1.28
259-2085-8-8	1/2-14	1 1/2-14	37,3	1.47	37,3	1.47
259-2085-12-12	3/4-14	3/4-14	40,4	1.59	40,4	1.59
259-2085-16-16	1-11 1/2	1-11 1/2	50,0	1.97	50,0	1.97

90° Female Pipe Elbows



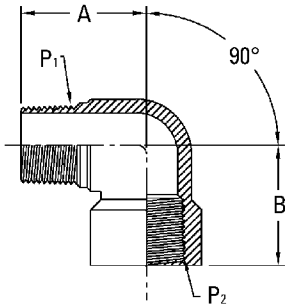
Part Number	Thread P1	Thread P2	A		B	
			mm	in	mm	in
259-2087-4-4	1/4-18	1/4-18	22,4	0.88	22,4	0.88
259-2087-6-6	3/8-18	3/8-18	25,9	1.02	25,9	1.02
259-2087-8-6	1/2-14	3/8-18	31,2	1.23	25,7	1.01
259-2087-8-8	1/2-14	1/2-14	31,2	1.23	31,2	1.23
259-2087-12-12	3/4-14	3/4-14	34,5	1.36	34,5	1.36
259-2087-16-16	1-11 1/2	1-11 1/2	41,1	1.62	41,1	1.62
259-2087-20-20	1 1/4-11 1/2	1 1/4-11 1/2	43,2	1.70	43,2	1.70

45° Pipe Street Elbows



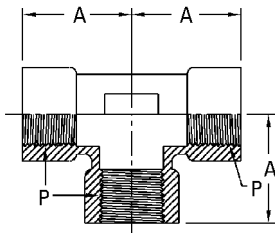
Part Number	Thread P1	Thread P2	A		B	
			mm	in	mm	in
259-2088-4-4	1/4-18	1/4-18	26,7	1.05	15,7	0.62
259-2088-6-6	3/8-18	3/8-18	26,9	1.06	18,3	0.72
259-2088-8-8	1/2-14	1/2-14	34,0	1.34	23,1	0.91
259-2088-12-12	3/4-14	3/4-14	35,1	1.38	24,6	0.97
259-2088-16-16	1-11 1/2	1-11 1/2	43,7	1.72	28,5	1.12

90° Pipe Street Elbows



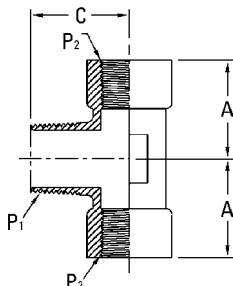
Part Number	Thread P1	Thread P2	A		B	
			mm	in	mm	in
259-2089-4-4	1/4-18	1/4-18	27,7	1.09	22,4	0.88
259-2089-4-6	1/4-18	3/8-18	31,0	1.22	25,9	1.02
259-2089-6-4	3/8-18	1/4-18	31,0	1.22	24,1	0.95
259-2089-6-6	3/8-18	3/8-18	31,0	1.22	25,9	1.02
259-2089-6-8	3/8-18	1 1/2-14	32,5	1.28	31,2	1.23
259-2089-8-6	1/2-14	3/8-18	37,3	1.47	28,5	1.12
259-2089-8-8	1/2-14	1/2-14	37,3	1.47	31,2	1.23
259-2089-12-8	3/4-14	1/2-14	40,4	1.59	34,3	1.35
259-2089-12-12	3/4-14	3/4-14	40,4	1.59	34,5	1.36
259-2089-16-16	1-11 1/2	1-11 1/2	50,0	1.97	41,1	1.62
259-2089-20-20	1 1/4-11 1/2	1 1/4-11 1/2	60,4	2.38	43,2	1.70
259-2089-24-24	1 1/2-11 1/2	1 1/2-11 1/2	67,0	2.64	52,8	2.08

Female Pipe Tee



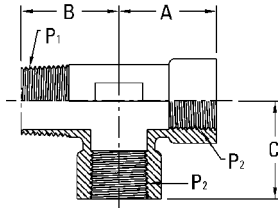
Part Number	Thread P	A	
		mm	in
259-2090-4-4	1/4-18	22,4	0.88
259-2090-6-6	3/8-18	25,9	1.02
259-2090-8-8	1/2-14	31,2	1.23
259-2090-12-12	3/4-14	34,5	1.36
259-2090-16-16	1-11 1/2	41,1	1.62
259-2090-20-20	1 1/4-11 1/2	43,2	1.70
259-2090-24-24	1 1/2-11 1/2	52,8	2.08

Male Branch Tee



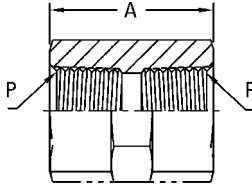
Part Number	Thread P1	Thread P2	A		C	
			mm	in	mm	in
259-2091-4-4	1/4-18	1/4-18	22,4	0.88	27,7	1.09
259-2091-6-6	3/8-18	3/8-18	25,9	1.02	31,0	1.22
259-2091-8-8	1/2-14	1/2-14	31,2	1.23	37,3	1.47
259-2091-12-12	3/4-14	3/4-14	34,5	1.36	40,4	1.59
259-2091-16-16	1-11 1/2	1-11 1/2	41,1	1.62	50,0	1.97

Street Tee



Part Number	Thread P1	Thread P2	A		B		C	
			mm	in	mm	in	mm	in
259-2092-4-4	1/4-18	1/4-18	22,4	0.88	27,7	1.09	22,4	0.88
259-2092-6-6	3/8-18	3/8-18	25,9	1.02	31,0	1.22	25,9	1.02
259-2092-8-8	1/2-14	1/2-14	31,2	1.23	37,3	1.47	31,2	1.23
259-2092-12-12	3/4-14	3/4-14	34,5	1.36	40,4	1.59	34,5	1.36
259-2092-16-16	1-11 1/2	1-11 1/2	41,1	1.62	50,0	1.97	41,1	1.62
259-2092-20-20	1 1/4-11 1/2	1 1/4-11 1/2	43,2	1.70	60,4	2.38	43,2	1.70

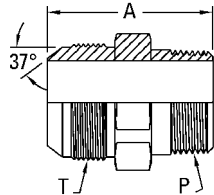
Hexagon Pipe Coupling



Part Number	Thread P	A	
		mm	in
259-2096-4	1/4-18	28,7	1.13
259-2096-6	3/8-18	28,7	1.13
259-2096-8	1/2-14	38,1	1.50
259-2096-12	3/4-14	38,9	1.53
259-2096-16	1-11 1/2	48,0	1.89
259-2096-20	1 1/4-11 1/2	49,0	1.93
259-2096-24	1 1/2-11 1/2	49,0	1.93

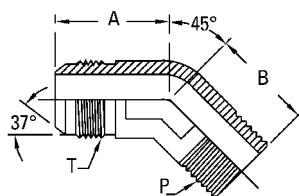
Pipe NPT to SAE 37° Flare

Male Connector



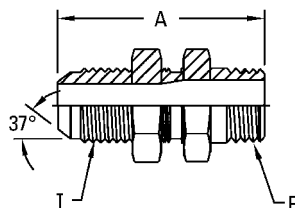
Part Number	Tube O.D.		Thread P	Thread T	A	
	mm	in			mm	in
259-2021-4-4	6,3	0.25	1/4-18	7/16-20	36,1	1.42
259-2021-4-6	9,6	0.38	1/4-18	9/16-18	36,3	1.43
259-2021-6-6	9,6	0.38	3/8-18	9/16-18	36,3	1.43
259-2021-6-8	12,7	0.50	3/8-18	3/4-16	38,9	1.53
259-2021-8-8	12,7	0.50	1/2-14	3/4-16	45,5	1.79
259-2021-12-12	19,0	0.75	3/4-14	1 1/16-12	52,3	2.06
259-2021-16-16	25,4	1.00	1-11 1/2	1 5/16-12	58,4	2.30
259-2021-16-20	31,7	1.25	1-11 1/2	1 5/8-12	61,5	2.42
259-2021-20-16	25,4	1.00	1 1/4-11 1/2	1 5/16-12	61,0	2.40
259-2021-20-20	31,7	1.25	1 1/4-11 1/2	1 5/8-12	62,2	2.45

45° Male Elbow



Part Number	Tube O.D.		Thread P	Thread T	A		B	
	mm	in			mm	in	mm	in
259-2023-4-4	6,3	0.25	1/4-18	7/16-20	20,8	0.82	21,8	0.86
259-2023-6-6	9,6	0.38	3/8-18	9/16-18	22,4	0.88	24,1	0.95
259-2023-6-8	12,7	0.50	3/8-18	3/4-16	24,9	0.98	24,1	0.95
259-2023-8-6	9,6	0.38	1/2-14	9/16-18	23,1	0.91	29,7	1.17
259-2023-8-8	12,7	0.50	1/2-14	3/4-16	25,4	1.00	29,7	1.17
259-2023-12-12	19,0	0.75	3/4-14	1 1/16-12	32,5	1.28	30,5	1.20
259-2023-16-16	25,4	1.00	1-11 1/2	1 5/16-12	37,3	1.47	37,6	1.48
259-2023-20-20	31,7	1.25	1 1/4-11 1/2	1 5/8-12	40,4	1.59	42,4	1.67
259-2023-24-24	38,1	1.50	1 1/2-11 1/2	1 7/8-12	45,2	1.78	44,9	1.77

Bulkhead w/Jam Nut



Part Number	Tube O.D.		Thread P	Thread T	A	
	mm	in			mm	in
259-2240-4-4	6,3	0.25	7/16-20	1/4-18	51,6	2.03
259-2240-4-6	9,6	0.38	9/16-18	1/4-18	53,9	2.12
259-2240-6-8	12,7	0.50	3/4-16	3/8-18	59,9	2.36
259-2240-12-12	19,0	0.75	1 1/16-12	3/4-14	74,2	2.92
259-2240-16-16	25,4	1.00	1 5/16-12	1-11 1/2	79,0	3.11

SPECIALTY & TRUCK HOSE

LOW & MEDIUM PRESSURE HOSE

HIGH PRESSURE HOSE

HOSE FITTINGS

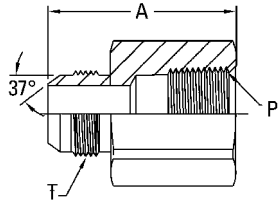
ADAPTERS & TUBE FITTINGS

ACCESSORIES & ASSEMBLY INSTRUCTIONS

HOSE ASSEMBLY EQUIPMENT

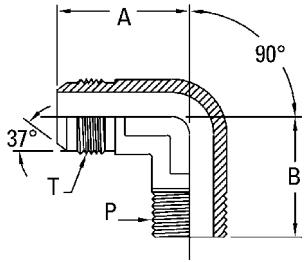
APPENDICES

Female Connector



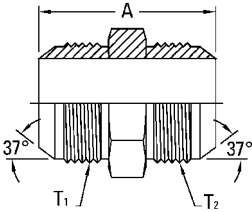
Part Number	Tube O.D.		Thread P	Thread T	A	
	mm	in			mm	in
259-2022-4-4	6,3	0.25	1/4-18	7/16-20	35,3	1.39
259-2022-6-6	9,6	0.38	3/8-18	9/16-18	37,1	1.46
259-2022-6-8	12,7	0.50	3/8-18	3/4-16	39,6	1.56
259-2022-8-8	12,7	0.50	1/2-14	3/4-16	45,5	1.79
259-2022-12-12	19,0	0.75	3/4-14	1 1/16-12	52,3	2.06
259-2022-16-16	25,4	1.00	1-1 1/2	1 5/16-12	59,7	2.35
259-2022-20-20	31,7	1.25	1 1/4-1 1/2	1 5/8-12	63,2	2.49
259-2022-24-24	38,1	1.50	1 1/2-1 1/2	1 7/8-12	66,5	2.62

90° Male Elbow



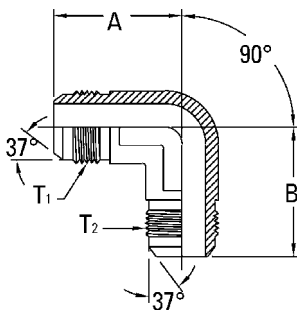
Part Number	Tube O.D.		Thread P	Thread T	A		B	
	mm	in			mm	in	mm	in
259-2024-4-4	6,3	0.25	1/4-18	7/16-20	26,7	1.05	27,7	1.09
259-2024-4-6	9,6	0.38	1/4-18	9/16-18	26,9	1.06	27,7	1.09
259-2024-6-6	9,6	0.38	3/8-18	9/16-18	29,0	1.14	31,0	1.22
259-2024-6-8	12,7	0.50	3/8-18	3/4-16	31,8	1.25	31,0	1.22
259-2024-8-8	12,7	0.50	1/2-14	3/4-16	33,8	1.33	37,3	1.47
259-2024-12-12	19,0	0.75	3/4-14	1 1/16-12	42,2	1.66	40,4	1.59
259-2024-16-16	25,4	1.00	1-1 1/2	1 5/16-12	46,0	1.81	50,0	1.97
259-2024-16-20	31,7	1.25	1-1 1/2	1 5/8-12	52,3	2.06	59,7	2.35
259-2024-20-20	31,7	1.25	1 1/4-1 1/2	1 5/8-12	52,3	2.06	60,4	2.38
259-2024-24-24	38,1	1.50	1 1/2-1 1/2	1 7/8-12	59,2	2.33	67,0	2.64

SAE 37° Flare Union



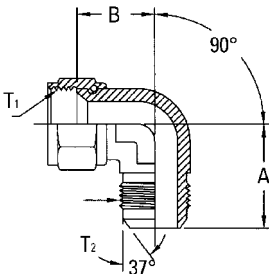
Part Number	Tube O.D.		Thread T1	Thread T2	A	
	mm	in			mm	in
259-2027-4-4	6,3	0.25	7/16-20	7/16-20	34,8	1.37
259-2027-6-4	6,3	0.25	9/16-18	7/16-20	35,6	1.40
259-2027-6-6	9,6	0.38	9/16-18	9/16-18	35,8	1.41
259-2027-8-6	9,6	0.38	3/4-16	9/16-18	38,6	1.52
259-2027-8-8	12,7	0.50	3/4-16	3/4-16	41,1	1.62
259-2027-12-12	19,0	0.75	1 1/16-12	1 1/16-12	54,9	2.16
259-2027-16-16	25,4	1.00	1 5/16-12	1 5/16-12	57,2	2.25
259-2027-20-20	31,7	1.25	1 5/8-12	1 5/8-12	61,7	2.43
259-2027-24-24	38,1	1.50	1 7/8-12	1 7/8-12	69,8	2.75

90° Union Elbow



Part Number	Tube O.D.		Thread T1	Thread T2	A		B	
	mm	in			mm	in	mm	in
259-2039-4-4	6,3	0.25	7/16-20	7/16-20	22,6	0.89	22,6	0.89
259-2039-6-6	9,6	0.38	9/16-18	9/16-18	26,9	1.06	26,9	1.06
259-2039-8-8	12,7	0.50	3/4-16	3/4-16	31,8	1.25	31,8	1.25
259-2039-12-12	19,0	0.75	1 1/16-12	1 1/16-12	42,2	1.66	42,2	1.66
259-2039-16-16	25,4	1.00	1 5/16-12	1 5/16-12	46,0	1.81	46,0	1.81
259-2039-20-20	31,7	1.25	1 5/8-12	1 5/8-12	52,3	2.06	52,3	2.06
259-2039-24-24	38,1	1.50	1 7/8-12	1 7/8-12	59,2	2.33	59,2	2.33

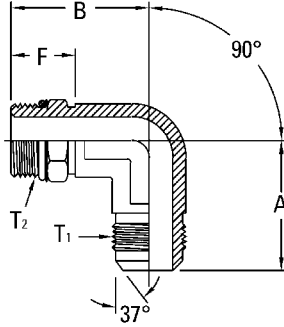
90° Swivel Elbow



Part Number	Tube O.D.		Thread T1	Thread T2	A		B	
	mm	in			mm	in	mm	in
259-2071-4-4	6,3	0.25	7/16-20	7/16-20	22,6	0.89	16,8	0.66
259-2071-6-6	9,6	0.38	9/16-18	9/16-18	26,9	1.06	22,4	0.88
259-2071-8-8	12,7	0.50	3/4-16	3/4-16	31,8	1.25	24,4	0.96
259-2071-10-10	16,0	0.63	7/8-14	7/8-14	36,8	1.45	28,5	1.12
259-2071-12-12	19,0	0.75	1 1/16-12	1 1/16-12	42,2	1.66	30,3	1.19
259-2071-16-16	25,4	1.00	1 5/16-12	1 5/16-12	46,0	1.81	35,8	1.41
259-2071-20-20	31,7	1.25	1 5/8-12	1 5/8-12	52,3	2.06	42,7	1.68
259-2071-24-24	38,1	1.50	1 7/8-12	1 7/8-12	59,2	2.33	47,2	1.86

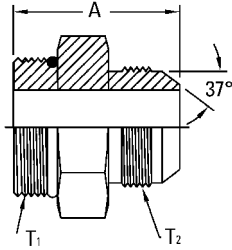
O-Ring Boss to SAE 37° Flare

90° Straight Thread Elbow



Part Number	Tube O.D.		Thread P	Thread T	A		B	
	mm	in			mm	in	mm	in
259-2062-4-4	6,3	0.25	7/16-20	7/16-20	22,6	0.89	26,2	1.03
259-2062-4-6	9,6	0.38	9/16-18	7/16-20	26,9	1.06	30,3	1.19
259-2062-6-4	6,3	0.25	7/16-20	9/16-18	26,7	1.05	31,8	1.25
259-2062-6-6	9,6	0.38	9/16-18	9/16-18	26,9	1.06	31,8	1.25
259-2062-6-8	12,7	0.50	3/4-16	9/16-18	31,8	1.25	33,6	1.32
259-2062-8-6	9,6	0.38	9/16-18	3/4-16	29,0	1.14	36,8	1.45
259-2062-8-8	12,7	0.50	3/4-16	3/4-16	31,8	1.25	36,8	1.45
259-2062-12-12	19,0	0.75	1 1/16-12	1 1/16-12	42,2	1.66	49,3	1.94
259-2062-12-16	25,4	1.00	1 5/16-12	1 1/16-12	44,7	1.76	52,0	2.05
259-2062-16-12	19,0	0.75	1 1/16-12	1 5/16-12	46,0	1.81	52,0	2.05
259-2062-16-16	25,4	1.00	1 5/16-12	1 5/16-12	46,0	1.81	52,0	2.05
259-2062-16-20	31,7	1.25	1 5/8-12	1 5/16-12	51,1	2.01	57,2	2.25
259-2062-20-16	25,4	1.00	1 5/16-12	1 5/8-12	52,3	2.06	56,6	2.23
259-2062-20-20	31,7	1.25	1 5/8-12	1 5/8-12	52,3	2.06	57,2	2.25
259-2062-20-24	38,1	1.50	1 7/8-12	1 5/8-12	55,9	2.20	60,7	2.39
259-2062-24-24	38,1	1.50	1 7/8-12	1 7/8-12	59,2	2.33	60,7	2.39

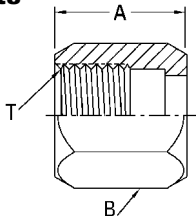
Straight Thread Short Connector



Part Number	Tube O.D.		Thread P	Thread T	A	
	mm	in			mm	in
259-202702-4-4	6,3	0.25	7/16-20	7/16-20	31,2	1.23
259-202702-4-6	9,6	0.38	7/16-20	9/16-18	32,3	1.27
259-202702-6-4	6,3	0.25	9/16-18	7/16-20	32,8	1.29
259-202702-6-6	9,6	0.38	9/16-18	9/16-18	33,0	1.30
259-202702-6-8	12,7	0.50	9/16-18	3/4-16	36,6	1.44
259-202702-8-6	9,6	0.38	3/4-16	9/16-18	35,1	1.38
259-202702-8-8	12,7	0.50	3/4-16	3/4-16	37,6	1.48
259-202702-12-8	12,7	0.50	1 1/16-12	3/4-16	44,7	1.76
259-202702-12-12	19,0	0.75	1 1/16-12	1 1/16-12	50,0	1.97
259-202702-12-16	25,4	1.00	1 1/16-12	1 5/16-12	51,8	2.04
259-202702-16-12	19,0	0.75	1 5/16-12	1 1/16-12	50,5	1.99
259-202702-16-16	25,4	1.00	1 5/16-12	1 5/16-12	51,8	2.04
259-202702-16-20	31,7	1.25	1 5/16-12	1 5/8-12	59,2	2.33
259-202702-20-16	25,4	1.00	1 5/8-12	1 5/16-12	53,9	2.12
259-202702-20-20	31,7	1.25	1 5/8-12	1 5/8-12	55,2	2.17
259-202702-20-24	38,1	1.50	1 5/8-12	1 7/8-12	64,3	2.53
259-202702-24-20	31,7	1.25	1 7/8-12	1 5/8-12	56,9	2.24
259-202702-24-24	38,1	1.50	1 7/8-12	1 7/8-12	60,2	2.37

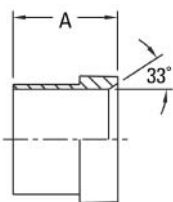
SAE 37° Flare Nuts and Sleeves

Nuts



Part Number	Tube O.D.		Thread P	Thread T	A	
	mm	in			mm	in
259-1290-4	6,3	0.25	7/16-20	.62	14,2	0.56
259-1290-6	9,6	0.38	9/16-18	.72	17,6	0.69
259-1290-8	12,7	0.50	3/4-16	.84	22,4	0.88
259-1290-10	16,0	0.63	7/8-14	.97	25,4	1.00
259-1290-12	19,0	0.75	1 1/16-12	1.02	31,8	1.25
259-1290-16	25,4	1.00	1 5/16-12	1.12	38,1	1.50
259-1290-20	31,7	1.25	1 5/8-12	1.22	50,8	2.00
259-1290-24	38,1	1.50	1 7/8-12	1.41	57,2	2.25

Sleeves



Part Number	Tube O.D.		A	
	mm	in	mm	in
259-900605-4	6,3	0.25	10,4	0.41
259-900605-6	9,6	0.38	12,7	0.50
259-900605-8	12,7	0.50	14,2	0.56
259-900605-10	16,0	0.63	16,8	0.66
259-900605-12	19,0	0.75	17,6	0.69
259-900605-16	25,4	1.00	19,8	0.78
259-900605-20	31,7	1.25	23,1	0.91
259-900605-24	38,1	1.50	28,5	1.12

SPECIALTY & TRUCK HOSE

LOW & MEDIUM PRESSURE HOSE

HIGH PRESSURE HOSE

HOSE FITTINGS

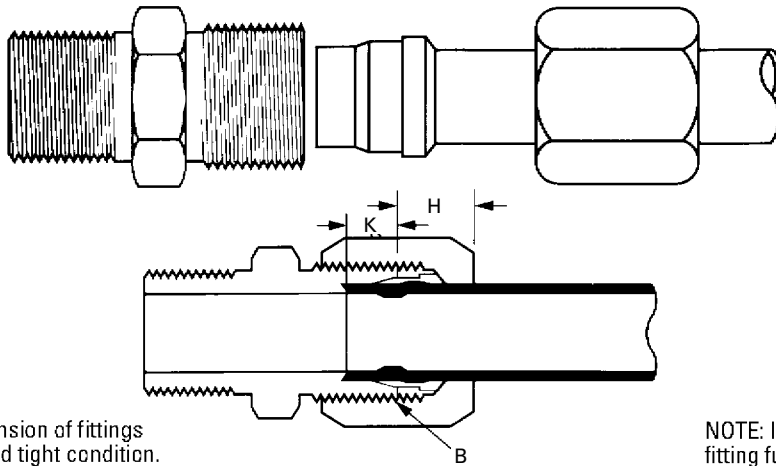
ADAPTERS & TUBE FITTINGS

ACCESSORIES & ASSEMBLY INSTRUCTIONS

HOSE ASSEMBLY EQUIPMENT

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7000 Series Ermeto



NOTE: "H" is dimension of fittings assembled to hand tight condition.

NOTE: Illustration shows fitting fully assembled.

Tube O.D.	1/8	3/16	1/4	5/16	3/8	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	2
Thread Size-B	5/16-24	3/8-24	7/16-20	1/2-20	9/16-18	3/4-16	7/8-14	1 1/16-12	1 3/16-12	1 5/16-12	1 7/8-12	1 7/8-12	2 1/2-12
Seat Depth-K	.19	.24	.24	.26	.26	.31	.36	.36	.36	.42	.42	.49	.49
H (Ref.)	.31	.30	.39	.41	.47	.48	.53	.55	.53	.63	.56	.61	.64

• Typical Application

Hydraulic, instrumentation and chemical processing systems. Highly recommended for high pressure applications.

• Pressure

Operating pressure up to 10,000 psi depending on tube and fitting size. See steel fittings recommendations, pages 285.

• Vibration

Excellent resistance.

• Temperature Range

-65°F to +400°F (-53°C to +204°C) at maximum operating pressures. Has been used at 800°F and 1000 psi to 4000 psi depending on tube size. Stainless steel has been used at +1000°F and 2000 psi.

• Material

Carbon Steel - AISI/SAE 12L14

Plating - Black Zinc Phosphate

Stainless Steel - Bodies and nuts: type 316. Sleeves: 17-4PH.

• Used With

Aluminum, hard or half copper, steel, stainless steel, monel, titanium and extra heavy wall tubing that cannot be flared.

• Advantages

An excellent high pressure fitting - NO TUBE FLARING. Used with extra heavy wall tubing. Broad selection of sizes and styles.

• Conformance

Meets specifications and standards of ASA, ASME and SAE.

• How to Order

For complete assembly (body, nut sleeve) order individually by part number. Example: 7205x4. To order body only (less nut and sleeve), prefix the part number with the letter B. Example: B7205x4. Nuts and sleeves can be ordered separately by part number.

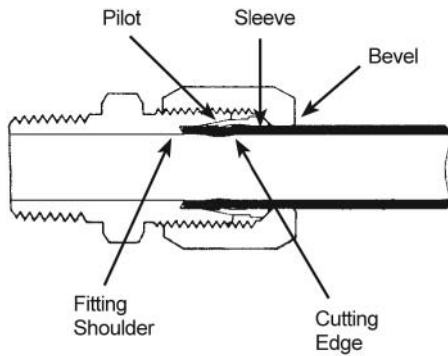
• NOTE

Refer to current price list for availability of cataloged items. Quotations and delivery of non-stock items supplied on request. Configurations and dimensions subject to change without notice. Additional information can be found in SAE J514.

• Assembly Instructions

See page 284.

Ermeto Fittings (7000 Series) are especially designed for making leak-proof tube connections. This fitting will effectively withstand high pressure, severe vibration and extreme temperature. No special tools are needed for assembly. Simply cut tube square, preset sleeve on tubing and assemble.



ERMETO Design Principle Provides Positive Seal

1. In presetting, as the nut is tightened it forces the sleeve forward into the body taper. See page 283 for preset instructions.
2. Pilot of sleeve contracts, forcing the cutting edge of sleeve to shear a groove into outer surface of the tube, making a tight joint between fitting and tube.
3. In assembling the preset sleeve and tube into the fitting body, the nut presses on the bevel at rear of sleeve causing it to clamp tightly to the tube. Resistance to vibration is concentrated at this point rather than at the sleeve cut.
4. When fully tightened, the case hardened sleeve is bowed slightly at the midsection and acts as a spring. This spring action of the sleeve maintains a constant tension between the body and the nut, and thus prevents the nut from loosening.
5. After the first assembly, the sleeve is permanently attached to the tube. Disassembly and reassembly of the fitting can be made without loss of strength or sealing qualities.

"7000" Series Fittings

Specifically designed to meet all SAE approved standards for hydraulic flareless tube fittings. Available in a complete range of standard body styles. In addition, the "7000" Series includes all body styles for SAE straight thread o-ring boss mounting. Complete size range to 2".

Carbon Steel "7000" Series

Eaton Ermeto Fittings have a black zinc phosphate finish, which fully resists the effects of nonflammable hydraulic fluids.

Stainless Steel "7000" Series

Fittings are also available in a complete range of body styles and sizes.

Standard stainless steel assemblies may be ordered by quoting the stainless steel part numbers appearing in this catalog. Standard stainless steel assemblies are composed of the following types of material:

Body - Type 316 Stainless Steel

Nut - Type 316 Stainless Steel

Sleeve - Type 17-4PH Stainless Steel

Any deviation from the standard assembly must be ordered as component parts. Example: If Type 316 bodies and 17-4PH sleeves are to be used, they can be ordered as follows:

B7217x8 Body only (Type 316 Stainless Steel)

7176x8 Sleeves (Type 17-4PH Stainless Steel)

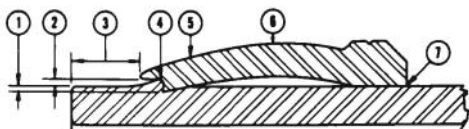
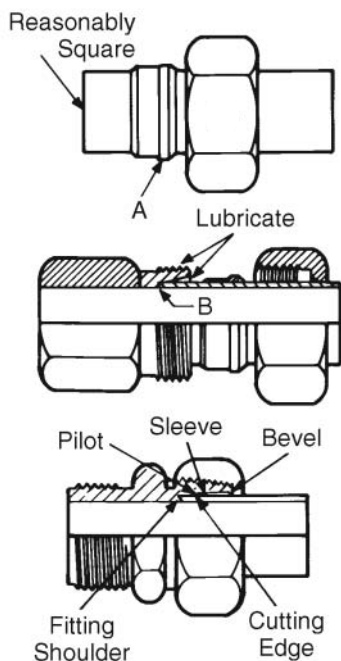
7105x8 Nuts (Standard Carbon Steel)

In general, the "bite-action" of the sleeves in any given material varies as shown in the following table:

Stainless Steel Sleeves

Part No. 7176 sleeves are made from Armco 17-4PH precipitation hardened stainless steel. When used on "fully annealed" to 1/8 hard tubing in the 303 to 316 stainless range, they provide the typical seal.

"7000" SERIES SLEEVE	SLEEVE MATERIAL	TUBING USED 303 TO 316 STAINLESS AND CUPRO-NICKEL	"BITE-ACTION"
7165	Heat Treated Carbon Steel (Standard Carbon)	Fully annealed to 1/8 hard	Excellent
7176	17-4PH Stainless (Standard Stainless)	Fully annealed	Excellent



Presetting Operation

Preset with Preset Tool:

1. CAUTION: All stainless steel sleeves should be preset in tool prior to installation.
2. Slide nut and then sleeve on tube. Shoulder of sleeve "A" must be toward nut.
3. Insert tube into presetting tool. Be sure that tube is bottomed on fitting tube stop at point "B". Lubricate threads, seat of fitting and shoulder of sleeve with good grade of lubricant.
4. Turn nut slowly with wrench while turning tube with other hand. When the sleeve grips the tube, that is, when the tube can no longer be turned by hand - STOP - and note the position of the wrench. This is the "Ring Grip" point.
5. Tighten nut an additional number of turns past the ring grip point per tube size and wall thickness as shown in Table 1, page 283.
6. Disassemble from preset tool.

Preset in Fitting Body:

1. Follow same procedure as when presetting with preset tool. Once the fitting nut has been turned the proper number of turns past ring grip, the fitting assembly is complete and ready for use.

NOTE: Only Carbon Steel Sleeves can be preset directly into the fitting body. Due to possible thread galling, the use of presetting tools is required when stainless steel fittings are to be assembled.

Fitting Installation

1. After sleeve and nut have been preset on the tubing and checked as described, the assembly is ready for installation into the Ermeto fitting seat.
2. Lubricate threads, seat of fitting and shoulder of sleeve with a good grade of lubricant compatible with system fluid.
3. Insert tube assembly into fitting and tighten nut until sharp rise in torque is felt.
4. Starting at the position of sharp torque rise, tighten nut $\frac{1}{4}$ turn to complete assembly.

When the assembly procedure for Ermeto fittings is followed correctly, these points will be evident:

1. Cutting edge of sleeve will be imbedded in tubing to its full depth.
2. Pilot edge of sleeve should be close to or touching O.D. of tubing.
3. Distance between end of tube and leading or pilot edge of sleeve will be at least $\frac{1}{8}$ ".
4. Metal will be piled ahead of cutting edge of sleeve under pilot.
5. Contact area of sleeve will show evidence of being in perfect contact with tapered seat of fitting.
6. Sleeve will show evidence of being bowed within its elastic limits.
7. Back of sleeve will be in contact with tube.

NOTE: Performance of fitting will not be affected if sleeve rotates on tube after disassembly.

For Re-Installation of Fitting After Disassembly

1. Insert tube assembly into fitting, tighten nut until a sharp rise in torque is felt.
2. Starting at the position of sharp torque rise, tighten nut $\frac{1}{4}$ turn to complete the reinstallation.

**TABLE 1: Number of Additional Turns from “Ring Grip”
for Hand Presetting Operation-Ermeto Sleeve**

Tube Size	Tube Material **	TUBE WALL THICKNESS									
		.018	.022	.028	.035	.049	.065	.083	.095	.109	.120
2	C 1010 MIL T 8504	1-1/6 1-1/6	1-1/6 1-1/6	1-1/6 1-1/6	1-1/6 1-1/6						
3	C 1010 MIL T 8504	1-1/6 1-1/6	1-1/6 1-1/6	1-1/6 1-1/6	1 1						
4	C 1010 MIL T 8504			1-1/6 1-1/6	1-1/6 1	1-1/6 1	1 5/6				
5	C 1010 MIL T 8504			1-1/6 1-1/6	1-1/6 1-1/6	1-1/6 1	1 1				
6	C 1010 MIL T 8504				1-1/6 1-1/6	1-1/6 5/6	1 5/6	1 1			
8	C 1010 MIL T 8504				1-1/6 1-1/6	1-1/6 1	1 5/6	1 5/6	1 5/6		
10	C 1010 MIL T 8504					1-1/6 1-1/6	1 1	5/6 5/6	5/6 5/6	5/6	5/6
12	C 1010 MIL T 8504					1 1-1/6	1 1	5/6 5/6	5/6 5/6	5/6 5/6	
16	C 1010 MIL T 8504					1-1/6	1-1/6 1-1/6	5/6 1-1/6	5/6 5/6	5/6 5/6	5/6
20	C 1010 MIL T 8504					1-1/6 1	1 1	1 1	1 1	5/6 5/6	5/6 5/6
24	C 1010 MIL T 8504								1	1	1
32	C 1010 MIL T 8504								1	1	1

** C 1010 - Carbon Steel Tubing

** MIL T 8504 - Annealed Stainless Steel

SPECIALTY &
TRUCK HOSE

LOW & MEDIUM
PRESSURE HOSE

HIGH PRESSURE HOSE

HOSE FITTINGS

ADAPTERS &
TUBE FITTINGS

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HOSE ASSEMBLY
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Hydraulic Pressure Data - ERMETO Flareless Fittings

Ermeto® fittings have been used with success on many and varied applications far exceeding the conservative conditions presented below. Specifically:

- Temperatures up to 800°F, in carbon steel and 1000°F, in stainless steel have been handled without failure.*
- Burst pressures up to 32,000 psi with 1/4" tubing.
- Vibration conditions of 1/8" off-center amplitude with 12" overhang in 1/4" tubing have been withstood at rated operating pressure with 4-to-1 safety factors for over ten million cycles.

Obviously under extreme conditions of pressure, temperature and/or vibration, the safety factor is proportionately reduced.

The Ermeto flareless fitting is the ultimate hydraulic fitting available today. Special performance conditions as outlined can be accommodated; however, it is recommended that your local Eaton representative be consulted for engineering assistance prior to finalizing design.

The values shown in the following table are pressure ratings of Ermeto flareless fittings under various surge conditions. They apply and are recommended for conservative operating conditions.

Size No.	Size in Inches	Maximum Pressure† No Surges PSI	Maximum Pressure† With Surges to 50%	Maximum Pressure† With Surges of 50% to 100%	Maximum Pressure† With Surges up to 150%
2	1/8	10,000	6,500	5,000	4,000
3	3/16	9,000	6,000	4,500	3,600
4	1/4	8,000	5,250	4,000	3,200
5	5/16	8,000	5,250	4,000	3,200
6	3/8	7,500	5,000	3,750	3,000
8	1/2	7,000	4,500	3,500	2,700
10	5/8	5,000	3,250	2,500	2,000
12	3/4	5,000	3,250	2,500	2,000
14	7/8	3,750	2,500	1,800	1,500
16	1	3,600	2,400	1,800	1,400
20	1 1/4	3,200	2,100	1,600	1,275
24	1 1/2	3,000	2,000	1,500	1,200
32	2	2,750	1,800	1,350	1,100

†Pressures shown do not apply to pneumatic applications or stainless steel tubing installations.
*Zinc plating discolors at temperatures over 400°F and melts at 750°F.

SPECIALTY & TRUCK HOSE

LOW & MEDIUM PRESSURE HOSE

HIGH PRESSURE HOSE

HOSE FITTINGS

ADAPTERS & TUBE FITTINGS

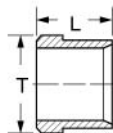
ACCESSORIES & ASSEMBLY INSTRUCTIONS

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Sleeve-Part No. 7165x

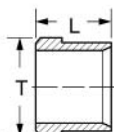
Stainless Steel No. 7176x
(Ref. SAE No. 080115B)



Sleeve-Part No. 8165x

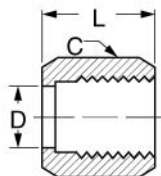


For use with diesel nuts only.

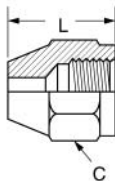
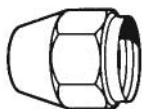


Nut-Part No. 7105x

Stainless Steel No. 7117x
(Ref. SAE No. 080110)

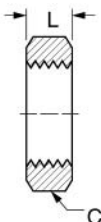


Diesel Nut-Part No. 8112x



Bulkhead Nut-Part No. 7924x

Stainless Steel No. 7936x
(Ref. SAE No. 080118)



Part Number	Tube O.D.	L	Dia. T
7165x2•	1/8	.28	.20
7165x3•	3/16	.28	.31
7165x4•	1/4	.34	.36
7165x5•	5/16	.34	.42
7165x6•	3/8	.38	.48
7165x8•	1/2	.38	.63
7165x10•	5/8	.42	.75
7165x12•	3/4	.42	.88
7165x14•	7/8	.42	1.00
7165x16•	1	.42	1.13
7165x20•	1 1/4	.42	1.41
7165x24•	1 1/2	.42	1.66
7165x32•	2	.45	2.19

Part Number	Tube O.D.	L	Dia. T
8165x4	1/4	.34	.38
8165x5	5/16	.34	.44
8165x6	3/8	.38	.50

Part Number	Tube O.D.	Hex C	L	D Dia.
7105x2•	1/8	3/8	.53	.132
7105x3•	3/16	7/16	.61	.195
7105x4•	1/4	9/16	.70	.257
7105x5•	5/16	5/8	.72	.320
7105x6•	3/8	1 1/16	.75	.382
7105x8•	1/2	7/8	.84	.508
7105x10•	5/8	1	.92	.634
7105x12•	3/4	1 1/4	.97	.759
7105x14•	7/8	1 3/8	1.00	.884
7105x16•	1	1 1/2	1.05	1.009
7105x20•	1 1/4	2	1.05	1.263
7105x24•	1 1/2	2 1/4	1.03	1.513
7105x32•	2	2 7/8	1.12	2.017

Part Number	Tube O.D.	Thread Number	Hex C	L
8112x4	1/4	9/16-18	3/4	.94
8112x5	5/16	5/8-18	1 3/16	1.00
8112x6	3/8	3/4-16	1 5/16	1.13

Part Number	Tube O.D.	Hex C	L
7924x4•	1/4	1 1/16	.28
7924x6•	3/8	1 3/16	.27
7924x8•	1/2	1	.31
7924x10	5/8	1 1/8	.36
7924x12•	3/4	1 3/8	.41
7924x14	7/8	1 1/2	.41
7924x16•	1	1 5/8	.41

• Available in stainless steel.

All measurements are in inches.

SPECIALTY & TRUCK HOSE

LOW & MEDIUM PRESSURE HOSE

HIGH PRESSURE HOSE

HOSE FITTINGS

ADAPTERS & TUBE FITTINGS

ACCESSORIES

HOSE ASSEMBLY EQUIPMENT

APPENDICES

Cap-Part No. 7129x

Stainless Steel No. 7141x
(Ref. SAE No. 080112)



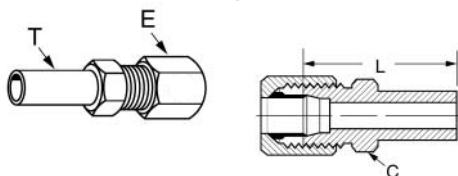
Plug-Part No. 7229x

Stainless Steel No. 7241x
(Ref. SAE No. 080109)



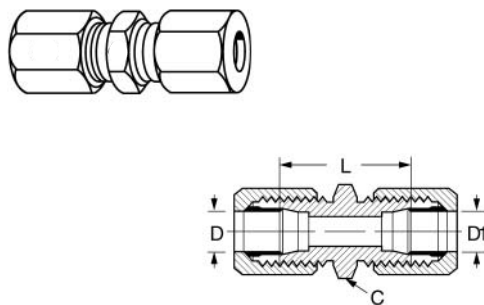
Reducer-Part No. 7015x

Stainless Steel No. 7027x
(Ref. SAE No. 080123)



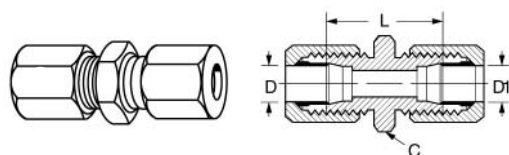
Small Hex Union-Part No. 7305x

Stainless Steel No. 7317x
(Ref. SAE No. 080101)



Large Hex Union-Part No. 7306x

Stainless Steel No. 7318x
(Ref. SAE No. 080119)



Part Tube Number	O.D.	Hex C	L
7129x4•	1/4	9/16	.70
7129x6•	3/8	1 1/16	.75
7129x8•	1/2	7/8	.84
7129x10•	5/8	1	.92
7129x12•	3/4	1 1/4	.97
7129x16•	1	1 1/2	1.05
7129x20	1 1/4	2	1.05

Part Tube Number	O.D.	Hex C	L
7229x2	1/8	7/16	.63
7229x4•	1/4	1/2	.71
7229x5	5/16	9/16	.71
7229x6•	3/8	5/8	.75
7229x8•	1/2	1 3/16	.85
7229x10	5/8	1 5/16	.97
7229x12•	3/4	1 1/8	1.10
7229x16	1	1 3/8	1.10

Part Number	Body size T	Tube Size E	Hex C	L
7015x6x4•	13/8	1/4	1/2	1.61
7015x8x4•	1/2	1/4	9/16	1.73
7015x8x6•	1/2	3/8	5/8	1.77
7015x10x8•	5/8	1/2	13/16	1.96
7015x12x6•	3/4	3/8	13/16	1.93
7015x12x8•	3/4	1/2	13/16	2.03
7015x16x12•	1	3/4	1 1/8	2.24
7015x20x16•	1 1/4	1	1 3/8	2.28

Part Number	Tube O.D.	Tube O.D.	Hex C	D	D1	I
7305x2•	1/8	1/8	7/16	.093	.093	1.02
7305x3•	3/16	3/16	7/16	.125	.125	1.11
7305x4•	1/4	1/4	1/2	.203	.203	1.18
7305x5•	5/16	5/16	9/16	.234	.234	1.18
7305x6x4•	3/8	1/4	5/8	.281	.203	1.22
7305x6•	3/8	3/8	5/8	.281	.281	1.24
7305x8x6	1/2	3/8	1 3/16	.422	.281	1.33
7305x8•	1/2	1/2	1 3/16	.422	.422	1.42
7305x10•	5/8	5/8	1 5/16	.500	.500	1.61
7305x12•	3/4	3/4	1 1/8	.656	.656	1.81
7305x14	7/8	7/8	1 1/4	.718	.718	1.81
7305x16•	1	1	1 3/8	.875	.875	1.81
7305x20	1 1/4	1 1/4	1 11/16	1.093	1.093	1.89
7305x24	1 1/2	1 1/2	2	1.344	1.344	1.96
7305x32	2	2	2 5/8	1.813	1.813	2.11

Part Number	Tube O.D.	Tube O.D.	Hex C	D	D1	I
7306x4•	1/4	1/4	1 1/16	.203	.203	1.18
7306x6•	3/8	3/8	1 3/16	.281	.281	1.24
7306x8x6•	1/2	3/8	1	.422	.281	1.33
7306x8•	1/2	1/2	1	.422	.422	1.42
7306xx12•	3/4	3/4	1 3/8	.656	.656	1.81
7306x16	1	1	1 5/8	.875	.875	1.81

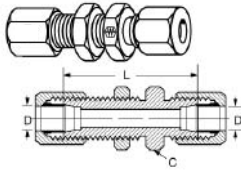
• Available in stainless steel.

All measurements are in inches.

Bulkhead Union-Part No. 7325x

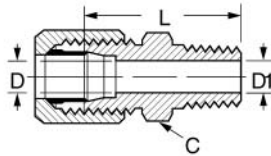
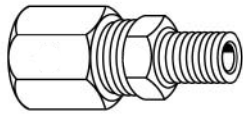
Stainless Steel No. 7337x (Ref. SAE No. 080601)

Bulkhead nut included, for replacement nuts see page 287.



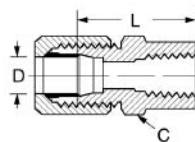
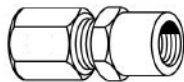
Male Connector-Part No. 7205x

Stainless Steel No. 7217x (Ref. SAE No. 080102))



Female Connector-Part No. 7255x

Stainless Steel No. 7267x (Ref. SAE No. 080103)



Part Number	Tube O.D.	Hex C	D	L
7325x4•	1/4	1 ¹ / ₁₆	.203	1.89
7325x6•	3/8	1 ³ / ₁₆	.281	1.98
7325x8•	1/2	1	.422	2.22
7325x12•	3/4	1 ³ / ₈	.656	2.72
7325x16	1	1 ⁵ / ₈	.875	2.72

Part Number	Tube O.D.	Male Pipe Thread	Hex C	D1 D	Opt.	L
7205X2•	1/8	1/8	7/16	.093	.188	1.04
7205X2X4•	1/8	1/4	9/16	.093	.281	1.25
7205X3•	3/16	1/8	7/16	.125	.188	1.09
7205X4•	1/4	1/8	1/2	.203	.188	1.12
7205X4X4•	1/4	1/4	9/16	.203	.281	1.32
7205X4X6•	1/4	3/8	3/4	.203	.406	1.33
7205X4X8•	1/4	1/2	7/8	.203	.531	1.58
7205X5•	5/16	1/8	9/16	.234	.188	1.12
7205X5X4•	5/16	1/4	9/16	.234	.281	1.32
7205X6X2•	3/8	1/8	5/8	.281	.188	1.15
7205X6•	3/8	1/4	5/8	.281	.281	1.34
7205X6X6•	3/8	3/8	3/4	.281	.406	1.35
7205X6X8•	3/8	1/2	7/8	.281	.531	1.60
7205X8X4•	1/2	1/4	1 ³ / ₁₆	.422	.281	1.44
7205X8•	1/2	3/8	1 ³ / ₁₆	.422	.406	1.44
7205X8X8•	1/2	1/2	7/8	.422	.531	1.69
7205X8X12•	1/2	3/4	1 ¹ / ₈	.422	.719	1.76
7205X10X6•	5/8	3/8	1 ⁵ / ₁₆	.500	.406	1.56
7205X10•	5/8	1/2	1 ⁵ / ₁₆	.500	.531	1.75
7205X12X8•	3/4	1/2	1 ¹ / ₈	.656	.531	1.88
7205X12•	3/4	3/4	1 ¹ / ₈	.656	.719	1.88
7205X14•	7/8	3/4	1 ¹ / ₄	.718	.719	1.88
7205X16X12•	1	3/4	1 ³ / ₈	.875	.719	1.88
7205X16•	1	1	1 ³ / ₈	.875	.938	2.07
7205X20	1 ¹ / ₄	1 ¹ / ₄	1 ¹¹ / ₁₆	1.093	1.250	2.18
7205X24	1 ¹ / ₂	1 ¹ / ₂	2	1.344	1.500	2.28
7205XX32	2	2	2 ⁵ / ₈	1.813	1.938	2.46

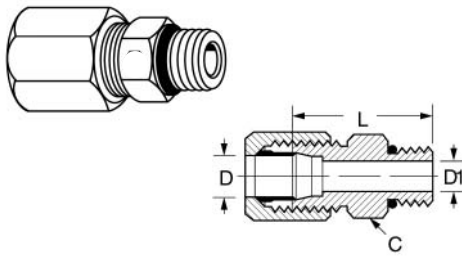
Part Number	Fern Tube O.D.	Pipe Thread	Hex C	D	L
7255x2•	1/8	1/8	9/16	.093	1.05
7255x3•	3/16	1/8	9/16	.125	1.08
7255x4•	1/4	1/8	9/16	.203	1.09
7255x4x4•	1/4	1/4	3/4	.203	1.20
7255x5•	5/16	1/8	9/16	.234	1.08
7255x6•	3/8	1/4	3/4	.281	1.31
7255x6x6•	3/8	3/8	7/8	.281	1.40
7255x8x4•	1/2	1/4	7/8	.422	1.38
7255x8•	1/2	3/8	7/8	.422	1.47
7255x8x8•	1/2	1/2	1 ¹ / ₈	.422	1.63
7255x10	5/8	1/2	1 ¹ / ₈	.500	1.76
7255x12•	3/4	3/4	1 ³ / ₈	.656	1.89
7255x14	7/8	3/4	1 ³ / ₈	.718	1.86
7255x16•	1	1	1 ⁵ / ₈	.875	2.13
7255x20	1 ¹ / ₄	1 ¹ / ₄	2	1.093	2.22

• Available in stainless steel.

All measurements are in inches.

Straight Thread O-Ring Connector-Part No. 7315x

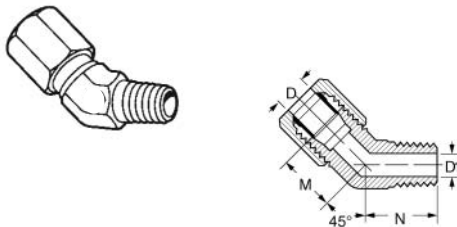
Stainless Steel No. 7327x
(Ref. SAE No. 080120)



Part Number	Tube O.D.	Port Size	Hex C	D	L	D1 Opt.
7315x3	3/16	3/16	1/2	.125	1.04	-
7315x4•	1/4	1/4	9/16	.203	1.13	-
7315x4x5•	1/4	5/16	5/8	.203	1.13	-
7315x4x6•	1/4	3/8	1 1/16	.203	1.19	.281
7315x5	5/16	5/16	5/8	.234	1.13	-
7315x6•	3/8	3/8	1 1/16	.281	1.21	-
7315x6x8	3/8	1/2	7/8	.281	1.29	.422
7315x8•	1/2	1/2	7/8	.422	1.38	-
7315x8x10	1/2	5/8	1	.422	1.51	.500
7315x8x12•	1/2	3/4	1 1/4	.422	1.67	.656
7315x10•	5/8	5/8	1	.500	1.57	-
7315x12•	3/4	3/4	1 1/4	.656	1.79	-
7315x12x16	3/4	1	1 1/2	.656	1.82	.876
7315x14	7/8	7/8	1 3/8	.718	1.79	-
7315x16x12	1	3/4	1 1/2	.875	1.82	.656
7315x16•	1	1	1 1/2	.875	1.82	-
7315x20	1 1/4	1 1/4	1 7/8	1.093	1.90	-
7315x24	1 1/2	1 1/2	2 1/8	1.344	1.97	-
7315x32	2	2	2 3/4	1.813	2.13	-

45° Male Elbow-Part No. 7355x

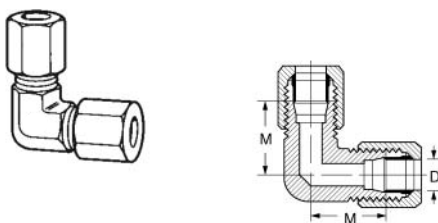
Stainless Steel No. 7367x
(Ref. SAE No. 080302)



Part Number	Tube O.D.	Male Pipe Thread	D	D1	M	N	Across Flats
7355x4•	1/4	1/8	.203	.188	.70	.64	7/16
7355x4x4•	1/4	1/4	.203	.281	.83	.86	9/16
7355x5	5/16	1/8	.234	.188	.75	.64	9/16
7355x6•	3/8	1/4	.281	.281	.83	.86	9/16
7355x8•	1/2	3/8	.422	.406	.98	.95	3/4
7355x10	5/8	1/2	.500	.531	1.08	1.17	7/8
7355x12	3/4	3/4	.656	.719	1.27	1.20	1 1/16
7355x16	1	1	.875	.938	1.36	1.48	1 5/16

90° Union Elbow-Part No. 7505x

Stainless Steel No. 7517x
(Ref. SAE No. 080201)



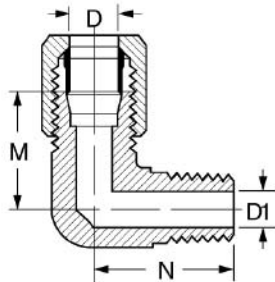
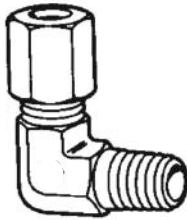
Part Number	Tube O.D.	D	M	Across Flats
7505x4•	1/4	.203	.89	7/16
7505x5	5/16	.234	.95	1/2
7505x6•	3/8	.281	1.05	9/16
7505x8•	1/2	.422	1.25	3/4
7505x10•	5/8	.500	1.42	7/8
7505x12•	3/4	.656	1.58	1 1/16
7505x14•	7/8	.718	1.66	1 5/16
7505x16•	1	.875	1.73	1 5/16
7505x20	1 1/4	1.093	1.89	1 5/8
7505x24	1 1/2	1.346	2.02	1 7/8

• Available in stainless steel.
All measurements are in inches.

SPECIALTY & TRUCK HOSE
 LOW & MEDIUM PRESSURE HOSE
 HIGH PRESSURE HOSE
 HOSE FITTINGS
 ADAPTERS & TUBE FITTINGS
 ACCESSORIES & ASSEMBLY INSTRUCTIONS
 HOSE ASSEMBLY EQUIPMENT
 APPENDICES

90° Male Elbow-Part No. 7405x

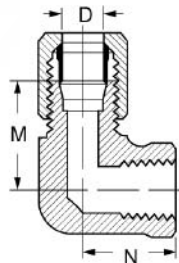
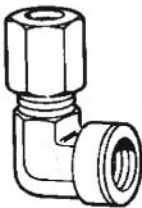
Stainless Steel No. 7417x
(Ref. SAE No. 080202)



Part Number	Tube O.D.	Male Pipe Thread	D	D1	M	N	Across Flats
7405x2•	1/8	1/8	.093	.188	.77	.72	7/16
7405x3	3/16	1/8	.125	.188	.83	.72	7/16
7405x4•	1/4	1/8	.203	.188	.89	.78	7/16
7405x4x4•	1/4	1/4	.203	.281	1.03	1.09	9/16
7405x5•	5/16	1/8	.234	.188	.95	.81	1/2
7405x5x4•	5/16	1/4	.234	.281	1.03	1.09	9/16
7405x6x2•	3/8	1/8	.281	.188	1.05	.90	9/16
7405x6•	3/8	1/4	.281	.281	1.05	1.09	9/16
7405x6x6•	3/8	3/8	.281	.406	1.16	1.22	3/4
7405x6x8•	3/8	1/2	.281	.531	1.24	1.47	7/8
7405x8x4•	1/2	1/4	.422	.281	1.25	1.22	3/4
7405x8•	1/2	3/8	.422	.406	1.25	1.22	3/4
7405x8x8•	1/2	1/2	.422	.531	1.35	1.47	7/8
7405x10x6•	5/8	3/8	.500	.406	1.42	1.28	7/8
7405x10•	5/8	1/2	.500	.531	1.42	1.47	7/8
7405x12x8	3/4	1/2	.656	.531	1.58	1.59	1 1/16
7405x12•	3/4	3/4	.656	.719	1.58	1.59	1 1/16
7405x14	7/8	3/4	.718	.719	1.62	1.69	1 5/16
7405x16x12	1	3/4	.875	.719	1.73	1.78	1 5/16
7405x16•	1	1	.875	.938	1.73	1.97	1 5/16
7405x20	1 1/4	1 1/4	1.093	1.250	1.89	2.38	1 5/8
7405x24	1 1/2	1 1/2	1.344	1.500	2.02	2.64	1 7/8
7405x32	2	2	1.813	1.938	2.45	3.00	2 9/16

90° Female Elbow-Part No. 7455x

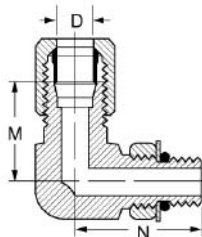
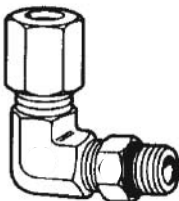
Stainless Steel No. 7467x
(Ref. SAE No. 080203)



Part Number	Tube O.D.	Fem. Pipe Thread	D	M	N	Across Flats
7455x4•	1/4	1/8	.203	.89	.66	9/16
7455x4x4•	1/4	1/4	.203	1.03	.88	3/4
7455x6•	3/8	1/4	.281	1.05	.88	3/4
7455x6x6•	3/8	3/8	.281	1.14	1.02	7/8
7455x8•	1/2	3/8	.422	1.23	1.02	7/8
7455x8x8•	1/2	1/2	.422	1.35	1.23	1 1/16
7455x10•	5/8	1/2	.500	1.42	1.23	1 1/16
7455x12•	3/4	3/4	.656	1.58	1.36	1 5/16
7455x14	7/8	3/4	.718	1.66	1.42	1 5/16
7455x16	1	1	.875	1.73	1.62	1 5/8

90° Elbow - Straight Thread O-Ring-Part No. 7515x

Stainless Steel No. 7527x
(Ref. SAE No. 080220)



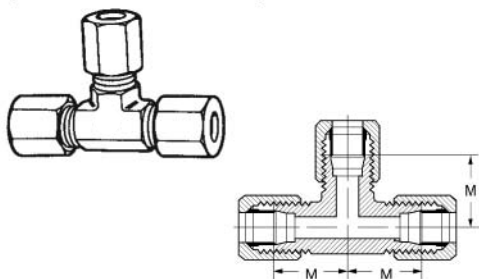
Part Number	Tube O.D.	Port Size	D	M	N	Across Flats
7515x4•	1/4	1/4	.203	.89	1.03	7/16
7515x5	5/16	5/16	.234	.96	1.13	9/16
7515x6•	3/8	3/8	.281	1.05	1.25	9/16
7515x8•	1/2	1/2	.422	1.25	1.45	3/4
7515x10•	5/8	5/8	.500	1.42	1.70	7/8
7515x12•	3/4	3/4	.656	1.58	1.94	1 1/16
7515x16x12	1	3/4	.875	1.73	2.05	1 5/16
7515x16•	1	1	.875	1.73	2.05	1 5/16
7515x20	1 1/4	1 1/4	1.093	1.89	2.25	1 5/8

• Available in stainless steel.

All measurements are in inches.

Union Tee-Part No. 7717x

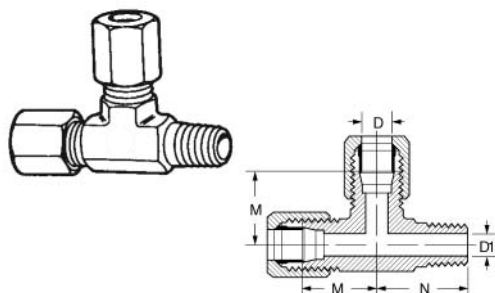
Stainless Steel No. 7717x
(Ref. SAE No. 080401)



Part Number	Tube O.D.	D	M	Across Flats
7705x3	3/16	.125	.83	7/16
7705x4•	1/4	.203	.89	7/16
7705x5•	5/16	.234	.95	9/16
7705x6•	3/8	.281	1.05	9/16
7705x8•	1/2	.422	1.25	3/4
7705x10•	5/8	.500	1.42	7/8
7705x12•	3/4	.656	1.58	1 1/16
7705x14	7/8	.718	1.62	1 5/16
7705x16•	1	.875	1.73	1 5/16

Male Run Tee-Part No. 7755x

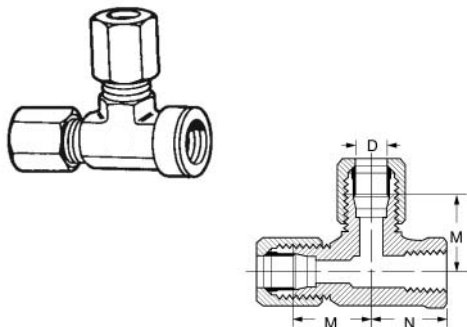
Stainless Steel No. 7767x
(Ref. SAE No. 080424)



Part Number	Tube O.D.	Male Pipe Thread	D	D1	M	N	Across Flats
7755x4•	1/4	1/8	.203	.188	.89	.78	7/16
7755x4x4x4•	1/4	1/4	.203	.281	1.03	1.09	9/16
7755x6•	3/8	1/4	.281	.281	1.05	1.09	9/16
7755x8	1/2	3/8	.422	.422	1.25	1.22	3/4
7755x8x8x8•	1/2	1/2	.422	.531	1.35	1.47	7/8
7755x10	5/8	1/2	.500	.531	1.42	1.47	7/8
7755x12	3/4	3/4	.656	.719	1.58	1.59	1 1/16
7755x16	1	1	.875	.938	1.73	1.97	1 5/16

Female Run Tee-Part No. 7805x

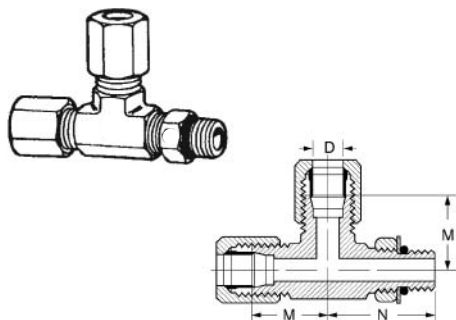
(Ref. SAE No. 080426)



Part Number	Tube O.D.	Fem. Pipe Thread	D	M	N	Across Flats
7805x4	1/4	1/8	.203	.89	.66	9/16
7805x4x4x4	1/4	1/4	.203	1.03	.88	3/4
7805x6	3/8	1/4	.281	1.05	.88	3/4
7805x8	1/2	3/8	.422	1.23	1.02	7/8
7805x10	5/8	1/2	.500	1.42	1.23	1 1/16
7805x12	3/4	3/4	.656	1.58	1.36	1 5/16

Straight Thread O-Ring Run Tee-Part No. 7716x

Stainless Steel No. 7728x
(Ref. SAE No. 080428)

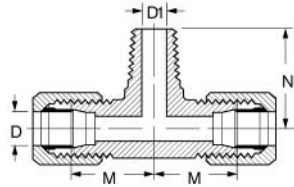
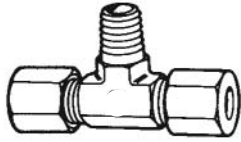


Part Number	Tube O.D.	Port Size	D	M	N	Across Flats
7716x4•	1/4	1/4	.203	.89	1.03	7/16
7716x6•	3/8	3/8	.281	1.05	1.25	9/16
7716x8•	1/2	1/2	.422	1.25	1.45	3/4

• Available in stainless steel.
All measurements are in inches.

Male Branch Tee-Part No. 7605x

Stainless Steel No. 7617x
(Ref. SAE No. 080425)



Part Number	Tube O.D.	Male Pipe Thread	D	D1	M	N	Across Flats
7605x4•	1/4	1/8	.203	.188	.89	.78	7/16
7605x4x4x4•	1/4	1/4	.203	.281	1.03	1.09	9/16
7605x5	5/16	1/8	.234	.188	.95	.81	9/16
7605x6•	3/8	1/4	.281	.281	1.05	1.09	9/16
7605x8•	1/2	3/8	.422	.406	1.25	1.22	3/4
7605x8x8x8•	1/2	1/2	.422	.531	1.35	1.47	7/8
7605x10	5/8	1/2	.500	.531	1.42	1.47	7/8
7605x12	3/4	3/4	.656	.719	1.58	1.59	1 1/16
7605x16	1	1	.875	.938	1.73	1.97	1 5/16

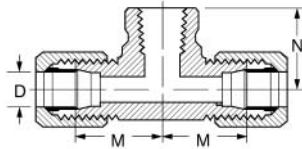
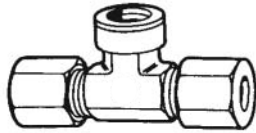
SPECIALTY & TRUCK HOSE

LOW & MEDIUM PRESSURE HOSE

HIGH PRESSURE HOSE

Female Branch Tee-Part No. 7655x

Stainless Steel No. 7667x
(Ref. SAE No. 080427)



Part Number	Tube O.D.	Fem. Pipe Thread	D	M	N	Across Flats
7655x4•	1/4	1/8	.203	.89	.66	9/16
7655x4x4x4•	1/4	1/4	.203	1.03	.88	3/4
7655x6•	3/8	1/4	.281	1.05	.88	3/4
7655x8•	1/2	3/8	.422	1.23	1.02	7/8
7655x10	5/8	1/2	.500	1.42	1.23	1 1/16
7655x12	3/4	3/4	.656	1.58	1.36	1 5/16
7655x14	7/8	3/4	.718	1.62	1.42	1 5/16
7655x16	1	1	.875	1.73	1.62	1 5/8
7655x20	1 1/4	1 1/4	1.093	2.08	1.70	1 7/8

• Available in stainless steel.

All measurements are in inches.

HOSE FITTINGS

ADAPTERS & TUBE FITTINGS

ACCESSORIES & ASSEMBLY INSTRUCTIONS

HOSE ASSEMBLY EQUIPMENT

APPENDICES