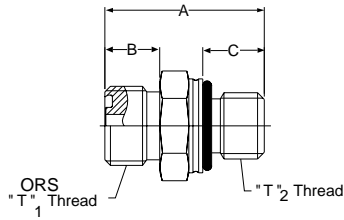
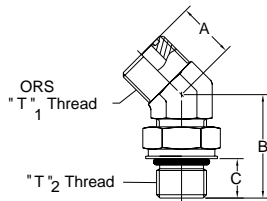


ORS TO ISO 6149



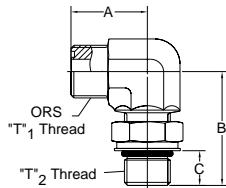
ORS/Male ISO 6149 Boss (S-Series)  
Part No. FF2742T(Size)  
(Ref. SAE 52M0187)

Dash Size	Tube O.D.	Thread T1 (inches)	Thread T2 (mm)	A	B	C
0410S	.25	9/16-18	M10 x 1	1.10	.39	.37
0412S	.25	9/16-18	M12 x 1.5	1.12	.39	.43
0612S	.38	11/16-16	M12 x 1.5	1.26	.44	.43
0614S	.38	11/16-16	M14 x 1.5	1.26	.44	.43
0616S	.38	9/16-18	M16 x 1.5	1.32	.44	.49
0818S	.50	13/16-16	M18 x 1.5	1.50	.50	.55
0822S	.50	13/16-16	M22 x 1.5	1.55	.50	.59
1022S	.63	1-14	M22 x 1.5	1.65	.61	.59
1222S	.75	1 1/8-12	M22 x 1.5	1.71	.67	.59
1227S	.75	1 1/8-12	M27 x 2	1.91	.67	.73
1633S	1.00	1 1/8-12	M33 x 2	2.05	.69	.75
2042S	1.25	1 1/8-12	M42 x 2	2.15	.69	.55
2448S	1.50	1 3/8-16	M48 x 2	2.24	.59	.85



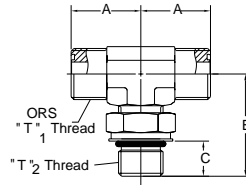
45° ORS/ISO 6149 Boss (S-Series)  
Part No. FF2743T(Size)  
(Ref. SAE 52M0287)

Dash Size	Tube O.D.	Thread T1 (inches)	Thread T2 (mm)	A	B	C
0818S	.50	13/16-16	M18 x 1.5	.80	1.46	.56
1022S	.63	1-14	M22 x 1.5	.92	1.73	.58
1227S	.75	1 1/8-12	M27 x 2	1.02	1.99	.72



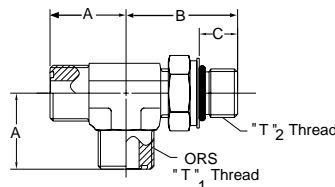
90° ORS/ISO 6149 Boss (S-Series)  
Part No. FF2744T(Size)  
(Ref. SAE 52M0287)

Dash Size	Tube O.D.	Thread T1 (inches)	Thread T2 (mm)	A	B	C
0818S	.50	13/16-16	M18 x 1.5	1.17	1.74	.56
1022S	.63	1-14	M22 x 1.5	1.31	1.93	.58
1227S	.75	1 1/8-12	M27 x 2	1.47	2.19	.72



ORS/ISO 6149 Boss (S-Series) Branch Tee  
Part No. FF2745T(Size)  
(Ref. SAE 52M0489)

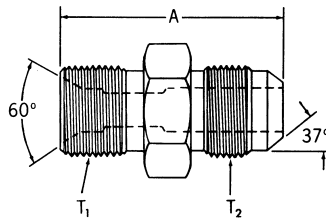
Dash Size	Tube O.D.	Thread T1 (inches)	Thread T2 (mm)	A	B	C
0818S	.50	13/16-16	M18 x 1.5	1.10	1.61	.56
1022S	.63	1-14	M22 x 1.5	1.31	1.93	.58
1227S	.75	1 1/8-12	M27 x 2	1.47	2.19	.72



ORS/ISO 6149 Boss (S-Series) Run Tee  
Part No. FF2746T(Size)  
(Ref. SAE 52M0488)

Dash Size	Tube O.D.	Thread T1 (inches)	Thread T2 (mm)	A	B	C
0818S	.50	13/16-16	M18 x 1.5	1.10	1.61	.56
1022S	.63	1-14	M22 x 1.5	1.31	1.93	.58
1227S	.75	1 1/8-12	M27 x 2	1.47	2.19	.72

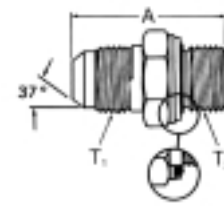
BSPB TO 37° FLARE



BSPB (parallel)/37° flare  
Part No. 2063-(Dash size)

Dash Size	Tube O.D. (inches)	Thread T1 (inches)	Thread T2 (inches)	A (inches)
2-4S	.25	1/8-28	7/16-20	1.38
4-4S	.25	1/4-19	7/16-20	1.38
4-5S	.31	1/2-19	1/2-20	1.38
4-6S	.38	3/4-19	9/16-18	1.38
6-6S	.38	3/8-19	9/16-18	1.43
6-8S	.50	3/8-19	3/4-16	1.53
8-8S	.50	1/2-14	3/4-16	1.63
8-10S	.63	1/2-14	7/8-14	1.73
10-12S	.75	5/8-14	1 1/16-12	1.94
12-10S	.63	3/4-14	7/8-14	1.88
12-12S	.75	3/4-14	1 1/16-12	1.99
16-16S	1.00	1-11	1 5/16-12	2.09

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



SAE 37° male/BSPP male  
GG106-NP(Size)-(Size)

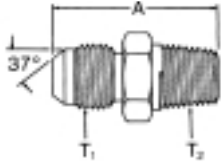
Dash Size	Tube O.D. (inches)	Thread T1 (inches)	Thread T2 (inches)	A (inches)
04-02	.25	7/16-20	G 1/8-28	1.14
04-04	.25	7/16-20	G 1/4-19	1.36
04-06	.25	7/16-20	G 3/8-19	1.36
04-08	.25	7/16-20	G 1/2-14	1.50
06-04	.38	9/16-18	G 1/4-19	1.36
06-06	.38	9/16-18	G 3/8-19	1.36
06-08	.38	9/16-18	G 1/2-14	1.50
08-04	.50	3/4-16	G 1/4-19	1.48
08-06	.50	3/4-16	G 3/8-19	1.48
08-08	.50	3/4-16	G 1/2-14	1.61
08-12	.50	3/4-16	G 3/4-14	1.77
10-06	.63	7/8-14	G 3/8-19	1.59
10-08	.63	7/8-14	G 1/2-14	1.71
12-08	.75	1 1/16-12	G 1/2-14	1.85
12-12	.75	1 1/16-12	G 3/4-14	1.97
12-16	.75	1 1/16-12	G 1-11	2.07
16-12	1.00	1 5/16-12	G 3/4-14	2.01
16-16	1.00	1 5/16-12	G 1-11	2.11
16-20	1.00	1 5/16-12	G 1 1/4-11	2.24
20-20	1.25	1 5/8-12	G 1 1/4-11	2.30

90° adjustable elbow SAE 37° male/BSPP male  
GG306-NP(Size)-(Size)

Dash Size	Tube O.D. (inches)	Thread T1 (inches)	Thread T2 (inches)	A (inches)	B (inches)
04-02	.25	7/16-20	G 1/8-28	.89	1.04
04-04	.25	7/16-20	G 1/4-19	1.06	1.24
05-04	.31	1/2-20	G 1/4-19	1.06	1.24
06-04	.38	9/16-18	G 1/4-19	1.06	1.24
06-06	.38	9/16-18	G 3/8-19	1.12	1.44
06-08	.38	9/16-18	G 1/2-14	1.22	1.69
08-06	.50	3/4-16	G 3/8-19	1.24	1.44
08-08	.50	3/4-16	G 1/2-14	1.34	1.69
10-08	.63	7/8-14	G 1/2-14	1.44	1.69
12-12	.75	1 1/16-12	G 3/4-14	1.65	1.93
16-16	1.00	1 5/16-12	G 1-11	1.81	2.07
20-20	1.25	1 5/8-12	G 1 1/4-11	2.05	2.24

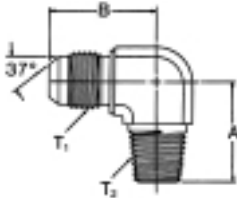
All dimensions in inches.

BSPT TO 37° FLARE



SAE 37° male/BSPT male  
GG110-NP(Size)-(Size)

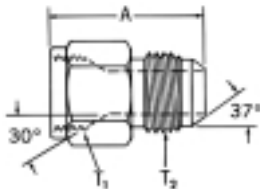
Dash Size	Tube O.D. (inches)	Thread T <sub>1</sub> (inches)	Thread T <sub>2</sub> (inches)	A (inches)
04-02	.25	7/16-20	R1/8-28	1.14
04-04	.25	7/16-20	R1/4-19	1.30
06-04	.38	9/16-18	R1/4-19	1.32
06-06	.38	9/16-18	R3/8-19	1.32
08-06	.50	3/4-16	R3/8-19	1.44
08-08	.50	3/4-16	R1/2-14	1.59
10-08	.63	7/8-14	R1/2-14	1.69
12-08	.75	1 1/16-12	R1/2-14	1.87
12-12	.75	1 1/16-12	R3/4-14	1.95
12-16	.75	1 1/16-12	R1-11	2.03
16-12	1.00	1 5/16-12	R3/4-14	1.99
16-16	1.00	1 5/16-12	R1-11	2.07



90° elbow, SAE 37° male/BSPT male  
GG310-NP(Size)-(Size)

Dash Size	Tube O.D. (inches)	Thread T <sub>1</sub> (inches)	Thread T <sub>2</sub> (inches)	A (inches)	B (inches)
04-02	.25	7/16-20	R1/8-28	.81	.92
04-04	.25	7/16-20	R1/4-19	1.08	1.06
06-04	.38	9/16-18	R1/4-19	1.08	1.06
06-06	.38	9/16-18	R3/8-19	1.22	1.12
06-08	.38	9/16-18	R1/2-14	1.46	1.22
08-06	.50	3/4-16	R3/8-19	1.22	1.24
08-08	.50	3/4-16	R1/2-14	1.46	1.34
12-12	.75	1 1/16-12	R3/4-14	1.59	1.65
16-16	1.00	1 5/16-12	R1-11	1.97	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. (inches)	Thread T <sub>1</sub> (inches)	Thread T <sub>2</sub> (inches)	A (inches)
0404S	.25	G1/4-19	7/16-20	1.19
0606S	.38	G3/8-19	9/16-18	1.21
0808S	.50	G1/2-14	3/4-16	1.41
1212S	.75	G3/4-14	1 1/16-12	1.70

All dimensions in inches.