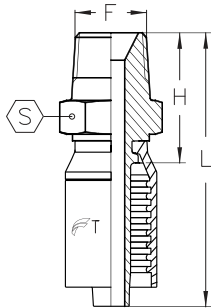




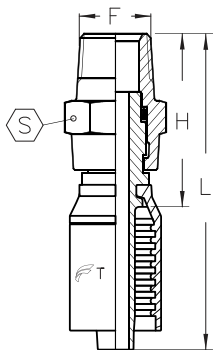
MP NPT Male



Part Number		F	H		L			
	in		mm	in	mm	mm	in	
T02-02MP	1/8	1/8 - 27	21.0	0.83	36.0	1.42	12	1/2
T03-02MP	3/16	1/8 - 27	20.6	0.81	45.6	1.79	12	1/2
T03-04MP	3/16	1/4 - 18	26.5	1.04	51.5	2.03	14	9/16
T04-02MP	1/4	1/8 - 27	21.1	0.83	49.1	1.93	12	1/2
T04-04MP	1/4	1/4 - 18	27.0	1.06	55.0	2.16	14	9/16
T04-06MP	1/4	3/8 - 18	28.6	1.12	56.6	2.23	19	3/4
T04-08MP	1/4	1/2 - 14	34.0	1.34	62.0	2.44	22	7/8
T05-04MP	5/16	1/4 - 18	27.0	1.06	55.0	2.16	14	9/16
T05-06MP	5/16	3/8 - 18	28.6	1.12	56.6	2.23	19	3/4
T06-04MP	3/8	1/4 - 18	27.5	1.08	58.0	2.28	16	5/8
T06-06MP	3/8	3/8 - 18	28.6	1.12	59.1	2.33	19	3/4
T06-08MP	3/8	1/2 - 14	34.0	1.34	64.5	2.54	22	7/8
T08-04MP	1/2	1/4 - 18	30.5	1.20	63.2	2.49	22	7/8
T08-06MP	1/2	3/8 - 18	30.6	1.20	63.6	2.50	22	7/8
T08-08MP	1/2	1/2 - 14	35.0	1.38	68.0	2.68	22	7/8
T08-12MP	1/2	3/4 - 14	36.9	1.45	69.9	2.75	27	1 1/16
T10-08MP	5/8	1/2 - 14	36.2	1.42	72.0	2.83	25	1
T10-12MP	5/8	3/4 - 14	37.1	1.46	72.9	2.87	27	1 1/16
T12-08MP	3/4	1/2 - 14	37.5	1.48	78.0	3.07	27	1 1/16
T12-12MP	3/4	3/4 - 14	37.9	1.49	78.4	3.09	27	1 1/16
T12-16MP	3/4	1 - 11 1/2	45.5	1.79	86.0	3.38	35	1 7/16
T16-12MP	1	3/4 - 14	40.4	1.59	91.4	3.60	32	1 1/4
T16-16MP	1	1 - 11 1/2	47.0	1.85	98.0	3.86	35	1 7/16

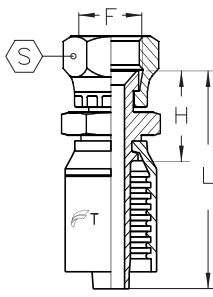
BECAUSE WE CONTINUALLY EXAMINE WAYS TO IMPROVE OUR PRODUCTS, WE RESERVE THE RIGHT TO ALTER SPECIFICATIONS WITHOUT NOTICE.

MPX NPT Male Swivel



Part Number		F	H		L			
	in		mm	in	mm	in	mm	in
T02-02MPX	1/8	1/8 - 27	33.0	1.30	48.0	1.89	13	1/2
T04-04MPX	1/4	1/4 - 18	41.0	1.61	69.0	2.72	17	11/16
T04-06MPX	1/4	3/8 - 18	46.0	1.81	74.0	2.91	22	7/8
T06-04MPX	3/8	1/4 - 18	41.0	1.61	72.0	2.83	17	11/16
T06-06MPX	3/8	3/8 - 18	45.0	1.77	75.0	2.95	22	7/8
T06-08MPX	3/8	1/2 - 14	57.0	2.24	88.0	3.46	27	11/16
T08-06MPX	1/2	3/8 - 18	46.0	1.81	79.0	3.11	22	7/8
T08-08MPX	1/2	1/2 - 14	56.0	2.20	89.0	3.50	27	11/16
T12-12MPX	3/4	3/4 - 14	61.0	2.40	101.0	3.98	34	13/8
T16-16MPX	1	1 - 11 1/2	65.0	2.56	116.0	4.57	38	1 1/2

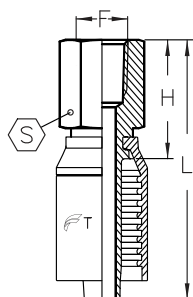
FPX NPSM Female Swivel (60° Cone Seat)





Part Number		F	H		L			
	in		mm	in	mm	in	mm	in
T04-04FPX	1/4	1/4 - 18	19.0	0.75	47.0	1.85	17	11/16
T06-06FPX	3/8	3/8 - 18	21.0	0.83	51.0	2.00	22	7/8
T08-08FPX	1/2	1/2 - 14	23.0	0.90	56.0	2.20	25	1
T12-12FPX	3/4	3/4 - 14	27.0	1.06	67.0	2.64	32	1 1/4
T16-16FPX	1	1 - 11 1/2	30.0	1.18	81.0	3.19	38	1 1/2

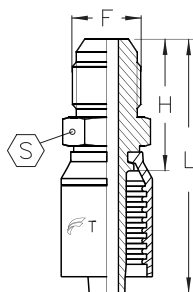
BECAUSE WE CONTINUALLY EXAMINE WAYS TO IMPROVE OUR PRODUCTS, WE RESERVE THE RIGHT TO ALTER SPECIFICATIONS WITHOUT NOTICE.



FP NPT Female Rigid



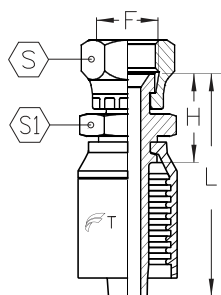
Part Number		F	H		L			
	in		mm	in	mm	in	mm	in
T04-02FP	1/4	1/8 - 27	21.5	0.85	49.5	1.95	16	5/8
T04-04FP	1/4	1/4 - 18	27.1	1.07	55.1	2.17	19	3/4
T04-06FP	1/4	3/8 - 18	28.4	1.12	56.4	2.22	22	7/8
T06-04FP	3/8	1/4 - 18	27.1	1.07	57.6	2.27	19	3/4
T06-06FP	3/8	3/8 - 18	28.4	1.12	58.9	2.32	22	7/8
T06-08FP	3/8	1/2 - 14	34.5	1.36	65.0	2.56	29	1 3/16
T08-08FP	1/2	1/2 - 14	35.5	1.40	68.5	2.70	29	1 3/16
T12-12FP	3/4	3/4 - 14	38.0	1.50	78.5	3.09	32	1 1/4

MJ JIC 37° Male



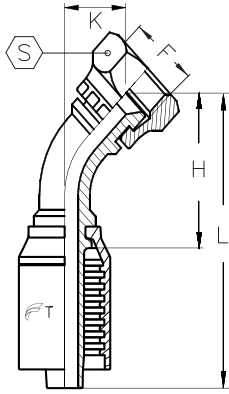
Part Number		F	H		L			
	in		mm	in	mm	in	mm	in
T03-04MJ	3/16	7/16 - 20	25.0	0.98	50.0	1.97	12	1/2
T04-04MJ	1/4	7/16 - 20	25.5	1.00	53.5	2.11	12	1/2
T04-05MJ	1/4	1/2 - 20	25.5	1.00	53.5	2.11	14	9/16
T04-06MJ	1/4	9/16 - 18	26.6	1.05	54.6	2.15	15	5/8
T05-05MJ	5/16	1/2 - 20	25.5	1.00	53.5	2.11	14	9/16
T05-06MJ	5/16	9/16 - 18	26.6	1.05	54.6	2.15	15	5/8
T06-06MJ	3/8	9/16 - 18	26.6	1.05	57.1	2.25	15	5/8
T06-08MJ	3/8	3/4 - 16	29.7	1.17	60.2	2.37	19	3/4
T08-08MJ	1/2	3/4 - 16	30.7	1.21	63.7	2.51	19	3/4
T08-10MJ	1/2	7/8 - 14	35.3	1.39	68.3	2.69	24	1
T08-12MJ	1/2	1 1/16 - 12	38.9	1.53	71.9	2.83	27	1 1/16
T10-10MJ	5/8	7/8 - 14	35.5	1.40	71.3	2.81	24	1
T10-12MJ	5/8	1 1/16 - 12	39.1	1.54	74.9	2.95	27	1 1/16
T12-12MJ	3/4	1 1/16 - 12	39.9	1.57	80.4	3.16	27	1 1/16
T16-16MJ	1	1 5/16 - 12	43.6	1.72	94.6	3.72	34	1 3/8



FJ JIC 37° Female Swivel



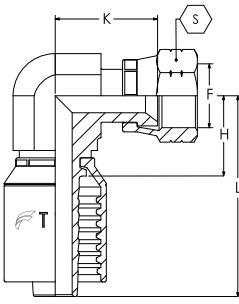
Part Number		F	H		L					
	in		mm	in	mm	in	mm	in	mm	in
T02-04FJ	1/8	7/16 - 20	20.0	0.79	35.0	1.38	14	9/16	12	1/2
T03-04FJ	3/16	7/16 - 20	19.0	0.75	44.0	1.73	14	9/16	12	1/2
T04-04FJ	1/4	7/16 - 20	20.5	0.81	48.5	1.91	14	9/16	14	9/16
T04-05FJ	1/4	1/2 - 20	21.0	0.83	49.0	1.93	17	11/16	14	9/16
T04-06FJ	1/4	9/16 - 18	22.0	0.87	50.0	1.97	19	3/4	14	9/16
T05-05FJ	5/16	1/2 - 20	21.0	0.83	49.0	1.93	17	11/16	14	9/16
T05-06FJ	5/16	9/16 - 18	22.5	0.88	50.5	1.99	19	3/4	16	5/8
T06-04FJ	3/8	7/16 - 20	21.0	0.83	51.5	2.03	14	9/16	16	5/8
T06-05FJ	3/8	1/2 - 20	21.5	0.85	52.0	2.05	17	11/16	16	5/8
T06-06FJ	3/8	9/16 - 18	22.5	0.88	53.0	2.09	19	3/4	16	5/8
T06-06FJ-01	3/8	9/16 - 18	22.5	0.88	53.0	2.09	17.5	11/16	16	5/8
T06-08FJ	3/8	3/4 - 16	24.5	0.96	55.0	2.16	22	7/8	19	3/4
T06-10FJ	3/8	7/8 - 14	36.5	1.44	57.0	2.24	27	11/16	22	7/8
T08-06FJ	1/2	9/16 - 18	24.5	0.96	57.5	2.26	19	3/4	19	3/4
T08-08FJ	1/2	3/4 - 16	25.5	1.00	58.5	2.30	22	7/8	19	3/4
T08-10FJ	1/2	7/8 - 14	27.5	1.08	60.5	2.38	27	11/16	22	7/8
T08-12FJ	1/2	1 1/16 - 12	30.3	1.19	63.3	2.49	32	1 1/4	25	1
T10-08FJ	5/8	3/4 - 16	26.7	1.05	62.5	2.46	22	7/8	22	7/8
T10-10FJ	5/8	7/8 - 14	27.7	1.09	63.5	2.50	27	11/16	22	7/8
T10-12FJ	1 1/16	1 1/16 - 12	30.5	1.20	66.3	2.61	32	1 1/4	25	1
T12-10FJ	3/4	7/8 - 14	30.0	1.18	70.5	2.77	27	11/16	27	1 1/16
T12-12FJ	3/4	1 1/16 - 12	31.8	1.25	72.3	2.85	32	1 1/4	27	1 1/16
T12-14FJ	3/4	1 3/16 - 12	34.5	1.36	75.0	2.95	36	1 7/16	30	1 3/16
T12-16FJ	3/4	1 5/16 - 12	35.5	1.40	76.0	2.99	38	1 1/2	32	1 1/4
T16-16FJ	1	1 5/16 - 12	37.0	1.46	88.0	3.46	38	1 1/2	32	1 1/4



FJ45 JIC 37° Female Swivel - 45° Elbow



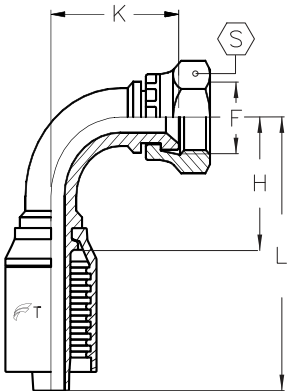
Part Number		F	H		L		K			
	in		mm	in	mm	in	mm	in	mm	in
T03-04FJ45	3/16	7/16 - 20	29.0	1.14	54.0	2.12	10.0	0.39	14	9/16
T04-04FJ45	1/4	7/16 - 20	31.0	1.22	59.0	2.32	10.0	0.39	14	9/16
T04-05FJ45	1/4	1/2 - 20	32.0	1.26	60.0	2.36	11.0	0.43	17	11/16
T04-06FJ45	1/4	9/16 - 18	33.0	1.30	61.0	2.40	12.0	0.47	19	3/4
T05-05FJ45	5/16	1/2 - 20	33.0	1.30	61.0	2.40	11.0	0.43	17	11/16
T05-06FJ45	5/16	9/16 - 18	34.0	1.34	62.0	2.44	12.0	0.47	19	3/4
T06-06FJ45	3/8	9/16 - 18	35.5	1.40	66.0	2.60	12.0	0.47	19	3/4
T06-08FJ45	3/8	3/4 - 16	37.5	1.48	68.0	2.68	14.0	0.55	22	7/8
T08-08FJ45	1/2	3/4 - 16	41.0	1.61	74.0	2.91	14.5	0.57	22	7/8
T08-10FJ45	1/2	7/8 - 14	43.0	1.69	76.0	2.99	16.0	0.63	27	11/16
T08-12FJ45	1/2	11/16 - 12	45.5	1.79	78.5	3.09	19.0	0.75	32	11/4
T10-10FJ45	5/8	7/8 - 14	47.0	1.85	83.0	3.27	16.0	0.63	27	11/16
T10-12FJ45	5/8	11/16 - 12	50.0	1.97	86.0	3.38	19.0	0.75	32	11/4
T12-12FJ45	3/4	11/16 - 12	57.0	2.24	97.0	3.82	20.0	0.79	32	11/4
T16-16FJ45	1	15/16 - 12	72.0	2.83	123.0	4.84	24.0	0.94	38	11/2



FJ90B JIC 37° Female Swivel - 90° Block Elbow



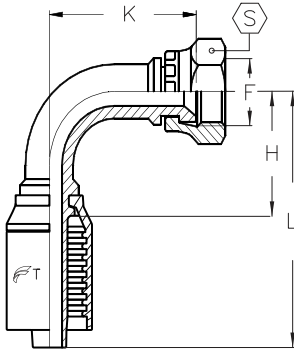
Part Number		F	H		L		K			
	in		mm	in	mm	in	mm	in	mm	in
T04-04FJ90B	1/4	1/4 - 19	18	0.71	46	1.81	23	0.91	19	3/4
T06-06FJ90B	3/8	3/8 - 19	21	0.83	52	2.05	26	1.02	22	7/8
T08-08FJ90B	1/2	1/2 - 14	24	0.94	57	2.24	28	1.10	27	1 1/16



FJ90S JIC 37° Female Swivel - 90° Elbow Short Drop



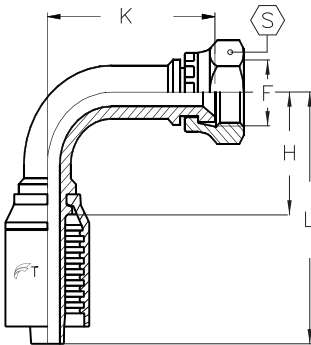
Part Number		F	H		L		K			
	in		mm	in	mm	in	mm	in	mm	in
T02-04FJ90S	1/8	7/16 - 20	28.0	1.10	43.0	1.69	22.2	0.87	14	9/16
T03-04FJ90S	3/16	7/16 - 20	21.0	0.83	46.0	1.81	18	0.71	14	9/16
T04-04FJ90S	1/4	7/16 - 20	25.5	1.00	53.5	2.11	20	0.79	14	9/16
T04-05FJ90S	1/4	1/2 - 20	25.5	1.00	53.5	2.11	21	0.83	17	11/16
T04-06FJ90S	1/4	9/16 - 18	25.5	1.00	53.5	2.11	23	0.90	19	3/4
T06-06FJ90S	3/8	9/16 - 18	30.0	1.18	60.5	2.38	23	0.90	19	3/4
T06-08FJ90S	3/8	3/4 - 16	31.0	1.22	61.5	2.42	29	1.14	22	7/8
T08-08FJ90S	1/2	3/4 - 16	37.0	1.46	70.0	2.75	29	1.14	22	7/8
T08-10FJ90S	1/2	7/8 - 14	38.0	1.50	71.0	2.79	33	1.30	27	1 1/16
T08-12FJ90S	1/2	1 1/16 - 12	40.0	1.57	73.0	2.87	40	1.57	32	1 1/4
T10-10FJ90S	5/8	7/8 - 14	43.0	1.69	79.0	3.11	32	1.26	27	1 1/16
T10-12FJ90S	5/8	1 1/16 - 12	45.0	1.77	81.0	3.19	40	1.57	32	1 1/4
T12-12FJ90S	3/4	1 1/16 - 12	55.0	2.16	95.0	3.74	43	1.69	32	1 1/4
T16-16FJ90S	1	1 5/16 - 12	71.0	2.79	122.0	4.80	56	2.20	38	1 1/2



FJ90M JIC 37° Female Swivel - 90° Elbow Medium Drop



Part Number		F	H		L		K			
	in		mm	in	mm	in	mm	in	mm	in
T03-04FJ90M	3/16	7/16 - 20	21.0	0.83	46.0	1.81	21.0	0.83	14	9/16
T04-04FJ90M	1/4	7/16 - 20	25.5	1.00	53.5	2.11	26.0	1.02	14	9/16
T04-05FJ90M	1/4	1/2 - 20	25.5	1.00	53.5	2.11	26.0	1.02	17	11/16
T04-06FJ90M	1/4	9/16 - 18	25.5	1.00	53.5	2.11	27.0	1.06	19	3/4
T05-05FJ90M	5/16	1/2 - 20	28.0	1.10	56.0	2.20	29.0	1.14	17	11/16
T05-06FJ90M	5/16	9/16 - 18	28.0	1.10	56.0	2.20	29.0	1.14	19	3/4
T06-06FJ90M	3/8	9/16 - 18	31.0	1.22	61.5	2.42	33.0	1.30	19	3/4
T06-08FJ90M	3/8	3/4 - 16	31.0	1.22	61.5	2.42	33.0	1.30	22	7/8
T08-08FJ90M	1/2	3/4 - 16	37.0	1.46	70.0	2.75	39.0	1.53	22	7/8
T08-12FJ90M	1/2	1 1/16 - 12	37.0	1.46	70.0	2.76	45.0	1.97	32	1 1/4
T08-10FJ90M	1/2	7/8 - 14	37.0	1.46	70.0	2.75	40.0	1.57	27	1 1/16
T10-10FJ90M	5/8	7/8 - 14	45.0	1.77	81.0	3.19	45.0	1.77	27	1 1/16
T10-12FJ90M	5/8	1 1/16 - 12	45.0	1.77	81.0	3.19	47.0	1.85	32	1 1/4
T12-12FJ90M	3/4	1 1/16 - 12	55.0	2.16	95.0	3.74	53.0	2.09	32	1 1/4
T12-16FJ90M	3/4	1 5/16 - 12	55.0	2.16	95.0	3.74	56.0	2.20	38	1 1/2
T16-16FJ90M	1	1 5/16 - 12	71.0	2.79	122.0	4.80	70.0	2.75	38	1 1/2

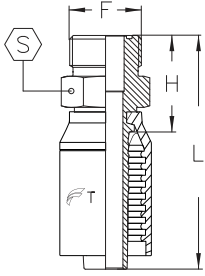
FJ90L JIC 37° Female Swivel - 90° Elbow Long Drop





Part Number		F	H		L		K			
	in		mm	in	mm	in	mm	in	mm	int
T04-04FJ90L	1/4	7/16 - 20	25.5	1.00	53.5	2.11	46.0	1.81	14	9/16
T04-05FJ90L	1/4	1/2 - 20	25.5	1.00	53.5	2.11	46.0	1.81	17	11/16
T04-06FJ90L	1/4	9/16 - 18	25.5	1.00	53.5	2.11	54.0	2.12	19	3/4
T06-06FJ90L	3/8	9/16 - 18	31.0	1.22	61.5	2.42	54.0	2.12	19	3/4
T06-08FJ90L	3/8	3/4 - 16	31.0	1.22	61.5	2.42	64.0	2.52	22	7/8
T08-08FJ90L	1/2	3/4 - 16	38.0	1.50	71.0	2.79	64.0	2.52	22	7/8
T08-10FJ90L	1/2	7/8 - 14	38.0	1.50	71.0	2.79	70.0	2.75	27	1 1/16
T12-12FJ90L	3/4	1 1/16 - 12	55.0	2.16	95.0	3.74	96.0	3.78	32	1 1/4
T16-16FJ90L	1	1 5/16 - 12	71.0	2.79	122	4.80	114.0	4.49	38	1 1/2

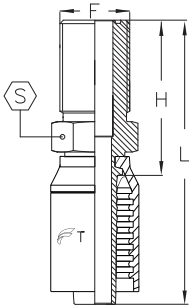
BECAUSE WE CONTINUALLY EXAMINE WAYS TO IMPROVE OUR PRODUCTS, WE RESERVE THE RIGHT TO ALTER SPECIFICATIONS WITHOUT NOTICE.



MF ORFS Male



Part Number		F	H		L			
	in		mm	in	mm	in	mm	int
T04-04MF	1/4	9/16 - 18	23.5	0.92	51.5	2.02	17	11/16
T04-06MF	1/4	11/16 - 16	25.5	1.00	53.5	2.10	19	3/4
T06-06MF	3/8	11/16 - 16	25.5	1.00	56.0	2.20	19	3/4
T06-08MF	3/8	13/16 - 16	28.5	1.12	59.0	2.32	22	7/8
T06-10MF	3/8	1 - 14	33.0	1.29	63.5	2.50	27	11/16
T08-08MF	1/2	13/16 - 16	29.5	1.16	62.5	2.46	22	7/8
T08-10MF	1/2	1 - 14	34.0	1.33	67.0	2.63	27	11/16
T12-12MF	3/4	13/16 - 12	38.0	1.49	78.5	3.09	32	11/4
T16-16MF	1	17/16 - 12	44.0	1.73	95.0	3.74	41	15/8

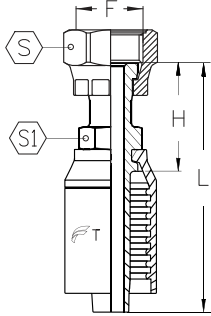
MFK ORFS Male Bulkhead



Part Number		F	H		L			
	in		mm	in	mm	in	mm	in
T06-06MFK*	3/8	11/16 - 16	47.0	1.85	77.0	3.03	19	3/4
T08-08MFK*	1/2	13/16 - 16	50.0	2.00	83.0	3.26	22	7/8

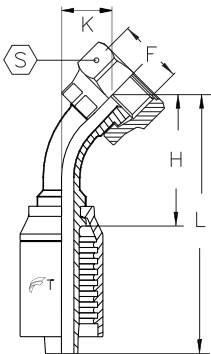
*Locknut not included.

FF ORFS Female Swivel



Part Number		F	H		L					
	in		mm	in	mm	in	mm	in	mm	in
T02-04FF	1/8	9/16 - 18	27.0	1.07	42.0	1.65	17	11/16	14	9/16
T04-04FF	1/4	9/16 - 18	26.5	1.04	54.5	2.14	17	11/16	14	9/16
T04-06FF	1/4	11/16 - 16	28.5	1.12	56.5	2.22	22	7/8	16	5/8
T05-06FF	5/16	11/16 - 16	28.5	1.12	56.5	2.22	22	7/8	16	5/8
T06-04FF	3/8	9/16 - 18	26.5	1.04	57.0	2.24	17	11/16	16	5/8
T06-06FF	3/8	11/16 - 16	28.5	1.12	59.0	2.32	22	7/8	16	5/8
T06-08FF	3/8	13/16 - 16	32.5	1.27	63.0	2.48	24	1	19	3/4
T08-06FF	1/2	11/16 - 16	30.5	1.20	63.5	2.50	22	7/8	19	3/4
T08-08FF	1/2	13/16 - 16	33.5	1.31	66.5	2.61	24	1	19	3/4
T08-10FF	1/2	1 - 14	39.5	1.55	72.5	2.85	30	13/16	24	1
T08-12FF	1/2	13/16 - 12	43.5	1.71	76.5	3.01	36	17/16	27	11/16
T12-12FF	3/4	13/16 - 12	44.5	1.75	85.0	3.34	36	17/16	27	11/16
T16-16FF	1	17/16 - 12	49.0	1.92	100.0	3.93	41	15/8	36	17/16

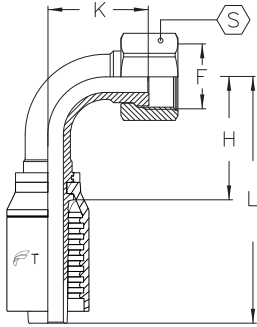
FF45 ORFS Female Swivel - 45° Elbow



Part Number		F	H		L		K			
	in		mm	in	mm	in	mm	in	mm	int
T04-04FF45	1/4	9/16 - 18	32.5	1.27	60.5	2.38	10.5	0.41	17	11/16
T04-06FF45	1/4	11/16 - 16	34.5	1.35	62.5	2.46	12.5	0.49	22	7/8
T05-06FF45	5/16	11/16 - 16	35.0	1.37	63.0	2.48	12.5	0.49	22	7/8
T06-06FF45	3/8	11/16 - 16	36.0	1.41	66.5	2.61	12.5	0.49	22	7/8
T06-08FF45	3/8	13/16 - 16	38.5	1.51	69.0	2.71	15.0	0.59	24	1
T08-06FF45	1/2	11/16 - 16	46.5	1.83	79.5	3.12	19.5	0.76	22	7/8
T08-08FF45	1/2	13/16 - 16	42.5	1.67	75.5	2.97	15.5	0.61	24	1
T08-10FF45	1/2	1 - 14	45.0	1.77	78.0	3.07	17.5	0.68	30	13/16
T08-12FF45	1/2	13/16 - 12	47.0	1.85	80.0	3.14	20.5	0.80	36	17/16
T12-12FF45	3/4	13/16 - 12	58.0	2.28	99.0	3.89	21.0	0.82	36	17/16
T16-16FF45	1	17/16 - 12	73.0	2.87	124.0	4.88	24.0	0.94	41	15/8

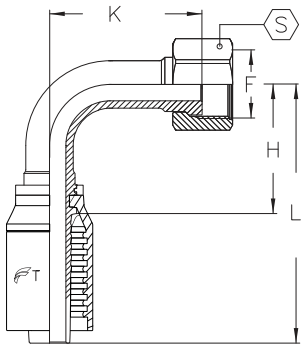
BECAUSE WE CONTINUALLY EXAMINE WAYS TO IMPROVE OUR PRODUCTS, WE RESERVE THE RIGHT TO ALTER SPECIFICATIONS WITHOUT NOTICE.

FF90S ORFS Female Swivel - 90° Elbow Short Drop



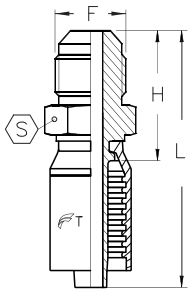
Part Number		F	H		L		K			
	in		mm	in	mm	in	mm	in	mm	int
T02-04FF90S	1/8	9/16 - 18	28.7	1.13	42.6	1.68	18.0	0.78	17	11/16
T04-04FF90S	1/4	9/16 - 18	27.0	1.06	55.0	2.17	21.0	0.82	17	11/16
T04-06FF90S	1/4	11/16 - 16	27.0	1.06	55.0	2.17	24.0	0.94	22	7/8
T05-06FF90S	5/16	11/16 - 16	29.0	1.14	57.0	2.24	25.0	0.98	22	7/8
T06-04FF90S	3/8	9/16 - 18	30.0	1.18	60.5	2.38	22.0	0.87	17	11/16
T06-06FF90S	3/8	11/16 - 16	31.5	1.24	62.0	2.44	24.5	0.96	22	7/8
T06-08FF90S	3/8	13/16 - 16	31.0	1.22	61.0	2.40	30.0	1.18	24	1
T08-08FF90S	1/2	13/16 - 16	39.0	1.54	72.0	2.83	31.0	1.22	24	1
T08-10FF90S	1/2	1 - 14	39.0	1.54	72.0	2.83	34.0	1.34	30	13/16
T08-12FF90S	1/2	13/16 - 12	39.0	1.54	72.0	2.83	42.0	1.65	36	17/16
T12-12FF90S	3/4	13/16 - 12	55.0	2.17	95.0	3.74	45.0	1.77	36	17/16
T16-16FF90S	1	17/16 - 12	71.0	2.79	122.0	4.80	55.0	2.17	41	15/8

FF90L ORFS Female Swivel - 90° Elbow Long Drop



Part Number		F	H		L		K			
	in		mm	in	mm	in	mm	in	mm	int
T04-04FF90L	1/4	9/16 - 18	29.0	1.14	57.0	2.24	46.0	1.81	17	11/16
T04-06FF90L	1/4	11/16 - 16	27.0	1.06	55.0	2.16	54.0	2.12	22	7/8
T06-06FF90L	3/8	11/16 - 16	34.0	1.33	64.5	2.53	54.0	2.12	22	7/8
T06-08FF90L	3/8	13/16 - 16	34.0	1.33	64.5	2.53	64.0	2.51	24	1
T08-08FF90L	1/2	13/16 - 16	39.0	1.53	72.0	2.83	64.0	2.51	24	1
T08-10FF90L	1/2	1 - 14	39.0	1.53	72.0	2.83	70.0	2.75	30	13/16
T12-12FF90L	3/4	13/16 - 12	55.0	2.17	95.0	3.70	96.0	3.77	36	17/16
T16-16FF90L	1	17/16 - 12	71.0	2.79	122.0	4.76	114.0	4.48	41	15/8

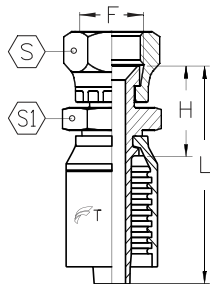
MA SAE 45° Male






Part Number		F	H		L			
	in		mm	in	mm	mm	in	
T06-06MA	3/8	5/8 - 18	28.2	1.11	58.7	2.21	16	5/8
T12-12MA	3/4	11/16 - 14	43.4	1.71	83.9	3.30	27	11/16

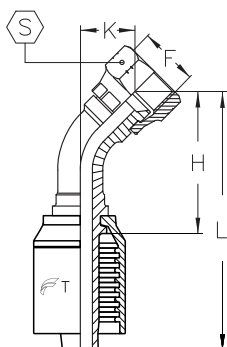
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FA SAE 45° Female Swivel



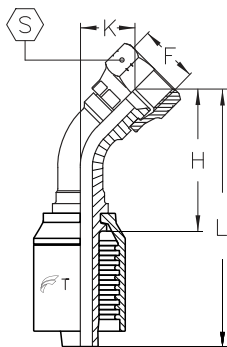
Part Number		F	H		L					
	in		mm	in	mm	in	mm	in	mm	in
T04-06FA	1/4	5/8 - 18	23.0	0.90	51.0	2.01	22	7/8	16	5/8
T05-06FA	5/16	5/8 - 18	23.5	0.92	51.5	2.02	22	7/8	16	5/8
T06-06FA	3/8	5/8 - 18	23.5	0.92	54.0	2.12	22	7/8	16	5/8
T10-12FA	5/8	1 1/16 - 14	31.8	1.25	78.0	3.07	32	1 1/4	25	1
T12-12FA	3/4	1 1/16 - 14	31.8	1.25	72.3	3.27	32	1 1/4	27	1 1/16



FA45 SAE 45° Female Swivel - 45° Elbow



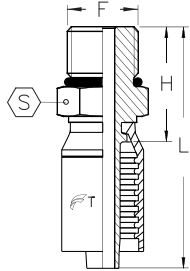
Part Number		F	H		L		K			
	in		mm	in	mm	in	mm	in	mm	in
T06-06FA45	3/8	5/8 - 18	39.0	1.53	69.5	2.74	16.0	0.63	22	7/8
T12-12FA45	3/4	1 1/16 - 14	62.0	2.44	103.0	4.05	25.0	0.98	32	1 1/4

FA90 SAE 45° Female Swivel - 90° Elbow



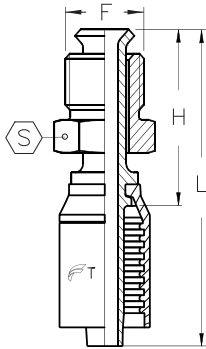
Part Number		F	H		L		K			
	in		mm	in	mm	in	mm	in	mm	in
T06-06FA90	3/8	5/8 - 18	39.0	1.53	69.5	2.74	16.0	0.63	22	7/8
T12-12FA90	3/4	1 1/16 - 14	62.0	2.44	103.0	4.05	25.0	0.98	32	1 1/4

MOB O-Ring Boss Male



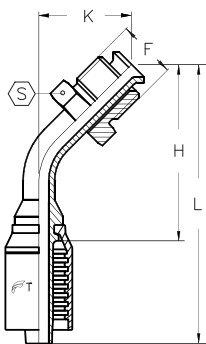
Part Number		F	H		L			
	in		mm	in	mm	in	mm	in
T04-04MOB	1/4	7/16 - 20	21.7	0.85	49.7	1.96	14	9/16
T04-05MOB	1/4	1/2 - 20	22.2	0.87	50.2	1.98	16	5/8
T04-06MOB	1/4	9/16 - 18	23.5	0.92	51.5	2.03	17	11/16
T06-06MOB	3/8	9/16 - 18	23.5	0.92	54.0	2.12	17	11/16
T06-08MOB	3/8	3/4 - 16	26.2	1.03	56.7	2.23	22	7/8
T06-10MOB	3/8	7/8 - 14	28.0	1.10	58.5	2.30	25	1
T08-08MOB	1/2	3/4 - 16	27.2	1.07	60.2	2.37	22	7/8
T08-10MOB	1/2	7/8 - 14	29.7	1.17	62.7	2.47	25	1
T08-12MOB	1/2	1 1/16 - 12	33.6	1.32	66.6	2.62	32	1 1/4
T12-12MOB	3/4	1 1/16 - 12	34.6	1.36	75.1	2.96	32	1 1/4
T16-16MOB	1	1 5/16 - 12	37.6	1.48	88.6	3.49	38	1 1/2

MIX SAE Inverted Flare Male Swivel



Part Number		F	H		L			
	in		mm	in	mm	in	mm	in
T04-03MIX	1/4	3/8 - 24	38.3	1.51	66.8	2.63	9	3/8
T04-04MIX	1/4	7/16 - 24	39.1	1.54	67.8	2.67	11	7/16
T04-05MIX	1/4	1/2 - 20	42.2	1.66	70.6	2.78	12	1/2
T06-04MIX	3/8	7/16 - 24	39.9	1.57	70.6	2.78	11	7/16
T06-05MIX	3/8	1/2 - 20	42.4	1.67	73.1	2.88	12	1/2
T06-06MIX	3/8	5/8 - 18	43.7	1.72	74.4	2.93	16	5/8
T06-08MIX	3/8	3/4 - 18	48.5	1.91	79.2	3.12	19	3/4
T08-08MIX	1/2	3/4 - 18	49.0	1.93	82.3	3.24	19	3/4

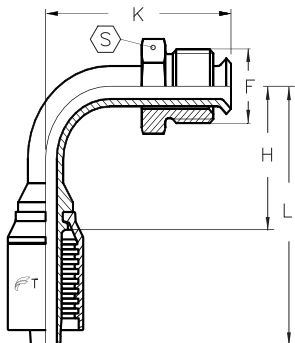
MIX45 SAE Inverted Flare Male Swivel - 45° Elbow





Part Number		F	H		L		K			
	in		mm	in	mm	in	mm	in	mm	in
T04-03MIX45	1/4	3/8 - 24	41.6	1.64	70.1	2.76	13.5	0.53	9	3/8
T04-04MIX45	1/4	7/16 - 24	51.8	2.04	80.3	3.16	14.5	0.57	11	7/16
T04-05MIX45	1/4	1/2 - 20	52.1	2.05	81.5	3.21	16.5	0.65	12	1/2
T06-05MIX45	3/8	1/2 - 20	50.0	1.97	80.5	3.17	16.5	0.65	12	1/2
T06-06MIX45	3/8	5/8 - 18	52.6	2.07	83.0	3.27	18.0	0.71	16	5/8
T06-08MIX45	3/8	3/4 - 18	63.0	2.48	93.5	3.68	21.6	0.85	19	3/4
T08-08MIX45	1/2	3/4 - 18	64.8	2.55	97.8	3.85	21.6	0.85	19	3/4

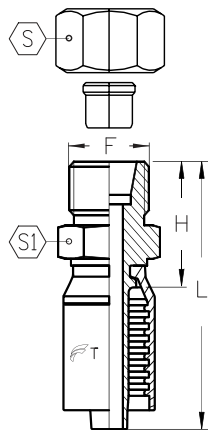
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MIX90 SAE Inverted Flare Male Swivel - 90° Elbow



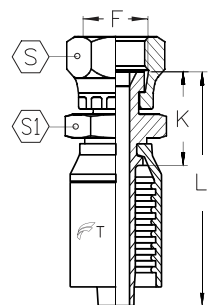
Part Number		F	H		L		K			
	in		mm	in	mm	in	mm	in	mm	in
T04-03MIX90	1/4	3/8 - 24	32.5	1.28	61.0	2.40	24.6	0.97	9	3/8
T04-04MIX90	1/4	7/16 - 24	40.4	1.59	68.8	2.71	27.9	1.10	11	7/16
T04-05MIX90	1/4	1/4 - 20	42.7	1.68	71.1	2.80	32.5	1.28	12	1/2
T06-05MIX90	3/8	1/2 - 20	43.4	1.71	73.9	2.91	32.5	1.28	12	1/2
T06-06MIX90	3/8	5/8 - 18	48.3	1.90	78.7	3.10	36.8	1.45	16	5/8
T06-08MIX90	3/8	3/4 - 18	55.6	2.19	86.1	3.39	45.2	1.78	19	3/4
T08-08MIX90	1/2	3/4 - 18	56.1	2.21	89.1	3.51	45.2	1.78	19	3/4




MRNS SAE Flareless Male Assembly



Part Number		F	H		L					
	in		mm	in	mm	in	mm	in	mm	in
T04-04MRNS	1/4	7/16 - 20	24.0	0.94	51.0	2.01	14	9/16	14	9/16
T04-05MRNS	1/4	1/2 - 20	25.3	1.00	53.0	2.09	16	5/8	17	11/16
T06-05MRNS	3/8	1/2 - 20	26.0	1.02	55.6	2.19	16	5/8	17	11/16
T06-06MRNS	3/8	9/16 - 18	26.8	1.05	55.6	2.19	17	11/16	17	11/16
T06-08MRNS	3/8	3/4 - 16	30.0	1.18	58.5	2.30	22	7/8	19	3/4
T08-08MRNS	1/2	3/4 - 16	30.4	1.20	61.3	2.41	22	7/8	19	3/4
T08-10MRNS	1/2	7/8 - 14	32.3	1.27	63.4	2.50	25	1	24	1
T12-12MRNS	3/4	1 1/16 - 12	35.7	1.40	74.7	2.94	32	1 1/4	27	1 1/16
T16-16MRNS	1	1 5/16 - 12	36.7	1.44	87.7	3.54	38	1 1/2	36	1 7/16

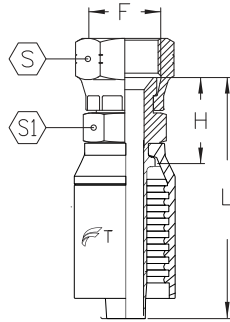
FJIS JIS Female Swivel (Toyota)



Part Number		F	H		L					
	in		mm	in	mm	in	mm	in	mm	in
T04-04FJIS	1/4	1/4 - 19	24.0	0.94	52.0	2.05	19	3/4	14	9/16
T06-06FJIS	3/8	3/8 - 19	26.0	1.02	57.0	2.24	22	7/8	17	11/16
T08-08FJIS	1/2	1/2 - 14	30.0	1.18	63.0	2.48	27	1 1/16	22	7/8
T12-12FJIS	3/4	3/4 - 14	36.0	1.42	76.0	2.99	32	1 1/4	27	1 1/16
T16-16FJIS	1	1 - 11	40.0	1.57	91.0	3.58	41	1 5/8	32	1 1/4

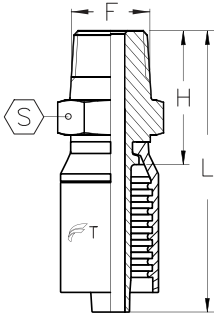
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FK Komatsu Female Swivel



Part Number		F	H		L					
	in		mm	in	mm	in	mm	in	mm	in
T04-14FK	1/4	M14 x 1.5	24.0	0.94	52.5	2.06	19	3/4	19	3/4
T06-14FK	3/8	M14 x 1.5	24.0	0.94	54.5	2.14	19	3/4	19	3/4
T06-16FK	3/8	M16 x 1.5	22.2	0.87	52.7	2.07	22	7/8	19	3/4
T06-18FK	3/8	M18 x 1.5	24.3	0.95	54.8	2.15	24	1	19	3/4
T08-22FK	1/2	M22 x 1.5	26.5	1.04	59.5	2.34	27	1 1/16	27	1 1/16
T08-24FK	1/2	M24 x 1.5	29.9	1.17	62.9	2.47	32	1 1/4	32	1 1/4
T12-30FK	3/4	M30 x 1.5	33.0	1.29	74.0	2.91	36	1 7/16	36	1 7/16

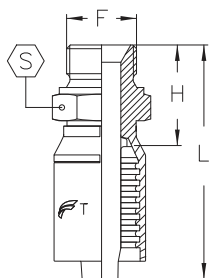
MBSPT BSPT Male





Part Number		F	H		L			
	in		mm	in	mm	in	mm	in
T04-04MBSPT	1/4	1/4 - 19	25.0	0.98	53.0	2.09	15	5/8
T06-06MBSPT	3/8	3/8 - 19	27.0	1.06	57.0	2.24	19	3/4
T08-08MBSPT	1/2	1/2 - 14	33.0	1.30	66.0	2.60	22	7/8

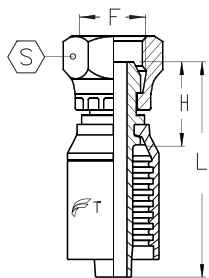
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MBSPP BSPP Male



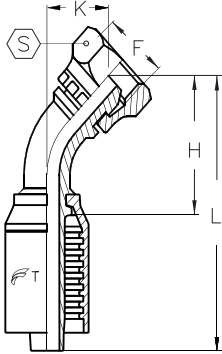
Part Number		F	H		L			
	in		mm	in	mm	in	mm	in
T04-02MBSPP	1/4	1/8 - 28	20	0.79	48	1.89	14	9/16
T04-04MBSPP	1/4	1/4 - 19	25	0.98	53	2.09	19	3/4
T04-06MBSPP	1/4	3/8 - 19	27	1.06	55	2.16	22	7/8
T06-06MBSPP	3/8	3/8 - 19	27	1.06	58	2.28	22	7/8
T06-08MBSPP	3/8	1/2 - 14	32	1.26	62	2.44	27	1 1/16
T08-08MBSPP	1/2	1/2 - 14	33	1.30	66	2.60	27	1 1/16
T12-12MBSPP	3/4	3/4 - 14	37	1.46	77	3.03	32	1 1/4
T16-16MBSPP	1	1 - 11	43	1.69	94	3.70	41	1 5/8

FBSP BSPP Female Swivel



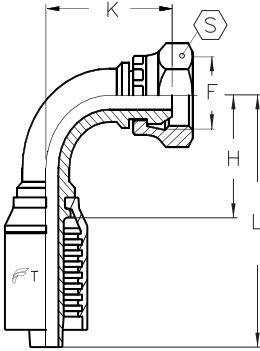
Part Number		F	H		L			
	in		mm	in	mm	in	mm	in
T04-02FBSP	1/4	1/8 - 28	17.0	0.67	45.0	1.77	14	9/16
T04-04FBSP	1/4	1/4 - 19	19.0	0.75	47.0	1.85	19	3/4
T04-06FBSP	1/4	3/8 - 19	22.0	0.87	50.0	1.97	22	7/8
T05-06FBSP	5/16	3/8 - 19	22.0	0.87	50.0	1.97	22	7/8
T06-04FBSP	3/8	1/4 - 19	19.0	0.75	49.0	1.93	19	3/4
T06-06FBSP	3/8	3/8 - 19	21.0	0.83	51.0	2.01	22	7/8
T06-08FBSP	3/8	1/2 - 14	23.0	0.90	54.0	2.12	27	1 1/16
T08-08FBSP	1/2	1/2 - 14	23.0	0.90	56.0	2.20	27	1 1/16
T08-10FBSP	1/2	5/8 - 14	24.0	0.94	57.0	2.24	30	1 3/16
T12-12FBSP	3/4	3/4 - 14	27.0	1.06	67.0	2.64	32	1 1/4
T16-16FBSP	1	1 - 11	30.0	1.18	81.0	3.19	41	1 5/8

FBSP45 BSPP Female Swivel - 45° Elbow



Part Number		F	H		L		K			
	in		mm	in	mm	in	mm	in	mm	in
T04-02FBSP45	1/4	1/8 - 28	36.0	1.42	64.0	2.52	16.0	0.63	14	9/16
T04-04FBSP45	1/4	1/4 - 19	37.0	1.46	65.0	2.56	16.0	0.63	19	3/4
T04-06FBSP45	1/4	3/8 - 19	40.0	1.57	68.0	2.68	19.0	0.75	22	7/8
T05-06FBSP45	5/16	3/8 - 19	41.0	1.61	69.0	2.72	19.0	0.75	22	7/8
T06-06FBSP45	3/8	3/8 - 19	42.0	1.65	73.0	2.87	19.0	0.75	22	7/8
T06-08FBSP45	3/8	1/2 - 14	44.0	1.73	75.0	2.95	21.0	0.83	27	1 1/16
T08-08FBSP45	1/2	1/2 - 14	49.0	1.93	82.0	3.23	22.0	0.87	27	1 1/16
T08-10FBSP45	1/2	5/8 - 14	49.0	1.93	82.0	3.23	22.0	0.87	30	1 3/16
T12-12FBSP45	3/4	3/4 - 14	66.0	2.60	106.0	4.17	28.0	1.10	32	1 1/4
T16-16FBSP45	1	1 - 11	84.0	3.31	135.0	5.31	36.0	1.42	41	1 5/8

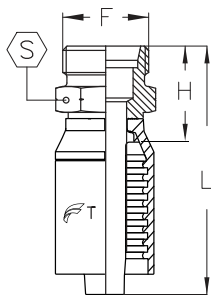
FBSP90 BSPP Female Swivel - 90° Elbow



Part Number		F	H		L		K			
	in		mm	in	mm	in	mm	in	mm	in
T04-02FBSP90	1/4	1/8 - 28	26	1.02	54	2.12	28	1.10	14	9/16
T04-04FBSP90	1/4	1/4 - 19	26	1.02	54	2.12	28	1.10	19	3/4
T04-06FBSP90	1/4	3/8 - 19	26	1.02	54	2.12	32	1.26	22	7/8
T05-06FBSP90	5/16	3/8 - 19	28	1.10	56	2.20	34	1.34	22	7/8
T06-06FBSP90	3/8	3/8 - 19	31	1.22	61	2.40	35	1.38	22	7/8
T06-08FBSP90	3/8	1/2 - 14	31	1.22	61	2.40	38	1.50	27	1 1/16
T08-08FBSP90	1/2	1/2 - 14	37	1.46	70	2.75	42	1.65	27	1 1/16
T08-10FBSP90	1/2	5/8 - 14	37	1.46	70	2.75	43	1.69	30	1 3/16
T12-12FBSP90	3/4	3/4 - 14	54	2.12	95	3.74	56	2.20	32	1 1/4
T16-16FBSP90	1	1 - 11	70	2.76	121	4.76	72	2.83	41	1 5/8

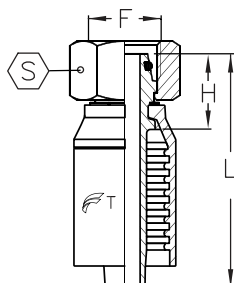
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MML Metric 24° Male Light - (CEL)



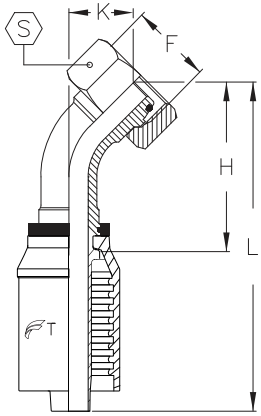
Part Number		F	Tube	H		L			
	in			mm	in	mm	in	mm	in
T04-12MML	1/4	M12 x 1.5	L6	21.0	0.83	49.0	1.93	12	1/2
T04-16MML	1/4	M16 x 1.5	L8	21.0	0.83	49.0	1.93	14	9/16
T06-16MML	3/8	M16 x 1.5	L10	23.0	0.90	53.0	2.09	17	11/16
T06-18MML	3/8	M18 x 1.5	L12	23.0	0.90	53.0	2.09	19	3/4
T06-22MML	3/8	M22 x 1.5	L15	25.0	0.98	56.0	2.20	22	7/8
T08-22MML	1/2	M22 x 1.5	L15	26.0	1.02	59.0	2.32	22	7/8



FML Metric 24° Female Light - (DKOL)



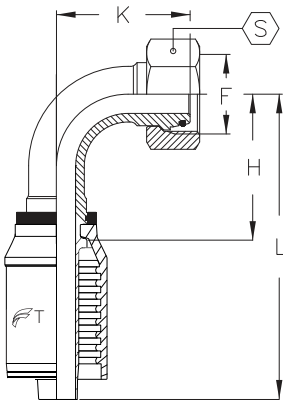
Part Number		F	Tube	H		L			
	in			mm	in	mm	in	mm	in
T02-10FMLL	1/8	M10 x 1.0	LL6	16.3	0.64	43.7	1.72	14	9/16
T03-12FML	3/16	M12 x 1.5	L6	21.0	0.83	46.0	1.81	14	9/16
T04-12FML	1/4	M12 x 1.5	L6	23.0	0.90	51.0	2.01	17	11/16
T04-14FML	1/4	M14 x 1.5	L8	22.0	0.87	50.0	1.97	17	11/16
T04-16FML	1/4	M16 x 1.5	L10	24.0	0.94	52.0	2.05	19	3/4
T06-16FML	3/8	M16 x 1.5	L10	23.0	0.90	54.0	2.12	19	3/4
T06-18FML	3/8	M18 x 1.5	L12	24.0	0.94	54.0	2.12	22	7/8
T06-22FML	3/8	M22 x 1.5	L15	24.0	0.94	54.0	2.12	27	11/16
T08-22FML	1/2	M22 x 1.5	L15	24.0	0.94	57.0	2.24	27	11/16
T08-26FML	1/2	M26 x 1.5	L18	26.0	1.02	59.0	2.32	32	1 1/4
T12-30FML	3/4	M30 x 2.0	L22	31.0	1.22	71.0	2.79	36	1 7/16
T16-36FML	1	M36 x 2.0	L28	32.0	1.26	83.0	3.27	41	1 5/8



FML45 Metric 24° Female Light - 45° Elbow - (DKOL)



Part Number		F	Tube	H		L		K			
	in			mm	in	mm	mm	in	mm	in	
T03-12FML45	3/16	M12 x 1.5	L6	34.0	1.34	59.0	2.32	14.0	0.55	14	9/16
T04-12FML45	1/4	M12 x 1.5	L6	35.0	1.38	63.0	2.48	14.0	0.55	17	11/16
T04-14FML45	1/4	M14 x 1.5	L8	36.0	1.42	64.0	2.52	14.0	0.55	17	11/16
T04-16FML45	1/4	M16 x 1.5	L10	38.0	1.50	66.0	2.60	16.0	0.63	19	3/4
T06-16FML45	3/8	M16 x 1.5	L10	39.0	1.53	69.0	2.72	16.0	0.63	19	3/4
T06-18FML45	3/8	M18 x 1.5	L12	40.0	1.57	71.0	2.79	18.0	0.71	22	7/8
T06-22FML45	3/8	M22 x 1.5	L15	42.0	1.65	72.0	2.83	19.0	0.75	27	11/16
T08-22FML45	1/2	M22 x 1.5	L15	46.0	1.81	79.0	3.11	19.0	0.75	27	11/16
T08-26FML45	1/2	M26 x 1.5	L18	47.0	1.85	80.0	3.15	21.0	0.83	32	1 1/4
T12-30FML45	3/4	M30 x 2.0	L22	62.0	2.44	103.0	4.05	25.0	0.98	36	1 7/16
T16-36FML45	1	M36 x 2.0	L28	80.0	3.15	131.0	5.16	31.0	1.22	41	1 5/8

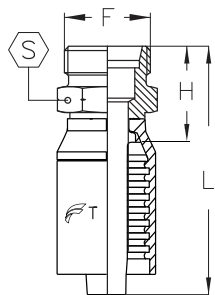
FML90 Metric 24° Female Light - 90° Elbow - (DKOL)





Part Number		F	Tube	H		L		K			
	in			mm	in	mm	mm	in	mm	in	
T03-12FML90	3/16	M12 x 1.5	L6	27.0	1.06	52.0	2.05	28.0	1.10	14	9/16
T04-12FML90	1/4	M12 x 1.5	L6	26.0	1.02	53.0	2.09	26.0	1.02	17	11/16
T04-14FML90	1/4	M14 x 1.5	L8	29.0	1.14	57.0	2.24	29.0	1.14	17	11/16
T04-16FML90	1/4	M16 x 1.5	L10	29.0	1.14	57.0	2.24	30.0	1.18	19	3/4
T06-16FML90	3/8	M16 x 1.5	L10	31.0	1.22	61.0	2.40	31.0	1.22	19	3/4
T06-18FML90	3/8	M18 x 1.5	L12	31.0	1.22	61.0	2.40	33.0	1.30	22	7/8
T06-22FML90	3/8	M22 x 1.5	L15	31.0	1.22	61.0	2.40	35.0	1.38	27	11/16
T08-22FML90	1/2	M22 x 1.5	L15	37.0	1.46	70.0	2.75	38.0	1.50	27	11/16
T08-26FML90	1/2	M26 x 1.5	L18	37.0	1.46	70.0	2.75	40.0	1.57	32	1 1/4
T12-30FML90	3/4	M30 x 2.0	L22	54.0	2.12	94.0	3.70	52.0	2.05	36	1 7/16
T16-36FML90	1	M36 x 2.0	L28	70.0	2.75	121.0	4.76	66.0	2.60	41	1 5/8

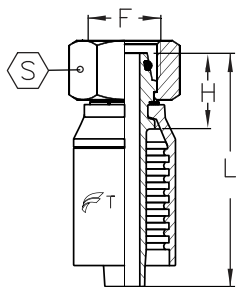
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MMS Metric 24° Male Heavy - (CES)



Part Number		F	Tube	H		L			
	in			mm	in	mm	in	mm	in
T04-18MMS	1/4	M18 x 1.5	S10	24.0	0.94	52.0	2.05	19	3/4
T06-20MMS	3/8	M20 x 1.5	S12	25.0	0.98	56.0	2.20	22	7/8
T06-22MMS	3/8	M22 x 1.5	S14	27.0	1.06	58.0	2.28	22	7/8
T08-24MMS	1/2	M24 x 1.5	S16	29.0	1.14	62.0	2.44	24	1

FMS Metric 24° Female Heavy - (DKOS)



Part Number		F	Tube	H		L			
	in			mm	in	mm	in	mm	in
T04-18FMS	1/4	M18 x 1.5	S10	24.0	0.94	52.0	2.05	19	7/8
T06-20FMS	3/8	M20 x 1.5	S12	24.0	0.94	54.0	2.12	24	1
T06-22FMS	3/8	M22 x 1.5	S14	28.0	1.10	58.0	2.28	27	1 1/16
T08-24FMS	1/2	M24 x 1.5	S16	29.0	1.14	62.0	2.44	30	1 3/16