



37° Flared Tube Fittings

3 piece tube assembly



Make the leak free connections with SEALEXCEL® products at economical price.



About the company

SEALEXCEL® (INDIA) PVT. LTD. is a fast growing manufacturing company in the field of design, development, production and marketing of high quality valves and fittings for International and domestic markets, since 1987.

Product Range

- ♦ Twin Ferrule tube fittings
- ♦ Single Ferrule tube Fittings
- ♦ Tube fittings as per DIN 2353
- ♦ 37° Flared tube fittings
- ♦ Stainless Steel push in fittings
- ♦ Precision pipe fittings and Adaptors
- ♦ Stainless steel quick connect couplings
- ♦ Bar Stock and Forged body needle valves
- ♦ Instrumentation Ball Valves

Our Focus

SEALEXCEL® manufactures all the above products to very stringent tolerances under rigid quality controlled procedures approved to ISO 9001:2000 quality management systems. The products are tested with continuous research and development programs to withstand the demand of high performance world class quality products for instrumentation and process tubing. These products are used in the environments like Oil, Gas, Chemical, Petrochemical, Nuclear, Power plant, Pharmaceutical, Hydraulic, Pneumatic, Marine, Packaging, Printing Industries etc.



Manufacturing Facility

SEALEXCEL® has two well equipped manufacturing units in India having modern manufacturing facilities with CNC lathes, Single Spindle Auto Screw machines, Capsten lathes, Thread Rolling and many other machines to provide good quality products at economical prices.

Product warranty

All the SEALEXCEL® products come with a warranty of 12 months from the date of shipment against any defect in material or workmanship. The warranty stands for replacement of determined defective parts only.

Quality Policy

We at SEALEXCEL® not only strive to meet all of our customer's requirements but also enhance customer's expectation by providing them excellent products at economical price in time

This is achieved by

- ♦ Continuously improving the products, process and systems.
- ♦ Ensuring involvement of all the employees and enhancing their competency.
- ♦ Complying with all applicable statutory and regulatory Requirements.

The Goal

SEALEXCEL® is committed to make every effort towards producing world class products at economical price.



APPLICATION

SEALEXCEL[®] 37 degree flared Tube Fittings is compact and simple in design for assembly and assures maximum reliability and performance.

It is especially suited for low and medium wall tubing with good vibration resistance in a broad selection of types and sizes.

It is used in virtually every application that uses fluid power for motion control & automation.

DESIGN

SEALEXCEL[®] 37 degree flared Tube Fittings consist of three precision components such as Body, Sleeve and Nut. These components have been manufactured to very stringent tolerances under rigid quality control procedure approved to ISO 9001: 2000.

SEALEXCEL[®] 37 degree flared Tube Fittings meets SAE J514 Standard.

The Tube end is flared at a 37 degree angle and sandwiched between the fitting body nose (seat) and the sleeve with nut which provide a very effective leakproof joint, full flow connection in process tubing.

SEALEXCEL[®] 37 degree flared Tube Fittings are available as a standard in SS316 material, which meets the following specifications.

- A. SS316 BAR STOCK :-ASTM A-479
- B. SS316 FORGING :-ASTM A-182

Other materials are available on request.

PRESSURE RATING

SEALEXCEL[®] 37 degree flared Tube Fittings provide zero leak, full flow connection in hydraulic system operating at working pressure as specified below.

Allowable working pressure ratings are based on min. design factor 4:1 for dynamic and 3:1 for static application.

Nom. Tube O.D Inch	37° Flare Straight thread	Nom. Pipe Size	SAE St. Threads Union and Bulkhead	Fittings with Pipe Thread
1/8	5/16" x 24	1/8"	5000	5000
3/16	3/8" x 24	1/8"	5000	5000
1/4	7/16" x 20	1/8"	5000	5000
5/16	1/2" x 20	1/8"	5000	5000
3/8	9/16" x 18	1/4"	5000	5000
1/2	3/4" x 16	3/8"	4500	4000
5/8	7/8" x 14	1/2"	3500	3000
3/4	1-1/16" x 12	3/4"	3500	3000
7/8	1-3/16" x 12	3/4"	3000	2500
1	1-5/16" x 12	1"	3000	2000

NOTE :- Since many factors influence the pressure at which a system will or will not perform satisfactorily. Details as shown in the above table are only guideline & not rigid .

AVAILABLE SIZES

Fractional Size : ranges from 1/8" through 1"

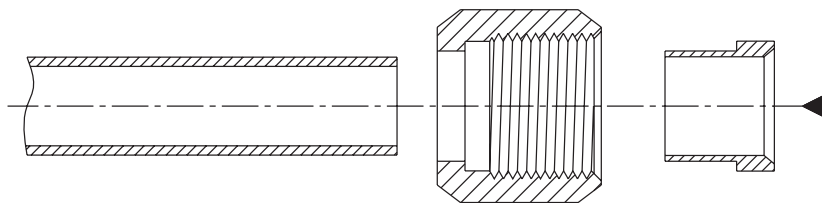
Metric Size : ranges from 6mm through 25 mm

QUALITY OF TUBING

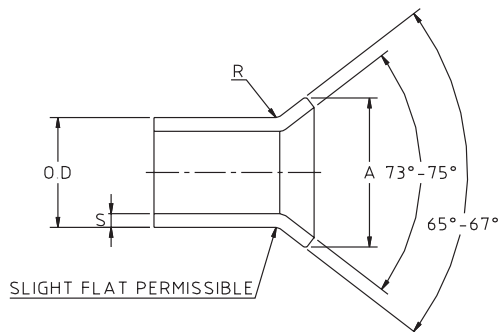
Stainless Steel 316 or 304 seamless tubing should be fully annealed, according to Standard ASTM-269 suitable for bending and flaring. Length of finished tubing shall be reasonable straight and have smooth ends and free from burrs, scales and any kind of defect and scratches.

ASSEMBLY INSTRUCTION

- ◆ Ensure that the end of the tube is cut square within ± 1 degree and remove the burrs and sharp edges.
- ◆ Wipe the ID and the OD of the deburred Tube end properly.
- ◆ Insert the nut and sleeve on to the tube as shown below



Flare the Tube with a special flaring tool to 37 degree, dimensions of Flared Tube according to SAE J533 standard as shown below



The Dimensions of the flared tube according to SAE J533 are shown below

Nominal Tube O.D.	A Single Flare Diameter				R		S	
	Inch		mm		inch	mm	inch	mm
	Max.	Min.	Max.	Min.	± 0.02	± 0.5	± 0.02	± 0.5
1/8	0.20	0.18	5.08	4.58	0.03	0.8	0.035	0.88
3/16	0.28	0.26	7.11	6.61	0.03	0.8	0.035	0.88
1/4	0.36	0.34	9.14	8.64	0.03	0.8	0.065	1.65
5/16	0.43	0.40	10.92	10.16	0.03	0.8	0.065	1.65
3/8	0.49	0.46	12.44	11.69	0.04	1.0	0.065	1.65
1/2	0.66	0.63	16.76	16.01	0.06	1.5	0.083	2.1
5/8	0.79	0.76	20.06	19.31	0.06	1.5	0.095	2.41
3/4	0.95	0.92	24.13	23.37	0.08	2.0	0.109	2.76
7/8	1.07	1.04	27.17	26.42	0.08	2.0	0.109	2.76
1	1.20	1.17	30.48	29.72	0.09	2.3	0.120	3.04
Dimensions are for reference only, and are subject to change without notice.								

Screw the nut on the body until finger tight. Further tighten the nut with a wrench 1/4" turn in order to make a leakproof metal to metal sealing connection.

HOW TO ORDER SEALEXCEL® 37 DEGREE FLARED TUBE FITTINGS

The Part Number describes fittings body only.

Example for Fractional Size : FLMC - 250 - 250 - N/E

FLMC	250	250	N	E
Type of Fittings	Tube OD	Pipe Thread	Type of Thread	Material
Male Connector	1/4"	1/4"	NPT	SS316

Example for Metric Size : FLMC - 6 - 250 - RT/E

FLMC	6	250	RT	E
Type of Fittings	Tube OD	Pipe Thread	Type of Thread	Material
Male Connector	6mm	1/4"	BSPT	SS316

Size code description

Inch				Metric			
Size	Code	Size	Code	Size	Code	Size	Code
1/8	125	5/8	625	3mm	3	15mm	15
3/16	187	3/4	750	4mm	4	16mm	16
1/4	250	7/8	875	6mm	6	18mm	18
5/16	312	1	1000	8mm	8	20mm	20
3/8	375			10mm	10	22mm	22
1/2	500			12mm	12	25mm	25
				14mm	14		

Pipe Thread Description

Thread Type	Code
NPT Thread	N
ISO Tapered Thread (BSPT)	RT
SAE/MS Straight Thread	SE

Material Code Description

Type of Material	Material Code
SS316	E
Carbon Steel	CS
Viton®	V
Buna-N	B

Viton® is the registered trademark of Dupont.

37° FLARE 3 Piece Tube Assembly.

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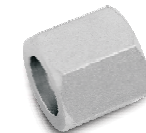
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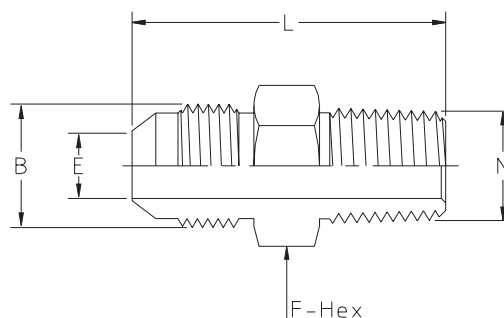


37° FLARE MALE CONNECTOR

Flare Tube end to Male Pipe end SAE 070102

PART NUMBER INFORMATION: FLMC – Body only

FLAMC – Assembled Fitting, (Body, Sleeve & Nut)



T Tube OD		N-NPT male pipe	B	Dimensions					Part No.	
				E	F	L				
inch	mm	Size	UNF	inch	mm	inch	inch	mm	Inch	Metric
1/8	-	1/8	5/16x24	0.062	1.6	7/16	1.11	28.2	FLMC-125-125-N	-
3/16	-	1/8	3/8x24	0.125	3.2	7/16	1.14	29.0	FLMC-187-125-N	-
1/4	6	1/8	7/16x20	0.172	4.4	1/2	1.22	31.0	FLMC-250-125-N	FLMC-6-125-N
1/4	6	1/4	7/16x20	0.172	4.4	9/16	1.42	36.0	FLMC-250-250-N	FLMC-6-250-N
1/4	6	3/8	7/16x20	0.172	4.4	11/16	1.44	36.5	FLMC-250-375-N	FLMC-6-375-N
1/4	6	1/2	7/16x20	0.172	4.4	7/8	1.68	42.7	FLMC-250-500-N	FLMC-6-500-N
5/16	8	1/8	1/2x20	0.190	4.8	9/16	1.22	31.0	FLMC-312-125-N	FLMC-8-125-N
5/16	8	1/4	1/2x20	0.234	6.0	9/16	1.42	36.0	FLMC-312-250-N	FLMC-8-250-N
3/8	10	1/8	9/16x18	0.190	4.8	5/8	1.25	31.8	FLMC-375-125-N	FLMC-10-125-N
3/8	10	1/4	9/16x18	0.280	7.1	5/8	1.43	36.3	FLMC-375-250-N	FLMC-10-250-N
3/8	10	3/8	9/16x18	0.297	7.5	11/16	1.43	36.3	FLMC-375-375-N	FLMC-10-375-N
3/8	10	1/2	9/16x18	0.297	7.5	7/8	1.69	42.9	FLMC-375-500-N	FLMC-10-500-N
1/2	12	1/4	3/4x16	0.280	7.1	13/16	1.53	38.9	FLMC-500-250-N	FLMC-12-250-N
1/2	12	3/8	3/4x16	0.380	9.5	13/16	1.53	38.9	FLMC-500-375-N	FLMC-12-375-N
1/2	12	1/2	3/4x16	0.391	9.9	7/8	1.79	45.4	FLMC-500-500-N	FLMC-12-500-N
1/2	12	3/4	3/4x16	0.391	9.9	1-1/16	1.85	47.0	FLMC-500-750-N	FLMC-12-750-N
5/8	16	3/8	7/8x14	0.380	9.5	15/16	1.70	43.1	FLMC-625-375-N	FLMC-16-375-N
5/8	16	1/2	7/8x14	0.484	12.3	15/16	1.89	48.0	FLMC-625-500-N	FLMC-16-500-N
5/8	16	3/4	7/8x14	0.484	12.3	1-1/8	1.95	49.5	FLMC-625-750-N	FLMC-16-750-N
3/4	18	1/2	1-1/16x12	0.609	15.5	1-1/16	2.06	52.3	FLMC-750-500-N	FLMC-18-500-N
3/4	18	3/4	1-1/16x12	0.609	15.5	1-1/8	2.06	52.3	FLMC-750-750-N	FLMC-18-750-N
3/4	18	1	1-1/16x12	0.609	15.5	1-3/8	2.25	57.1	FLMC-750-1000-N	FLMC-18-1000-N
7/8	20	3/4	1-3/16x12	0.719	18.3	1-1/4	2.09	53.1	FLMC-875-750-N	FLMC-20-750-N
1	25	3/4	1-5/16x12	0.719	18.3	1-3/8	2.11	53.5	FLMC-1000-750-N	FLMC-25-750-N
1	25	1	1-5/16x12	0.844	21.5	1-3/8	2.30	58.4	FLMC-1000-1000-N	FLMC-25-1000-N

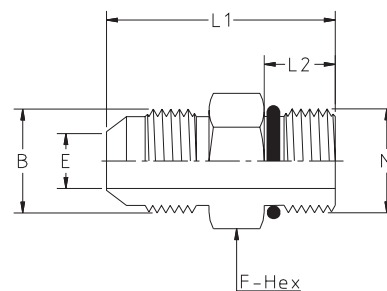
Dimensions are for reference only, and are subject to change without notice.

37° FLARE MALE CONNECTOR SAE

Flare Tube end to SAE/MS Straight thread SAE 070120

PART NUMBER INFORMATION: FLSCM – Body with 'O' Ring

FLASMC – Assembled Fitting (Body, Sleeve, Nut & 'O' Ring)



T Tube OD		M-SAE/MS Straight Thread	B	Dimensions								Part No.	
				E		F		L1		L2		Inch	Metric
inch	mm	UNF	UNF	inch	mm	inch	mm	inch	mm	inch	mm		
1/8	-	5/16x24	5/16x24	0.062	1.6	7/16	1.06	26.9	0.3	7.5		FLSCM-125-312-SE	-
3/16	-	3/8x24	3/8x24	0.125	3.2	1/2	1.10	27.9	0.3	7.5		FLSCM-187-375-SE	-
1/4	6	7/16x20	7/16x20	0.172	4.4	9/16	1.23	31.2	0.36	9.1		FLSCM-250-437-SE	FLSCM-6-437-SE
1/4	6	1/2x20	7/16x20	0.172	4.4	5/8	1.23	31.2	0.36	9.1		FLSCM-250-500-SE	FLSCM-6-500-SE
1/4	6	9/16x18	7/16x20	0.172	4.4	11/16	1.30	33.0	0.39	9.9		FLSCM-250-562-SE	FLSCM-6-562-SE
1/4	6	3/4x16	7/16x20	0.172	4.4	7/8	1.37	34.8	0.44	11.1		FLSCM-250-750-SE	FLSCM-6-750-SE
5/16	8	1/2x20	1/2x20	0.234	6.0	5/8	1.23	31.2	0.36	9.1		FLSCM-312-500-SE	FLSCM-8-500-SE
3/8	10	9/16x18	9/16x18	0.280	7.5	11/16	1.30	33.0	0.39	9.9		FLSCM-375-562-SE	FLSCM-10-562-SE
3/8	10	3/4x16	9/16x18	0.297	7.5	7/8	1.38	35.1	0.44	11.1		FLSCM-375-750-SE	FLSCM-10-750-SE
3/8	10	7/8x14	9/16x18	0.297	7.5	1	1.50	38.1	0.50	12.7		FLSCM-375-875-SE	FLSCM-10-875-SE
1/2	12	3/4x16	3/4x16	0.391	9.9	7/8	1.48	37.6	0.44	11.1		FLSCM-500-750-SE	FLSCM-12-750-SE
1/2	12	9/16x18	3/4x16	0.280	9.9	13/16	1.44	36.6	0.39	9.9		FLSCM-500-562-SE	FLSCM-12-562-SE
1/2	12	7/8x14	3/4x16	0.391	9.9	1	1.60	40.6	0.50	12.7		FLSCM-500-875-SE	FLSCM-12-875-SE
1/2	12	1-1/16x12	3/4x16	0.391	9.9	1-1/4	1.76	44.7	0.59	15.1		FLSCM-500-1062-SE	FLSCM-12-1062-SE
5/8	16	7/8x14	7/8x14	0.484	12.3	1	1.70	43.2	0.50	12.7		FLSCM-625-875-SE	FLSCM-16-875-SE
5/8	16	3/4x16	7/8x14	0.484	12.3	15/16	1.60	40.6	0.44	11.1		FLSCM-625-750-SE	FLSCM-16-750-SE
5/8	16	1-1/16x12	7/8x14	0.484	12.3	1-1/4	1.86	47.2	0.59	15.1		FLSCM-625-1062-SE	FLSCM-16-1062-SE
3/4	18	1-1/16x12	1-1/16x12	0.609	15.5	1-1/4	1.97	50.0	0.59	15.1		FLSCM-750-1062-SE	FLSCM-18-1062-SE
3/4	18	3/4x16	1-1/16x12	0.420	10.7	1-1/8	1.78	45.2	0.44	11.1		FLSCM-750-750-SE	FLSCM-18-750-SE
3/4	18	7/8x14	1-1/16x12	0.500	12.7	1-1/8	1.83	46.4	0.50	12.7		FLSCM-750-875-SE	FLSCM-18-875-SE
3/4	18	1-5/16x12	1-1/16x12	0.609	15.5	1-1/2	2.00	50.8	0.59	15.1		FLSCM-750-1312-SE	FLSCM-18-1312-SE
7/8	20	1-3/16x12	1-3/16x12	0.719	18.3	1-3/8	1.99	50.5	0.59	15.1		FLSCM-875-1187-SE	FLSCM-20-1187-SE
7/8	20	1-5/16x12	1-3/16x12	0.719	18.3	1-1/2	2.02	51.3	0.59	15.1		FLSCM-875-1312-SE	FLSCM-20-1312-SE
1	25	1-5/16x12	1-5/16x12	0.844	21.5	1-1/2	2.04	51.8	0.59	15.1		FLSCM-1000-1312-SE	FLSCM-25-1312-SE
1	25	1-1/16x12	1-5/16x12	0.650	16.6	1-3/8	2.01	51.1	0.59	15.1		FLSCM-1000-1062-SE	FLSCM-25-1062-SE
1	25	1-3/16x12	1-5/16x12	0.719	18.3	1-3/8	2.04	51.8	0.59	15.1		FLSCM-1000-1187-SE	FLSCM-25-1187-SE

Dimensions are for reference only, and are subject to change without notice.

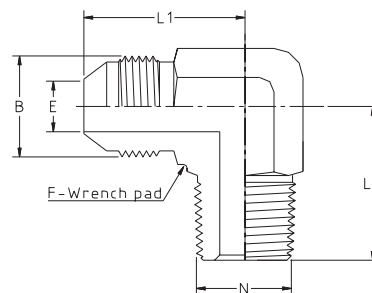
Note: Add  Ring code to the basic ordering number.

37° FLARE MALE ELBOW

Flare Tube end to Male Pipe end SAE 070202

PART NUMBER INFORMATION: FLME – Body only

FLAME – Assembled Fitting (Body, Sleeve & Nut)



T Tube OD		N-NPT male pipe Thread	B	Dimensions							Part No.	
				E		F	L1		L2			
inch	mm	Size	UNF	inch	mm	inch	inch	mm	inch	mm	Inch	Metric
1/8	-	1/8	5/16x24	0.062	1.6	7/16	0.77	19.6	0.72	18.3	FLME-125-125-N	-
3/16	-	1/8	3/8x24	0.125	3.2	7/16	0.83	21.1	0.72	18.3	FLME-187-125-N	-
1/4	6	1/8	7/16x20	0.172	4.4	1/2	0.89	22.6	0.78	19.8	FLME-250-125-N	FLME-6-125-N
1/4	6	1/4	7/16x20	0.172	4.4	9/16	1.06	26.9	1.09	27.7	FLME-250-250-N	FLME-6-250-N
5/16	8	1/8	1/2x20	0.190	4.8	9/16	0.95	24.1	0.78	19.8	FLME-312-125-N	FLME-8-125-N
5/16	8	1/4	1/2x20	0.234	6.0	9/16	1.06	26.9	1.09	27.7	FLME-312-250-N	FLME-8-250-N
3/8	10	1/8	9/16x18	0.190	4.8	5/8	1.06	26.9	0.90	22.8	FLME-375-125-N	FLME-10-125-N
3/8	10	1/4	9/16x18	0.280	7.1	5/8	1.06	26.9	1.09	27.7	FLME-375-250-N	FLME-10-250-N
3/8	10	3/8	9/16x18	0.297	7.5	11/16	1.14	29.0	1.22	31.0	FLME-375-375-N	FLME-10-375-N
3/8	10	1/2	9/16x18	0.297	7.5	7/8	1.23	31.2	1.47	37.3	FLME-375-500-N	FLME-10-500-N
1/2	12	1/4	3/4x16	0.280	7.1	13/16	1.25	31.8	1.22	31.0	FLME-500-250-N	FLME-12-250-N
1/2	12	3/8	3/4x16	0.380	9.5	13/16	1.25	31.8	1.22	31.0	FLME-500-375-N	FLME-12-375-N
1/2	12	1/2	3/4x16	0.391	9.9	7/8	1.33	33.7	1.47	37.3	FLME-500-500-N	FLME-12-500-N
1/2	12	3/4	3/4x16	0.391	9.9	1-1/8	1.42	36.0	1.59	40.4	FLME-500-750-N	FLME-12-750-N
5/8	16	3/8	7/8x14	0.380	9.5	15/16	1.45	36.8	1.28	32.5	FLME-625-375-N	FLME-16-375-N
5/8	16	1/2	7/8x14	0.470	11.9	15/16	1.45	36.8	1.47	37.3	FLME-625-500-N	FLME-16-500-N
5/8	16	3/4	7/8x14	0.484	12.3	1-1/8	1.53	38.9	1.59	40.4	FLME-625-750-N	FLME-16-750-N
3/4	18	1/2	1-1/16x12	0.470	11.9	1-1/8	1.66	41.0	1.59	40.4	FLME-750-500-N	FLME-18-500-N
3/4	18	3/4	1-1/16x12	0.609	15.5	1-1/8	1.66	41.0	1.59	40.4	FLME-750-750-N	FLME-18-750-N
7/8	20	3/4	1-3/16x12	0.719	18.3	1-1/4	1.80	45.7	1.69	42.9	FLME-875-750-N	FLME-20-750-N
1	25	3/4	1-5/16x12	0.719	18.3	1-3/8	1.81	46.0	1.78	45.2	FLME-1000-750-N	FLME-25-750-N
1	25	1	1-5/16x12	0.844	21.5	1-3/8	1.81	46.0	1.97	50.0	FLME-1000-1000-N	FLME-25-1000-N

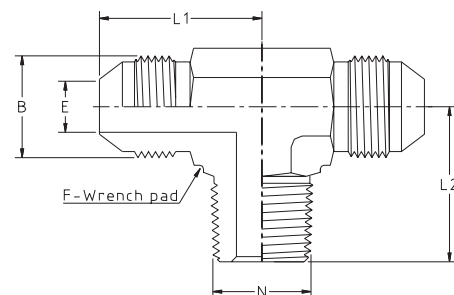
Dimensions are for reference only, and are subject to change without notice.

37° FLARE MALE BRANCH TEE

Flare Tube end to Male Pipe end SAE 070425

PART NUMBER INFORMATION: FLMBT – Body only

FLAMBT – Assembled Fitting (Body, Sleeve & Nut)



T Tube OD		N-NPT male pipe	B	Dimensions								Part No.	
				E		F	L1		L2				
inch	mm	Size	UNF	inch	mm	inch	inch	mm	inch	mm	Inch	Metric	
1/8	-	1/8	5/16x24	0.062	1.6	7/16	0.77	19.6	0.72	18.3	FLMBT-125-125-N	-	
3/16	-	1/8	3/8x24	0.125	3.2	7/16	0.83	21.1	0.72	18.3	FLMBT-187-125-N	-	
1/4	6	1/8	7/16x20	0.172	4.4	1/2	0.89	22.6	0.78	19.8	FLMBT-250-125-N	FLMBT-6-125-N	
1/4	6	1/4	7/16x20	0.172	4.4	9/16	1.06	26.9	1.09	27.7	FLMBT-250-250-N	FLMBT-6-250-N	
5/16	8	1/8	1/2x20	0.190	4.8	9/16	0.95	24.1	0.78	19.8	FLMBT-312-125-N	FLMBT-8-125-N	
5/16	8	1/4	1/2x20	0.234	6.0	9/16	1.06	26.9	1.09	27.7	FLMBT-312-250-N	FLMBT-8-250-N	
3/8	10	1/8	9/16x18	0.190	4.8	5/8	1.06	26.9	0.90	22.8	FLMBT-375-125-N	FLMBT-10-125-N	
3/8	10	1/4	9/16x18	0.280	7.1	5/8	1.06	26.9	1.09	27.7	FLMBT-375-250-N	FLMBT-10-250-N	
3/8	10	3/8	9/16x18	0.297	7.5	11/16	1.14	29.0	1.22	31.0	FLMBT-375-375-N	FLMBT-10-375-N	
3/8	10	1/2	9/16x18	0.297	7.5	7/8	1.23	31.2	1.47	37.3	FLMBT-375-500-N	FLMBT-10-500-N	
1/2	12	1/4	3/4x16	0.280	7.1	13/16	1.25	31.8	1.22	31.0	FLMBT-500-250-N	FLMBT-12-250-N	
1/2	12	3/8	3/4x16	0.380	9.5	13/16	1.25	31.8	1.22	31.0	FLMBT-500-375-N	FLMBT-12-375-N	
1/2	12	1/2	3/4x16	0.391	9.9	7/8	1.33	33.7	1.47	37.3	FLMBT-500-500-N	FLMBT-12-500-N	
1/2	12	3/4	3/4x16	0.391	9.9	1-1/8	1.42	36.0	1.59	40.4	FLMBT-500-750-N	FLMBT-12-750-N	
5/8	16	3/8	7/8x14	0.380	9.5	15/16	1.45	36.8	1.28	32.5	FLMBT-625-375-N	FLMBT-16-375-N	
5/8	16	1/2	7/8x14	0.470	11.9	15/16	1.45	36.8	1.47	37.3	FLMBT-625-500-N	FLMBT-16-500-N	
5/8	16	3/4	7/8x14	0.484	12.3	1-1/8	1.53	38.9	1.59	40.4	FLMBT-625-750-N	FLMBT-16-750-N	
3/4	18	1/2	1-1/16x12	0.470	11.9	1-1/8	1.66	41.0	1.59	40.4	FLMBT-750-500-N	FLMBT-18-500-N	
3/4	18	3/4	1-1/16x12	0.609	15.5	1-1/8	1.66	41.0	1.59	40.4	FLMBT-750-750-N	FLMBT-18-750-N	
7/8	20	3/4	1-3/16x12	0.719	18.3	1-1/4	1.80	45.7	1.69	42.9	FLMBT-875-750-N	FLMBT-20-750-N	
1	25	3/4	1-5/16x12	0.719	18.3	1-3/8	1.81	46.0	1.78	45.2	FLMBT-1000-750-N	FLMBT-25-750-N	
1	25	1	1-5/16x12	0.844	21.5	1-3/8	1.81	46.0	1.97	50.0	FLMBT-1000-1000-N	FLMBT-25-1000-N	

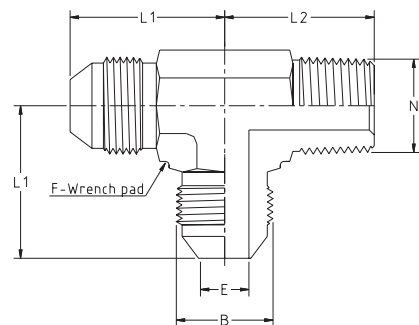
Dimensions are for reference only, and are subject to change without notice.

37° FLARE MALE RUN TEE

Flare Tube end to Male Pipe end SAE 070424

PART NUMBER INFORMATION: FLMRT – Body only

FLAMRT – Assembled Fitting (Body, Sleeve & Nut)



T Tube OD		N-NPT male pipe	B	Dimensions							Part No.	
				E		F	L1		L2			
inch	mm	Size	UNF	inch	mm	inch	inch	mm	inch	mm	Inch	Metric
1/8	-	1/8	5/16x24	0.062	1.6	7/16	0.77	19.6	0.72	18.3	FLMRT-125-125-N	-
3/16	-	1/8	3/8x24	0.125	3.2	7/16	0.83	21.1	0.72	18.3	FLMRT-187-125-N	-
1/4	6	1/8	7/16x20	0.172	4.4	1/2	0.89	22.6	0.78	19.8	FLMRT-250-125-N	FLMRT-6-125-N
1/4	6	1/4	7/16x20	0.172	4.4	9/16	1.06	26.9	1.09	27.7	FLMRT-250-250-N	FLMRT-6-250-N
5/16	8	1/8	1/2x20	0.190	4.8	9/16	0.95	24.1	0.78	19.8	FLMRT-312-125-N	FLMRT-8-125-N
5/16	8	1/4	1/2x20	0.234	6.0	9/16	1.06	26.9	1.09	27.7	FLMRT-312-250-N	FLMRT-8-250-N
3/8	10	1/8	9/16x18	0.190	4.8	5/8	1.06	26.9	0.90	22.8	FLMRT-375-125-N	FLMRT-10-125-N
3/8	10	1/4	9/16x18	0.280	7.1	5/8	1.06	26.9	1.09	27.7	FLMRT-375-250-N	FLMRT-10-250-N
3/8	10	3/8	9/16x18	0.297	7.5	11/16	1.14	29.0	1.22	31.0	FLMRT-375-375-N	FLMRT-10-375-N
3/8	10	1/2	9/16x18	0.297	7.5	7/8	1.23	31.2	1.47	37.3	FLMRT-375-500-N	FLMRT-10-500-N
1/2	12	1/4	3/4x16	0.280	7.1	13/16	1.25	31.8	1.22	31.0	FLMRT-500-250-N	FLMRT-12-250-N
1/2	12	3/8	3/4x16	0.380	9.5	13/16	1.25	31.8	1.22	31.0	FLMRT-500-375-N	FLMRT-12-375-N
1/2	12	1/2	3/4x16	0.391	9.9	7/8	1.33	33.7	1.47	37.3	FLMRT-500-500-N	FLMRT-12-500-N
1/2	12	3/4	3/4x16	0.391	9.9	1-1/8	1.42	36.0	1.59	40.4	FLMRT-500-750-N	FLMRT-12-750-N
5/8	16	3/8	7/8x14	0.380	9.5	15/16	1.45	36.8	1.28	32.5	FLMRT-625-375-N	FLMRT-16-375-N
5/8	16	1/2	7/8x14	0.470	11.9	15/16	1.45	36.8	1.47	37.3	FLMRT-625-500-N	FLMRT-16-500-N
5/8	16	3/4	7/8x14	0.484	12.3	1-1/8	1.53	38.9	1.59	40.4	FLMRT-625-750-N	FLMRT-16-750-N
3/4	18	1/2	1-1/16x12	0.470	11.9	1-1/8	1.66	41.0	1.59	40.4	FLMRT-750-500-N	FLMRT-18-500-N
3/4	18	3/4	1-1/16x12	0.609	15.5	1-1/8	1.66	41.0	1.59	40.4	FLMRT-750-750-N	FLMRT-18-750-N
7/8	20	3/4	1-3/16x12	0.719	18.3	1-1/4	1.80	45.7	1.69	42.9	FLMRT-875-750-N	FLMRT-20-750-N
1	25	3/4	1-5/16x12	0.719	18.3	1-3/8	1.81	46.0	1.78	45.2	FLMRT-1000-750-N	FLMRT-25-750-N
1	25	1	1-5/16x12	0.844	21.5	1-3/8	1.81	46.0	1.97	50.0	FLMRT-1000-1000-N	FLMRT-25-1000-N

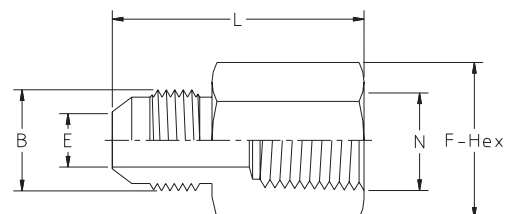
Dimensions are for reference only, and are subject to change without notice.

37° FLARE FEMALE CONNECTOR

Flare Tube end to Female Pipe end SAE 070103

PART NUMBER INFORMATION: FLFC – Body only

FLAFC – Assembled Fitting (Body, Sleeve & Nut)



T Tube OD		N-NPT female pipe Size	B UNF	Dimensions					Part No.	
inch	mm			E inch	E mm	F inch	F inch	L mm	Inch	Metric
1/8	-	1/8	5/16x24	0.062	1.6	9/16	1.12	28.4	FLFC-125-125-N	-
3/16	-	1/8	3/8x24	0.125	3.2	9/16	1.13	28.7	FLFC-187-125-N	-
1/4	6	1/8	7/16x20	0.172	4.4	9/16	1.19	30.2	FLFC-250-125-N	FLFC-6-125-N
1/4	6	1/4	7/16x20	0.172	4.4	3/4	1.39	35.3	FLFC-250-250-N	FLFC-6-250-N
5/16	8	1/8	1/2x20	0.234	6.0	9/16	1.17	29.7	FLFC-312-125-N	FLFC-8-125-N
5/16	8	1/4	1/2x20	0.234	6.0	3/4	1.39	35.3	FLFC-312-250-N	FLFC-8-250-N
3/8	10	1/4	9/16x18	0.297	7.5	3/4	1.40	35.6	FLFC-375-250-N	FLFC-10-250-N
3/8	10	3/8	9/16x18	0.297	7.5	7/8	1.46	37.1	FLFC-375-375-N	FLFC-10-375-N
1/2	12	3/8	3/4x16	0.391	9.9	7/8	1.56	39.6	FLFC-500-375-N	FLFC-12-375-N
1/2	12	1/2	3/4x16	0.391	9.9	1-1/16	1.79	45.6	FLFC-500-500-N	FLFC-12-500-N
5/8	16	1/2	7/8x14	0.484	12.3	1-1/16	1.89	48.0	FLFC-625-500-N	FLFC-16-500-N
3/4	18	1/2	1-1/16x12	0.609	15.5	1-1/16	2.05	52.1	FLFC-750-500-N	FLFC-18-500-N
3/4	18	3/4	1-1/16x12	0.609	15.5	1-3/8	2.06	52.3	FLFC-750-750-N	FLFC-18-750-N
7/8	20	3/4	1-3/16x12	0.719	18.3	1-3/8	2.06	52.3	FLFC-875-750-N	FLFC-20-750-N
1	25	1	1-5/16x12	0.844	21.5	1-5/8	2.35	59.7	FLFC-1000-1000-N	FLFC-25-1000-N

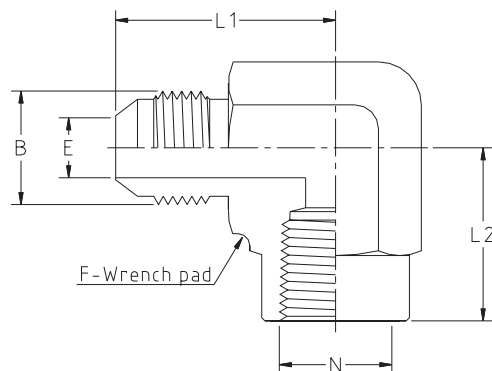
Dimensions are for reference only, and are subject to change without notice.

37° FLARE FEMALE ELBOW

Flare Tube end to Female Pipe end SAE 070203

PART NUMBER INFORMATION: FLFE – Body only

FLAFE – Assembled Fitting (Body, Sleeve & Nut)



T Tube OD		N-NPT female pipe	B	Dimensions								Part No.	
				E		F		L1		L2			
inch	mm	Size	UNF	inch	mm	inch	inch	mm	inch	mm	Inch	Metric	
1/8	-	1/8	5/16x24	0.062	1.6	9/16	1	25.4	0.66	16.8	FLFE-125-125-N	-	
3/16	-	1/8	3/8x24	0.125	3.2	9/16	1.03	26.2	0.66	16.8	FLFE-187-125-N	-	
1/4	6	1/8	7/16x20	0.172	4.4	9/16	1.08	27.7	0.66	16.8	FLFE-250-125-N	FLFE-6-125-N	
1/4	6	1/4	7/16x20	0.172	4.4	3/4	1.22	30.9	0.88	22.4	FLFE-250-250-N	FLFE-6-250-N	
5/16	8	1/8	1/2x20	0.234	6.0	9/16	1.08	27.4	0.66	16.8	FLFE-312-125-N	FLFE-8-125-N	
5/16	8	1/4	1/2x20	0.234	6.0	3/4	1.13	28.7	0.88	22.4	FLFE-312-250-N	FLFE-8-250-N	
3/8	10	1/8	9/16x18	0.297	7.5	5/8	1.23	31.2	0.67	17.0	FLFE-375-125-N	FLFE-10-125-N	
3/8	10	1/4	9/16x18	0.297	7.5	3/4	1.23	31.2	0.88	22.4	FLFE-375-250-N	FLFE-10-250-N	
3/8	10	3/8	9/16x18	0.297	7.5	7/8	1.31	33.2	1.02	25.9	FLFE-375-375-N	FLFE-10-375-N	
1/2	12	1/4	3/4x16	0.391	9.9	13/16	1.42	36.1	1.02	25.9	FLFE-500-250-N	FLFE-12-250-N	
1/2	12	3/8	3/4x16	0.391	9.9	7/8	1.42	36.1	1.02	25.9	FLFE-500-375-N	FLFE-12-375-N	
1/2	12	1/2	3/4x16	0.391	9.9	1-1/16	1.52	38.6	1.23	31.2	FLFE-500-500-N	FLFE-12-500-N	
5/8	16	1/2	7/8x14	0.484	12.3	1-1/16	1.64	41.7	1.23	31.2	FLFE-625-500-N	FLFE-16-500-N	
3/4	18	1/2	1-1/16x12	0.609	15.5	1-1/8	1.89	48.0	1.35	34.3	FLFE-750-500-N	FLFE-18-500-N	
3/4	18	3/4	1-1/16x12	0.609	15.5	1-3/8	1.89	48.0	1.36	34.5	FLFE-750-750-N	FLFE-18-750-N	
7/8	20	3/4	1-3/16x12	0.719	18.3	1-3/8	1.86	47.2	1.42	36.1	FLFE-875-750-N	FLFE-20-750-N	
1	25	1	1-5/16x12	0.844	21.5	1-5/8	2.17	55.1	1.63	41.4	FLFE-1000-1000-N	FLFE-25-1000-N	

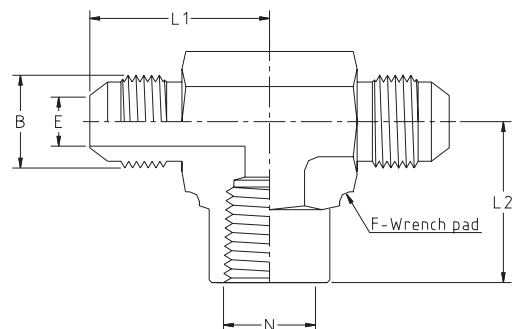
Dimensions are for reference only, and are subject to change without notice.

37° FLARE FEMALE BRANCH TEE

Flare Tube end to Female Pipe end SAE 070427

PART NUMBER INFORMATION: FLFBT – Body only

FLAFBT – Assembled Fitting (Body, Sleeve & Nut)



T Tube OD		N-NPT female pipe	B	Dimensions								Part No.	
				E		F		L1		L2			
inch	mm	Size	UNF	inch	mm	inch	inch	mm	inch	mm	Inch	Metric	
1/8	-	1/8	5/16x24	0.062	1.6	9/16	1	25.4	0.66	16.8	FLFBT-125-125-N	-	
3/16	-	1/8	3/8x24	0.125	3.2	9/16	1.03	26.2	0.66	16.8	FLFBT-187-125-N	-	
1/4	6	1/8	7/16x20	0.172	4.4	9/16	1.08	27.7	0.66	16.8	FLFBT-250-125-N	FLFBT-6-125-N	
1/4	6	1/4	7/16x20	0.172	4.4	3/4	1.22	30.9	0.88	22.4	FLFBT-250-250-N	FLFBT-6-250-N	
5/16	8	1/8	1/2x20	0.234	6.0	9/16	1.08	27.4	0.66	16.8	FLFBT-312-125-N	FLFBT-8-125-N	
5/16	8	1/4	1/2x20	0.234	6.0	3/4	1.13	28.7	0.88	22.4	FLFBT-312-250-N	FLFBT-8-250-N	
3/8	10	1/8	9/16x18	0.297	7.5	5/8	1.23	31.2	0.67	17.0	FLFBT-375-125-N	FLFBT-10-125-N	
3/8	10	1/4	9/16x18	0.297	7.5	3/4	1.23	31.2	0.88	22.4	FLFBT-375-250-N	FLFBT-10-250-N	
3/8	10	3/8	9/16x18	0.297	7.5	7/8	1.31	33.2	1.02	25.9	FLFBT-375-375-N	FLFBT-10-375-N	
1/2	12	1/4	3/4x16	0.391	9.9	13/16	1.42	36.1	1.02	25.9	FLFBT-500-250-N	FLFBT-12-250-N	
1/2	12	3/8	3/4x16	0.391	9.9	7/8	1.42	36.1	1.02	25.9	FLFBT-500-375-N	FLFBT-12-375-N	
1/2	12	1/2	3/4x16	0.391	9.9	1-1/16	1.52	38.6	1.23	31.2	FLFBT-500-500-N	FLFBT-12-500-N	
5/8	16	1/2	7/8x14	0.484	12.3	1-1/16	1.64	41.7	1.23	31.2	FLFBT-625-500-N	FLFBT-16-500-N	
3/4	18	1/2	1-1/16x12	0.609	15.5	1-1/8	1.89	48.0	1.35	34.3	FLFBT-750-500-N	FLFBT-18-500-N	
3/4	18	3/4	1-1/16x12	0.609	15.5	1-3/8	1.89	48.0	1.36	34.5	FLFBT-750-750-N	FLFBT-18-750-N	
7/8	20	3/4	1-3/16x12	0.719	18.3	1-3/8	1.86	47.2	1.42	36.1	FLFBT-875-750-N	FLFBT-20-750-N	
1	25	1	1-5/16x12	0.844	21.5	1-5/8	2.17	55.1	1.63	41.4	FLFBT-1000-1000-N	FLFBT-25-1000-N	

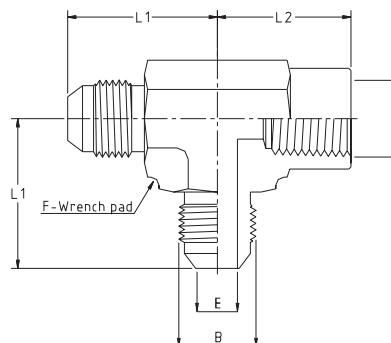
Dimensions are for reference only, and are subject to change without notice.

37° FLARE FEMALE RUN TEE

Flare Tube end to Female Pipe end SAE 070426

PART NUMBER INFORMATION: FLFRT – Body only

FLAFRT – Assembled Fitting (Body, Sleeve & Nut)



T Tube OD		N-NPT female pipe	B	Dimensions								Part No.	
				E		F	L1		L2				
inch	mm	Size	UNF	inch	mm	inch	inch	mm	inch	mm	Inch	Metric	
1/8	-	1/8	5/16x24	0.062	1.6	9/16	1	25.4	0.66	16.8	FLFRT-125-125-N	-	
3/16	-	1/8	3/8x24	0.125	3.2	9/16	1.03	26.2	0.66	16.8	FLFRT-187-125-N	-	
1/4	6	1/8	7/16x20	0.172	4.4	9/16	1.08	27.7	0.66	16.8	FLFRT-250-125-N	FLFRT-6-125-N	
1/4	6	1/4	7/16x20	0.172	4.4	3/4	1.22	30.9	0.88	22.4	FLFRT-250-250-N	FLFRT-6-250-N	
5/16	8	1/8	1/2x20	0.234	6.0	9/16	1.08	27.4	0.66	16.8	FLFRT-312-125-N	FLFRT-8-125-N	
5/16	8	1/4	1/2x20	0.234	6.0	3/4	1.13	28.7	0.88	22.4	FLFRT-312-250-N	FLFRT-8-250-N	
3/8	10	1/8	9/16x18	0.297	7.5	5/8	1.23	31.2	0.67	17.0	FLFRT-375-125-N	FLFRT-10-125-N	
3/8	10	1/4	9/16x18	0.297	7.5	3/4	1.23	31.2	0.88	22.4	FLFRT-375-250-N	FLFRT-10-250-N	
3/8	10	3/8	9/16x18	0.297	7.5	7/8	1.31	33.2	1.02	25.9	FLFRT-375-375-N	FLFRT-10-375-N	
1/2	12	1/4	3/4x16	0.391	9.9	13/16	1.42	36.1	1.02	25.9	FLFRT-500-250-N	FLFRT-12-250-N	
1/2	12	3/8	3/4x16	0.391	9.9	7/8	1.42	36.1	1.02	25.9	FLFRT-500-375-N	FLFRT-12-375-N	
1/2	12	1/2	3/4x16	0.391	9.9	1-1/16	1.52	38.6	1.23	31.2	FLFRT-500-500-N	FLFRT-12-500-N	
5/8	16	1/2	7/8x14	0.484	12.3	1-1/16	1.64	41.7	1.23	31.2	FLFRT-625-500-N	FLFRT-16-500-N	
3/4	18	1/2	1-1/16x12	0.609	15.5	1-1/8	1.89	48.0	1.35	34.3	FLFRT-750-500-N	FLFRT-18-500-N	
3/4	18	3/4	1-1/16x12	0.609	15.5	1-3/8	1.89	48.0	1.36	34.5	FLFRT-750-750-N	FLFRT-18-750-N	
7/8	20	3/4	1-3/16x12	0.719	18.3	1-3/8	1.86	47.2	1.42	36.1	FLFRT-875-750-N	FLFRT-20-750-N	
1	25	1	1-5/16x12	0.844	21.5	1-5/8	2.17	55.1	1.63	41.4	FLFRT-1000-1000-N	FLFRT-25-1000-N	

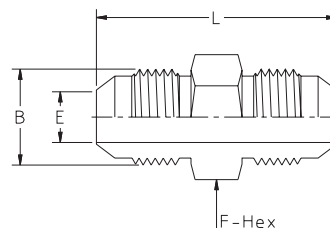
Dimensions are for reference only, and are subject to change without notice.

37° FLARE UNION

Flare Tube end to Flare Tube end SAE 070101

PART NUMBER INFORMATION: FLU – Body only

FLAU – Assembled Fitting (Body, Sleeve & Nut)



T Tube OD		B	Dimensions					Part No.	
			E		F	L			
inch	mm	UNF	inch	mm	inch	inch	mm	Inch	Metric
1/8	-	5/16x24	0.062	1.6	7/16	1.17	29.7	FLU-125	-
3/16	-	3/8x24	0.125	3.2	7/16	1.23	31.2	FLU-187	-
1/4	6	7/16x20	0.172	4.4	1/2	1.37	34.8	FLU-250	FLU-6
5/16	8	1/2x20	0.234	6.0	9/16	1.37	34.8	FLU-312	FLU-8
3/8	10	9/16x18	0.297	7.5	5/8	1.41	35.8	FLU-375	FLU-10
1/2	12	3/4x16	0.391	9.9	13/16	1.62	41.1	FLU-500	FLU-12
5/8	16	7/8x14	0.484	12.3	15/16	1.88	47.8	FLU-625	FLU-16
3/4	18	1-1/16x12	0.609	15.5	1-1/8	2.16	54.9	FLU-750	FLU-18
7/8	20	1-3/16x12	0.719	18.3	1-1/4	2.21	56.1	FLU-875	FLU-20
1	25	1-5/16x12	0.844	21.5	1-3/8	2.25	57.2	FLU-1000	FLU-25

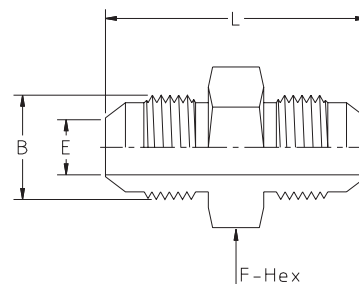
Dimensions are for reference only, and are subject to change without notice.

37° FLARE LARGE HEX UNION

Flare Tube end to Flare Tube end SAE 070119

PART NUMBER INFORMATION: FLLHU – Body only,

FLALHU – Assembled Fitting (Body, Sleeve & Nut)



T Tube OD		B	Dimensions					Part No.	
			E		F	L			
inch	mm	UNF	inch	mm	inch	inch	mm	Inch	Metric
1/8	-	5/16x24	0.062	1.6	9/16	1.17	29.7	FLLHU-125	-
3/16	-	3/8x24	0.125	3.2	5/8	1.23	31.2	FLLHU-187	-
1/4	6	7/16x20	0.172	4.4	11/16	1.37	34.8	FLLHU-250	FLLHU-6
5/16	8	1/2x20	0.234	6.0	3/4	1.37	34.8	FLLHU-312	FLLHU-8
3/8	10	9/16x18	0.297	7.5	13/16	1.41	35.8	FLLHU-375	FLLHU-10
1/2	12	3/4x16	0.391	9.9	1	1.62	41.1	FLLHU-500	FLLHU-12
5/8	16	7/8x14	0.484	12.3	1-1/8	1.88	47.8	FLLHU-625	FLLHU-16
3/4	18	1-1/16x12	0.609	15.5	1-3/8	2.16	54.9	FLLHU-750	FLLHU-18
7/8	20	1-3/16x12	0.719	18.3	1-1/2	2.21	56.1	FLLHU-875	FLLHU-20
1	25	1-5/16x12	0.844	21.5	1-5/8	2.25	57.2	FLLHU-1000	FLLHU-25

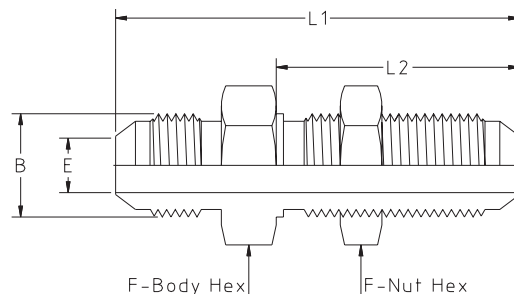
Dimensions are for reference only, and are subject to change without notice.

37° FLARE BULKHEAD UNION

Flare Tube end to Flare Tube end SAE 070601

PART NUMBER INFORMATION: FLBU – Body with Lock Nut

FLABU – Assembled Fitting (Body, Lock Nut, Sleeve & Nut)



T Tube OD		B	Dimensions								Part No.	
			E		F		L1		L2		Inch	Metric
inch	mm	UNF	inch	mm	inch	mm	inch	mm	inch	mm		
3/16	-	3/8x24	0.125	3.2	5/8	1.90	48.3	1.11	28.2		FLBU-187	-
1/4	6	7/16x20	0.172	4.4	11/16	2.07	52.6	1.20	30.5		FLBU-250	FLBU-6
5/16	8	1/2x20	0.234	6.0	3/4	2.07	52.6	1.20	30.5		FLBU-312	FLBU-8
3/8	10	9/16x18	0.297	7.5	13/16	2.18	55.4	1.28	32.5		FLBU-375	FLBU-10
1/2	12	3/4x16	0.391	9.9	1	2.44	62.0	1.44	36.6		FLBU-500	FLBU-12
5/8	16	7/8x14	0.484	12.3	1-1/8	2.74	69.6	1.58	40.1		FLBU-625	FLBU-16
3/4	18	1-1/16x12	0.609	15.5	1-3/8	3.09	78.5	1.75	44.4		FLBU-750	FLBU-18
7/8	20	1-3/16x12	0.719	18.3	1-1/2	3.12	79.2	1.75	44.4		FLBU-875	FLBU-20
1	25	1-5/16x12	0.844	21.5	1-5/8	3.14	79.8	1.75	44.4		FLBU-1000	FLBU-25

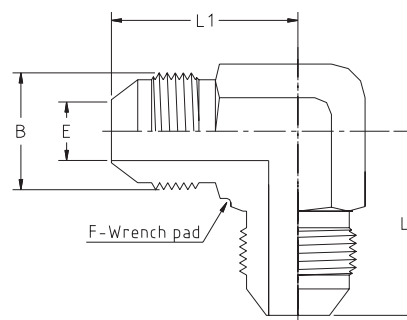
Dimensions are for reference only, and are subject to change without notice.

37° FLARE UNION ELBOW

Flare Tube end to Flare Tube end SAE 070201

PART NUMBER INFORMATION: FLUE – Body only

FLAUE – Assembled Fitting (Body, Sleeve & Nut)



T Tube OD		B	Dimensions						Part No.	
			E		F		L1		Inch	Metric
inch	mm	UNF	inch	mm	inch	mm	inch	mm		
1/8	-	5/16x24	0.062	1.6	3/8	0.77	19.6		FLUE-125	-
3/16	-	3/8x24	0.125	3.2	7/16	0.83	21.1		FLUE-187	-
1/4	6	7/16x20	0.172	4.4	1/2	0.89	22.6		FLUE-250	FLUE-6
5/16	8	1/2x20	0.234	6.0	9/16	0.95	24.1		FLUE-312	FLUE-8
3/8	10	9/16x18	0.297	7.5	5/8	1.06	26.9		FLUE-375	FLUE-10
1/2	12	3/4x16	0.391	9.9	13/16	1.25	31.8		FLUE-500	FLUE-12
5/8	16	7/8x14	0.484	12.3	15/16	1.45	36.8		FLUE-625	FLUE-16
3/4	18	1-1/16x12	0.609	15.5	1-1/8	1.66	42.2		FLUE-750	FLUE-18
7/8	20	1-3/16x12	0.719	18.3	1-1/4	1.73	43.9		FLUE-875	FLUE-20
1	25	1-5/16x12	0.844	21.5	1-3/8	1.81	46.0		FLUE-1000	FLUE-25

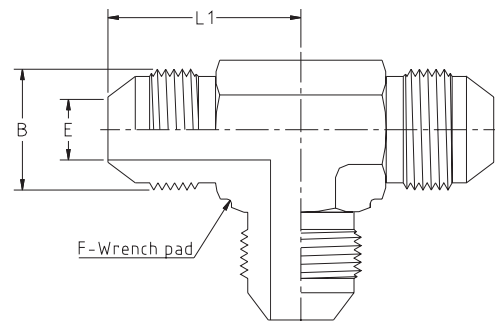
Dimensions are for reference only, and are subject to change without notice.

37° FLARE UNION TEE

Flare Tube end to Flare Tube end SAE 070401

PART NUMBER INFORMATION: FLUT – Body only

FLAUT – Assembled Fitting (Body, Sleeve & Nut)



T Tube OD		B	Dimensions					Part No.	
			E		F		L1		
inch	mm	UNF	inch	mm	inch	inch	mm	Inch	Metric
1/8	-	5/16x24	0.062	1.6	3/8	0.77	19.6	FLUT-125	-
3/16	-	3/8x24	0.125	3.2	7/16	0.83	21.1	FLUT-187	-
1/4	6	7/16x20	0.172	4.4	1/2	0.89	22.6	FLUT-250	FLUT-6
5/16	8	1/2x20	0.234	6.0	9/16	0.95	24.1	FLUT-312	FLUT-8
3/8	10	9/16x18	0.297	7.5	5/8	1.06	26.9	FLUT-375	FLUT-10
1/2	12	3/4x16	0.391	9.9	13/16	1.25	31.8	FLUT-500	FLUT-12
5/8	16	7/8x14	0.484	12.3	15/16	1.45	36.8	FLUT-625	FLUT-16
3/4	18	1-1/16x12	0.609	15.5	1-1/8	1.66	42.2	FLUT-750	FLUT-18
7/8	20	1-3/16x12	0.719	18.3	1-1/4	1.73	43.9	FLUT-875	FLUT-20
1	25	1-5/16x12	0.844	21.5	1-3/8	1.81	46.0	FLUT-1000	FLUT-25

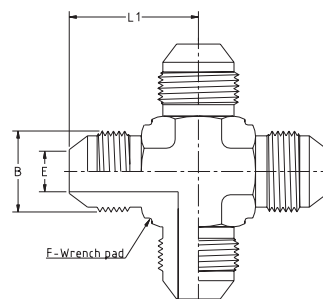
Dimensions are for reference only, and are subject to change without notice.

37° FLARE UNION CROSS

Flare Tube end to Flare Tube end SAE 070501

PART NUMBER INFORMATION: FLUC – Body only

FLAUC – Assembled Fitting (Body, Sleeve & Nut)



T Tube OD		B	Dimensions					Part No.	
			E		F		L1		
inch	mm	UNF	inch	mm	inch	inch	mm	Inch	Metric
1/8	-	5/16x24	0.062	1.6	3/8	0.77	19.6	FLUC-125	-
3/16	-	3/8x24	0.125	3.2	7/16	0.83	21.1	FLUC-187	-
1/4	6	7/16x20	0.172	4.4	1/2	0.89	22.6	FLUC-250	FLUC-6
5/16	8	1/2x20	0.234	6.0	9/16	0.95	24.1	FLUC-312	FLUC-8
3/8	10	9/16x18	0.297	7.5	5/8	1.06	26.9	FLUC-375	FLUC-10
1/2	12	3/4x16	0.391	9.9	13/16	1.25	31.8	FLUC-500	FLUC-12
5/8	16	7/8x14	0.484	12.3	15/16	1.45	36.8	FLUC-625	FLUC-16
3/4	18	1-1/16x12	0.609	15.5	1-1/8	1.66	42.2	FLUC-750	FLUC-18
7/8	20	1-3/16x12	0.719	18.3	1-1/4	1.73	43.9	FLUC-875	FLUC-20
1	25	1-5/16x12	0.844	21.5	1-3/8	1.81	46.0	FLUC-1000	FLUC-25

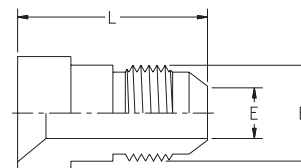
Dimensions are for reference only, and are subject to change without notice.

37° FLARE REDUCING ADAPTOR

Flare Tube end to Reduce size SAE 070123

PART NUMBER INFORMATION: FLRA – Body only

FLARA – Assembled Fitting (Body, Sleeve & Nut)



T Tube OD		B	Dimensions				Part No.	
			E		L			
inch	inch/mm	UNF	inch	mm	inch	mm	Inch	Metric
3/8 to 1/4:	3/8 to 6	7/16x20	0.172	4.4	0.97	24.6	FLRA-375-250	FLRA-375-6
1/2 to 1/4:	1/2 to 6	7/16x20	0.172	4.4	1.00	25.4	FLRA-500-250	FLRA-500-6
1/2 to 3/8:	1/2 to 10	9/16x18	0.297	7.5	1.00	25.4	FLRA-500-375	FLRA-500-10
5/8 to 1/4:	5/8 to 6	7/16x20	0.172	4.4	1.03	26.2	FLRA-625-250	FLRA-625-6
5/8 to 3/8:	5/8 to 10	9/16x18	0.297	7.5	1.03	26.2	FLRA-625-375	FLRA-625-10
5/8 to 1/2:	5/8 to 12	3/4x16	0.391	9.9	1.44	36.5	FLRA-625-500	FLRA-625-12
3/4 to 1/4:	3/4 to 06	7/16x20	0.172	4.4	1.09	27.7	FLRA-750-250	FLRA-750-6
3/4 to 3/8:	3/4 to 10	9/16x18	0.297	7.5	1.09	27.7	FLRA-750-375	FLRA-750-10
3/4 to 1/2:	3/4 to 12	3/4x16	0.391	9.9	1.19	30.2	FLRA-750-500	FLRA-750-12
3/4 to 5/8:	3/4 to 16	7/8x14	0.484	12.3	1.66	42.1	FLRA-750-625	FLRA-750-16
7/8 to 3/8:	7/8 to 10	9/16x18	0.297	7.5	1.13	28.7	FLRA-875-375	FLRA-875-10
7/8 to 5/8:	7/8 to 16	7/8x14	0.484	12.3	1.33	33.7	FLRA-875-625	FLRA-875-16
7/8 to 3/4:	7/8 to 18	1-1/16x12	0.609	15.5	1.84	46.7	FLRA-875-750	FLRA-875-18
1 to 3/4:	01 to 18	1-1/16x12	0.609	15.5	1.47	37.3	FLRA-1000-750	FLRA-1000-18
1 to 7/8:	01 to 20	1-3/16x12	0.719	18.3	1.91	48.5	FLRA-1000-875	FLRA-1000-20

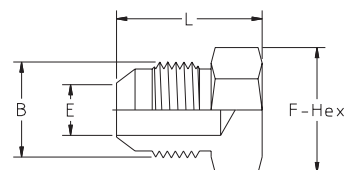
Dimensions are for reference only, and are subject to change without notice.

37° FLARE PLUG

Flare Tube end SAE 070109

PART NUMBER INFORMATION: FLP – Body only

FLAP – Assembled Fitting (Body, Sleeve & Nut)



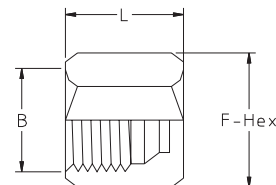
T Tube OD		B	Dimensions					Part No.	
			E		F		L		
inch	mm	UNF	inch	mm	inch	mm	inch	mm	
1/8	-	5/16x24	0.062	-	7/16	0.70	-	-	FLP-125
3/16	-	3/8x24	0.125	-	1/2	0.73	-	-	FLP-187
1/4	6	7/16x20	0.172	4.4	1/2	0.80	20.3	-	FLP-250
5/16	8	1/2x20	0.234	6.0	9/16	0.80	20.3	-	FLP-312
3/8	10	9/16x18	0.297	7.5	5/8	0.84	21.3	-	FLP-375
1/2	12	3/4x16	0.391	9.9	13/16	0.94	23.9	-	FLP-500
5/8	16	7/8x14	0.484	12.3	15/16	1.10	27.9	-	FLP-625
3/4	18	1-1/16x12	0.609	15.5	1-1/8	1.28	32.5	-	FLP-750
7/8	20	1-3/16x12	0.719	18.3	1-1/4	1.31	33.3	-	FLP-875
1	25	1-5/16x12	0.844	21.5	1-3/8	1.33	33.8	-	FLP-1000

Dimensions are for reference only, and are subject to change without notice.

37° FLARE TUBE CAP

Flare Tube end cap SAE 070112

PART NUMBER INFORMATION: FLTC – Cap only

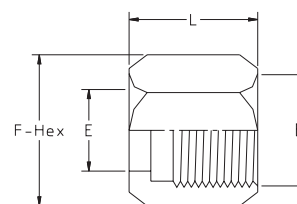
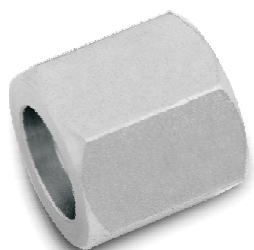


T Tube OD		B	Dimensions			Part No.	
inch	mm		F	L		Inch	Metric
1/8	-	5/16x24	3/8	0.550	-	FLTC-125	-
3/16	-	3/8x24	7/16	0.562	-	FLTC-187	-
1/4	6	7/16x20	9/16	0.594	15.1	FLTC-250	FLTC-6
5/16	8	1/2x20	5/8	0.609	15.5	FLTC-312	FLTC-8
3/8	10	9/16x18	11/16	0.625	15.9	FLTC-375	FLTC-10
1/2	12	3/4x16	7/8	0.750	19.0	FLTC-500	FLTC-12
5/8	16	7/8x14	1	0.844	21.4	FLTC-625	FLTC-16
3/4	18	1-1/16x12	1-1/4	0.906	23.0	FLTC-750	FLTC-18
7/8	20	1-3/16x12	1-3/8	0.969	24.6	FLTC-875	FLTC-20
1	25	1-5/16x12	1-1/2	1.016	25.8	FLTC-1000	FLTC-25

Dimensions are for reference only, and are subject to change without notice.

37° FLARE TUBE END NUT SAE 070110

PART NUMBER INFORMATION: FLN – Nut only

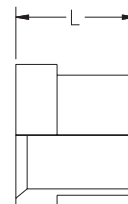


T Tube OD		B	Dimensions			Part No.	
inch	mm	UNF	F	L		Inch	Metric
1/8	-	5/16x24	3/8	0.54	-	FLN-125	-
3/16	-	3/8x24	7/16	0.60	-	FLN-187	-
1/4	6	7/16x20	9/16	0.61	15.5	FLN-250	FLN-6
5/16	8	1/2x20	5/8	0.67	17.0	FLN-312	FLN-8
3/8	10	9/16x18	11/16	0.72	18.3	FLN-375	FLN-10
1/2	12	3/4x16	7/8	0.84	21.3	FLN-500	FLN-12
5/8	16	7/8x14	1	0.97	24.6	FLN-625	FLN-16
3/4	18	1-1/16x12	1-1/4	1.02	25.9	FLN-750	FLN-18
7/8	20	1-3/16x12	1-3/8	1.08	27.4	FLN-875	FLN-20
1	25	1-5/16x12	1-1/2	1.12	28.4	FLN-1000	FLN-25

Dimensions are for reference only, and are subject to change without notice.

37° FLARE TUBE END SLEEVE SAE 070115

PART NUMBER INFORMATION: SL – Sleeve only

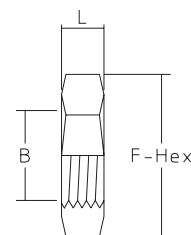


T Tube OD		Dimensions		Part No.	
inch	mm	L		Inch	Metric
		inch	mm		
1/8	-	0.34	-	SL-125	-
3/16	-	0.34	-	SL-187	-
1/4	6	0.41	10.4	SL-250	SL-6
5/16	8	0.44	11.2	SL-312	SL-8
3/8	10	0.50	12.7	SL-375	SL-10
1/2	12	0.56	14.2	SL-500	SL-12
5/8	16	0.66	16.8	SL-625	SL-16
3/4	18	0.68	17.3	SL-750	SL-18
7/8	20	0.76	19.3	SL-875	SL-20
1	25	0.78	19.8	SL-1000	SL-25

Dimensions are for reference only, and are subject to change without notice.

BULKHEAD FITTING LOCK NUT SAE 070118

PART NUMBER INFORMATION: FLBLN – Lock Nut only



T Tube OD		B	Dimensions			Part No.	
inch	mm		F	L		Inch	Metric
		UNF	inch	inch	mm		
3/16	-	3/8x24	5/8	0.22	-	FLBLN-187	-
1/4	6	7/16x20	11/16	0.25	6.4	FLBLN-250	FLBLN-6
5/16	8	1/2x20	3/4	0.25	6.4	FLBLN-312	FLBLN-8
3/8	10	9/16x18	13/16	0.27	6.9	FLBLN-375	FLBLN-10
1/2	12	3/4x16	1	0.31	7.9	FLBLN-500	FLBLN-12
5/8	16	7/8x14	1-1/8	0.36	9.1	FLBLN-625	FLBLN-16
3/4	18	1-1/16x12	1-3/8	0.41	10.4	FLBLN-750	FLBLN-18
7/8	20	1-3/16x12	1-1/2	0.41	10.4	FLBLN-875	FLBLN-20
1	25	1-5/16x12	1-5/8	0.41	10.4	FLBLN-1000	FLBLN-25

Dimensions are for reference only, and are subject to change without notice.

WEIGHT CONVERSION

Pounds to Kilograms (1 Pounds = 0.4536 Kilogram)

Pounds	0	1	2	3	4	5	6	7	8	9
0	0.00	0.45	0.91	1.35	1.81	2.27	2.72	3.18	3.63	4.08
10	4.54	4.99	5.44	5.90	6.35	6.80	7.26	7.71	8.16	8.62
20	9.07	9.53	9.98	10.43	10.89	11.34	11.79	12.25	12.70	13.15
30	13.61	14.06	14.52	14.97	15.42	15.88	16.33	16.78	17.24	17.69
40	18.14	18.60	19.05	19.50	19.96	20.41	20.87	21.32	21.77	22.23
50	22.68	23.13	23.59	24.04	24.49	24.95	25.40	25.86	26.31	26.76
60	27.22	27.67	28.12	28.58	29.03	29.48	29.94	30.39	30.84	31.30
70	31.75	32.21	32.66	33.11	33.57	34.02	34.47	34.93	35.38	35.83
80	36.29	36.74	37.20	37.65	38.10	38.56	39.01	39.46	39.92	40.37
90	40.82	41.28	41.73	42.18	42.64	43.09	43.55	44.00	44.45	44.91

Kilograms to Pounds (1 Kilogram = 2.2046 Pounds)

Kilograms	0	1	2	3	4	5	6	7	8	9
0	0.00	2.20	4.41	6.61	8.82	11.02	13.23	15.43	17.64	19.84
10	22.05	24.25	26.46	28.66	30.86	33.07	35.27	37.48	39.68	41.89
20	44.09	46.30	48.50	50.71	52.91	55.12	57.32	59.52	61.73	63.93
30	66.14	68.34	70.55	72.75	74.96	77.16	79.37	81.57	83.77	85.98
40	88.18	90.38	92.59	94.80	97.00	99.21	101.41	103.62	105.82	108.03
50	110.23	112.43	114.64	116.84	119.05	121.25	123.46	125.66	127.87	130.07
60	132.28	134.48	136.69	138.89	141.09	143.30	145.50	147.71	149.91	152.12
70	154.32	156.53	158.73	160.94	163.14	165.35	167.55	169.75	171.96	174.16
80	176.37	178.57	180.78	182.98	185.19	187.39	189.60	191.80	194.00	196.21
90	198.41	200.62	202.82	205.03	207.23	209.44	211.64	213.85	216.05	218.26

PRESSURE CONVERSION

Bar to Pounds per square inch (1 Bar = 10^5 Pa = 14.5 Pounds per square inch)

1 to 20		21 to 40		41 to 60		61 to 80		81 to 100	
Bar	Lbs. Per Sq. Inch	Bar	Lbs. Per Sq. Inch	Bar	Lbs. Per Sq. Inch	Bar	Lbs. Per Sq. Inch	Bar	Lbs. Per Sq. Inch
1	14.5	21	304.5	41	594.5	61	884.5	81	1174.5
2	29.0	22	319.0	42	609.0	62	899.0	82	1189.0
3	43.5	23	333.5	43	623.5	63	913.5	83	1203.5
4	58.0	24	348.0	44	638.0	64	928.0	84	1218.0
5	72.5	25	362.5	45	652.5	65	942.5	85	1232.5
6	87.0	26	377.0	46	667.0	66	957.0	86	1247.0
7	101.5	27	391.5	47	681.5	67	971.5	87	1261.5
8	116.0	28	406.0	48	696.0	68	986.0	88	1276.0
9	130.5	29	420.5	49	710.5	69	1000.5	89	1290.5
10	145.0	30	435.0	50	725.0	70	1015.0	90	1305.0
11	159.5	31	449.5	51	739.5	71	1029.5	91	1319.5
12	174.0	32	464.0	52	754.0	72	1044.0	92	1334.0
13	188.5	33	478.5	53	768.5	73	1058.5	93	1348.5
14	203.0	34	493.0	54	783.0	74	1073.0	94	1363.0
15	217.5	35	507.5	55	797.5	75	1087.5	95	1377.5
16	232.0	36	522.0	56	812.0	76	1102.0	96	1392.0
17	246.5	37	536.5	57	826.5	77	1116.5	97	1406.5
18	261.0	38	551.0	58	841.0	78	1131.0	98	1421.0
19	275.5	39	565.5	59	855.5	79	1145.5	99	1435.5
20	290.0	40	580.0	60	870.0	80	1160.0	100	1450.0

TEMPERATURE CONVERSION

Celcius (C) to Fahrenheit (F) - Fahrenheit (F) to Celcius (C)

-459.4° to 0°			1° to 60°			61° to 290°			300° to 890°			900° to 3000°		
C	CEL. OR FAH.	F	C	CEL. OR FAH.	F	C	CEL. OR FAH.	F	C	CEL. OR FAH.	F	C	CEL. OR FAH.	F
-273	-459.4		-17.2	1	33.8	16.1	61	141.8	149	300	572	482	900	1652
-268	-450		-16.7	2	35.6	16.7	62	143.6	154	310	590	488	910	1670
-262	-440		-16.1	3	37.4	17.2	63	145.4	160	320	608	493	920	1688
-257	-430		-15.6	4	39.2	17.8	64	147.2	166	330	626	499	930	1706
-251	-420		-15.0	5	41.0	18.3	65	149.0	171	340	644	504	940	1724
-246	-410		-14.4	6	42.8	18.9	66	150.8	177	350	662	510	950	1742
-240	-400		-13.9	7	44.6	19.4	67	152.6	182	360	680	516	960	1760
-234	-390		-13.3	8	46.4	20.0	68	154.4	188	370	698	521	970	1778
-229	-380		-12.8	9	48.2	20.6	69	156.2	193	380	716	527	980	1796
-223	-370		-12.2	10	50.0	21.1	70	158.0	199	390	734	532	990	1814
-218	-360		-11.7	11	51.8	21.7	71	159.8	204	400	752	538	1000	1832
-212	-350		-11.1	12	53.6	22.2	72	161.6	210	410	770	549	1020	1868
-207	-340		-10.6	13	55.4	22.8	73	163.4	215	420	788	560	1040	1904
-201	-330		-10.0	14	57.2	23.3	74	165.2	221	430	806	571	1060	1940
-196	-320		-9.4	15	59.0	23.9	75	167.0	227	440	824	582	1080	1976
-190	-310		-8.9	16	60.8	24.4	76	168.8	232	450	842	593	1100	2012
-184	-300		-8.3	17	62.6	25.0	77	170.6	238	460	860	604	1120	2048
-179	-290		-7.8	18	64.4	25.6	78	172.4	243	470	878	616	1140	2084
-173	-280		-7.2	19	66.2	26.1	79	174.2	249	480	896	627	1160	2120
-169	-273	-459.4	-6.7	20	68.0	26.7	80	176.0	254	490	914	638	1180	2156
-168	-270	-454	-6.1	21	69.8	27.2	81	177.8	260	500	932	649	1200	2192
-162	-260	-436	-5.6	22	71.6	27.8	82	179.6	266	510	950	660	1220	2228
-157	-250	-418	-5.0	23	73.4	28.3	83	181.4	271	520	968	671	1240	2264
-151	-240	-400	-4.4	24	75.2	28.9	84	183.2	277	530	986	682	1260	2300
-146	-230	-382	-3.9	25	77.0	29.4	85	185.0	282	540	1004	693	1280	2336
-140	-220	-364	-3.3	26	78.8	30.0	86	186.8	288	550	1022	704	1300	2372
-134	-210	-346	-2.8	27	80.6	30.6	87	188.6	293	560	1040	732	1350	2462
-129	-200	-328	-2.2	28	82.4	31.1	88	190.4	299	570	1058	760	1400	2552
-123	-190	-310	-1.7	29	84.2	31.7	89	192.2	304	580	1076	788	1450	2642
-118	-180	-292	-1.1	30	86.0	32.2	90	194.0	310	590	1094	816	1500	2732
-112	-170	-274	-0.6	31	87.8	32.8	91	195.8	316	600	1112	843	1550	2822
-107	-160	-256	0.0	32	89.6	33.3	92	197.6	321	610	1130	871	1600	2912
-101	-150	-238	0.6	33	91.4	33.9	93	199.4	327	620	1148	899	1650	3002
-96	-140	-220	1.1	34	93.2	34.4	94	201.2	332	630	1166	927	1700	3092
-90	-130	-202	1.7	35	95.0	35.0	95	203.0	338	640	1184	954	1750	3182
-84	-120	-184	2.2	36	96.8	35.6	96	204.8	343	650	1202	982	1800	3272
-79	-110	-166	2.8	37	98.6	36.1	97	206.6	349	660	1220	1010	1850	3362
-73	-100	-148	3.3	38	100.4	36.7	98	208.4	354	670	1238	1038	1900	3452
-68	-90	-130	3.9	39	102.2	37.2	99	210.2	360	680	1256	1066	1950	3542
-62	-80	-112	4.4	40	104.0	37.8	100	212.0	366	690	1274	1093	2000	3632
-57	-70	-94	5.0	41	105.8	43	110	230	371	700	1292	1121	2050	3722
-51	-60	-76	5.6	42	107.6	49	120	248	377	710	1310	1149	2100	3812
-46	-50	-58	6.1	43	109.4	54	130	266	382	720	1328	1177	2150	3902
-40	-40	-40	6.7	44	111.2	60	140	284	388	730	1346	1204	2200	3992
-34	-30	-22	7.2	45	113.0	66	150	302	393	740	1364	1232	2250	4082
-29	-20	-4	7.8	46	114.8	71	160	320	399	750	1382	1260	2300	4172
-23	-10	14	8.3	47	116.6	77	170	338	404	760	1400	1288	2350	4262
-17.8	0	32	8.9	48	118.4	82	180	356	410	770	1418	1316	2400	4352
			9.4	49	120.2	88	190	374	416	780	1436	1343	2450	4442
			10.0	50	122.0	93	200	392	421	790	1454	1371	2500	4532
			10.6	51	123.8	99	210	410	427	800	1472	1399	2550	4622
			11.1	52	125.6	100	212	413.6	432	810	1490	1427	2600	4712
			11.7	53	127.4	104	220	428	438	820	1508	1454	2650	4802
			12.2	54	129.2	110	230	446	443	830	1526	1482	2700	4892
			12.8	55	131.0	116	240	464	449	840	1544	1510	2750	4982
			13.3	56	132.8	121	250	482	454	850	1562	1538	2800	5072
			13.9	57	134.6	127	260	500	460	860	1580	1566	2850	5162
			14.4	58	136.4	132	270	518	466	870	1598	1593	2900	5252
			15.0	59	138.2	138	280	536	471	880	1616	1621	2950	5342
			15.6	60	140.0	143	290	554	477	890	1634	1649	3000	5432

Locate temperature in middle column. If in degree Celcius, read Fahrenheit equivalent in right hand column:
If in degrees Fahrenheit, read Celcius equivalent in left hand column.

Conversion Formulas $C = \frac{5}{9} (F-32)$, $F = \frac{9}{5} C + 32$



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