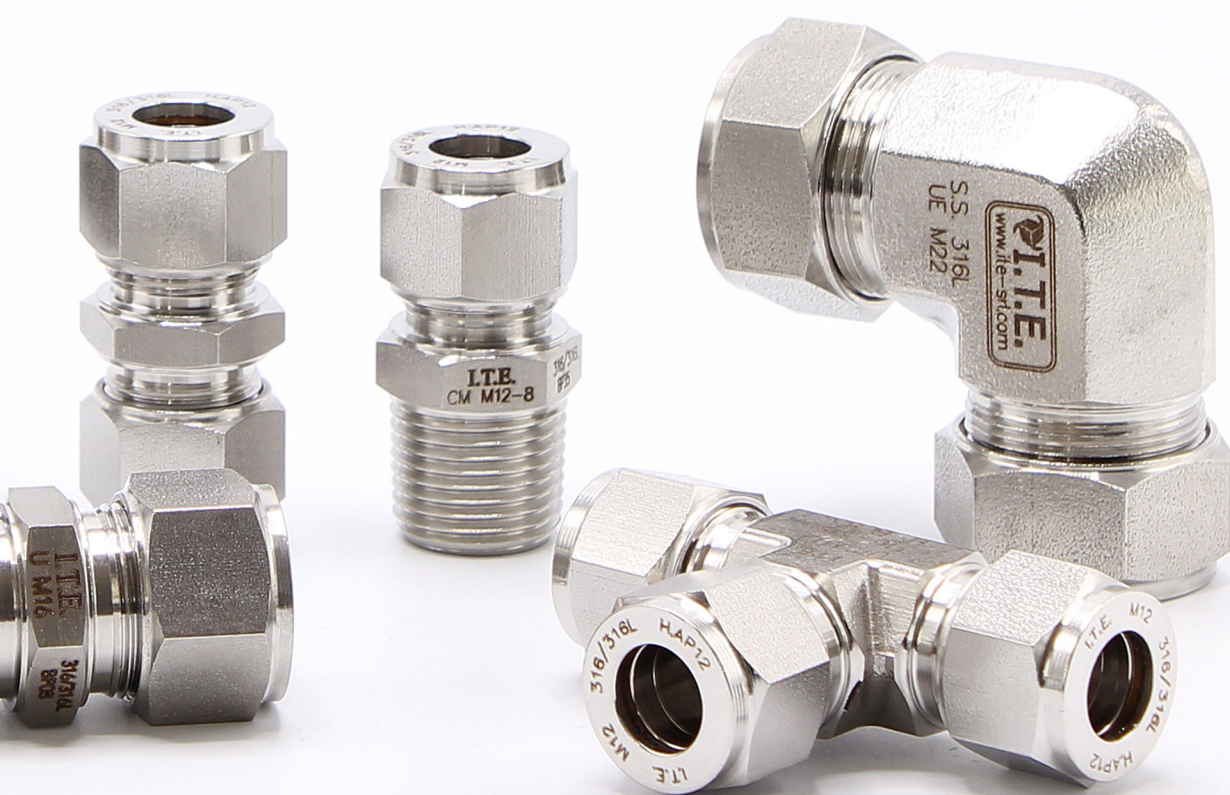


COMPRESSION FITTINGS



ITE.
INDUSTRIAL TECHNICAL EQUIPMENT

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FEATURES

ITE Compression Fittings are designed as leak-free connections for process, power and instrumentation applications. Double ferrule fittings are manufactured to the highest quality standards and are available in different range of sizes, materials and configurations. Compression Fittings are specifically designed and used in different sectors, such as: chemical, petrochemical, power generating, pulp & paper plants.

STANDARD FEATURES

Torque

During tightening, ITE connection does not transmit a twist to the pipe. ITE's compression fitting construction principle ensures that all loads generated during tightening operations are transmitted axially to the pipe. The tightening of the fitting is facilitated by the silver carry-over on the internal thread of the nut, which effectively behaves like a lubricant and prevents seizing.

No distortion

During assembling operations, no forces are generated which can distort the body of the fitting or create interference between the rings and the nut this ensures that the nut can retreat into the disassembly of the fitting and that the fitting can be reassembled a large number of times.

Sealing

ITE's know-how has been increased through many years of experience, so that today ITE can provide effective sealing of its compression fittings supported by different testing activities performed with Helium over 200 bar & Fatigue resistance through vibration and impulse tests on several cycle.

Compression fittings are suitable in combination with a variety of ISO and ANSI pipe thread configurations.

MATERIAL

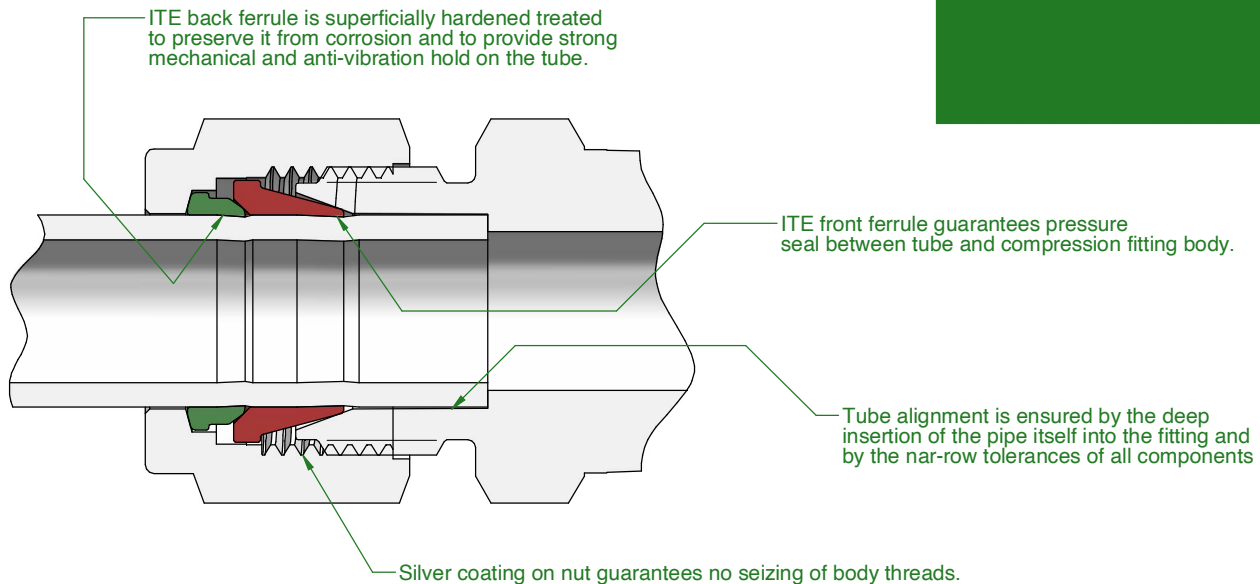
ITE compression fittings are available with heat code traceable and 316 stainless steel material as standard. Special materials: brass, aluminum, nickel-copper, Hastelloy C®, Alloy 600, Titanium, 6Mo, Incoloy 625 and 825, available on request. Straight fittings are machined from cold finished bar stock and shaped bodies are machined from close grain forgings.

MATERIAL GROUP	ITE DESIGNATION	BAR STOCK FITTINGS	FORGED FITTINGS	AVAILABILITY ON STOCK
Stainless Steel	316/316L	ASTM A479/A276 TP 316/316L	ASTM A182 TP 316/316L	YES
	316/316L	DIN 1.4401 - X5 CrNi Mo 1810	DIN 1.4401-X5 CrNi Mo 1810	YES
	316/316L	UNI 6900 - X5 CrNi Mo 1712	UNI 6900 - X5 CrNi Mo 1712	YES
Ferritic Stainless Steel	6Mo	UNS 31254	UNS 31254	ON REQUEST
	Superduplex	UNS S32760/F55	UNS S32760/F55	YES
Brass	CA345	ASTM B16 ALLOY 360	ASTM B124 ALLOY 377	ON REQUEST
	CA360	ASTM B453 ALLOY 345	ASTM B124 ALLOY 377	ON REQUEST
Alloy	Alloy 400	ASTM B164	ASTM B164	YES
	Alloy C276	ASTM B574	ASTM B574	ON REQUEST
	Alloy 600	ASTM B166	ASTM B564	ON REQUEST
	Alloy 825	ASTM B425	ASTM B425	ON REQUEST



ITE compression fittings consist of precision engineered parts designed to provide secure leak-proof joints capable of satisfying high pressure, vacuum and vibration applications. **ITE Compression Fittings are supplied complete and ready for use.**

FEATURES



ASSEMBLY & REMAKE INSTRUCTIONS

1



ASSEMBLY

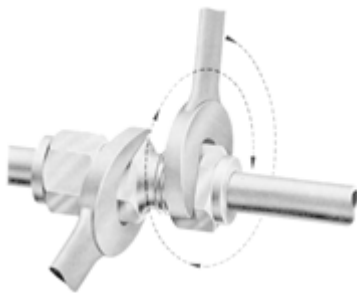
Ensure that the end of the tube is cut square and any burrs removed without causing undue chamfering of the tube end.

Insert the tube into a ITE fitting ensuring that the tube is placed inside into the body fitting and the nut is handly tight. (Fig.1)

Holding the body firmly, mark the starting point of the nut in the hand-tightened position and turn the nut by one turn and a quarter. (Fig.2)

For size up to 3/16" and 4 mm tube fittings only three quarters of a turn from the hand-tightened position.

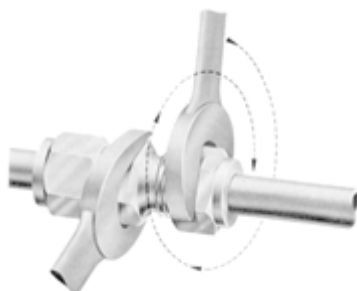
2



REMAKE

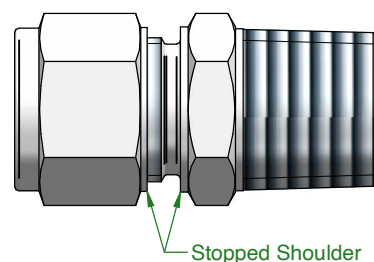
For maximum number of remakes, mark the fitting and nut before disassembly. Before retightening, make sure the assembly has been inserted into the fitting until the ferrule seats in the fitting. Retighten the nut by hand. Rotate the nut with a wrench to the original position as indicated by the previous marks lining up. (A noticeable increase in mechanical resistance will be felt indicating the ferrule is being re-sprung into sealing position). Only after several remakes will it become necessary to advance the nut slightly past the original position.

3



FEATURES

HOW TO IDENTIFY METRIC FITTINGS



Metric tube fittings are identified by a step machining realized on body and on nut threaded surface

TUBE SELECTION

ITE fittings are designed and manufactured in strict compliance with the most common standards. A careful selection of a high quality pipe, together with the appropriate ITE connector, will ensure the realization of a safe and leakage-free system. Following tables are intended as a guide for selecting the tube to be used. The listed pipe sizes, in the minimum and maximum thicknesses, are regularly tested at burst pressure in combination with properly fitted ITE fittings. No leakages detected on connection points. The tubes shall be fully annealed and comply with ASTM A269 or equivalent. Recommended hardness is 80 Rb and should never exceed 90 Rb as required by ASTM A269.

Tube diam. (mm)	Metric Tube - Tube thickness (mm)						
	0,5	0,7	1	1,5	2	2,5	3
2	700						
3	450	660					
4	275	480	685				
6	205	310	515	725			
8	170	225	410	530			
10	130	180	310	490			
12	105	150	245	375	480		
14			195	340	390		
15			170	280	365		
16			160	245	350		

Tube diam. (Inch)	Imperial tube - Tube thickness (inch)							
	.010	.012	.028	.036	.048	.064	.080	.104
1/16	385	465						
1/8			640	865				
1/4			345	515	600	805		
5/16			265	315	465	635		
3/8			205	275	380	515		
1/2			170	205	275	380	480	
5/8				155	205	375	380	450
3/4				120	170	240	310	380
7/8				105	140	195	245	300
1				85	120	170	225	240

Above Table is referred to pressure tests performed on tube according to: ASTM A-269 – Temperature - 20°C / + 100°C - Safety factor 4:1

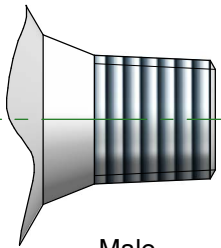
For Working pressure of Monel tubing, multiply above ratings by 0,8 of above table



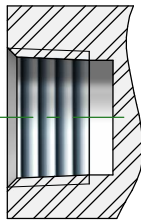
I.T.E. manufactures a lot of different connections and combinations. Below are some of the most used. If you don't find your option please contact us.

CONNECTIONS

TAPERED PIPE THREADS



Male

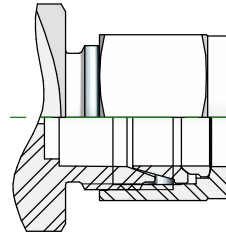


Female

NPT threads acc. to.
ASME B 1.20.1

BSPT threads acc. to.
ISO 7/1

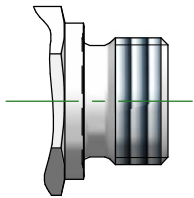
TWIN FERRULE TUBE FITTINGS



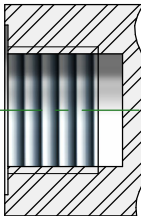
The direct pipe connection
is available in both metric
and inch sizes.

All components are made
by I.T.E. s.r.l.

PARALLEL PIPE THREADS (1) (2)



Male

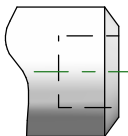


Female

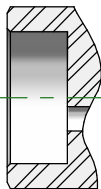
BSPP threads acc. to.
ISO 228-1
ISO 1179-1

Metric threads acc. to.
ISO 261

WELD ENDS



Male



Female

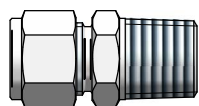
Butt weld (male)
acc. to.
ASME B16.9

Socket Weld
(female)
acc. to. ASME
B16.11

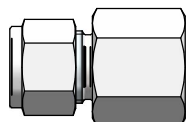


COMPRESSION FITTINGS - VISUAL INDEX

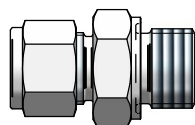
CONNECTORS



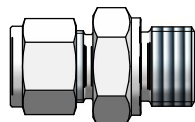
CM - MALE CONNECTOR
PAGE: 12-13



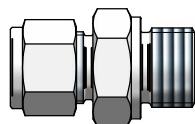
CF - FEMALE CONNECTOR
PAGE: 14-15



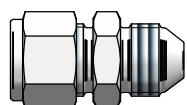
COM - O-RING CONNECTOR - BSP
PAGE: 33



CMI - ETCHING CONNECTOR - BSP
PAGE: 35

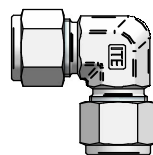


COS - METALLIC SEAL CONNECTOR - BSP
PAGE: 34

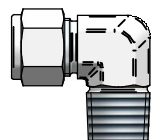


CS - 37° FLARE CONNECTOR
PAGE: 39

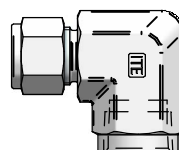
ELBOW AND CROSSES



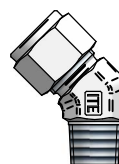
UE - UNION ELBOW CONNECTOR
PAGE: 18



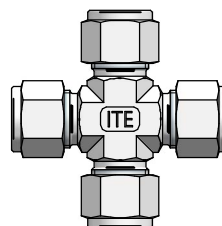
EM - MALE ELBOW CONNECTOR
PAGE: 19 - 20



EF - FEMALE ELBOW CONNECTOR
PAGE: 21

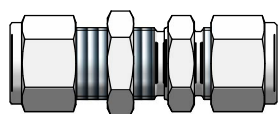


E45M - MALE ELBOW 45° CONNECTOR
PAGE: 36

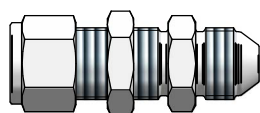


UC - UNION CROSS CONNECTOR
PAGE: 26

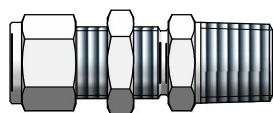
BULKHEAD



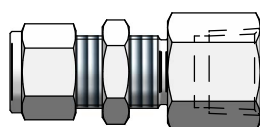
BU - UNION
BULKHEAD CONNECTOR
PAGE: 22



BUS - 37° FLARE
BULKHEAD CONNECTOR
PAGE: 40

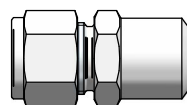


BCM - MALE
BULKHEAD CONNECTOR
PAGE: 23

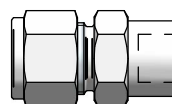


BCF - FEMALE
BULKHEAD CONNECTOR
PAGE: 24

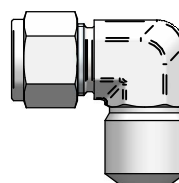
WELD END FITTINGS



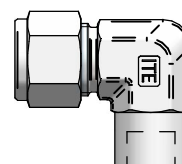
CB - BUTTWELD
CONNECTOR
PAGE: 38



CW - SOCKET WELD
CONNECTOR
PAGE: 37



EB - BUTTWELD ELBOW
CONNECTOR
PAGE: 39

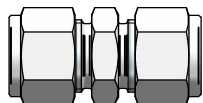


EW - SOCKET WELD ELBOW
CONNECTOR
PAGE: 37

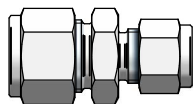


COMPRESSION FITTINGS - VISUAL INDEX

UNIONS

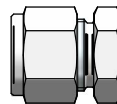


U - UNION
PAGE: 16



RU - REDUCTION UNION
PAGE: 17

PLUGS AND CAPS

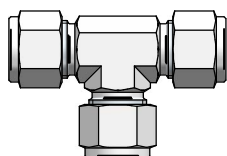


C - CAP FOR TUBE
PAGE: 49

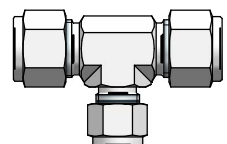


P - PLUG FOR FITTINGS
PAGE: 48

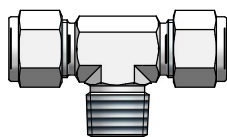
TEES AND CROSSES



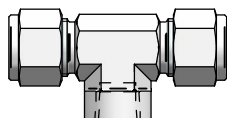
UT - UNION TEE
PAGE: 25



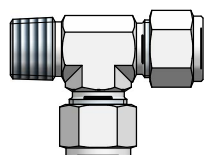
UTR - REDUCING UNION TEE
PAGE: 31-32



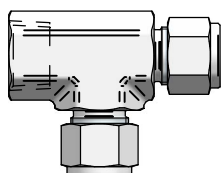
BTM - MALE BRANCH TEE
PAGE: 27



BTF - FEMALE BRANCH TEE
PAGE: 28

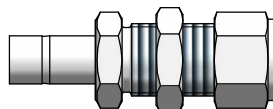


RTM - MALE RUN TEE
PAGE: 29

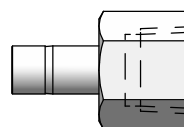


RTF - FEMALE RUN TEE
PAGE: 30

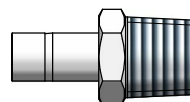
ADAPTERS



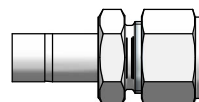
BA - BULKHEAD ADAPTER
PAGE: 40



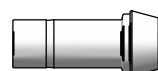
AF - FEMALE ADAPTER
PAGE: 45-46



AM - MALE ADAPTER
PAGE: 43-44

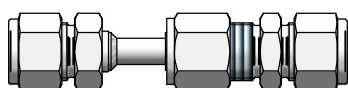


R - REDUCER
PAGE: 41-42



PC - REDUCER
PAGE: 47

DIELECTRIC FITTINGS



DF - DIELECTRIC FITTING
PAGE: 54-55

SPARE PARTS



N - NUT
PAGE: 51



FB - BACK FERRULE
PAGE: 50



FF - FRONT FERRULE
PAGE: 50



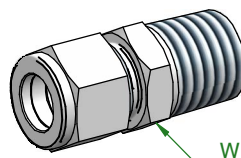
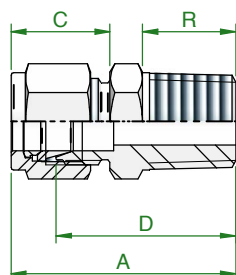
BR - STIFFENER SLEEVE
PAGE: 52



GIG - GAP INSPECTION GAGE
PAGE: 53



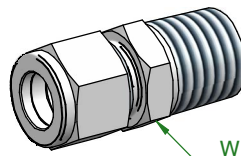
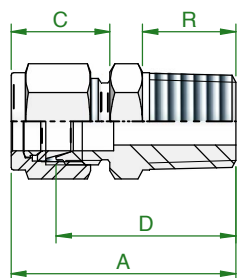
COMPRESSION FITTINGS



MALE CONNECTOR (INCHES)

CODE	TUBE O.D.	NPT THREAD	A	C	D	R	W - HEX
CM-1-1-N	1/16	1/16	0.93	0.43	0.78	0.38	5/16
CM-1-2-N	1/16	1/8	1.03	0.43	0.88	0.38	7/16
CM-1-4-N	1/16	1/4	1.23	0.43	1.08	0.56	9/16
CM-2-1-N	1/8	1/16	1.17	0.60	0.91	0.38	3/8
CM-2-2-N	1/8	1/8	1.20	0.60	0.94	0.38	7/16
CM-2-4-N	1/8	1/4	1.40	0.60	1.14	0.56	9/16
CM-2-6-N	1/8	3/8	1.42	0.60	1.16	0.56	11/16
CM-2-8-N	1/8	1/2	1.67	0.60	1.41	0.75	7/8
CM-3-1-N	3/16	1/16	1.23	0.64	0.97	0.38	7/16
CM-3-2-N	3/16	1/8	1.23	0.64	0.97	0.38	7/16
CM-3-4-N	3/16	1/4	1.43	0.64	1.17	0.56	9/16
CM-4-1-N	1/4	1/16	1.29	0.70	1.00	0.38	1/2
CM-4-2-N	1/4	1/8	1.29	0.70	1.00	0.38	1/2
CM-4-4-N	1/4	1/4	1.49	0.70	1.20	0.56	9/16
CM-4-6-N	1/4	3/8	1.51	0.70	1.22	0.56	11/16
CM-4-8-N	1/4	1/2	1.76	0.70	1.47	0.75	7/8
CM-4-12-N	1/4	3/4	1.82	0.70	1.53	0.75	1-1/16
CM-5-2-N	5/16	1/8	1.34	0.73	1.05	0.38	9/16
CM-5-4-N	5/16	1/4	1.52	0.73	1.23	0.56	9/16
CM-5-6-N	5/16	3/8	1.55	0.73	1.25	0.56	11/16
CM-5-8-N	5/16	1/2	1.79	0.73	1.5	0.75	7/8
CM-6-2-N	3/8	1/8	1.38	0.76	1.09	0.38	5/8
CM-6-4-N	3/8	1/4	1.57	0.76	1.28	0.56	5/8
CM-6-6-N	3/8	3/8	1.57	0.76	1.28	0.56	11/16
CM-6-8-N	3/8	1/2	1.82	0.76	1.53	0.75	7/8
CM-6-12-N	3/8	3/4	1.88	0.76	1.59	0.75	1-1/16
CM-8-2-N	1/2	1/8	1.53	0.87	1.13	0.38	13/16
CM-8-4-N	1/2	1/4	1.71	0.87	1.31	0.56	13/16
CM-8-6-N	1/2	3/8	1.71	0.87	1.31	0.56	13/16
CM-8-8-N	1/2	1/2	1.93	0.87	1.53	0.75	7/8
CM-8-12-N	1/2	3/4	1.99	0.87	1.59	0.75	1-1/16
CM-8-16-N	1/2	1	2.28	0.87	1.88	0.94	1-3/8
CM-10-6-N	5/8	3/8	1.74	0.87	1.34	0.56	15/16
CM-10-8-N	5/8	1/2	1.93	0.87	1.53	0.75	15/16
CM-10-12-N	5/8	3/4	1.99	0.87	1.59	0.75	1-1/16
CM-12-8-N	3/4	1/2	1.99	0.87	1.59	0.75	1-1/16
CM-12-12-N	3/4	3/4	1.99	0.87	1.59	0.75	1-1/16
CM-12-16-N	3/4	1	2.28	0.87	1.88	0.94	1-3/8
CM-14-12-N	7/8	3/4	1.99	0.87	1.59	0.75	1-3/16
CM-14-16-N	7/8	1	2.28	0.87	1.88	0.94	1-3/8
CM-16-8-N	1	1/2	2.27	1.05	1.78	0.75	1-3/8
CM-16-12N	1	3/4	2.27	1.05	1.78	0.75	1-3/8
CM-16-16N	1	1	2.46	1.05	1.97	0.94	1-3/8

COMPRESSION FITTINGS

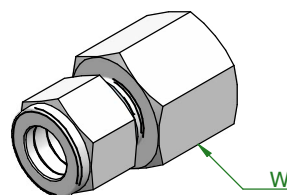
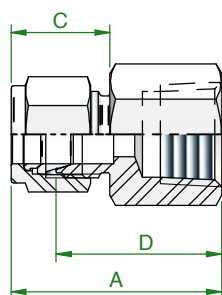


MALE CONNECTOR (MILLIMETERS)

CODE	TUBE O.D.	NPT THREAD	A	C	D	R	W - HEX
CM-M2-2-N	2	1/8	29,7	15,3	23,1	9,5	12
CM-M3-2-N	3	1/8	29,7	15,3	23,1	9,5	12
CM-M3-4-N	3	1/4	35,3	15,3	28,7	14,3	14
CM-M4-2-N	4	1/8	31,2	16,1	24,6	9,5	12
CM-M4-4-N	4	1/4	36,3	16,1	29,7	14,3	14
CM-M6-2-N	6	1/8	32,9	17,7	25,4	9,5	14
CM-M6-4-N	6	1/4	38,1	17,7	30,6	14,3	14
CM-M6-6-N	6	3/8	38,5	17,7	31	14,3	17
CM-M6-8-N	6	1/2	44,8	17,7	37,3	19,1	22
CM-M8-2-N	8	1/8	34,2	18,6	26,7	9,5	14
CM-M8-4-N	8	1/4	38,8	18,6	31,3	14,3	14
CM-M8-6-N	8	3/8	39,3	18,6	31,8	14,3	17
CM-M8-8-N	8	1/2	45,6	18,6	38,1	19,1	22
CM-M10-2-N	10	1/8	36,1	19,5	28,6	9,5	17
CM-M10-4-N	10	1/4	40,9	19,5	33,3	14,3	17
CM-M10-6-N	10	3/8	40,9	19,5	33,3	14,3	17
CM-M10-8-N	10	1/2	47,5	19,5	38,9	19,1	22
CM-M10-12-N	10	3/4	46,4	19,5	38,9	19,1	27
CM-M10-16-N	10	1	55	19,5	47,5	23,8	36
CM-M12-4-N	12	1/4	43,4	22	33,3	14,3	22
CM-M12-6-N	12	3/8	43,4	22	33,3	14,3	22
CM-M12-8-N	12	1/2	49	22	38,9	19,1	22
CM-M12-12-N	12	3/4	50,5	22	40,4	19,1	27
CM-M14-4-N	14	1/4	44,2	22	34,1	14,3	24
CM-M14-6-N	14	3/8	44,2	22	34,1	14,3	24
CM-M14-8-N	14	1/2	49	22	38,9	19,1	24
CM-M15-8-N	15	1/2	49	22	38,9	19,1	24
CM-M16-6-N	16	3/8	44,1	22	34,01	14,3	24
CM-M16-8-N	16	1/2	49	22	38,9	19,1	24
CM-M16-12-N	16	3/4	50,5	22	40,5	19,1	27
CM-M18-8-N	18	1/2	50,6	22	40,5	19,1	27
CM-M18-12-N	18	3/4	50,6	22	40,5	19,1	27
CM-M20-8-N	20	1/2	50,6	22	42,2	19,1	30
CM-M20-12-N	20	3/4	52,3	22	42,2	19,1	30
CM-M20-16-N	20	1	57,7	22	47,6	23,8	36
CM-M22-12-N	22	3/4	52,3	22	42,2	19,1	36
CM-M25-8-N	25	1/2	57,5	26,5	45,3	19,1	36
CM-M25-12-N	25	3/4	57,5	26,5	45,2	19,1	36
CM-M25-16-N	25	1	62,3	26,5	50	23,8	36



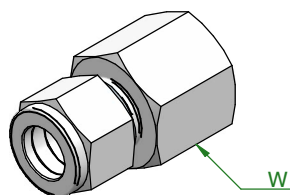
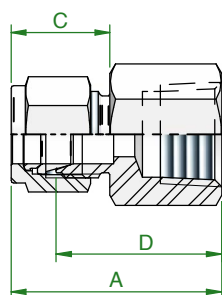
COMPRESSION FITTINGS



FEMALE CONNECTOR (INCHES)

CODE	TUBE O.D.	NPT THREAD	A	C	D	W - HEX
CF-1-1-N	1/16	1/16	0.93	0.43	0.78	7/16
CF-1-2-N	1/16	1/8	0.95	0.43	0.81	9/16
CF-2-2-N	1/8	1/8	1.14	0.60	0.88	9/16
CF-2-4-N	1/8	1/4	1.32	0.60	1.06	3/4
CF-3-2-N	3/16	1/8	1.17	0.64	0.91	9/16
CF-3-4-N	3/16	1/4	1.35	0.64	1.09	3/4
CF-4-2-N	1/4	1/8	1.23	0.70	0.94	9/16
CF-4-4-N	1/4	1/4	1.42	0.70	1.13	3/4
CF-4-6-N	1/4	3/8	1.48	0.70	1.19	7/8
CF-4-8-N	1/4	1/2	1.67	0.70	1.38	1-1/16
CF-5-2-N	5/16	1/8	1.27	0.73	0.97	9/16
CF-5-4-N	5/16	1/4	1.46	0.73	1.16	3/4
CF-5-6-N	5/16	3/8	1.51	0.73	1.22	7/8
CF-6-2-N	3/8	1/8	1.29	0.76	1.00	5/8
CF-6-4-N	3/8	1/4	1.48	0.76	1.19	3/4
CF-6-6-N	3/8	3/8	1.54	0.76	1.25	7/8
CF-6-8-N	3/8	1/2	1.73	0.76	1.44	1-1/16
CF-6-12-N	3/8	3/4	1.85	0.76	1.56	1-1/4
CF-8-4-N	1/2	1/4	1.59	0.87	1.19	13/16
CF-8-6-N	1/2	3/8	1.65	0.87	1.25	7/8
CF-8-8-N	1/2	1/2	1.84	0.87	1.44	1-1/16
CF-8-12-N	1/2	3/4	1.96	0.87	1.56	1-1/4
CF-10-6-N	5/8	3/8	1.65	0.87	1.25	15/16
CF-10-8-N	5/8	1/2	1.84	0.87	1.44	1-1/16
CF-18-12-N	5/8	3/4	1.96	0.87	1.56	1-3/8
CF-12-8-N	3/4	1/2	1.84	0.87	1.44	1-1/16
CF-12-12-N	3/4	3/4	1.96	0.87	1.56	1-3/8
CF-14-12-N	7/8	3/4	1.96	0.87	1.56	1-3/8
CF-16-12-N	1	3/4	2.15	1.05	1.66	1-3/8
CF-16-16-N	1	1	2.46	1.05	1.97	1-5/8

COMPRESSION FITTINGS

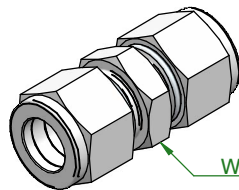
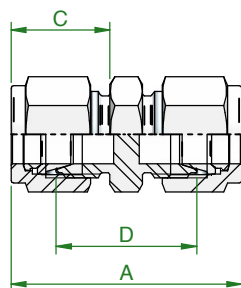


FEMALE CONNECTOR (MILLIMETERS)

CODE	TUBE O.D.	NPT THREAD	A	C	D	W - HEX
CF-M3-2-N	3	1/8	28,8	15,3	22,2	14
CF-M3-4-N	3	1/4	33,6	15,3	27	19
CF-M4-2-N	4	1/8	29,6	16,1	23	14
CF-M6-2-N	6	1/8	31,3	17,7	23,8	14
CF-M6-4-N	6	1/4	36,1	17,7	28,6	19
CF-M6-6-N	6	3/8	37,7	17,7	30,2	22
CF-M6-8-N	6	1/2	42,5	17,7	35	27
CF-M8-2-N	8	1/8	32,1	18,6	24,6	14
CF-M8-4-N	8	1/4	36,9	18,6	29,4	19
CF-M8-6-N	8	3/8	38,5	18,6	31	22
CF-M10-4-N	10	1/4	37,8	19,5	30,2	19
CF-M10-6-N	10	3/8	39,4	19,5	31,8	22
CF-M10-8-N	10	1/2	44,1	19,5	36,5	27
CF-M12-4-N	12	1/4	41,9	22	31,8	22
CF-M12-6-N	12	3/8	41,9	22	31,8	22
CF-M12-8-N	12	1/2	46,6	22	36,5	27
CF-M16-6-N	16	3/8	41,9	22	31,8	27
CF-M16-8-N	16	1/2	46,9	22	36,5	27
CF-M20-8-N	20	1/2	47,9	22	37,8	30
CF-M20-12-N	20	3/4	49,7	22	39,6	36
CF-M22-12-N	22	3/4	49,7	22	39,6	36
CF-M25-12-N	25	3/4	53,6	26,5	41,3	36
CF-M25-16-N	25	1	62,3	26,5	50	41



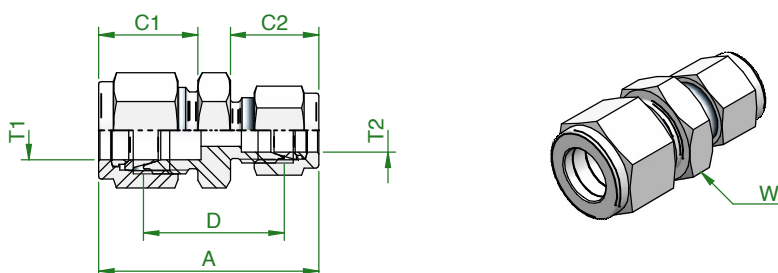
COMPRESSION FITTINGS



UNION (INCHES)					
CODE	TUBE O.D.	A	C	D	W - HEX
U-1	1/16	0.99	0.43	0.69	5/16
U-2	1/8	1.39	0.60	0.88	7/16
U-3	3/16	1.48	0.64	0.95	7/16
U-4	1/4	1.62	0.70	1.03	1/2
U-5	5/16	1.70	0.73	1.11	9/16
U-6	3/8	1.77	0.76	1.17	5/8
U-8	1/2	2.02	0.87	1.22	13/16
U-10	5/8	2.05	0.87	1.25	15/16
U-12	3/4	2.11	0.87	1.31	1-1/16
U-14	7/8	2.18	0.87	1.38	1-3/16
U-16	1	2.57	1.05	1.59	1-3/8

UNION (MILLIMETERS)					
CODE	TUBE O.D.	A	C	D	W - HEX
U-M2	2	35,6	15,3	22,4	12
U-M3	3	35,3	15,3	22,1	12
U-M4	4	37,4	16,1	24,2	12
U-M6	6	41,2	17,7	26,2	14
U-M8	8	43,2	18,6	28,2	14
U-M10	10	46,2	19,5	31	17
U-M12	12	51,2	22	31	22
U-M14	14	52	22	31,8	24
U-M15	15	52	22	31,8	24
U-M16	16	52	22	31,8	24
U-M18	18	53,5	22	33,3	27
U-M20	20	55	22	34,8	30
U-M22	22	55	22	34,8	30
U-M25	25	65,1	26,5	40,5	36

COMPRESSION FITTINGS



REDUCTION UNION (INCHES)

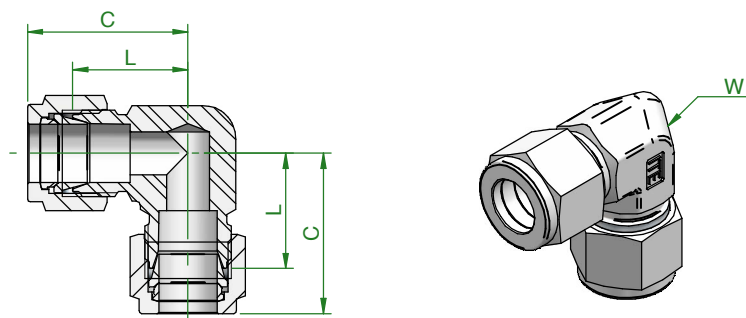
CODE	TUBE "1" O.D.	TUBE "2" O.D.	A	D	C1	C2	W - HEX
RU-2-1	1/8	1/16	1.21	0.81	0.60	0.43	7/16
RU-3-1	3/16	1/16	1.27	0.86	0.64	0.43	7/16
RU-3-2	3/16	1/8	1.44	0.92	0.64	0.60	7/16
RU-4-1	1/4	1/16	1.38	0.91	0.70	0.43	1/2
RU-4-2	1/4	1/8	1.52	0.97	0.70	0.60	1/2
RU-4-3	1/4	3/16	1.55	1.00	0.70	0.64	1/2
RU-5-2	5/16	1/8	1.58	1.03	0.73	0.60	9/16
RU-5-4	5/16	1/4	1.67	1.08	0.73	0.70	9/16
RU-6-1	3/8	1/16	1.44	1.00	0.76	0.43	5/8
RU-6-2	3/8	1/8	1.61	1.06	0.76	0.60	5/8
RU-6-4	3/8	1/4	1.71	1.13	0.76	0.70	5/8
RU-6-5	3/8	5/16	1.75	1.16	0.76	0.73	5/8
RU-8-2	1/2	1/8	1.75	1.09	0.87	0.60	13/16
RU-8-4	1/2	1/4	1.85	1.16	0.87	0.70	13/16
RU-8-6	1/2	3/8	1.91	1.22	0.87	0.76	13/16
RU-10-6	5/8	3/8	1.94	1.25	0.87	0.76	15/16
RU-10-8	5/8	1/2	2.05	1.25	0.87	0.87	15/16
RU-12-4	3/4	1/4	1.95	1.25	0.87	0.76	1-1/16
RU-12-6	3/4	3/8	2.00	1.31	0.87	0.76	1-1/16
RU-12-8	3/4	1/2	2.11	1.31	0.87	0.87	1-1/16
RU-12-10	3/4	5/8	2.11	1.31	0.87	0.87	1-1/16
RU-16-8	1	1/2	2.39	1.50	1.05	0.87	1-3/8
RU-16-12	1	3/4	2.39	1.50	1.05	0.87	1-3/8

REDUCTION UNION (MILLIMETERS)

CODE	TUBE "1" O.D.	TUBE "2" O.D.	A	D	C1	C2	W - HEX
RU-M3-M2	3	2	35,8	22,6	15,3	15,3	12
RU-M6-M2	6	2	38,7	24,6	17,7	15,3	14
RU-M6-M3	6	3	38,7	24,6	17,7	15,3	14
RU-M6-M4	6	4	39,5	25,4	17,7	16,1	14
RU-M8-M6	8	6	42,4	27,4	18,6	17,7	14
RU-M10-M6	10	6	44,5	29,4	19,5	17,7	17
RU-M10-M8	10	8	44,5	29,4	19,5	18,6	17
RU-M12-M6	12	6	47	29,4	22	17,7	22
RU-M12-M8	12	8	47,8	30,2	22	18,6	22
RU-M12-M10	12	10	48,7	31	22	19,5	22
RU-M16-M10	16	10	49,5	31,8	22	19,5	24
RU-M16-M12	16	12	52	31,8	22	22	24
RU-M18-M12	18	12	53,5	33,3	22	22	27
RU-M25-M18	25	18	60,5	38,1	26,5	22	36
RU-M25-M20	25	20	62,3	39,9	26,5	22	36



COMPRESSION FITTINGS



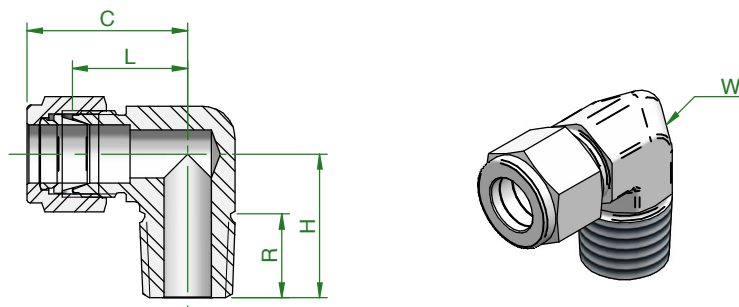
UNION ELBOW CONNECTOR (INCHES)

CODE	TUBE O.D.	C	L	W - HEX
UE-1	1/16	0.70	0.55	3/8
UE-2	1/8	0.88	0.62	3/8
UE-3	3/16	1.00	0.74	1/2
UE-4	1/4	1.06	0.77	1/2
UE-5	5/16	1.13	0.84	9/16
UE-6	3/8	1.20	0.91	5/8
UE-8	1/2	1.42	1.02	13/16
UE-10	5/8	1.50	1.10	15/16
UE-12	3/4	1.57	1.17	1-1/16
UE-14	7/8	1.76	1.36	1-3/8
UE-16	1	1.93	1.45	1-3/8

UNION ELBOW CONNECTOR (MILLIMETERS)

CODE	TUBE O.D.	C	L	W - HEX
UE-M3	3	22,3	15,7	11
UE-M4	4	25,4	18,8	11
UE-M6	6	27	19,6	11
UE-M8	8	28,8	21,3	14
UE-M10	10	31,5	23,9	16
UE-M12	12	36	25,9	19
UE-M14	14	38,1	28	22
UE-M15	15	38	27,9	22
UE-M16	16	38	27,9	22
UE-M18	18	39,8	29,7	27
UE-M20	20	44,6	34,5	35
UE-M22	22	44,6	34,5	35
UE-M25	25	49,1	36,8	35

COMPRESSION FITTINGS

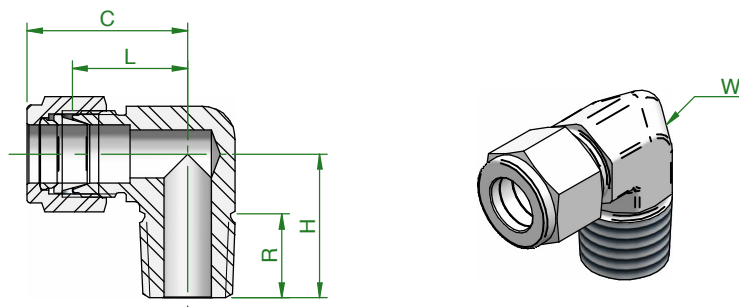


MALE ELBOW CONNECTOR (INCHES)

CODE	TUBE O.D.	NPT THREAD	C	H	L	R	W - HEX
EM-1-1-N	1/16	1/16	0.75	0.70	0.60	0.38	7/16
EM-1-2-N	1/16	1/8	0.75	0.70	0.60	0.38	7/16
EM-2-1-N	1/8	1/16	0.93	0.70	0.67	0.38	7/16
EM-2-2-N	1/8	1/8	0.93	0.70	0.67	0.38	7/16
EM-2-4-N	1/8	1/4	0.97	0.93	0.72	0.56	9/16
EM-3-2-N	3/16	1/8	1.00	0.74	0.74	0.38	1/2
EM-3-4-N	3/16	1/4	1.00	0.93	0.74	0.56	9/16
EM-4-1-N	1/4	1/16	1.06	0.74	0.77	0.38	1/2
EM-4-2-N	1/4	1/8	1.06	0.74	0.77	0.38	1/2
EM-4-4-N	1/4	1/4	1.06	0.93	0.77	0.56	9/16
EM-4-6-N	1/4	3/8	1.17	1.04	0.88	0.56	11/16
EM-4-8-N	1/4	1/2	1.25	1.31	0.96	0.75	13/16
EM-5-2-N	5/16	1/8	1.13	0.79	0.84	0.38	9/16
EM-5-4-N	5/16	1/4	1.13	0.97	0.84	0.56	9/16
EM-6-2-N	3/8	1/8	1.20	0.82	0.91	0.38	5/8
EM-6-4-N	3/8	1/4	1.20	1.01	0.91	0.56	5/8
EM-6-6-N	3/8	3/8	1.23	1.13	0.97	0.56	11/16
EM-6-8-N	3/8	1/2	1.31	1.31	1.02	0.75	13/16
EM-6-12-N	3/8	3/4	1.46	1.46	1.17	0.75	1-1/16
EM-8-4-N	1/2	1/4	1.42	1.12	1.02	0.56	13/16
EM-8-6-N	1/2	3/8	1.42	1.12	1.02	0.56	13/16
EM-8-8-N	1/2	1/2	1.42	1.31	1.02	0.75	13/16
EM-8-12-N	1/2	3/4	1.57	1.46	1.17	0.75	1-1/16
EM-10-6-N	5/8	3/8	1.50	1.20	1.10	0.56	15/16
EM-10-8-N	5/8	1/2	1.50	1.39	1.10	0.75	15/16
EM-10-12-N	5/8	3/4	1.57	1.46	1.17	0.75	1-1/16
EM-12-8-N	3/4	1/2	1.57	1.46	1.17	0.75	1-1/16
EM-12-12-N	3/4	3/4	1.57	1.46	1.17	0.75	1-1/16
EM-14-12-N	7/8	3/4	1.76	1.65	1.36	0.75	1-3/8
EM-16-12-N	1	3/4	1.93	1.65	1.45	0.75	1-3/8
EM-16-16-N	1	1	1.93	1.84	1.45	0.94	1-3/8



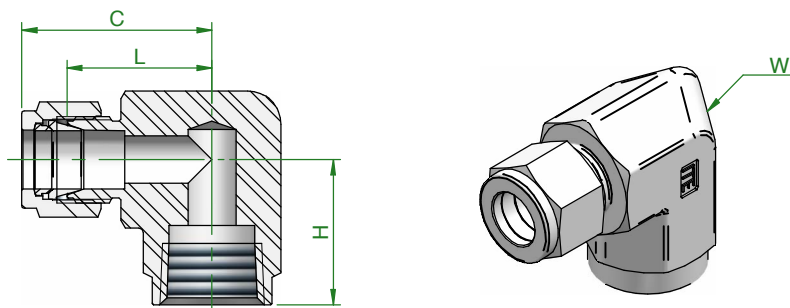
COMPRESSION FITTINGS



MALE ELBOW CONNECTOR (MILLIMETERS)

CODE	TUBE O.D.	NPT THREAD	C	H	L	R	W - HEX
EM-M3-2-N	3	1/8	23,6	17,8	17	9,7	11
EM-M3-4-N	3	1/4	24,6	23,4	18	14,2	11
EM-M4-2-N	4	1/8	25,4	18,8	19,2	9,7	11
EM-M4-4-N	4	1/4	26,2	25,4	19,6	14,2	11
EM-M6-2-N	6	1/8	27	18,8	19,6	9,7	11
EM-M6-4-N	6	1/4	27	23,4	19,6	14,2	11
EM-M6-6-N	6	3/8	29,8	26,2	22,4	14,2	19
EM-M6-8-N	6	1/2	31,8	33	24,4	19	19
EM-M8-2-N	8	1/8	28,8	19,8	21,3	9,7	14
EM-M8-4-N	8	1/4	28,8	24,4	21,3	14,2	14
EM-M8-6-N	8	3/8	30,6	26,2	23,1	14,2	19
EM-M8-8-N	8	1/2	32,7	33	25,2	19,1	19
EM-M10-2-N	10	1/8	31,5	21,6	23,9	9,7	16
EM-M10-4-N	10	1/4	31,5	26,2	23,9	14,2	16
EM-M10-6-N	10	3/8	31,5	26,2	23,9	14,2	16
EM-M10-8-N	10	1/2	33,5	33	25,9	19	19
EM-M12-4-N	12	1/4	36	28,2	25,9	14,2	19
EM-M12-6-N	12	3/8	36	28,2	25,9	14,2	19
EM-M12-8-N	12	1/2	36	33	25,9	19	19
EM-M12-12-N	12	3/4	39,8	36,8	29,7	19	27
EM-M15-8-N	15	1/2	38	35,1	27,9	19	22
EM-M16-6-N	16	3/8	38	30,2	27,9	14,2	22
EM-M16-8-N	16	1/2	38	35,1	27,9	19	22
EM-M16-12-N	16	3/4	39,8	36,8	29,7	19	27
EM-M18-8-N	18	1/2	39,8	36,8	29,7	19	27
EM-M18-12-N	18	3/4	39,8	36,8	29,7	19	27
EM-M20-8-N	20	1/2	44,6	41,7	34,5	19	35
EM-M20-12-N	20	3/4	44,6	41,7	34,5	19	35
EM-M22-12-N	22	3/4	44,6	41,7	34,5	19	35
EM-M25-12-N	25	3/4	49,1	41,7	36,8	19	35
EM-M25-16-N	25	1	49,1	46,5	36,8	23,9	35

COMPRESSION FITTINGS



FEMALE ELBOW CONNECTOR (INCHES)

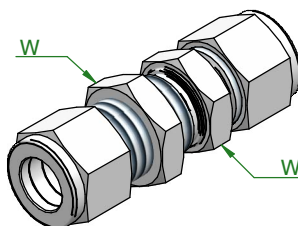
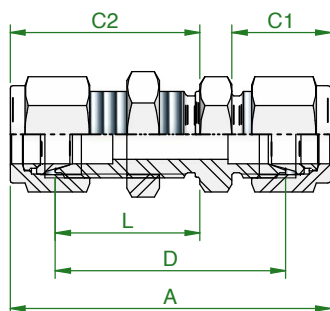
CODE	TUBE O.D.	NPT THREAD	C	H	L	W - HEX
EF-1-1-N	1/16	1/16	0.75	0.50	0.60	7/16
EF-1-2-N	1/16	1/8	0.79	0.75	0.64	9/16
EF-2-2-N	1/8	1/8	0.97	0.75	0.71	9/16
EF-2-4-N	1/8	1/4	1.10	0.88	0.84	3/4
EF-3-2-N	3/16	1/8	1.00	0.75	0.74	9/16
EF-4-2-N	1/4	1/8	1.06	0.75	0.77	9/16
EF-4-4-N	1/4	1/4	1.20	0.88	0.91	11/16
EF-4-6-N	1/4	3/8	1.25	0.88	0.96	13/16
EF-4-8-N	1/4	1/2	1.36	1.13	1.07	1
EF-5-2-N	5/16	1/8	1.13	0.75	0.84	9/16
EF-5-4-N	5/16	1/4	1.24	0.88	0.94	11/16
EF-6-2-N	3/8	1/8	1.20	0.75	0.91	5/8
EF-6-4-N	3/8	1/4	1.26	0.88	0.97	11/16
EF-6-6-N	3/8	3/8	1.31	0.88	1.02	13/16
EF-6-8-N	3/8	1/2	1.42	1.13	1.13	1
EF-8-4-N	1/2	1/4	1.42	0.88	1.02	13/16
EF-8-6-N	1/2	3/8	1.42	0.88	1.02	13/16
EF-8-8-N	1/2	1/2	1.53	1.13	1.13	1
EF-10-6-N	5/8	3/8	1.50	0.88	1.10	15/16
EF-10-8-N	5/8	1/2	1.57	1.13	1.17	1-1/16
EF-12-8-N	3/4	1/2	1.57	1.13	1.17	1-1/16
EF-12-12-N	3/4	3/4	1.76	1.25	1.36	1-3/8
EF-14-12-N	7/8	3/4	1.76	1.25	1.36	1-3/8
EF-16-12-N	1	3/4	1.93	1.25	1.45	1-3/8

FEMALE ELBOW CONNECTOR (MILLIMETERS)

CODE	TUBE O.D.	NPT THREAD	C	H	L	W - HEX
EF-M6-2-N	6	1/8	27	19	19,6	14
EF-M6-4-N	6	1/4	29,8	22,4	22,4	19
EF-M8-2-N	8	1/8	28,8	19,1	21,3	14
EF-M8-4-N	8	1/4	30,6	22,4	23,1	19
EF-M10-4-N	10	1/4	33,5	22,4	25,9	19
EF-M10-6-N	10	3/8	33,5	22,4	25,9	22
EF-M10-8-N	10	1/2	36,3	28,5	28,7	27
EF-M12-4-N	12	1/4	36	22,4	25,9	19
EF-M12-6-N	12	3/8	36	22,4	25,9	22
EF-M12-8-N	12	1/2	38,8	28,4	28,7	27
EF-M16-6-N	16	3/8	39,5	23,6	29,7	22
EF-M16-8-N	16	1/2	39,5	28,4	29,7	27



COMPRESSION FITTINGS



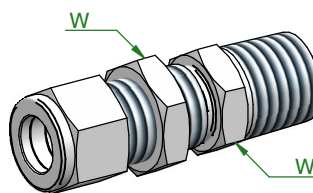
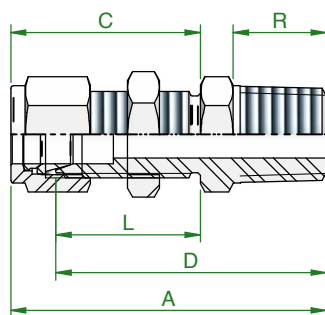
UNION BULKHEAD CONNECTOR (INCHES)

CODE	TUBE O.D.	A	C1	C2	D	L	W - HEX
BU-1	1/16	1.23	0.43	0.68	0.94	0.53	5/16
BU-2	1/8	2.02	0.60	1.23	1.50	0.97	1/2
BU-3	3/16	2.11	0.64	1.26	1.59	1.00	9/16
BU-4	1/4	2.27	0.70	1.31	1.69	1.02	5/8
BU-5	5/16	2.40	0.73	1.42	1.81	1.12	11/16
BU-6	3/8	2.46	0.76	1.44	1.88	1.16	3/4
BU-8	1/2	2.80	0.87	1.65	2.00	1.25	15/16
BU-10	5/8	2.86	0.87	1.68	2.06	1.28	1-1/16
BU-12	3/4	3.11	0.87	1.87	2.31	1.47	1-3/16
BU-14	7/8	3.33	0.87	2.09	2.53	1.69	1-3/8
BU-16	1	3.78	1.05	2.27	2.81	1.78	1-5/8

UNION BULKHEAD CONNECTOR (MILLIMETERS)

CODE	TUBE O.D.	A	C1	C2	D	L	W - HEX
BU-M3	3	51,3	15,3	31,2	38,2	24,6	14
BU-M4	4	53,7	16,1	32	40,5	25,4	14
BU-M6	6	57,9	17,7	33,7	42,9	26,2	16
BU-M8	8	61	18,6	36	46	28,5	18
BU-M10	10	63,6	19,5	37	48,4	29,4	22
BU-M12	12	71	22	41,9	50,8	31,8	24
BU-M15	15	72,5	22	42,6	52,3	32,5	27
BU-M16	16	72,6	22	42,6	52,4	32,5	27
BU-M18	18	78,9	22	47,4	58,7	37,3	30
BU-M20	20	88,2	22	51	68	40,9	35
BU-M25	25	95,8	26,5	54,4	71,4	42,2	41

COMPRESSION FITTINGS



MALE BULKHEAD CONNECTOR (INCHES)

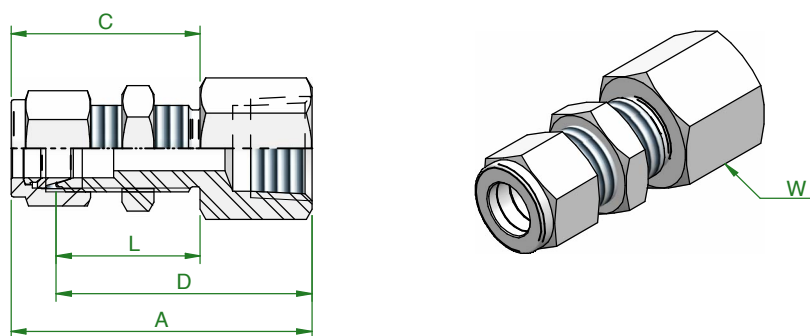
CODE	TUBE O.D.	NPT THREAD	A	C	D	L	R	W - HEX
BCM-1-1-N	1/16	1/16	1.19	0.68	1.038	0.53	0.38	5/16
BCM-1-2-N	1/16	1/8	1.27	0.68	1.116	0.53	0.38	7/16
BCM-2-2-N	1/8	1/8	1.83	1.23	1.571	0.97	0.38	1/2
BCM-3-2-N	3/16	1/8	1.89	1.26	1.634	1.00	0.38	9/16
BCM-4-2-N	1/4	1/8	1.95	1.31	1.655	1.02	0.38	5/8
BCM-4-4-N	1/4	1/4	2.132	1.31	1.842	1.02	0.56	5/8
BCM-4-6-N	1/4	3/8	2.162	1.31	1.872	1.02	0.56	11/16
BCM-4-8-N	1/4	1/2	2.374	1.31	2.084	1.02	0.75	7/8
BCM-5-2-N	5/16	1/8	2.08	1.42	1.779	1.12	0.38	11/16
BCM-5-4-N	5/16	1/4	2.27	1.42	1.966	1.12	0.56	11/16
BCM-6-2-N	3/8	1/8	2.08	1.44	1.788	1.15	0.38	3/4
BCM-6-4-N	3/8	1/4	2.265	1.44	1.975	1.15	0.56	3/4
BCM-6-6-N	3/8	3/8	2.265	1.44	1.975	1.15	0.56	3/4
BCM-6-8-N	3/8	1/2	2.48	1.44	2.219	1.15	0.75	7/8
BCM-8-4-N	1/2	1/4	2.494	1.65	2.094	1.25	0.56	15/16
BCM-8-6-N	1/2	3/8	2.494	1.65	2.094	1.25	0.56	15/16
BCM-8-8-N	1/2	1/2	2.712	1.65	2.312	1.25	0.75	15/16
BCM-8-12-N	1/2	3/4	2.712	1.65	2.322	1.25	0.75	1-1/8
BCM-10-6-N	5/8	3/8	2.628	1.68	2.228	1.28	0.56	1-1/16
BCM-10-8-N	5/8	1/2	2.816	1.68	2.416	1.28	0.75	1-1/16
BCM-12-8-N	3/4	1/2	3.00	1.87	2.601	1.47	0.75	1-3/16
BCM-12-12-N	3/4	3/4	3.00	1.87	2.601	1.47	0.75	1-3/16
BCM-14-12-N	7/8	3/4	3.31	2.09	2.913	1.69	0.75	1-3/8
BCM-16-12-N	1	3/4	3.54	2.27	3.006	1.78	0.75	1-5/8
BCM-16-16-N	1	1	3.72	2.27	3.194	1.78	0.94	1-5/8

MALE BULKHEAD CONNECTOR (MILLIMETERS)

CODE	TUBE O.D.	NPT THREAD	A	C	D	L	R	W - HEX
BCM-M6-2-N	6	1/8	49,6	33,7	42,1	26,2	9,5	16
BCM-M6-4-N	6	1/4	53,5	33,7	46	26,2	14,3	16
BCM-M8-2-N	8	1/8	52,3	36	44,8	28,5	9,5	19
BCM-M8-4-N	8	1/4	57,5	36	50	28,5	14,3	19
BCM-M10-8-N	10	1/4	58,4	37	50,8	29,4	14,3	22
BCM-M10-6-N	10	3/8	58,4	37	50,8	29,4	14,3	22
BCM-M10-8-N	10	1/2	63,1	37	55,5	29,4	19	22
BCM-M12-4-N	12	1/4	63,3	10,1	53,2	31,8	14,3	24
BCM-M12-6-N	12	3/8	64,5	10,1	54,4	31,8	14,3	24
BCM-M12-8-N	12	1/2	67,5	10,1	57,4	31,8	19	24



COMPRESSION FITTINGS



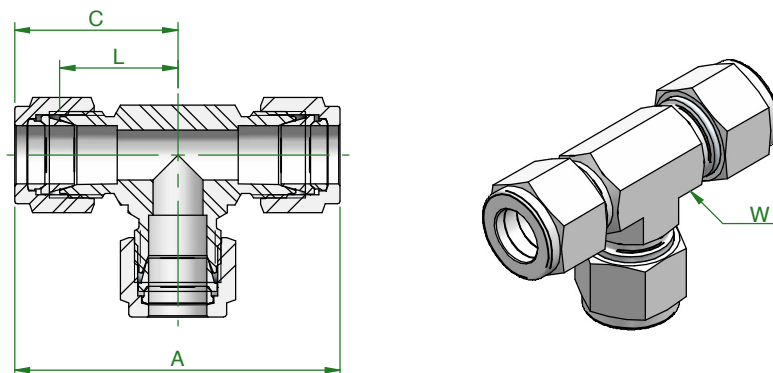
FEMALE BULKHEAD CONNECTOR (INCHES)

CODE	TUBE O.D.	NPT THREAD	A	C	D	L	W - HEX
BCF-2-2-N	1/8	1/8	1.76	1.23	1.50	0.97	9/16
BCF-3-2-N	3/16	1/8	1.79	1.26	1.53	1.00	9/16
BCF-4-2-N	1/4	1/8	1.85	1.31	1.56	1.02	5/8
BCF-4-4-N	1/4	1/4	2.04	1.31	1.75	1.02	3/4
BCF-5-2-N	5/16	1/8	1.96	1.42	1.66	1.12	11/16
BCF-5-8-N	5/16	1/2	2.38	1.42	2.08	1.12	1-1/16
BCF-6-4-N	3/8	1/4	2.17	1.44	1.88	1.15	3/4
BCF-8-6-N	1/2	3/8	2.43	1.65	2.03	1.25	15/16
BCF-8-8-N	1/2	1/2	2.62	1.65	2.22	1.25	1-1/16
BCF-10-8-N	5/8	1/2	2.65	1.68	2.25	1.28	1-1/16
BCF-12-12-N	3/4	3/4	2.90	1.87	2.50	1.47	1-3/8
BCF-14-12-N	7/8	3/4	3.18	2.09	2.78	1.69	1-3/8
BCF-16-16-N	1	1	3.68	2.27	3.19	1.78	1-5/8

FEMALE BULKHEAD CONNECTOR (MILLIMETERS)

CODE	TUBE O.D.	NPT THREAD	A	C	D	L	W - HEX
BCF-M6-2-N	6	1/8	47,2	33,7	39,7	26,2	16
BCF-M6-4-N	6	1/4	52	33,7	44,5	26,2	19
BCF-M8-2-N	8	1/8	49,6	36,1	42,1	28,5	17
BCF-M10-4-N	10	1/4	55,2	37	47,6	29,4	19
BCF-M12-8-N	12	3/8	60,9	41,9	50,8	31,8	24
BCF-M12-8-N	12	1/2	66,4	41,9	56,3	31,8	27

COMPRESSION FITTINGS



UNION TEE (INCHES)

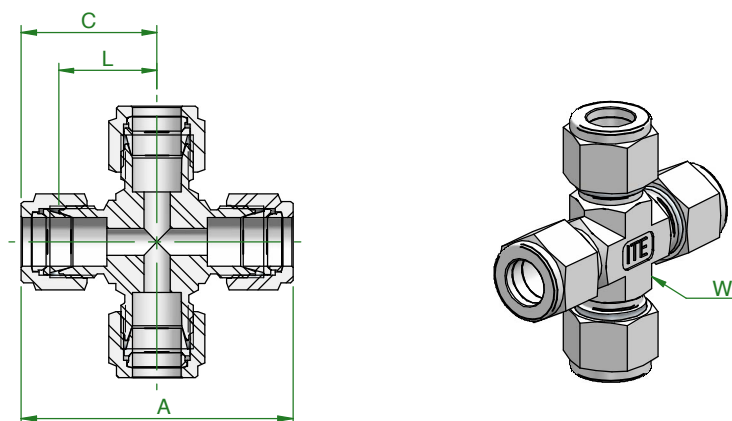
CODE	TUBE O.D.	A	C	L	W - HEX
UT-1	1/16	1.42	0.71	0.56	3/8
UT-2	1/8	1.76	0.88	0.62	3/8
UT-3	3/16	1.96	0.96	0.70	7/16
UT-4	1/4	2.12	1.06	0.77	1/2
UT-5	5/16	2.34	1.17	0.88	5/8
UT-6	3/8	2.40	1.20	0.91	5/8
UT-8	1/2	2.84	1.42	1.02	13/16
UT-10	5/8	3.06	1.53	1.13	1
UT-12	3/4	3.14	1.57	1.16	1-1/16
UT-14	7/8	3.52	1.76	1.36	1-3/8
UT-16	1	3.86	1.93	1.45	1-3/8

UNION TEE (MILLIMETERS)

CODE	TUBE O.D.	A	C	L	W - HEX
UT-M2	2	44,7	22,3	15,7	11
UT-M3	3	44,7	22,3	15,7	11
UT-M4	4	50,8	25,4	18,8	11
UT-M6	6	53,9	27	19,6	11
UT-M8	8	59,7	29,9	22,4	14
UT-M10	10	63	31,5	23,9	16
UT-M12	12	72	36	25,9	19
UT-M14	14	77,6	38,8	28,7	22
UT-M15	15	77,6	38,8	28,7	22
UT-M16	16	77,6	38,8	28,7	22
UT-M18	18	79,5	38,8	29,7	27
UT-M20	20	89,3	44,6	34,5	35
UT-M22	22	89,3	44,6	34,5	35
UT-M25	25	98,3	49,1	36,8	35



COMPRESSION FITTINGS



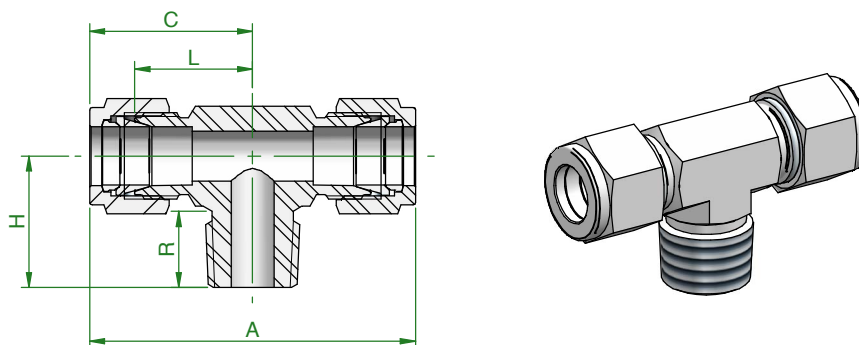
UNION CROSS CONNECTOR (INCHES)

CODE	TUBE O.D.	A	C	L	W - HEX
UC-2	1/8	1.76	0.98	0.62	7/16
UC-3	3/16	1.83	0.96	0.70	7/16
UC-4	1/4	2.12	1.06	0.76	1/2
UC-5	5/16	2.34	1.17	0.88	5/8
UC-6	3/8	2.40	1.20	0.91	5/8
UC-8	1/2	2.84	1.42	1.02	13/16
UC-10	5/8	3.06	1.53	1.13	1-1/16
UC-12	3/4	3.12	1.57	1.16	1-1/16
UC-14	7/8	3.52	1.76	1.36	1-5/16
UC-16	1	3.86	1.93	1.45	1-5/16

UNION CROSS CONNECTOR (MILLIMETERS)

CODE	TUBE O.D.	A	C	L	W - HEX
UC-M3	3	44,7	22,3	15,7	11
UC-M4	4	50,8	25,4	18,8	11
UC-M6	6	53,9	27	19,6	11
UC-M8	8	59,7	29,9	22,4	14
UC-M10	10	67	33,5	25,9	16
UC-M12	12	72	36	25,9	19
UC-M16	16	74	37	26,9	22
UC-M18	18	76,6	38,3	28,2	27

COMPRESSION FITTINGS



MALE BRANCH TEE (INCHES)

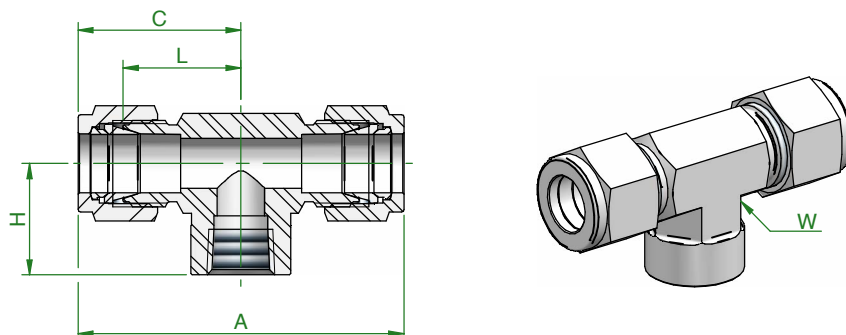
CODE	TUBE O.D.	NPT THREAD	A	C	H	L	R	W - HEX
BTM-2-2-N	1/8	1/8	1.84	0.92	0.70	0.66	0.38	7/16
BTM-2-4-N	1/8	1/4	1.96	0.98	0.93	0.72	0.56	1/2
BTM-3-2-N	3/16	1/8	2.00	1.00	0.74	0.74	0.38	1/2
BTM-4-2-N	1/4	1/8	2.12	1.06	0.74	0.77	0.38	1/2
BTM-4-4-N	1/4	1/4	2.12	1.07	0.93	0.77	0.56	1/2
BTM-5-2-N	5/16	1/8	2.34	1.17	0.82	0.88	0.38	5/8
BTM-5-4-N	5/16	1/4	2.34	1.17	1.01	0.88	0.56	5/8
BTM-6-4-N	3/8	1/4	2.40	1.20	1.01	0.91	0.56	5/8
BTM-6-6-N	3/8	3/8	2.62	1.31	1.12	1.02	0.56	13/16
BTM-8-6-N	1/2	3/8	2.84	1.42	1.12	1.02	0.56	13/16
BTM-8-12-N	1/2	1/2	2.86	1.43	1.31	1.03	0.75	7/8
BTM-10-8-N	5/8	1/2	2.86	1.53	1.42	1.13	0.75	1
BTM-12-12-N	3/4	3/4	3.14	1.57	1.46	1.17	0.75	1-1/16
BTM-14-12-N	7/8	3/4	3.52	1.76	1.65	1.36	0.75	1-3/8
BTM-16-12-N	1	3/4	3.88	1.94	1.65	1.45	0.75	1-3/8
BTM-16-16-N	1	1	3.88	1.94	1.84	1.45	0.94	1-3/8

MALE BRANCH TEE (MILLIMETERS)

CODE	TUBE O.D.	NPT THREAD	A	C	H	L	R	W - HEX
BTM-M6-2-N	6	1/8	53,9	27	18,8	19,6	9,7	11
BTM-M6-4-N	6	1/4	53,9	27	23,4	19,6	14,2	14
BTM-M8-2-N	8	1/8	59,7	29,9	20,8	22,4	9,7	14
BTM-M8-4-N	8	1/4	59,7	29,9	25,4	22,4	14,2	14
BTM-M10-4-N	10	1/4	67	33,5	28,2	25,9	14,2	16
BTM-M10-6-N	10	3/8	67	33,5	28,2	25,9	14,2	16
BTM-M12-4-N	12	1/4	72	36	28,2	25,9	14,2	16
BTM-M12-6-N	12	3/8	72	36	28,2	25,9	14,2	19
BTM-M12-8-N	12	1/2	72	36	33	25,9	19	19
BTM-M16-8-N	16	1/2	77,6	38,8	35,8	28,7	19,1	22



COMPRESSION FITTINGS



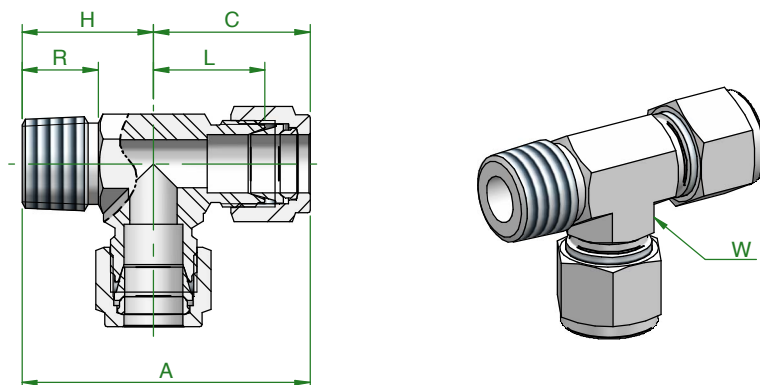
FEMALE BRANCH TEE (INCHES)

CODE	TUBE O.D.	NPT THREAD	A	C	H	L	W - HEX
BTF-2-2-N	1/8	1/8	1.91	1.01	.075	0.70	1/2
BTF-3-2-N	3/16	1/8	2.02	1.01	0.75	0.74	1/2
BTF-4-2-N	1/4	1/8	2.12	1.06	0.75	0.77	1/2
BTF-4-4-N	1/4	1/4	2.34	1.17	0.88	0.88	11/16
BTF-5-2-N	5/16	1/8	2.34	1.17	0.75	0.88	5/8
BTF-6-4-N	3/8	1/4	2.46	1.23	0.88	0.94	11/16
BTF-8-4-N	1/2	1/4	2.84	1.42	0.88	1.02	13/16
BTF-8-6-N	1/2	3/8	2.84	1.42	0.88	1.02	7/8
BTF-8-8-N	1/2	1/2	3.06	1.53	1.13	1.13	1
BTF-10-8-N	5/8	1/2	3.06	1.53	1.13	1.13	1
BTF-12-12-N	3/4	3/4	3.52	1.76	1.25	1.36	1-3/8
BTF-14-12-N	7/8	3/4	3.52	1.76	1.25	1.36	1-3/8
BTF-16-12-N	1	3/4	3.86	1.94	1.25	1.45	1-3/8
BTF-16-16-N	1	1	4.28	2.14	1.50	1.65	1-5/8

FEMALE BRANCH TEE (MILLIMETERS)

CODE	TUBE O.D.	NPT THREAD	A	C	H	L	W - HEX
BTF-M6-2-N	6	1/8	53,9	27	19	19,6	14
BTF-M6-4-N	6	1/4	59,5	29,8	22,4	22,4	14
BTF-M8-2-N	8	1/8	59,7	29,9	19	22,4	14
BTF-M10-4-N	10	1/4	67	33,5	22,4	25,9	19
BTF-M12-2-N	12	1/8	72	36	22,3	25,9	19
BTF-M12-4-N	12	1/4	72	36	22,3	25,9	19
BTF-M12-6-N	12	3/8	72	36	22,4	25,9	22
BTF-M12-8-N	12	1/2	77,6	38,8	28,5	28,7	27

COMPRESSION FITTINGS



MALE RUN TEE (INCHES)

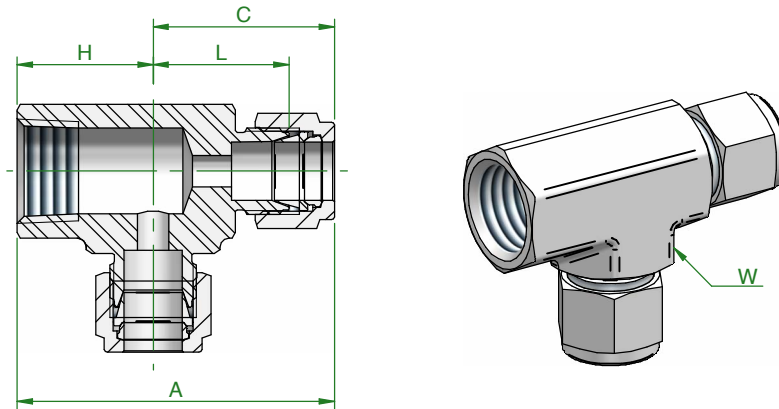
CODE	TUBE O.D.	NPT THREAD	A	C	H	L	R	W - HEX
RTM-2-2	1/8	1/8	1.63	0.93	0.71	0.66	0.38	7/16
RTM-2-4	1/8	1/4	1.89	0.97	0.93	0.70	0.56	9/16
RTM-3-2	3/16	1/8	1.66	0.96	0.70	0.70	0.38	7/16
RTM-4-2	1/4	1/8	1.80	1.06	0.74	0.77	0.38	1/2
RTM-4-4	1/4	1/4	1.98	1.06	0.93	0.77	0.56	1/2
RTM-5-2	5/16	1/8	1.99	1.17	0.82	0.88	0.38	5/8
RTM-5-4	5/16	1/4	2.18	1.17	1.01	0.88	0.56	5/8
RTM-6-4	3/8	1/4	2.20	1.20	1.01	0.91	0.56	5/8
RTM-6-6	3/8	3/8	2.42	1.31	1.12	1.02	0.56	13/16
RTM-8-6	1/2	3/8	2.53	1.42	1.12	1.02	0.56	13/16
RTM-8-8	1/2	1/2	2.72	1.42	1.31	1.02	0.75	7/8
RTM-10-8	5/8	1/2	2.88	1.50	1.39	1.10	0.75	15/16
RTM-12-12	3/4	3/4	3.02	1.57	1.46	1.17	0.75	1-1/16
RTM-14-12	7/8	3/4	3.41	1.76	1.65	1.36	0.75	1-3/8
RTM-16-12	1	3/4	3.59	1.94	1.65	1.45	0.75	1-3/8
RTM-16-16	1	1	3.78	1.94	1.84	1.45	0.94	1-3/8

MALE RUN TEE (MILLIMETERS)

CODE	TUBE O.D.	NPT THREAD	A	C	D		R	W - HEX
RTM-M6-2	6	1/8	45,8	27	18	19,6	9,7	11
RTM-M6-4	6	1/4	50,3	27	23,4	19,6	14,2	11
RTM-M8-2	8	1/8	50,7	29,9	20,8	22,4	9,7	14
RTM-M8-4	8	1/4	55,3	29,9	25,4	22,4	14,2	14
RTM-M10-4	10	1/4	61,7	33,5	28,2	25,9	14,2	16
RTM-M10-8	10	1/2	66,5	33,5	33	25,9	19	19
RTM-M12-4	12	1/4	64,2	36	28,2	25,9	14,2	19
RTM-M12-6	12	3/8	64,2	36	28,2	25,9	14,2	19
RTM-M12-8	12	1/2	69	36	33	25,9	19	19
RTM-M16-16	16	1	93,1	46,6	46,5	34,4	23,9	35



COMPRESSION FITTINGS



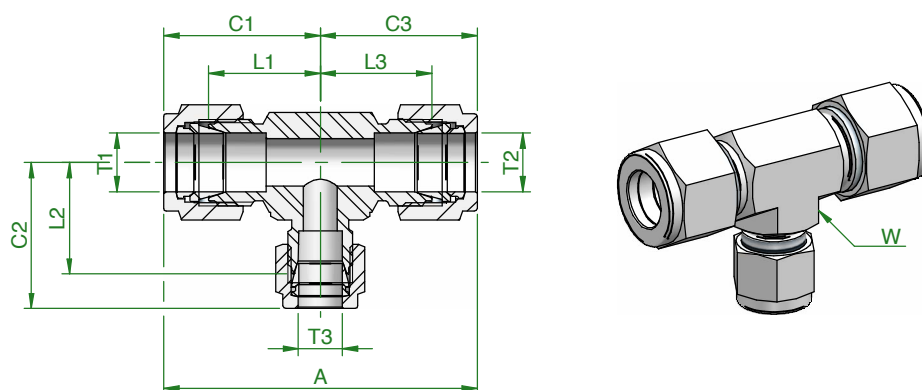
FEMALE RUN TEE (INCHES)

CODE	TUBE O.D.	NPT THREAD	A	C	H	L	W - HEX
RTF-2-2	1/8	1/8	1.72	0.96	0.75	0.70	1/2
RTF-3-2	3/16	1/8	1.76	1.01	0.75	0.74	1/2
RTF-4-2	1/4	1/8	1.81	1.06	0.75	0.77	1/2
RTF-4-4	1/4	1/4	2.05	1.17	0.88	0.88	11/16
RTF-5-2	5/16	1/8	1.92	1.17	0.75	0.88	5/8
RTF-6-4	3/8	1/4	2.11	1.23	0.88	0.94	11/16
RTF-8-4	1/2	1/4	2.56	1.42	0.88	1.02	13/16
RTF-8-6	1/2	3/8	2.30	1.42	0.88	1.02	7/8
RTF-8-8	1/2	1/2	2.66	1.53	1.13	1.13	1
RTF-10-8	5/8	1/2	2.70	1.57	1.13	1.17	1-1/16
RTF-12-12	3/4	3/4	3.01	1.76	1.25	1.36	1-3/8
RTF-14-8	7/8	1/2	3.01	1.76	1.25	1.36	1-3/8
RTF-14-12	7/8	3/4	3.01	1.76	1.25	1.36	1-3/8

FEMALE RUN TEE (MILLIMETERS)

CODE	TUBE O.D.	NPT THREAD	A	C	H	L	W - HEX
RTF-M6-2	6	1/8	46	27	19	19,6	16
RTF-M6-4	6	1/4	52,1	29,8	22,4	22,4	19
RTF-M8-2	8	1/8	48,9	29,9	19	22,4	16
RTF-M10-4	10	1/4	55,9	33,5	22,4	25,9	19
RTF-M12-4	12	1/4	58,4	36	22,4	25,9	19
RTF-M12-6	12	3/8	58,4	36	22,4	25,9	22
RTF-M12-8	12	1/2	67,3	38,8	28,5	28,7	27
RTF-M16-8	16	1/2	68,2	39,8	28,4	29,7	27

COMPRESSION FITTINGS

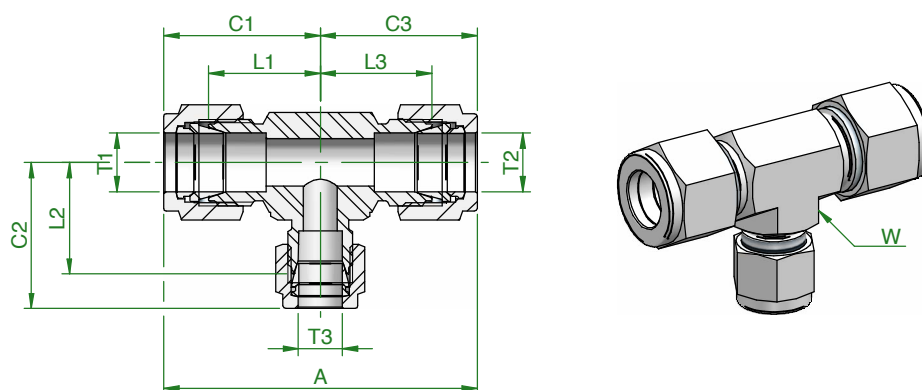


REDUCING UNION TEE (INCHES)

CODE	TUBE "1" O.D.	TUBE "2" O.D.	TUBE "3" O.D.	A	L1	C1	L2	C2	L3	C3	W - HEX
UTR-4-4-2	1/4	1/4	1/8	2.10	0.76	1.05	0.76	1.05	0.70	0.96	1/2
UTR-6-6-4	3/8	3/8	1/4	2.40	0.91	1.20	0.91	1.20	0.85	1.14	5/8
UTR-6-4-6	3/8	1/4	3/8	2.34	0.91	1.20	0.85	1.14	0.91	1.20	5/8
UTR-6-4-4	3/8	1/4	1/4	2.34	0.91	1.20	0.85	1.14	0.85	1.14	5/8
UTR-8-8-6	1/2	1/2	3/8	2.84	1.02	1.42	1.02	1.42	1.02	1.31	13/16
UTR-8-8-4	1/2	1/2	1/4	2.84	1.02	1.42	1.02	1.42	0.96	1.25	13/16
UTR-8-6-8	1/2	3/8	1/2	2.73	1.02	1.42	1.02	1.31	1.02	1.42	13/16
UTR-8-4-8	1/2	1/4	1/2	2.67	1.02	1.42	0.96	1.25	1.02	1.42	13/16
UTR-8-6-6	1/2	3/8	3/8	2.73	1.02	1.42	1.02	1.31	1.02	1.31	13/16
UTR-10-8-6	5/8	1/2	3/8	3.06	1.13	1.53	1.13	1.53	1.13	1.42	7/8
UTR-12-12-8	3/4	3/4	1/2	3.12	1.16	1.56	1.16	1.56	1.16	1.56	1-1/16
UTR-12-12-6	3/4	3/4	3/8	3.12	1.16	1.56	1.16	1.56	1.16	1.45	1-1/16
UTR-12-12-4	3/4	3/4	1/4	3.12	1.16	1.56	1.16	1.56	1.10	1.39	1-1/16
UTR-12-8-8	3/4	1/2	1/2	3.12	1.16	1.56	1.16	1.56	1.16	1.56	1-1/16
UTR-12-6-6	3/4	3/8	3/8	3.01	1.16	1.56	1.16	1.45	1.16	1.45	1-1/16
UTR-16-16-12	1	1	3/4	3.88	1.45	1.94	1.45	1.94	1.36	1.76	1-3/8
UTR-16-16-8	1	1	1/2	3.88	1.45	1.94	1.45	1.94	1.36	1.76	1-3/8
UTR-16-16-6	1	1	3/8	3.88	1.45	1.94	1.45	1.94	1.36	1.65	1-3/8
UTR-16-16-4	1	1	1/4	3.88	1.45	1.94	1.45	1.94	1.30	1.59	1-3/8
UTR-16-12-8	1	3/4	1/2	3.70	1.45	1.94	1.36	1.76	1.36	1.76	1-3/8
UTR-16-8-8	1	1/2	1/2	3.70	1.45	1.94	1.36	1.76	1.36	1.76	1-3/8
UTR-16-8-6	1	1/2	3/8	3.70	1.45	1.94	1.36	1.76	1.36	1.65	1-3/8
UTR-16-8-4	1	1/2	1/4	3.70	1.45	1.94	1.36	1.76	1.30	1.59	1-3/8
UTR-16-6-6	1	3/8	3/8	3.59	1.45	1.94	1.36	1.65	1.36	1.65	1-3/8



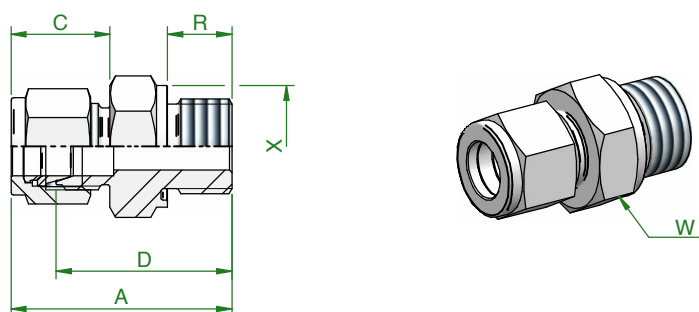
COMPRESSION FITTINGS



REDUCING UNION TEE (MILLIMETERS)

CODE	TUBE "1" O.D.	TUBE "2" O.D.	TUBE "3" O.D.	A	L1	C1	L2	C2	L3	C3	W - HEX
UTR-M6-M6-M3	6	6	3	53.3	19.3	26.6	19.3	26.6	17.8	24.4	11
UTR-M6-M3-M6	6	3	6	56	19.3	26.6	17.8	24.4	19.3	26.6	11
UTR-M10-M10-M6	10	10	6	61	48.5	30.5	23.1	30.5	21.6	28.9	16
UTR-M10-M6-M10	10	6	10	59.5	48.5	30.5	21.6	29	23.1	30.3	16
UTR-M10-M6-M6	10	6	6	59.5	48.5	30.5	21.6	29	21.6	28.9	16
UTR-M12-M12-M6	12	12	6	72.2	25.9	36	25.9	36	24.4	31.75	19
UTR-M12-M6-M6	12	6	6	67.8	25.9	36	24.4	31.75	24.4	31.75	19
UTR-M12-M6-M12	12	6	12	67.8	25.9	36	24.4	31.75	25.9	36	19
UTR-M12-M12-M10	12	12	10	72.1	25.9	36	25.9	36	25.9	33.3	19
UTR-M12-M10-M12	12	10	12	69.3	25.9	36	25.9	33.3	25.9	36	19
UTR-M12-M10-M10	12	10	10	69.3	25.9	36	25.9	33.3	25.9	33.3	19
UTR-M20-M20-M6	20	20	6	79.2	29.5	39.6	29.5	39.6	27.9	35.6	35
UTR-M20-M20-M10	20	20	10	79.2	29.5	39.6	29.5	39.6	29.5	36.8	33
UTR-M20-M20-M12	20	20	12	79.2	29.5	39.6	29.5	39.6	29.5	39.6	35
UTR-M20-M10-M10	20	10	10	76.5	29.5	39.6	29.5	36.8	29.5	36.8	35
UTR-M20-M12-M12	20	12	12	79.2	29.5	39.6	29.5	39.6	29.5	39.6	35
UTR-M20-M12-10M	20	12	10	79.2	29.5	39.6	29.5	39.6	29.5	36.8	35
UTR-M25-M25-6M	25	25	6	98.5	36.8	49.3	36.8	49.3	33	40.4	35
UTR-M25-M25-M10	25	25	10	98.5	36.8	49.3	36.8	49.3	34.5	41.9	35
UTR-M25-M25-M12	25	25	12	98.5	36.8	49.3	36.8	49.3	34.5	44.7	35
UTR-M25-M25-M20	25	25	20	98.5	36.8	49.3	36.8	49.3	34.5	44.7	35
UTR-M25-M12-M25	25	12	25	94	36.8	49.3	34.5	44.7	36.8	49.3	35
UTR-M25-M20-M25	25	20	25	94	36.8	49.3	34.5	44.7	36.8	49.3	35
UTR-M25-M10-M10	25	10	10	91.2	36.8	49.3	34.5	44.7	36.8	41.9	35
UTR-M25-M12-M12	25	12	12	94	36.8	49.3	34.5	44.7	36.8	44.7	35
UTR-M25-M12-M6	25	12	6	94	36.8	49.3	34.5	44.7	33	40.3	35
UTR-M25-M12-M10	25	12	10	94	36.8	49.3	34.5	44.7	36.8	41.9	35
UTR-M25-M20-M12	25	20	12	94	36.8	49.3	34.5	44.7	36.8	44.7	35

COMPRESSION FITTINGS



O-RING CONNECTOR (INCHES)

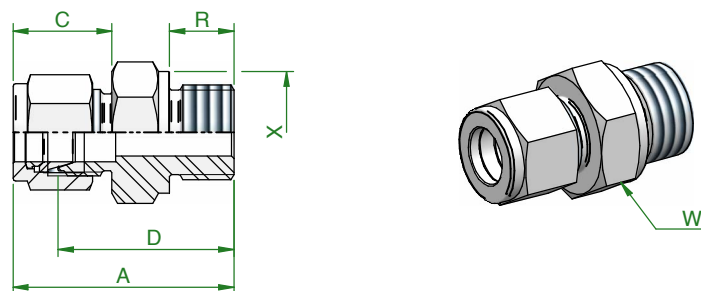
CODE	TUBE O.D.	BSPP THREAD	A	C	D	R	X	W - HEX
COM-4-4	1/4	1/4	1.48	0.70	1.19	0.47	0.74	3/4
COM-4-8	1/4	1/4	1.76	0.70	1.38	0.55	1.04	1-1/16
COM-6-6	3/8	3/8	1.60	0.76	1.31	0.47	0.86	7/8
COM-8-4	1/2	1/2	1.69	0.86	1.31	0.47	0.74	13/16
COM-8-6	1/2	1/2	1.69	0.86	1.31	0.47	0.86	7/8
COM-8-8	1/2	1/2	1.85	0.86	1.47	0.55	1.04	1-1/16
COM-12-12	3/4	3/4	1.98	0.86	1.59	0.63	1.25	1-5/16

O-RING CONNECTOR (MILLIMETERS)

CODE	TUBE O.D.	BSPP THREAD	A	C	D	R	X	W - HEX
COM-M6-2	6	1/8	32,5	17,7	25	7,9	13,7	14
COM-M6-4	6	1/4	38,2	17,7	30,7	11,9	18,8	19
COM-M6-6	6	3/8	39,5	17,7	32	11,9	21,8	22
COM-M6-8	6	1/2	44,5	17,7	37	14	26,4	27
COM-M10-4	10	1/4	40	19,5	32,3	11,9	18,8	19
COM-M10-6	10	3/8	41,1	19,5	38,1	11,9	21,8	22
COM-M10-8	10	1/2	46	19,5	38,4	14	26,4	27
COM-M12-4	12	1/4	43,1	22	33	11,9	18,8	22
COM-M12-6	12	3/8	43,6	22	33,5	11,9	21,8	22
COM-M12-8	12	1/2	48,5	22	38,4	14	26,4	27



COMPRESSION FITTINGS



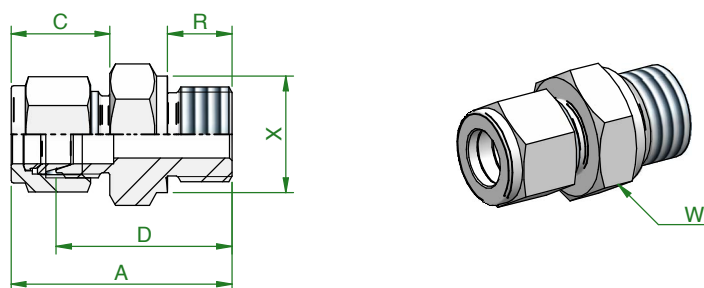
METALLIC SEAL CONNECTOR (INCHES)

CODE	TUBE O.D.	BSPP THREAD	A	C	D	R	X	W - HEX
COS-4-2	1/4	1/8	1.28	0.70	0.98	0.28	0.54	9/16
COS-4-4	1/4	1/4	1.49	0.70	1.19	0.44	0.70	3/4
COS-4-6	1/4	3/8	1.55	0.70	1.25	0.44	0.86	7/8
COS-4-8	1/4	1/2	1.77	0.70	1.47	0.56	1.01	1-1/16
COS-6-2	3/8	1/8	1.35	0.76	1.06	0.28	0.54	5/8
COS-6-4	3/8	1/4	1.54	0.76	1.25	0.44	0.70	3/4
COS-6-6	3/8	3/8	1.57	0.76	1.28	0.44	0.86	7/8
COS-6-8	3/8	1/2	1.82	0.76	1.53	0.56	1.01	1-1/16
COS-8-4	1/2	1/4	1.66	0.86	1.28	0.44	0.70	13/16
COS-8-6	1/2	3/8	1.69	0.86	1.31	0.44	0.86	7/8
COS-8-8	1/2	1/2	1.91	0.86	1.53	0.56	1.01	1-1/16
COS-12-8	3/4	1/2	1.93	0.86	1.53	0.56	1.01	1-1/16
COS-12-12	3/4	3/4	2.07	0.86	1.69	0.63	1.25	1-3/8
COS-16-8	1	1/2	2.21	1.04	1.72	0.56	1.01	1-3/8
COS-16-16	1	1	2.35	1.04	1.88	0.72	1.52	1-5/8

METALLIC SEAL CONNECTOR (MILLIMETERS)

CODE	TUBE O.D.	BSPP THREAD	A	C	D	R	X	W - HEX
COS-M6-2	6	1/8	32,5	17,7	25	7,1	13,7	14
COS-M6-4	6	1/4	37,7	17,7	30,2	11,2	17,8	19
COS-M6-6	6	3/8	39	17,7	31,5	11,2	21,8	22
COS-M6-8	6	1/2	45,6	17,7	38,1	14,2	25,7	27
COS-M8-2	8	1/8	33,1	18,6	25,6	7,1	15	14
COS-M8-4	8	1/4	38,5	18,6	31	11,2	17,8	19
COS-M8-6	8	3/8	39,8	18,6	32,3	11,2	21,8	22
COS-M8-8	8	1/2	45,6	18,6	38,1	14,2	25,7	27
COS-M10-4	10	1/4	39,4	19,5	31,8	11,2	17,8	19
COS-M10-6	10	3/8	40,6	19,5	33	11,2	21,8	22
COS-M10-8	10	1/2	46,5	19,5	38,9	14,2	25,7	27
COS-M12-4	12	1/4	42,6	22	32,5	11,2	17,8	22
COS-M12-6	12	3/8	43,1	22	33	11,2	21,8	22
COS-M12-8	12	1/2	49	22	38,9	14,2	25,7	27
COS-M12-12	12	3/4	52,8	22	42,7	16	31,8	36
COS-M16-6	16	3/8	43,5	22	33,4	11,2	22	24
COS-M16-8	16	1/2	49	22	38,9	14,2	26	27
COS-M18-8	18	1/2	49	22	38,9	14,2	26	27
COS-M18-12	18	3/4	53,1	22	43	16	35	32
COS-M20-8	20	1/2	50,5	22	40,4	14,2	30	27
COS-M20-12	20	3/4	52,8	22	42,7	16	32	36
COS-M22-12	22	3/4	52,8	22	42,7	16	32	36
COS-M25-12	25	3/4	59,8	26,5	47,6	16	35	36
COS-M25-16	25	1	60,1	26,5	47,8	18,3	39	41

COMPRESSION FITTINGS



ETCHING CONNECTOR (INCHES)

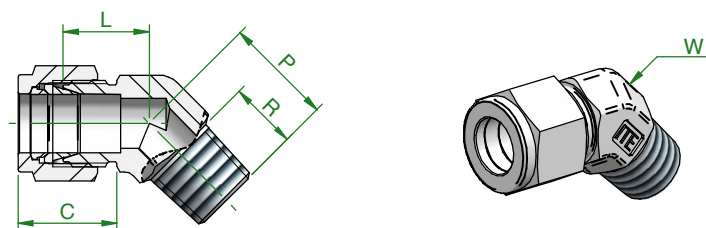
CODE	TUBE O.D.	BSPP THREAD	A	C	D	R	X	W - HEX
CMI-4-4	1/4	1/4	1.48	0.70	1.19	0.47	0.74	3/4
CMI-4-8	1/4	1/2	1.76	0.70	1.38	0.55	1.04	1-1/16
CMI-6-6	3/8	3/8	1.60	0.76	1.31	0.47	0.86	7/8
CMI-8-4	1/2	1/4	1.69	0.86	1.31	0.47	0.74	13/16
CMI-8-6	1/2	3/8	1.69	0.86	1.31	0.47	0.86	7/8
CMI-8-8	1/2	1/2	1.85	0.86	1.47	0.55	1.04	1-1/16
CMI-12-12	3/4	3/4	1.98	0.86	1.59	0.63	1.25	1-5/16

ETCHING CONNECTOR (MILLIMETERS)

CODE	TUBE O.D.	BSPP THREAD	A	C	D	R	X	W - HEX
CMI-M6-2	6	1/8	32,5	17,7	25	7,9	13,7	14
CMI-M6-4	6	1/4	38,2	17,7	30,7	11,9	18,8	19
CMI-M6-6	6	3/8	39,5	17,7	32	11,9	21,8	22
CMI-M6-8	6	1/2	44,5	17,7	37	14	26,4	27
CMI-M10-4	10	1/4	40	19,5	32,3	11,9	18,8	19
CMI-M10-6	10	3/8	41,1	19,5	38,1	11,9	21,8	22
CMI-M10-8	10	1/2	46	19,5	38,4	14	26,4	27
CMI-M12-4	12	1/4	43,1	22	33	11,9	18,8	22
CMI-M12-6	12	3/8	43,6	22	33,5	11,9	21,8	22
CMI-M12-8	12	1/2	48,5	22	38,4	14	26,4	27



COMPRESSION FITTINGS



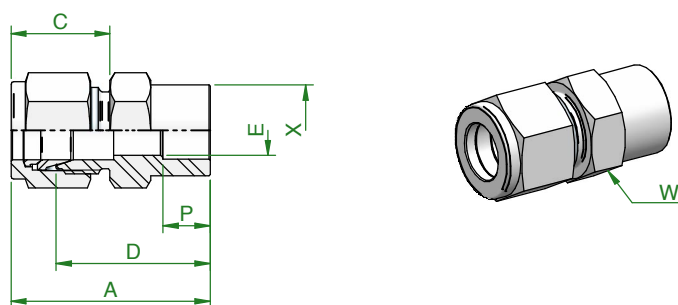
MALE ELBOW 45° CONNECTOR (INCHES)

CODE	TUBE O.D.	NPT THREAD	C	L	P	R	W - HEX
E45M-1-1	1/16	1/16	0.43	0.47	0.57	0.38	7/16
E45M-2-2	1/8	1/8	0.60	0.53	0.57	0.38	7/16
E45M-3-2	3/16	1/8	0.64	0.56	0.58	0.38	7/16
E45M-4-2	1/4	1/8	0.70	0.66	0.66	0.38	9/16
E45M-4-4	1/4	1/4	0.70	0.66	0.86	0.56	9/16
E45M-5-2	5/16	1/8	0.73	0.66	0.66	0.38	9/16
E45M-6-2	3/8	1/8	0.76	0.72	0.67	0.38	9/16
E45M-6-4	3/8	1/4	0.76	0.72	0.86	0.56	9/16
E45M-6-6	3/8	3/8	0.76	0.75	0.95	0.56	3/4
E45M-8-6	1/2	3/8	0.87	0.75	0.95	0.56	3/4
E45M-10-8	5/8	1/2	0.87	0.84	1.20	0.75	1-1/16
E45M-12-12	3/4	3/4	0.87	0.84	1.20	0.75	1-1/16
E45M-14-12	7/8	3/4	0.87	1.36	1.27	0.75	1-5/16
E45M-16-16	1	1	1.05	1.19	1.14	0.94	1-5/16

MALE ELBOW 45° CONNECTOR (MILLIMETERS)

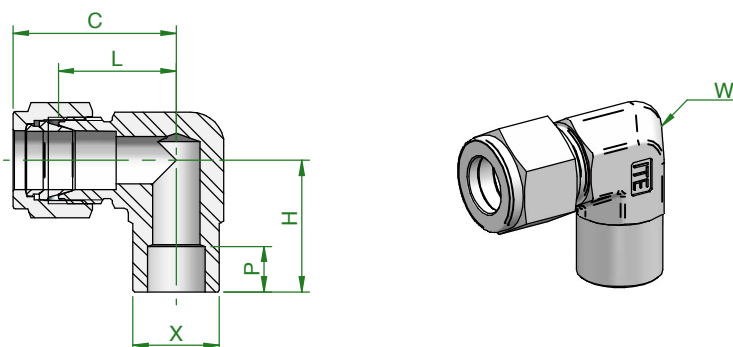
CODE	TUBE O.D.	NPT THREAD	C	L	P	R	W - HEX
E45M-M6-2	6	1/8	17,7	16	16,8	9,5	14
E45M-M6-4	6	1/4	17,7	16	21,8	14,3	14
E45M-M8-2	8	1/8	18,6	16,8	16,8	9,5	14
E45M-M10-4	10	1/4	19,5	19	24,1	14,3	19
E45M-M12-6	12	3/8	22	19	24,1	14,3	19
E45M-M12-8	12	1/2	22	20,6	29,7	19	22
E45M-M16-8	16	1/2	22	20,6	29,7	19	22

COMPRESSION FITTINGS



SOCKET WELD CONNECTOR (INCHES)

CODE	TUBE O.D.	S.W. SIZE (TUBING)	A	C	D	P	X	E	W - HEX
CW-2-2	1/8	1/8	1.16	0.60	0.90	0.16	0.16	0.94	7/16
CW-3-3	3/16	3/16	1.24	0.64	0.98	0.20	0.20	0.141	1/2
CW-4-4	1/4	1/4	1.36	0.70	1.07	0.25	0.25	0.188	9/16
CW-6-6	3/8	3/8	1.53	0.76	1.24	0.34	0.34	0.313	11/16
CW-8-8	1/2	1/2	1.74	0.87	1.34	0.41	0.41	0.438	13/16
CW-10-10	5/8	5/8	1.86	0.87	1.46	0.47	0.47	0.500	1
CW-12-12	3/4	3/4	1.92	0.87	1.52	0.50	0.50	0.656	1-1/8
CW-16-16	1	1	2.31	1.05	1.82	0.56	0.56	0.906	1-5/8

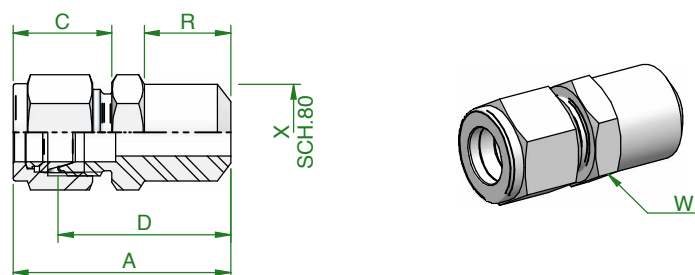


SOCKET WELD ELBOW CONNECTOR (INCHES)

CODE	TUBE O.D.	S.W. SIZE (TUBING)	C	L	H	P	X	W - HEX
EW-2-2	1/8	1/8	0.92	0.66	0.63	0.16	0.38	5/16
EW-3-3	3/16	3/16	0.98	0.72	0.69	0.20	0.44	7/16
EW-4-4	1/4	1/4	1.06	0.78	0.84	0.25	0.50	9/16
EW-6-6	3/8	3/8	1.31	1.02	1.08	0.34	0.63	3/4
EW-8-8	1/2	1/2	1.42	1.02	1.14	0.41	0.76	3/4
EW-10-10	5/8	5/8	1.57	1.17	1.35	0.49	0.94	1-1/16
EW-12-12	3/4	3/4	1.57	1.17	1.39	0.50	1.09	1-1/16
EW-16-16	1	1	1.93	1.65	1.84	0.56	1.38	1-5/8



COMPRESSION FITTINGS



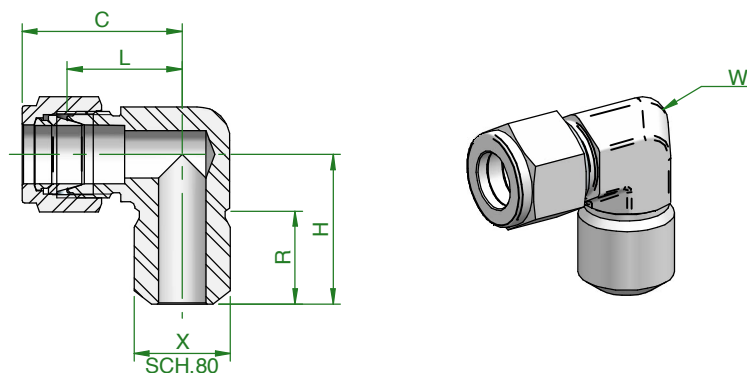
BUTTWELD CONNECTOR (INCHES)

CODE	TUBE O.D.	B.W.	A	C	D	R	X	W - HEX
CB-2-2	1/8	1/8	1.20	0.60	0.94	0.38	0.405	7/16
CB-3-2	3/16	1/8	1.24	0.64	0.97	0.38	0.405	7/16
CB-4-2	1/4	1/8	1.29	0.70	1.00	0.38	0.405	1/2
CB-4-4	1/4	1/4	1.46	0.70	1.17	0.56	0.540	9/16
CB-5-2	5/16	1/8	1.48	0.73	1.22	0.38	0.405	1/2
CB-5-4	5/16	1/4	1.49	0.76	1.23	0.56	0.540	9/16
CB-6-4	3/8	1/4	1.49	0.76	1.20	0.56	0.540	9/16
CB-6-6	3/8	3/8	1.60	0.76	1.31	0.56	0.675	3/4
CB-6-8	3/8	1/2	1.82	0.76	1.53	0.75	0.840	7/8
CB-6-12	3/8	3/4	1.88	0.76	1.59	0.75	1050	1-1/8
CB-8-6	1/2	3/8	1.71	0.87	1.31	0.56	0.675	13/16
CB-8-8	1/2	1/2	1.93	0.87	1.53	0.75	0.840	7/8
CB-8-12	1/2	3/4	1.99	0.87	1.59	0.75	1050	1-1/8
CB-10-8	5/8	1/2	1.93	0.87	1.53	0.75	0.840	15/16
CB-12-12	3/4	3/4	1.99	0.87	1.59	0.75	1050	7/8
CB-16-16	1	1	2.46	1.05	1.97	0.94	1310	1-1/16

BUTTWELD CONNECTOR (MILLIMETERS)

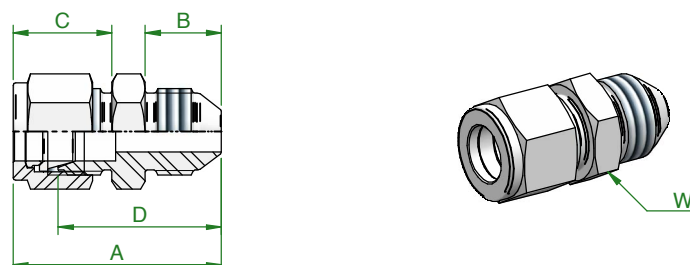
CODE	TUBE O.D.	B.W.	A	C	D	R	X	W - HEX
CB-M3-2	3	1/8	29,7	15,3	23,1	9,7	2,4	12
CB-M4-2	4	1/8	30,7	16,1	24,1	9,7	2,4	12
CB-M6-2	6	1/8	32,9	17,7	25,4	9,7	4,8	14
CB-M6-4	6	1/4	37,7	17,7	30,2	14,2	4,8	14
CB-M8-2	8	1/8	34,2	18,6	26,7	9,7	5,1	16
CB-M8-4	8	1/4	38,7	18,6	31,2	14,2	6,4	16
CB-M8-8	8	1/2	44,8	18,6	37,3	19,1	6,4	22
CB-M10-4	10	1/4	40,9	19,5	33,3	14,2	7,1	19
CB-M10-6	10	3/8	40,1	19,5	32,5	14,2	7,9	19
CB-M10-8	10	1/2	45,7	19,5	38,1	19,1	7,9	22
CB-M12-4	12	1/4	43,4	22	33,3	14,2	7,1	22
CB-M12-6	12	3/8	43,4	22	33,3	14,2	9,5	22
CB-M12-8	12	1/2	48,2	22	38,1	19,1	9,5	22
CB-M16-8	16	1/2	49	22	38,9	19,1	12,7	24
CB-M18-8	18	1/2	50,5	22	40,4	19,1	13,5	27

COMPRESSION FITTINGS



BUTTWELD ELBOW CONNECTOR (INCHES)

CODE	TUBE O.D.	B.W.	C	H	L	R	X	W - HEX
EB-2-2	1/8	1/8	0.93	0.70	0.67	0.38	0.405	7/16
EB-3-2	3/16	1/8	1.01	0.74	0.74	0.38	0.405	7/16
EB-4-2	1/4	1/8	1.06	0.74	0.77	0.38	0.405	7/16
EB-4-4	1/4	1/4	1.10	0.97	0.78	0.56	0.540	9/16
EB-6-4	3/8	1/4	1.20	1.00	0.91	0.56	0.540	5/8
EB-8-6	1/2	3/8	1.42	1.11	1.02	0.56	0.675	13/16
EB-8-8	1/2	1/2	1.42	1.30	1.02	0.75	0.840	7/8
EB-10-8	5/8	1/2	1.50	1.39	1.10	0.75	0.840	15/16
EB-12-12	3/4	3/4	1.57	1.45	1.17	0.75	1050	1-1/16
EB-16-12	1	3/4	1.94	1.64	1.45	0.75	1050	1-3/8
EB-16-16	1	1	1.94	1.84	1.45	0.94	1315	1-5/16

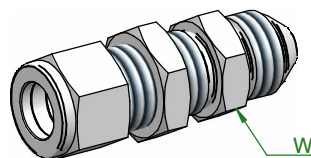
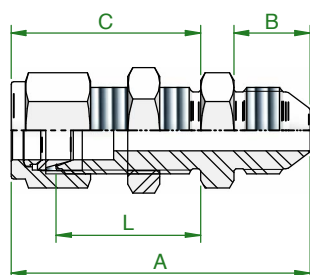


37° FLARE CONNECTOR (INCHES)

CODE	TUBE O.D.	FLARE END	A	B	C	D	W - HEX
CS-2-1	1/8	1/16	1.07	0.45	0.43	0.92	7/16
CS-2-2	1/8	1/8	1.28	0.45	0.60	1.02	7/16
CS-4-2	1/4	1/8	1.39	0.55	0.60	1.13	1/2
CS-3-3	3/16	3/16	1.32	0.48	0.64	1.06	7/16
CS-4-4	1/4	1/4	1.48	0.55	0.70	1.19	1/2
CS-5-5	5/16	5/16	1.52	0.55	0.73	1.22	9/16
CS-4-6	1/4	3/8	1.56	0.55	0.76	1.27	5/8
CS-6-6	3/8	3/8	1.56	0.56	0.76	1.27	5/8
CS-8-8	1/2	1/2	1.81	0.66	0.87	1.41	13/16
CS-10-10	5/8	5/8	1.93	0.76	0.87	1.53	15/16
CS-12-12	3/4	3/4	2.11	0.86	0.87	1.70	1-1/8
CS-16-16	1	1	2.43	0.91	1.05	1.94	1-3/8

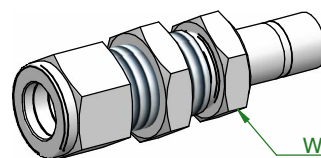
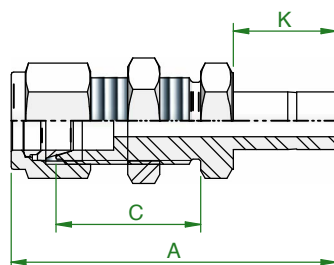


COMPRESSION FITTINGS



37° FLARE BULKHEAD CONNECTOR (INCHES)

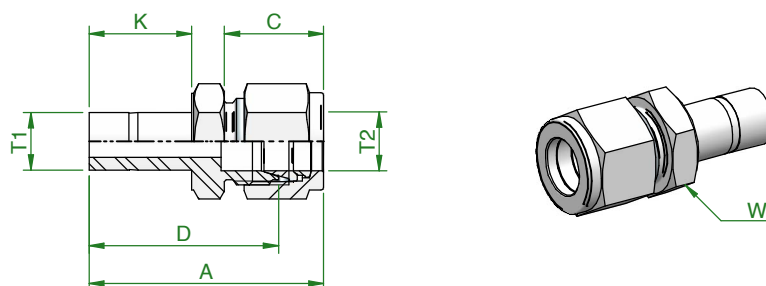
CODE	TUBE O.D.	FLARE END	A	C	L	B	W - HEX
BUS-2-2	1/8	1/8	1.91	1.23	0.97	0.45	1/2
BUS-3-3	3/16	3/16	1.98	1.26	1.00	0.48	9/16
BUS-4-2	1/4	1/8	2.04	1.23	0.97	0.55	5/8
BUS-4-4	1/4	1/4	2.12	1.31	1.02	0.55	5/8
BUS-5-5	5/16	5/16	2.21	1.41	1.12	0.55	11/16
BUS-4-6	1/4	3/8	2.25	1.44	1.15	0.55	3/4
BUS-6-6	3/8	3/8	2.25	1.44	1.15	0.56	3/4
BUS-8-8	1/2	1/2	2.59	1.65	1.25	0.66	15/16
BUS-10-10	5/8	5/8	2.74	1.68	1.28	0.76	1-1/16
BUS-12-12	3/4	3/4	3.11	1.87	1.47	0.86	1-3/16
BUS-16-16	1	1	3.65	2.27	1.78	0.91	1-9/16



BULKHEAD ADAPTER (INCHES)

CODE	TUBE O.D.	A	C	K	W HEX
BA-2	1/8	1.95	1.23	0.53	1/2
BA-4	1/4	2.20	1.31	0.63	5/8
BA-6	3/8	2.42	1.44	0.69	3/4
BA-8	1/2	2.87	1.65	0.91	15/16

COMPRESSION FITTINGS

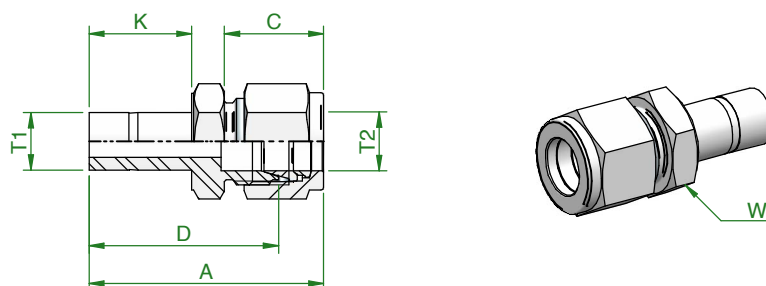


REDUCER (INCHES)

CODE	TUBE "1" O.D.	TUBE "2" O.D.	A	C	D	K	W - HEX
R-2-1	1/8	1/16	1.10	0.43	0.95	0.53	5/16
R-3-1	3/16	1/16	1.13	0.43	0.98	0.58	5/16
R-4-1	1/4	1/16	1.24	0.43	1.09	0.63	7/16
R-1-2	1/16	1/8	1.18	0.60	0.92	0.38	7/16
R-2-2	1/8	1/8	1.34	0.43	1.09	0.54	7/16
R-3-2	3/16	1/8	1.35	0.60	1.09	0.58	7/16
R-4-2	1/4	1/8	1.42	0.60	1.16	0.63	7/16
R-6-2	3/8	1/8	1.48	0.60	1.22	0.69	7/16
R-8-2	1/2	1/8	1.74	0.60	1.48	0.91	9/16
R-2-3	1/8	3/16	1.37	0.63	1.11	0.53	7/16
R-4-3	1/4	3/16	1.46	0.63	1.20	0.63	7/16
R-2-4	1/8	1/4	1.45	0.70	1.16	0.53	1/2
R-3-4	3/16	1/4	1.48	0.60	1.19	0.56	1/2
R-4-4	1/4	1/4	1.54	0.70	1.25	0.63	1/2
R-5-4	5/16	1/4	1.57	0.70	1.28	0.66	1/2
R-6-4	3/8	1/4	1.60	0.70	1.31	0.69	1/2
R-8-4	1/2	1/4	1.82	0.70	1.53	0.91	9/16
R-5-4	5/8	1/4	1.89	0.70	1.60	0.97	11/16
R-12-4	3/4	1/4	1.88	0.70	1.59	0.97	13/16
R-6-5	3/8	5/16	1.65	0.73	1.36	0.69	9/16
R-8-5	1/2	5/16	1.87	0.73	1.58	0.91	9/16
R-4-6	1/4	3/8	1.63	0.76	1.34	0.63	5/8
R-6-6	3/8	3/8	1.70	0.76	1.41	0.69	5/8
R-8-6	1/2	3/8	1.91	0.76	1.62	0.91	5/8
R-5-6	5/8	3/8	1.98	0.76	1.69	0.97	11/16
R-12-6	3/4	3/8	1.98	0.76	1.69	0.97	13/16
R-4-8	1/4	1/2	1.77	0.87	1.37	0.63	13/16
R-6-8	3/8	1/2	1.84	0.87	1.44	0.69	13/16
R-5-8	5/8	1/2	2.12	0.87	1.72	0.97	13/16
R-12-8	3/4	1/2	2.12	0.87	1.72	0.97	13/16
R-16-8	1	1/2	2.37	0.87	1.97	1.22	1-1/16
R-12-10	3/4	5/8	2.15	0.87	1.75	0.97	15/16
R-14-10	7/8	5/8	2.21	0.87	1.81	1.03	15/16
R-16-10	1	5/8	2.40	0.87	2.00	1.22	1-1/16
R-8-12	1/2	3/4	2.15	0.87	1.75	0.91	1-1/16
R-16-12	1	3/4	2.46	0.87	2.06	1.22	1-1/16



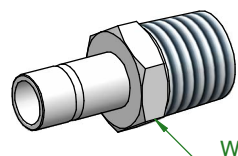
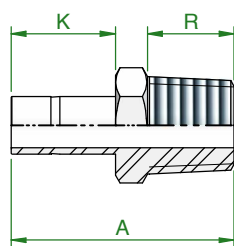
COMPRESSION FITTINGS



REDUCER (MILLIMETERS)

CODE	TUBE "1" O.D.	TUBE "2" O.D.	A	C	D	K	W - HEX
R-M3-M2	3	2	34,3	15,3	27,7	13,5	14
R-M3-M6	3	6	37	17,7	29,5	13,5	14
R-M4-M3	4	3	35	15,3	28,4	14,3	12
R-M6-M3	6	3	36,1	15,3	29,5	15,9	12
R-M6-M4	6	4	37,1	16,1	30,5	15,9	12
R-M6-M8	6	8	40	18,6	32,5	15,9	14
R-M6-M10	6	10	41,7	19,5	34,1	15,9	17
R-M6-M12	6	12	44,9	22	34,8	15,9	22
R-M8-M6	8	6	40	17,7	32,5	16,7	14
R-M8-M10	8	10	43,4	19,5	35,8	15,3	17
R-M10-M3	10	3	38,6	15,3	32	17,7	12
R-M10-M6	10	6	40,8	17,7	33,3	17,5	14
R-M10-M8	10	8	42	18,6	34,5	17,5	14
R-M10-M12	10	12	46,6	22	36,5	17,5	22
R-M12-M6	12	6	46,4	17,7	38,9	23	14
R-M12-M8	12	8	47,6	18,6	40,1	23	14
R-M12-M10	12	10	49,7	19,5	42,1	23	17
R-M12-M16	12	16	53	22	42,9	23	24
R-M12-M18	12	18	54,6	22	44,5	23	27
R-M15-M10	15	10	51,3	19,5	43,7	23,8	27
R-M16-M12	16	12	53,8	22	43,7	24,6	22
R-M16-M18	16	18	56,1	22	46	24,6	27
R-M16-M20	16	20	57,9	22	47,8	24,6	27
R-M16-M25	16	25	63,2	26,5	51	24,8	36
R-M18-M12	18	12	53,8	22	43,7	24,6	22
R-M18-M16	18	16	54,7	22	44,6	24,8	22
R-M18-M20	18	20	57,9	22	47,8	24,6	30
R-M18-M25	18	25	63,1	26,5	50,8	24,6	36
R-M20-M12	20	12	56,1	22	46	25,4	22
R-M20-M16	20	16	55,3	22	45,2	25,6	22
R-M20-M18	20	18	57,6	22	47,5	25,4	27
R-M20-M25	20	25	64,5	26,5	52,3	25,4	36
R-M22-M18	22	18	56,1	22	46	26,2	27
R-M22-M20	22	20	57,7	22	47,6	26,2	30
R-M25-M12	25	12	60,9	22	50,8	31,8	27
R-M25-M16	25	16	64	22	51,8	32	22
R-M25-M18	25	18	62,5	22	52,4	31,8	27
R-M25-M20	25	20	64,2	22	54,1	31,8	30

COMPRESSION FITTINGS

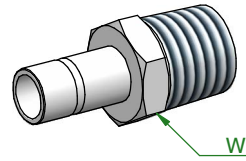
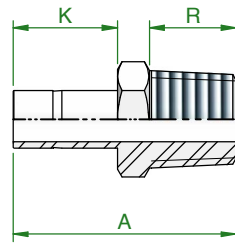


MALE ADAPTER (INCHES)

CODE	TUBE O.D.	NPT THREAD	A	R	K	W - HEX
AM-1-2-N	1/16	1/8	1.00	0.38	0.38	7/16
AM-2-2-N	1/8	1/8	1.16	0.38	0.54	7/16
AM-2-4-N	1/8	1/4	1.38	0.56	0.54	9/16
AM-3-2-N	3/16	1/8	1.20	0.38	0.58	7/16
AM-3-4-N	3/16	1/4	1.42	0.56	0.58	9/16
AM-4-2-N	1/4	1/8	1.25	0.38	0.63	7/16
AM-4-4-N	1/4	1/4	1.46	0.56	0.63	9/16
AM-4-6-N	1/4	3/8	1.49	0.56	0.63	11/16
AM-4-8-N	1/4	1/2	1.71	0.75	0.63	7/8
AM-5-2-N	5/16	1/8	1.29	0.38	0.66	7/16
AM-5-4-N	5/16	1/4	1.50	0.56	0.66	9/16
AM-5-6-N	5/16	3/8	1.53	0.56	0.66	11/16
AM-5-8-N	5/16	1/2	1.74	0.75	0.66	7/8
AM-6-2-N	3/8	1/8	1.32	0.38	0.69	7/16
AM-6-4-N	3/8	1/4	1.53	0.56	0.69	9/16
AM-6-6-N	3/8	3/8	1.56	0.56	0.69	11/16
AM-6-8-N	3/8	1/2	1.78	0.75	0.69	7/8
AM-8-4-N	1/2	1/4	1.75	0.56	0.91	9/16
AM-8-6-N	1/2	3/8	1.78	0.56	0.91	11/16
AM-8-8-N	1/2	1/2	2.00	0.75	0.91	7/8
AM-10-8-N	5/8	1/2	2.06	0.75	0.97	7/8
AM-12-8-N	3/4	1/2	2.06	0.75	0.97	7/8
AM-12-12-N	3/4	3/4	2.06	0.75	0.97	1-1/16
AM-12-16-N	3/4	1	2.41	0.94	0.97	1-3/8
AM-16-12-N	1	3/4	2.31	0.75	1.22	1-1/16
AM-16-16-N	1	1	2.68	0.94	1.22	1-3/8



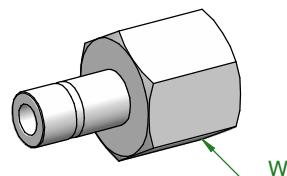
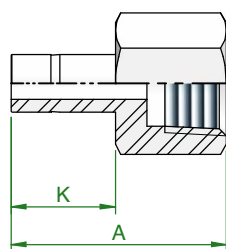
COMPRESSION FITTINGS



MALE ADAPTER (MILLIMETERS)

CODE	TUBE O.D.	NPT THREAD	A	R	K	W - HEX
AM-M3-2-N	3	1/8	29,4	13,5	9,7	12
AM-M4-2-N	4	1/8	29,4	14,3	9,7	12
AM-M6-2-N	6	1/8	31	15,9	9,7	12
AM-M6-4-N	6	1/4	35,7	15,9	14,2	14
AM-M6-6-N	6	3/8	36,5	16,1	14,2	17
AM-M6-8-N	6	1/2	42,1	16,1	19,1	22
AM-M8-4-N	8	1/4	37,3	16,7	14,2	14
AM-M8-6-N	8	3/8	38,1	16,7	14,2	19
AM-M10-4-N	10	1/4	38,1	17,5	14,2	14
AM-M10-6-N	10	3/8	43,7	17,5	14,2	17
AM-M10-8-N	10	1/2	44,5	17,5	19,1	22
AM-M12-4-N	12	1/4	43,7	23	14,2	14
AM-M12-6-N	12	3/8	44,5	23	14,2	17
AM-M12-8-N	12	1/2	49,2	23	19,1	22
AM-M16-8-N	16	1/2	50,8	24,6	19,1	22
AM-M16-12-N	16	3/4	51,6	24,6	19,1	27
AM-M18-8-N	18	1/2	50,8	24,6	19,1	22
AM-M18-12-N	18	3/4	51,6	24,6	19,1	27
AM-M20-8-N	20	1/2	51,8	25,6	19,1	22
AM-M20-12-N	20	3/4	52,4	25,4	19,1	27
AM-M25-16-N	25	1	65,9	31,8	23,9	36

COMPRESSION FITTINGS

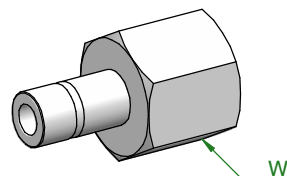
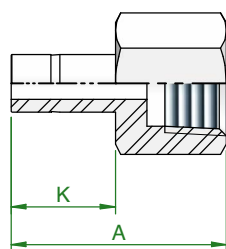


FEMALE ADAPTER (INCHES)

CODE	TUBE O.D.	NPT THREAD	A	K	W - HEX
AF-1-2-N	1/16	1/8	1.07	0.34	9/16
AF-2-2-N	1/8	1/8	1.23	0.53	9/16
AF-2-4-N	1/8	1/4	1.38	0.53	3/4
AF-3-2-N	3/16	1/8	1.25	0.56	9/16
AF-3-4-N	3/16	1/4	1.42	0.56	3/4
AF-4-2-N	1/4	1/8	1.31	0.63	9/16
AF-4-4-N	1/4	1/4	1.47	0.63	3/4
AF-4-6-N	1/4	3/8	1.56	0.63	7/8
AF-4-8-N	1/4	1/2	1.80	0.63	1-1/16
AF-5-2-N	5/16	1/8	1.34	0.66	9/16
AF-5-4-N	5/16	1/4	1.50	0.66	3/4
AF-5-6-N	5/16	3/8	1.59	0.66	7/8
AF-6-2-N	3/8	1/8	1.36	0.69	9/16
AF-6-4-N	3/8	1/4	1.55	0.69	3/4
AF-6-6-N	3/8	3/8	1.59	0.69	7/8
AF-6-8-N	3/8	1/2	1.84	0.69	1-1/16
AF-8-4-N	1/2	1/4	1.72	0.91	3/4
AF-8-6-N	1/2	3/8	1.80	0.91	7/8
AF-8-8-N	1/2	1/2	2.10	0.91	1-1/16
AF-5-6-N	5/8	3/8	1.86	0.97	7/8
AF-5-8-N	5/8	1/2	2.09	0.97	1-1/16
AF-12-8-N	3/4	1/2	2.10	0.97	1-1/16
AF-12-12-N	3/4	3/4	2.16	0.97	1-1/4
AF-12-16-N	3/4	1	2.30	0.97	1-5/8
AF-14-12-N	7/8	3/4	2.22	1.02	1-5/16
AF-16-12-N	1	3/4	2.41	1.22	1-5/16
AF-16-16-N	1	1	2.54	1.22	1-5/8



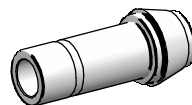
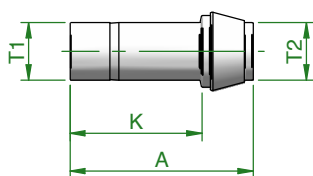
COMPRESSION FITTINGS



FEMALE ADAPTER (MILLIMETERS)

CODE	TUBE O.D.	NPT THREAD	A	K	W - HEX
AF-M3-2-N	3	1/8	31,3	13,5	14
AF-M4-2-N	4	1/8	29,4	14,3	14
AF-M6-2-N	6	1/8	29,4	15,9	14
AF-M6-4-N	6	1/4	34,1	15,9	19
AF-M8-2-N	8	1/8	35,5	16,7	14
AF-M8-4-N	8	1/4	35,1	16,7	19
AF-M8-6-N	8	3/8	36,5	16,7	22
AF-M10-4-N	10	1/4	37,3	17,5	19
AF-M10-6-N	10	3/8	37,3	17,5	22
AF-M10-8-N	10	1/2	42,1	17,5	27
AF-M12-4-N	12	1/4	41,3	23	19
AF-M12-6-N	12	3/8	42,9	23	22
AF-M12-8-N	12	1/2	47,6	23	27
AF-M16-8-N	16	1/2	49,2	24,6	27
AF-M18-12-N	18	3/4	52,4	24,6	33
AF-M20-8-N	20	1/2	50	25,6	27
AF-M20-12-N	20	3/4	53,2	25,4	36
AF-M25-16-N	25	1	66,7	31,8	41

COMPRESSION FITTINGS



PORT CONNECTOR (INCHES)

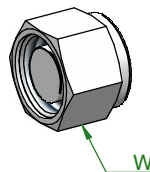
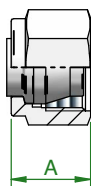
CODE	TUBE "1" O.D.	TUBE "2" O.D.	A	K
PC-1-1	1/16	1/16	0.63	0.44
PC-1-2	1/16	1/8	0.84	0.44
PC-1-4	1/16	1/4	0.91	0.44
PC-2-2	1/8	1/8	0.95	0.54
PC-2-4	1/8	1/4	1.05	0.54
PC-2-6	1/8	3/8	1.09	0.54
PC-3-3	3/16	3/16	0.98	0.67
PC-4-4	1/4	1/4	1.07	0.76
PC-4-6	1/4	3/8	1.15	0.64
PC-4-8	1/4	1/2	1.36	0.64
PC-6-6	3/8	3/8	1.16	0.84
PC-6-8	3/8	1/2	1.40	0.72
PC-8-8	1/2	1/2	1.59	1.11
PC-8-12	1/2	3/4	1.72	0.91
PC-12-12	3/4	3/4	1.65	1.16
PC-16-16	1	1	2.12	1.44

PORT CONNECTOR (MILLIMETERS)

CODE	TUBE "1" O.D.	TUBE "2" O.D.	A	K
PC-M3-M3	3	3	22,2	15,7
PC-M6-M6	6	6	24,6	18,7
PC-M8-M8	8	8	25,9	20
PC-M10-M10	10	10	26,1	20,2
PC-M12-M12	12	12	35,8	26
PC-M16-M16	16	16	40,5	27,7
PC-M18-M18	18	18	40,8	27,7
PC-M3-M6	3	6	22,6	13,5
PC-M6-M8	6	8	25,5	16,1
PC-M6-M10	6	10	25,5	16,1
PC-M6-M12	6	12	31,2	16,1
PC-M8-M10	8	10	29,5	16,8
PC-M8-M12	8	12	31,4	16,8



COMPRESSION FITTINGS



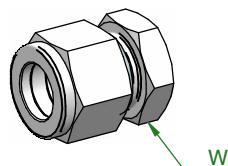
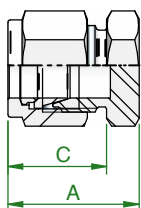
PLUG FOR FITTINGS (INCHES)

CODE	TUBE O.D.	THREAD	A	W - HEX
P-1	1/16	10-32	0.31	5/16
P-2	1/8	5/16-20	0.47	7/16
P-3	3/16	3/8-20	0.47	1/2
P-4	1/4	7/16-20	0.50	9/16
P-5	5/16	1/2-20	0.53	5/8
P-6	3/8	9/16-20	0.56	11/16
P-8	1/2	3/4-20	0.69	7/8
P-10	5/8	7/8-20	0.69	1
P-12	3/4	1-20	0.69	1-1/8
P-14	7/8	1-1/8-20	0.69	1-1/4
P-16	1	1-5/16-20	0.81	1-1/2

PLUG FOR FITTINGS (MILLIMETERS)

CODE	TUBE O.D.	THREAD	A	W - HEX
P-M2	2	5/16-20	11.9	12.0
P-M3	3	5/16-20	11.9	12.0
P-M4	4	3/8-20	11.9	12.0
P-M6	6	7/16-20	12.7	14.0
P-M8	8	1/2-20	13.5	16.0
P-M10	10	5/8-20	15.1	19.0
P-M12	12	3/4-20	17.5	22.0
P-M14	14	7/8-20	17.5	25.0
P-M15	15	7/8-20	17.5	25.0
P-M16	16	7/8-20	17.5	25.0
P-M18	18	1-20	17.5	30.0
P-M20	20	1-1/8-20	17.5	32.0
P-M22	22	1-1/8-20	17.5	32.0
P-M25	25	1-5/16-20	20.6	38.0

COMPRESSION FITTINGS



CAP FOR TUBE (INCHES)

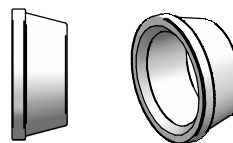
CODE	TUBE O.D.	A	C	W - HEX
C-1	1/16	0.56	0.43	5/16
C-2	1/8	0.79	0.60	7/16
C-3	3/16	0.84	0.64	7/16
C-4	1/4	0.92	0.70	1/2
C-5	5/16	0.96	0.73	9/16
C-6	3/8	1.01	0.76	5/8
C-8	1/2	1.15	0.87	13/16
C-10	5/8	1.18	0.87	15/16
C-12	3/4	1.25	0.87	1-1/16
C-14	7/8	1.31	0.87	1-3/16
C-16	1	1.52	1.05	1-3/8

CAP FOR TUBE (MILLIMETERS)

CODE	TUBE O.D.	A	C	W - HEX
C-M2	2	20,1	15,3	12
C-M3	3	19,8	15	12
C-M4	4	20,6	15,8	12
C-M6	6	23,4	17,8	14
C-M8	8	24,6	18,6	16
C-M10	10	26,7	19,5	18
C-M12	12	29,2	22,1	22
C-M14	14	29,9	22	24
C-M15	15	29,9	22	24
C-M16	16	29,9	22	24
C-M18	18	31,4	22	27
C-M20	20	34	22	30
C-M22	22	34	22	30
C-M25	25	38,4	26,5	36



COMPRESSION FITTINGS



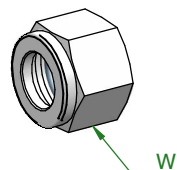
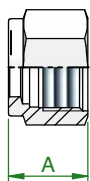
BACK FERRULE (INCHES)	
CODE	TUBE O.D.
FB-1	1/16
FB-2	1/8
FB-3	3/16
FB-4	1/4
FB-5	5/16
FB-6	3/8
FB-8	1/2
FB-10	5/8
FB-12	3/4
FB-14	7/8
FB-16	1

FRONT FERRULE (INCHES)	
CODE	TUBE O.D.
FF-1	1/16
FF-2	1/8
FF-3	3/16
FF-4	1/4
FF-5	5/16
FF-6	3/8
FF-8	1/2
FF-10	5/8
FF-12	3/4
FF-14	7/8
FF-16	1

BACK FERRULE (MILLIMETERS)	
CODE	TUBE O.D.
FB-M2	2
FB-M3	3
FB-M4	4
FB-M6	6
FB-M8	8
FB-M10	10
FB-M12	12
FB-M14	14
FB-M15	15
FB-M16	16
FB-M18	18
FB-M20	20
FB-M22	22
FB-M25	25

FRONT FERRULE (MILLIMETERS)	
CODE	TUBE O.D.
FF-M2	2
FF-M3	3
FF -M4	4
FF-M6	6
FF-M8	8
FF-M10	10
FF-M12	12
FF-M14	14
FF-M15	15
FF-M16	16
FF-M18	18
FF-M20	20
FF-M22	22
FF-M25	25

COMPRESSION FITTINGS

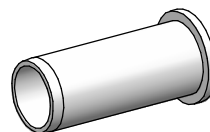


NUT (INCHES)				
CODE	TUBE O.D.	THREAD	A	W - HEX
N-1	1/16	10-32 UNF	0.31	5/16
N-2	1/8	5/16-20 UN	0.47	7/16
N-3	3/16	3/8-20 UN	0.47	1/2
N-4	1/4	7/16-20 UNF	0.50	9/16
N-5	5/16	1/2-20 UNF	0.53	5/8
N-6	3/8	9/16-20 UN	0.56	11/16
N-8	1/2	3/4-20 UNEF	0.69	7/8
N-10	5/8	7/8-20 UNEF	0.69	1
N-12	3/4	1-20 UNEF	0.69	1-1/8
N-14	7/8	1.1/8-20 UN	0.69	1-1/4
N-16	1	1.5/16-20 UN	0.81	1-1/2

NUT (MILLIMETERS)				
CODE	TUBE O.D.	THREAD	A	W - HEX
N-M2	2	5/16-20 UN	11.9	12.0
N-M3	3	5/16-20 UN	11.9	12.0
N-M4	4	3/8-20 UN	11.9	12.0
N-M6	6	7/16-20 UNF	12.7	14.0
N-M8	8	1/2-20 UNF	13.5	16.0
N-M10	10	5/8-20 UN	15.1	19.0
N-M12	12	3/4-20 UNEF	17.5	22.0
N-M14	14	7/8-20 UNEF	17.5	25.0
N-M15	15	7/8-20 UNEF	17.5	25.0
N-M16	16	7/8-20 UNEF	17.5	25.0
N-M18	18	1-20 UNEF	17.5	30.0
N-M20	20	1.1/8-20 UN	17.5	32.0
N-M22	22	1.1/8-20 UN	17.5	32.0
N-M25	25	1.5/16-20 UN	20.6	38.0



COMPRESSION FITTINGS

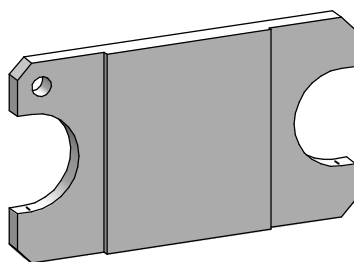


STIFFENER SLEEVE (INCHES)			
CODE	TUBE O.D.	TUBE I.D.	TUBE WALL
BR-4	1/4	0.170	0.040
BR-5	5/16	0.188	0.062
BR-6	3/8	0.250	0.062
BR-8	1/2	0.375	0.062
BR-10	5/8	0.500	0.062

STIFFENER SLEEVE (MILLIMETERS)			
CODE	TUBE O.D.	TUBE I.D.	TUBE WALL
BR-M6	6	4	1
BR-M8	8	6	1
BR-M10	10	8	1
BR-M12	12	10	1

Inspection gage I.T.E. provides greater security and reliability when mounting the compression fittings. It's an exclusive accessory that allows easy inspection, before placing the system under pressure. Inspection gage is placed between the nut and the body fitting, it indicates if the connection has been sufficiently tightened.

GAP INSPECTION GAGE



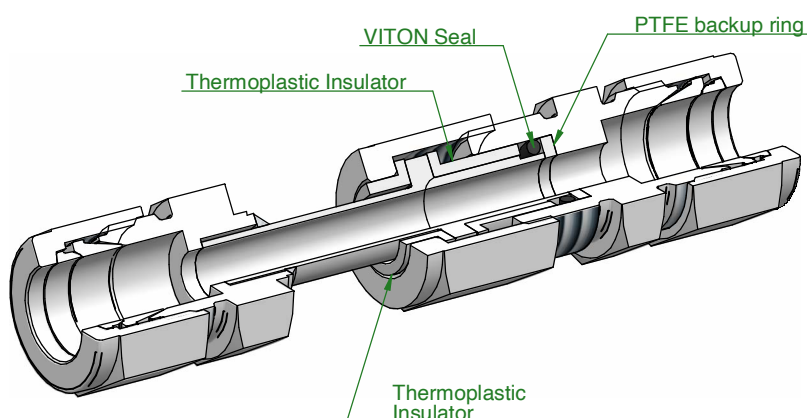
GAP INSPECTION GAGE (INCHES)	
CODE	TUBE O.D.
GIG-1	1/16
GIG-2	1/8
GIG-3	3/16
GIG-4	1/4
GIG-5	5/16
GIG-6	3/8
GIG-8	1/2
GIG-10	5/8
GIG-12	3/4
GIG-14	7/8
GIG-16	1

GAP INSPECTION GAGE (MILLIMETERS)	
CODE	TUBE O.D.
GIG-M2	2
GIG-M3	3
GIG-M4	4
GIG-M6	6
GIG-M8	8
GIG-M10	10
GIG-M12	12
GIG-M14	14
GIG-M15	15
GIG-M16	16
GIG-M18	18
GIG-M20	20
GIG-M22	22
GIG-M25	25



DIELECTRIC FITTINGS

Dielectric fittings isolate monitoring instruments from the effects of electrical current. Installed on impulse lines ahead of monitoring stations in natural gas pipelines, the fittings interrupt cathodic current flow while permitting full fluid flow. The fitting design is unique in that it separates the two primary functions of electrical insulation and fluid containment. Thermoplastic insulators provide high dielectric strength over a wide range of operating and climatic conditions. A Viton seal contained in the fitting provides the primary fluid seal.



STANDARD FEATURES

- Metal components are machined from 316L stainless steel for use in rugged environments
- Molded thermoplastic insulation with excellent electrical, chemical, and ultraviolet resistance and low water absorption maintains dielectric strength and integrity over a wide range of operating and climatic conditions.
- Gaugeable ITE tube fitting or tapered pipe thread end connections (NPT/BSP) provide direct connection to tubing or piping system.

MATERIALS

- Body: 316L Stainless Steel
- Insulator: Polyamide-imide
- Seal: 70 durometer Viton
- Backup Ring: Virgin PTFE

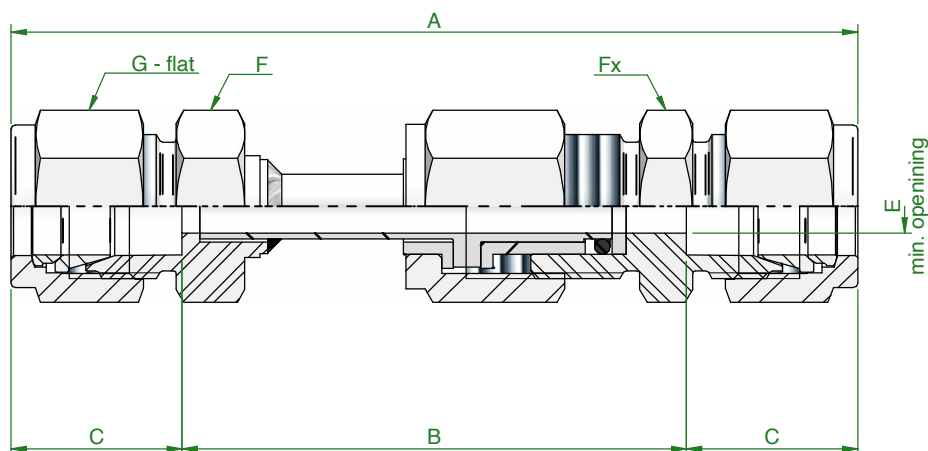
TECHNICAL DATA

Electrical Resistance of Insulators at 70°F (20°C) :
10 x 10⁶ Ω at 10 V (dc)

Pressure Rating: 5000 psig (344 bar)

Temperature Rating: -40 to 200°F (-40 to 93°C)

DIELECTRIC FITTINGS



DIELECTRIC FITTINGS (INCHES)

END CONNECTION			ORDERING CODE	DIMENSION						
INLET/OUTLET	TUBE SIZE	PIPE SIZE		A	B	C	E	F	Fx	G
TUBE FITTINGS	1/4	-	DF-4-SS	96	65,6	1.05	0.76	1.05	0.70	0.96
	3/8	-	DF-6-SS	100	66,4	1.05	0.70	0.96	0.76	1.05
	1/2	-	DF-8-SS	107	61,2	1.20	0.91	1.20	0.85	1.14
TUBE FITTING/ NPT-MALE	3/8	1/4	DF-6-4-SS	95	-	16.8	7.1	16	22	19

Dimensions shown with ITE nut and tightened. Dimensions are for reference only and could be changed.

DIELECTRIC FITTINGS (MILLIMETERS)

END CONNECTION			ORDERING CODE	DIMENSION (mm)						
INLET/OUTLET	TUBE SIZE			A	B	C	E	F	Fx	G
TUBE FITTINGS	6 mm		DF-M6-SS	96	65.4	15.2	4.8	14	20	14
	8 mm		DF-M8-SS	98	65.6	16.2	7.1	16	20	19
	10 mm		DF-M10-SS	100	66.4	16.8	7.1	16	20	22
	12 mm		DF-M12-SS	107	61.2	22.9	7.1	22	22	22
	16 mm		DF-M16-SS	112	63.2	24.4	7.1	16	22	27

Dimensions shown with ITE nut and tightened. Dimensions are for reference only and could be changed.

NOTE

Safe Product Selection

When selecting a product, the total system design must be considered to ensure safe, trouble-free performance. System designer must take care and responsibility for function, material compatibility, adequate ratings, proper installation and operation

Caution:

Do not mix or interchange parts with those of other manufacturers.



COMPRESSION FITTINGS - HOW TO ORDER

CM	-	8	-	8	-	N	-	SS		
↓		↓		↓		↓		↓		
FITTING TYPE		TUBE DIMENSIONS		THREAD DIMENSIONS		THREAD TYPE		MATERIAL		
<i>DESIGNATOR</i>		<i>IMPERIAL TUBE</i>		<i>CODE</i>	<i>O.D. TUBE</i>	<i>CODE</i>	<i>THREAD</i>	<i>CODE</i>	<i>TYPE</i>	
CM		1	1/16"	1	1/16"	N	NPT	SS	AISI 316L	
CF		2	1/8"	2	1/8"	K	BSP Tapered	6Mo	6Mo	
COM		3	3/16"	3	3/16"	R	BSP Parallel	A 400	Monel 400	
CMI		4	1/4"	4	1/4"	M	Metric*	C276	Hastelloy C276	
COS		5	5/16"	5	5/16"	*for metric dimension please concat ITE sales dept.			A 825	Incoloy 825
CS		6	3/8"	6	3/8"			A 625	Inconel 625	
UE		8	1/2"	8	1/2"			F55	Super Duplex	
...		10	5/8"	10	5/8"			F51	Douplex	
For other type see: VISUAL INDEX		12	3/4"	12	3/4"			A 2	Alloy 2	
		14	7/8"	14	7/8"			For other material please contact ITE sales dept.		
		16	1"	16	1"					
		<i>METRIC TUBE</i>								
		<i>CODE</i>	<i>O.D. TUBE</i>							
		M 2	2							
		M 3	3							
		M 4	4							
		M 6	6							
		M 8	8							
		M 10	10							
		M 12	12							
		M 14	14							
		M 15	15							
		M 16	16							
		M 18	18							
		M 20	20							

= THE HIGHLIGHTED PART CORRESPONDS TO THE CODE COLUMN PRESENT IN THE SPECIFIC PRODUCT PAGE

= THE HIGHLIGHTED PART CORRESPONDS TO THE CODE COLUMN PRESENT IN THE SPECIFIC PRODUCT PAGE

NOTE

Some products such as CROSS or TEE differ from the above coding scheme. Refer to the specific pages of these products in this catalog, otherwise contact the ITE srl sales office.

Standard products are carried in stock. Special products are available upon request.

