

Truelok[®]
[THE MEASURABLE DIFFERENCE]



DOUBLE FERRULE COMPRESSION TUBE FITTINGS

COMPRESSION TUBE FITTINGS

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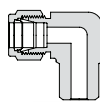
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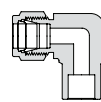
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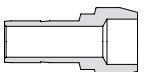
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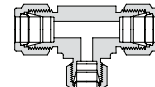
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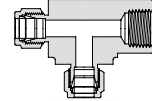
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TUBE FITTINGS

Truelok® offers Double Ferrule Tube Fittings for Instrumentations and Process Control Equipments. The Fittings are manufactured by using SS316. These fittings are extensively used in a variety of industrial applications especially in Oil & Gas, Petroleum Refining, Power Generation, Chemical Processing, Semiconductor Manufacturing, Pulp & Paper, Research, Bio Technology, Pharmaceutical, Aerospace and many other industries.

Truelok® Tube Fittings are designed and manufactured under stringent Quality Assurance & Process Control System. These fittings provide cost effective, reliable and leak proof connections in Instrumentation and Process Control Sample Systems.

Truelok® Tube Fittings are interchangeable and intermixable with the similar fittings offered by other manufacturers. The dimensional tolerances and surface finishes of Truelok® Fittings have been independently verified by numerous experts and have been found to be compatible with double ferrule tube fittings offered by other leading manufacturers.

TECHNICAL INFORMATION

MATERIAL

Truelok® standard Tube Fittings are manufactured by using SS316 Bar Stock in accordance with ASTM A-479 and SS316 Forging in accordance with ASTM A-182. Fittings in other materials are available at special customer's request.

OPERATING TEMPERATURE

Truelok® Fittings provide safe and reliable performance from cryogenic temperature to high temperature up to 380° C.

WORKING PRESSURE

The maximum working pressure of standard fittings when used in conjunction with annealed SS316 seamless tubing per ASTM A-213 or equivalent is shown below.

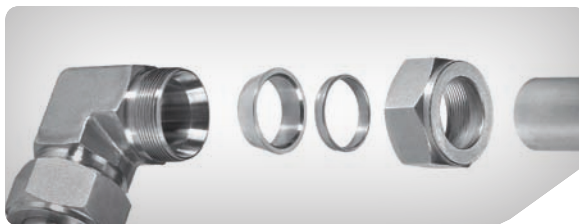
ALLOWABLE WORKING PRESSURE

Tube O.D. (inch)	Wall Thickness (inch)					
	0.020	0.028	0.035	0.049	0.065	0.083
1/8"	6863	9967	12641			
1/4"		4600	5891	8602	11688	
3/8"			3777	5460	7571	
1/2"			2768	3976	5423	7162

Note: Stainless Steel Tubing should never exceed a maximum surface hardness of Rockwell B 90.

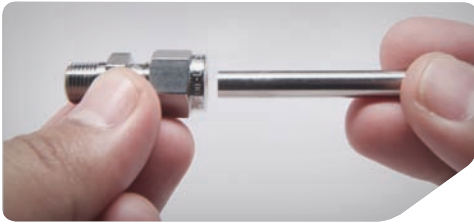
INSTALLATION INSTRUCTIONS

Truelok® Tube Fittings is a mechanism used to both seal and grip tubing. The four components of this kind of fittings are nut, back ferrule, front ferrule, and the body. These precision components are manufactured to a very stringent dimensional tolerance and surface finish ensuring a torque-free and leak-tight seal in all tubing connections.



Proper installation of fittings is essential to ensure safety and productive use of fittings. Follow the instructions below to obtain a leak-tight seal around the tubing of sample operating systems.

- Ensure that the end of the tube is cut square and is free from burrs. If necessary, use a commercially available "squaring tool" to square the tube ends. CAUTION: Do not create a chamfer on the tube end.
- Loosen the nut of the fitting (Do not remove the nut from the fitting).
- Insert the squared and burr free end of the tube through the nut into the body of the fitting, resting it firmly against the internal shoulder of the fitting.



- While pushing the tube into the body, tighten the nut to a finger-tight level.
- Hold the hex portion of the body with an appropriate wrench and tighten the nut with a second wrench to 1 and a 1/4 turn.

DISASSEMBLY AND REASSEMBLY OF AN ASSEMBLY

Truelok® Tube Fittings once assembled properly may be disassembled and assembled repeatedly. The following instructions should be carried out to reassemble a fitting assembly.

NOTE: The ferrules of a properly assembled fitting will remain firmly secured around the tube after the tube fittings assembly has been disassembled.

Insert the tubing into the body of the fitting in such a way that the ferrules on the tube engage the inside wall of the fitting.

Tighten the nut to a hand-tight condition.

Hold the hex portion of the body with a wrench and tighten the nut with a second wrench to 1 and a 1/4 turn.

ORDERING INFORMATION

The part number of a fitting in this catalog describes a fully assembled fitting. The letters in the beginning of the Part Number refer to the Type of Fitting. The first number describes the size of first connection; and the next number, if mentioned, describes the size of second connection. The suffix indicates the type of thread.

Type of Fitting	Connection 1 Tube O.D.	Connection 2 Tube O.D.	Thread Type
MC = Male Connector U = Union	125 = 1/8" 250 = 1/4" 375 = 3/8" 500 = 1/2"	125 = 1/8" 250 = 1/4" 375 = 3/8" 500 = 1/2"	N = NPT SE = Straight Thread

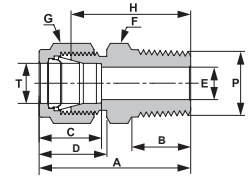
EXAMPLE ORDERING NUMBER

Ordering Number	MC-125-125-N	BU-250
Description	Male Connector with 1/8" Tube O.D. and 1/8" NPT Connection	Bulkhead Union with 1/4" Tube O.D.

CAUTION:

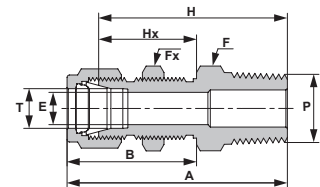
Over-tightening the nut may result in squeezed tube under the ferrule thus causing the end of the tube to flare. This may jam the tube end into the body of the fittings and create difficulty in disassembling of the fitting's assembly in the future. Furthermore, over-tightening may result in a permanent damage to the tube and the fitting.

MALE CONNECTOR MC



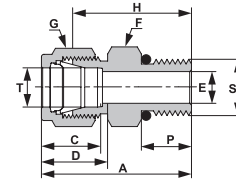
T Tube O.D.	P NPT Male Pipe Size	Truelok® Ordering Number	A	B	C	D	E Minimum Opening	F Hex Flat	G Hex Flat	H
inch	inch		inch	inch	inch	inch	inch	inch	inch	inch
1/8	1/8	MC-125-125-N	1.20	0.38	0.60	0.50	0.09	7/16	7/16	0.94
1/8	1/4	MC-125-250-N	1.40	0.56	0.60	0.50	0.09	9/16	7/16	1.14
1/4	1/8	MC-250-125-N	1.29	0.38	0.70	0.60	0.19	1/2	9/16	1.00
1/4	1/4	MC-250-250-N	1.49	0.56	0.70	0.60	0.19	9/16	9/16	1.20
1/4	3/8	MC-250-375-N	1.51	0.56	0.70	0.60	0.19	11/16	9/16	1.22
1/4	1/2	MC-250-500-N	1.76	0.75	0.70	0.60	0.19	7/8	9/16	1.47
3/8	1/8	MC-375-125-N	1.39	0.38	0.76	0.66	0.19	5/8	11/16	1.10
3/8	1/4	MC-375-250-N	1.57	0.56	0.76	0.66	0.28	5/8	11/16	1.28
3/8	3/8	MC-375-375-N	1.57	0.56	0.76	0.66	0.28	11/16	11/16	1.28
3/8	1/2	MC-375-500-N	1.82	0.75	0.76	0.66	0.28	7/8	11/16	1.53
1/2	1/8	MC-500-125-N	1.53	0.38	0.86	0.90	0.19	13/16	7/8	1.13
1/2	1/4	MC-500-250-N	1.71	0.56	0.86	0.90	0.28	13/16	7/8	1.31
1/2	3/8	MC-500-375-N	1.71	0.56	0.86	0.90	0.38	13/16	7/8	1.31
1/2	1/2	MC-500-500-N	1.93	0.75	0.86	0.90	0.41	7/8	7/8	1.53

BULKHEAD MALE CONNECTOR BMC



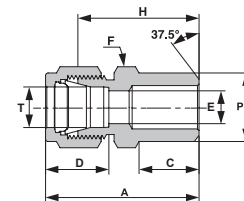
T Tube O.D.	P NPT Male Pipe Size	Truelok® Ordering Number	A	B	E Minimum Opening	F Hex Flat	Fx Hex Flat	H	Hx	Panel hole drill size	Max. Panel thickness
inch	inch		inch	inch	inch	inch	inch	inch	inch	inch	inch
1/8	1/8	BMC-125-125-N	1.83	1.23	0.09	1/2	1/2	1.57	0.97	21/64	0.50
1/4	1/8	BMC-250-125-N	1.95	1.32	0.19	5/8	5/8	1.66	1.03	29/64	0.40
1/4	1/4	BMC-250-250-N	2.13	1.32	0.19	5/8	5/8	1.84	1.03	29/64	0.40
3/8	1/4	BMC-375-250-N	2.26	1.45	0.28	3/4	3/4	1.97	1.16	37/64	0.44
3/8	3/8	BMC-375-375-N	2.26	1.45	0.28	3/4	3/4	1.97	1.16	37/64	0.44
3/8	1/2	BMC-375-500-N	2.51	1.45	0.28	7/8	3/4	2.22	1.16	37/64	0.44
1/2	3/8	BMC-500-375-N	2.49	1.65	0.40	15/16	15/16	2.09	1.25	49/64	0.50
1/2	1/2	BMC-500-500-N	2.71	1.65	0.40	15/16	15/16	2.31	1.25	49/64	0.50

MALE CONNECTOR SAE/MS
STRAIGHT THREAD
MCST



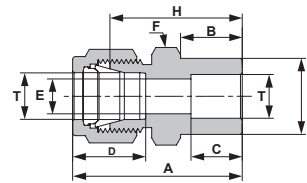
T Tube O.D.	S Thread Size	Truelok® Ordering Number	A	C	D	E Minimum Opening	F Hex Flat	G Hex Flat	H	P
inch	inch		inch	inch	inch	inch	inch	inch	inch	inch
1/8	5/16 -24	MCST-125-312-SE	1.18	0.50	0.60	0.09	7/16	7/16	0.92	0.30
1/4	7/16 -20	MCST-250-7/16-20-SE	1.34	0.60	0.70	0.19	9/16	9/16	1.05	0.36
1/4	9/16 -18	MCST-250-9/16-18	1.40	0.60	0.70	0.19	11/16	9/16	1.11	0.39
1/4	3/4 -16	MCST-250-3/4-16-SE	1.48	0.60	0.70	0.19	7/8	9/16	1.19	0.44
1/4	7/8 -14	MCST-250-7/8-14-SE	1.60	0.60	0.70	0.19	1	9/16	1.31	0.50
3/8	7/16 -20	MCST-375-7/16-20-SE	1.40	0.66	0.76	0.20	5/8	11/16	1.11	0.36
3/8	9/16 -18	MCST-375-9/16-18-SE	1.46	0.66	0.76	0.28	11/16	11/16	1.17	0.39
3/8	3/4 -16	MCST-375-3/4-16-SE	1.54	0.66	0.76	0.28	7/8	11/16	1.25	0.44
3/8	7/8 -14	MCST-375-7/8-14-SE	1.66	0.66	0.76	0.28	1	11/16	1.37	0.50
1/2	9/16 -18	MCST-500-9/16-18-SE	1.54	0.90	0.86	0.28	13/16	7/8	1.14	0.39
1/2	3/4 -16	MCST-500-3/4-16-SE	1.65	0.90	0.86	0.41	7/8	7/8	1.25	0.44
1/2	7/8 -14	MCST-500-7/8-14-SE	1.77	0.90	0.86	0.41	1	7/8	1.37	0.50
1/2	1 1/16 -12	MCST-500-17/16-12-SE	1.93	0.90	0.86	0.41	1 1/14	7/8	1.53	0.59

MALE PIPE WELD CONNECTOR
MWC



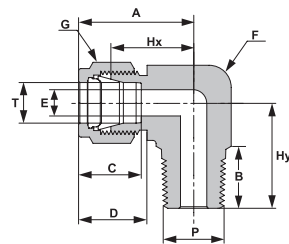
T Tube O.D.	P Pipe Size	Truelok® Ordering Number	A	C	D	E Minimum Opening	F Hex Flat	H
inch	inch		inch	inch	inch	inch	inch	inch
1/8	1/8	MWC-125-125	1.20	0.50	0.38	0.09	7/16	0.94
1/4	1/8	MWC-250-125	1.29	0.60	0.38	0.19	1/2	1.00
1/4	1/4	MWC-250-250	1.49	0.60	0.56	0.19	9/16	1.20
3/8	1/4	MWC-375-250	1.57	0.66	0.56	0.28	5/8	1.28
3/8	3/8	MWC-375-375	1.57	0.66	0.56	0.28	11/16	1.28
3/8	1/2	MWC-375-500	1.82	0.66	0.75	0.28	7/8	1.53
1/2	3/8	MWC-500-375	1.71	0.90	0.56	0.41	13/16	1.31
1/2	1/2	MWC-500-500	1.93	0.90	0.75	0.41	7/8	1.53

TUBE SOCKET WELD UNION SWU



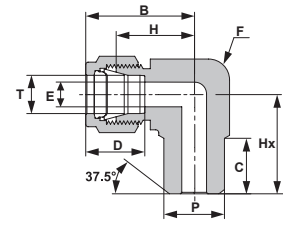
T Tube O.D.	Truelok [®] Ordering Number	A	B	C	D	E Minimum Opening	F Hex Flat	G	H
inch		inch	inch	inch	inch	inch	inch	inch	inch
1/8	SWU-125	1.14	0.34	0.25	0.50	0.09	7/16	0.31	0.88
1/4	SWU-250	1.32	0.41	0.31	0.60	0.19	1/2	0.44	1.03
3/8	SWU-375	1.48	0.47	0.38	0.66	0.28	5/8	0.62	1.19
1/2	SWU-500	1.62	0.47	0.50	0.90	0.41	13/16	0.75	1.22

MALE ELBOW ME



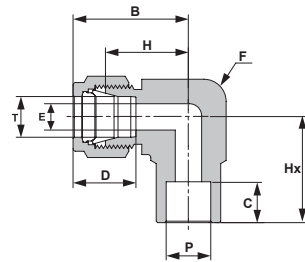
T Tube O.D.	P NPT Male Pipe size	Truelok [®] Ordering Number	A	B	C	D	E Minimum Opening	F Hex Flat	G Hex Flat	Hx	Hy
inch	inch		inch	inch	inch	inch	inch	inch	inch	inch	inch
1/8	1/8	ME-125-125-N	0.93	0.38	0.60	0.50	0.09	7/16	7/16	0.67	0.70
1/8	1/4	ME-125-250-N	0.97	0.56	0.60	0.50	0.09	1/2	7/16	0.71	0.92
1/4	1/8	ME-250-125-N	1.06	0.38	0.70	0.60	0.19	1/2	9/16	0.77	0.74
1/4	1/4	ME-250-250-N	1.06	0.56	0.70	0.60	0.19	1/2	9/16	0.77	0.92
1/4	3/8	ME-250-375-N	1.17	0.56	0.70	0.60	0.19	11/16	9/16	0.88	1.03
1/4	1/2	ME-250-500-N	1.25	0.75	0.70	0.60	0.19	13/16	9/16	0.96	1.30
3/8	1/8	ME-375-125-N	1.20	0.38	0.76	0.66	0.19	5/8	11/16	0.91	0.82
3/8	1/4	ME-375-250-N	1.20	0.56	0.76	0.66	0.28	5/8	11/16	0.91	1.00
3/8	3/8	ME-375-375-N	1.23	0.56	0.76	0.66	0.28	11/16	11/16	0.94	1.03
3/8	1/2	ME-375-500-N	1.31	0.75	0.76	0.66	0.28	13/16	11/16	1.02	1.30
1/2	1/4	ME-500-250-N	1.42	0.56	0.86	0.90	0.28	13/16	7/8	1.02	1.11
1/2	3/8	ME-500-375-N	1.42	0.56	0.86	0.90	0.38	13/16	7/8	1.02	1.11
1/2	1/2	ME-500-500-N	1.42	0.75	0.86	0.90	0.41	13/16	7/8	1.02	1.30

MALE PIPE WELD ELBOW MWE



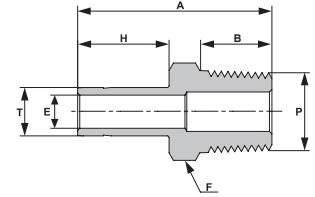
T Tube O.D.	P Pipe Size	Truelok® Ordering Number	B	C	D	E Minimum Opening	F Wrench Flat	H	Hx
inch	inch		inch	inch	inch	inch	inch	inch	inch
1/4	1/8	MWE-250-125	1.06	0.38	0.60	0.19	1/2	0.77	0.74
1/4	1/4	MWE-250-250	1.06	0.56	0.60	0.19	1/2	0.77	0.92
3/8	1/4	MWE-375-250	1.20	0.56	0.66	0.28	5/8	0.91	1.00
1/2	1/2	MWE-500-500	1.42	0.75	0.90	0.41	13/16	1.02	1.30

TUBE SOCKET WELD ELBOW SWE



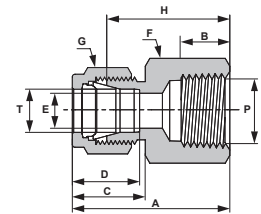
T Tube O.D.	P Pipe Size	Truelok® Ordering Number	B	C	D	E Minimum Opening	F Wrench Flat	H	Hx
inch	inch		inch	inch	inch	inch	inch	inch	inch
1/4	1/4	SWE-250	1.06	0.31	0.60	0.19	1/2	0.77	0.77
3/8	3/8	SWE-375	1.20	0.38	0.66	0.28	5/8	0.91	0.91
1/2	1/2	SWE-500	1.42	0.50	0.90	0.41	15/16	1.02	1.02

MALE ADAPTER MA



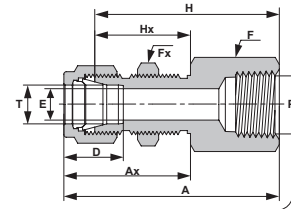
T Tube O.D.	P NPT Male Pipe Size	Truelok® Ordering Number	A	B	E Minimum Opening	F Hex Flat	H
inch	inch		inch	inch	inch	inch	inch
1/8	1/8	MA-125-125-N	1.16	0.38	0.08	7/16	0.53
1/8	1/4	MA-125-250-N	1.37	0.56	0.08	9/16	0.53
1/4	1/8	MA-250-125-N	1.25	0.38	0.17	7/16	0.62
1/4	1/4	MA-250-250-N	1.46	0.56	0.17	9/16	0.62
1/4	3/8	MA-250-375-N	1.49	0.56	0.17	11/16	0.62
1/4	1/2	MA-250-500-N	1.71	0.75	0.17	7/8	0.62
3/8	1/8	MA-375-125-N	1.32	0.38	0.19	7/16	0.68
3/8	1/4	MA-375-250-N	1.53	0.56	0.27	9/16	0.68
3/8	3/8	MA-375-375-N	1.56	0.56	0.27	11/16	0.68
3/8	1/2	MA-375-500-N	1.78	0.75	0.27	7/8	0.68
1/2	1/4	MA-500-250-N	1.75	0.56	0.28	9/16	0.90
1/2	3/8	MA-500-375-N	1.78	0.56	0.37	11/16	0.90
1/2	1/2	MA-500-500-N	2.00	0.75	0.37	7/8	0.90

FEMALE CONNECTOR FC



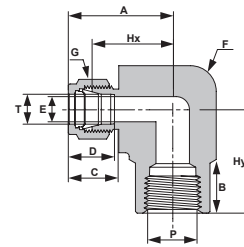
T Tube O.D.	P NPT Female Pipe Size	Truelok® Ordering Number	A	B	C	D	E Minimum Opening	F Hex Flat	G Hex Flat	H
inch	inch		inch	inch	inch	inch	inch	inch	inch	inch
1/8	1/8	FC-125-125-N	1.13	0.41	0.60	0.50	0.09	9/16	7/16	0.87
1/8	1/4	FC-125-250-N	1.32	0.59	0.60	0.50	0.09	3/4	7/16	1.06
1/4	1/8	FC-250-125-N	1.23	0.39	0.70	0.60	0.19	9/16	9/16	0.94
1/4	1/4	FC-250-250-N	1.41	0.59	0.70	0.60	0.19	3/4	9/16	1.12
1/4	3/8	FC-250-375-N	1.48	0.59	0.70	0.60	0.19	7/8	9/16	1.19
1/4	1/2	FC-250-500-N	1.67	0.78	0.70	0.60	0.19	1-1/16	9/16	1.38
3/8	1/8	FC-375-125-N	1.29	0.39	0.76	0.66	0.28	5/8	11/16	1.00
3/8	1/4	FC-375-250-N	1.48	0.59	0.76	0.66	0.28	3/4	11/16	1.19
3/8	3/8	FC-375-375-N	1.54	0.59	0.76	0.66	0.28	7/8	11/16	1.25
3/8	1/2	FC-375-500-N	1.73	0.78	0.76	0.66	0.28	1-1/16	11/16	1.44
1/2	1/4	FC-500-250-N	1.59	0.59	0.86	0.90	0.41	13/16	7/8	1.19
1/2	3/8	FC-500-375-N	1.65	0.59	0.86	0.90	0.41	7/8	7/8	1.25
1/2	1/2	FC-500-500-N	1.84	0.78	0.86	0.90	0.41	1-1/16	7/8	1.44

BULKHEAD FEMALE CONNECTOR BFC



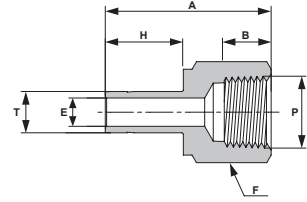
T Tube O.D.	P NPT Female Pipe Size	Truelok® Ordering Number	A	Ax	D	E Minimum Opening	F Hex Flat	Fx Hex Flat	H	Hx	Panel Hole Drill Size	Max. Panel Thickness
inch	inch		inch	inch	inch	inch	inch	inch	inch	inch	inch	inch
1/8	1/8	BFC-125-125-N	1.76	1.23	0.50	0.09	9/16	1/2	1.50	0.97	21/64	0.50
1/4	1/8	BFC-250-125-N	1.85	1.32	0.60	0.19	5/8	5/8	1.56	1.03	29/64	0.40
1/4	1/4	BFC-250-250-N	2.04	1.32	0.60	0.19	3/4	5/8	1.75	1.03	29/64	0.40
3/8	1/4	BFC-375-250-N	2.17	1.45	0.66	0.28	3/4	3/4	1.88	1.16	37/64	0.44
1/2	3/8	BFC-500-375-N	2.43	1.65	0.90	0.41	15/16	15/16	2.03	1.25	49/64	0.50
1/2	1/2	BFC-500-500-N	2.62	1.65	0.90	0.41	1 1/16	15/16	2.22	1.25	49/64	0.50

FEMALE ELBOW FE



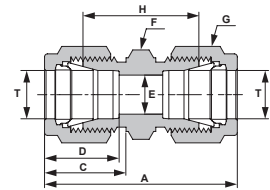
T Tube O.D.	P NPT female Pipe size	Truelok® Ordering Number	A	B	C	D	E Minimum Opening	F Wrench Pad	G Hex Flat	Hx	Hy
inch	inch		inch	inch	inch	inch	inch	inch	inch	inch	inch
1/8	1/8	FE-125-125-N	0.97	0.41	0.60	0.50	0.09	1/2	7/16	0.71	0.75
1/8	1/4	FE-125-250-N	1.08	0.59	0.60	0.50	0.09	11/16	7/16	0.82	0.88
1/4	1/8	FE-250-125-N	1.06	0.39	0.70	0.60	0.19	1/2	9/16	0.77	0.75
1/4	1/4	FE-250-250-N	1.17	0.59	0.70	0.60	0.19	11/16	9/16	0.88	0.88
1/4	3/8	FE-250-375-N	1.25	0.59	0.70	0.60	0.19	13/16	9/16	0.96	0.88
1/4	1/2	FE-250-500-N	1.36	0.78	0.70	0.60	0.19	1	9/16	1.07	1.12
3/8	1/8	FE-375-125-N	1.20	0.39	0.76	0.66	0.28	5/8	11/16	0.91	0.75
3/8	1/4	FE-375-250-N	1.23	0.59	0.76	0.66	0.28	11/16	11/16	0.94	0.88
3/8	3/8	FE-375-375-N	1.31	0.59	0.76	0.66	0.28	13/16	11/16	1.02	0.88
3/8	1/2	FE-375-500-N	1.42	0.78	0.76	0.66	0.28	1	11/16	1.13	1.12
1/2	1/4	FE-500-250-N	1.42	0.59	0.86	0.90	0.41	13/16	7/8	1.02	0.88
1/2	3/8	FE-500-375-N	1.42	0.59	0.86	0.90	0.41	13/16	7/8	1.02	0.88
1/2	1/2	FE-500-500-N	1.53	0.78	0.86	0.90	0.41	1	7/8	1.13	1.12

FEMALE ADAPTER FA



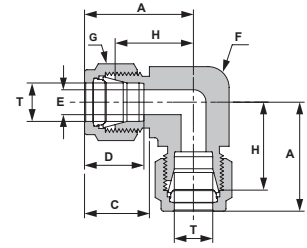
T Tube O.D.	P NPT Female Pipe Size	Truelok® Ordering Number	A	B	E Minimum Opening	F Hex Flat	H
inch	inch		inch	inch	inch	inch	inch
1/8	1/8	FA-125-125-N	1.24	0.41	0.08	9/16	0.53
1/8	1/4	FA-125-250-N	1.39	0.59	0.08	3/4	0.53
1/4	1/8	FA-250-125-N	1.30	0.41	0.17	9/16	0.62
1/4	1/4	FA-250-250-N	1.46	0.59	0.17	3/4	0.62
1/4	3/8	FA-250-375-N	1.55	0.59	0.17	7/8	0.62
1/4	1/2	FA-250-500-N	1.79	0.78	0.17	1-1/16	0.62
3/8	1/8	FA-375-125-N	1.35	0.41	0.27	9/16	0.68
3/8	1/4	FA-375-250-N	1.50	0.59	0.27	3/4	0.68
3/8	3/8	FA-375-375-N	1.59	0.59	0.27	7/8	0.68
3/8	1/2	FA-375-500-N	1.84	0.78	0.27	1-1/16	0.68
1/2	1/4	FA-500-250-N	1.71	0.59	0.37	3/4	0.90
1/2	3/8	FA-500-375-N	1.79	0.59	0.37	7/8	0.90
1/2	1/2	FA-500-500-N	2.05	0.78	0.37	1-1/16	0.90

UNION U



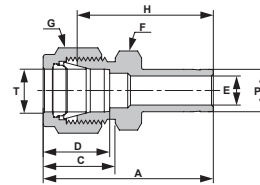
T Tube O.D.	Truelok® Ordering Number	A	C	D	E Minimum Opening	F Hex Flat	G Hex Flat	H
inch		inch	inch	inch	inch	inch	inch	inch
1/8	U-125	1.40	0.60	0.50	0.09	7/16	7/16	0.88
1/4	U-250	1.61	0.70	0.60	0.19	1/2	9/16	1.03
3/8	U-375	1.77	0.76	0.66	0.28	5/8	11/16	1.19
1/2	U-500	2.02	0.86	0.90	0.41	13/16	7/8	1.22

UNION ELBOW UE



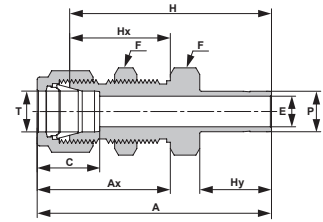
T Tube O.D.	Truelok® Ordering Number	A	C	D	E Minimum Opening	F Wrench Pad	G Hex Flat	H
inch		inch	inch	inch	inch	inch	inch	inch
1/8	UE-125	0.88	0.60	0.50	0.09	3/8	7/16	0.62
1/4	UE-250	1.06	0.70	0.60	0.19	1/2	9/16	0.77
3/8	UE-375	1.20	0.76	0.66	0.28	5/8	11/16	0.91
1/2	UE-500	1.42	0.86	0.90	0.41	13/16	7/8	1.02

REDUCER R



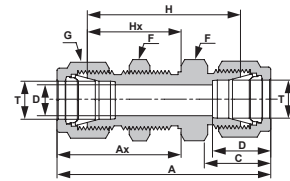
T Tube O.D.	P NPT Male Pipe Size	Truelok® Ordering Number	A	C	D	E Minimum Opening	F Hex Flat	G Hex Flat	H
inch	inch		inch	inch	inch	inch	inch	inch	inch
1/8	1/8	R-125-125	1.32	0.60	0.50	0.08	7/16	7/16	1.06
1/8	1/4	R-125-250	1.42	0.60	0.50	0.09	7/16	7/16	1.16
1/8	3/8	R-125-375	1.48	0.60	0.50	0.09	7/16	7/16	1.22
1/8	1/2	R-125-500	1.74	0.60	0.50	0.09	9/16	7/16	1.48
1/4	1/8	R-250-125	1.45	0.70	0.60	0.08	1/2	9/16	1.16
1/4	3/8	R-250-375	1.60	0.70	0.60	0.19	1/2	9/16	1.31
1/4	1/2	R-250-500	1.82	0.70	0.60	0.19	9/16	9/16	1.53
3/8	1/4	R-375-250	1.63	0.76	0.66	0.17	5/8	11/16	1.34
3/8	1/2	R-375-500	1.91	0.76	0.66	0.28	5/8	11/16	1.62
1/2	1/4	R-500-250	1.77	0.86	0.90	0.17	13/16	7/8	1.37
1/2	3/8	R-500-375	1.84	0.86	0.90	0.27	13/16	7/8	1.44

BULKHEAD REDUCER BR



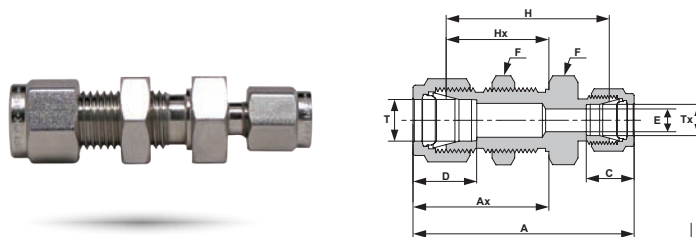
T Tube O.D.	P Pipe Size	Truelok® Ordering Number	A	Ax	C	E Minimum Opening	F Hex Flat	H	Hx	Hy	Panel hole drill size	Max. Panel Thickness
inch	inch		inch	inch	inch	inch	inch	inch	inch	inch	inch	inch
1/8	1/8	BR-125	1.95	1.23	0.50	0.08	1/2	1.69	0.97	0.53	21/64	0.50
1/4	1/4	BR-250	2.20	1.32	0.60	0.17	5/8	1.91	1.03	0.62	29/64	0.40
3/8	3/8	BR-375	2.41	1.45	0.66	0.28	3/4	2.12	1.16	0.69	37/64	0.44
1/2	1/2	BR-500	2.87	1.65	0.90	0.39	15/16	2.47	1.25	0.91	49/64	0.50

BULKHEAD UNION BU



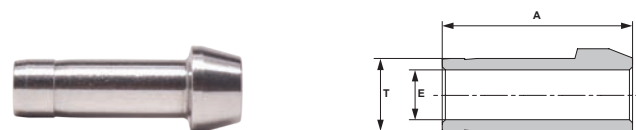
T Tube O.D.	Truelok® Ordering Number	A	Ax	C	D	E Minimum Opening	F Hex Flat	G Hex Flat	H	Hx	Panel Hole Drill Size	Max Panel Thickness
inch		inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch
1/8	BU-125	2.02	1.23	0.60	0.50	0.09	1/2	7/16	1.50	0.97	21/64	0.50
1/4	BU-250	2.27	1.32	0.70	0.60	0.19	5/8	9/16	1.69	1.03	29/64	0.40
3/8	BU-375	2.45	1.45	0.76	0.66	0.28	3/4	11/16	1.87	1.16	37/64	0.44
1/2	BU-500	2.80	1.65	0.86	0.90	0.41	15/16	7/8	2.00	1.25	49/64	0.50

BULKHEAD REDUCING UNION RBU



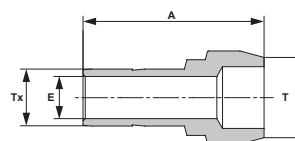
T Tube O.D.	Tx Tube O.D.	Truelok® Ordering Number	A	Ax	C	D	E Minimum Opening	F Hex Flat	H	Hx	Panel hole drill size	Max. Panel thickness
inch	inch		inch	inch	inch	inch	inch	inch	inch	inch	inch	inch
1/4	3/8	RBU-250-125	2.06	2.32	0.66	0.60	0.19	5/8	1.74	1.03	29/64	0.40
3/8	1/4	RBU-375-250	2.39	1.45	0.60	0.66	0.19	3/4	1.81	1.16	37/64	0.44
1/2	1/4	RBU-500-250	2.63	1.65	0.60	0.90	0.19	15/16	1.94	1.25	49/64	0.50

PORT CONNECTOR PC



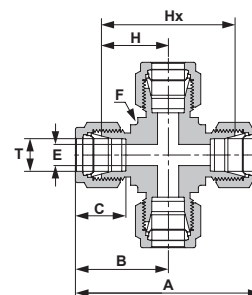
T Tube O.D.	Truelok® Ordering Number	A	E Minimum Opening
inch		inch	inch
1/8	PC-125	0.88	0.09
1/4	PC-250	0.98	0.17
3/8	PC-375	1.03	0.27
1/2	PC-500	1.41	0.37

REDUCING PORT CONNECTOR RPC



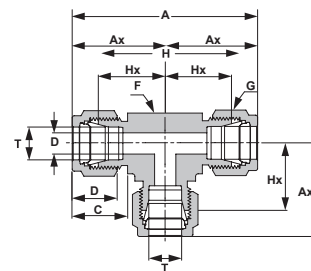
T Tube O.D.	Tx Tube O.D.	Truelok® Ordering Number	A	E Minimum Opening
inch	inch		inch	inch
1/4	1/8	RPC-250-125	0.89	0.09
3/8	1/8	RPC-375-125	0.91	0.09
3/8	1/4	RPC-375-250	0.98	0.17
1/2	1/4	RPC-500-250	1.15	0.17
1/2	3/8	RPC-500-375	1.20	0.28

UNION CROSS UC



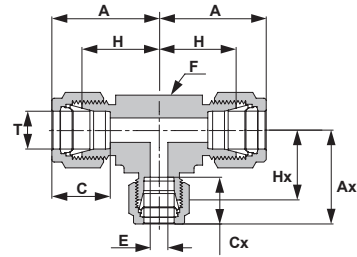
T Tube O.D.	Truelok [®] Ordering Number	A	B	C	E Minimum Opening	F Wrench Pad	H	Hx
inch		inch	inch	inch	inch	inch	inch	inch
1/8	UC-125	1.76	0.88	0.50	0.09	3/8	0.62	1.24
1/4	UC-250	2.12	1.06	0.60	0.19	1/2	0.77	1.54
3/8	UC-375	2.40	1.20	0.66	0.28	5/8	0.91	1.82
1/2	UC-500	2.84	1.42	0.90	0.41	13/16	1.02	2.04

UNION TEE UT



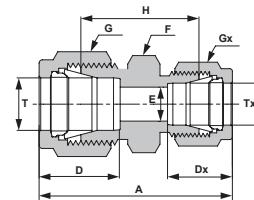
T Tube O.D.	Truelok [®] Ordering Number	A	Ax	C	D	E Minimum Opening	F Wrench Pad	G Hex Flat	H	Hx
inch		inch	inch	inch	inch	inch	inch	inch	inch	inch
1/8	UT-125	1.76	0.88	0.60	0.50	0.09	3/8	7/16	1.24	0.62
1/4	UT-250	2.12	1.06	0.70	0.60	0.19	1/2	9/16	1.54	0.77
3/8	UT-375	2.40	1.20	0.76	0.66	0.28	5/8	11/16	1.82	0.91
1/2	UT-500	2.84	1.42	0.86	0.90	0.41	13/16	7/8	2.04	1.02

REDUCING UNION TEE RUT



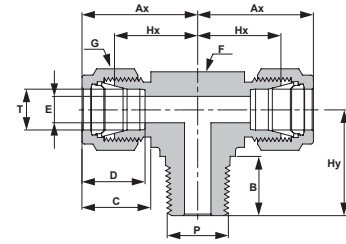
T Tube O.D.	Tx Tube O.D.	Truelok® Ordering Number	A	Ax	C	Cx	E Minimum Opening	F Wrench Pad	H	Hx
inch	inch		inch	inch	inch	inch	inch	inch	inch	inch
1/4	1/8	RUT-250-125	1.06	1.03	0.60	0.50	0.09	1/2	0.77	0.77
3/8	1/4	RUT-375-250	1.20	1.14	0.66	0.60	0.19	5/8	0.91	0.85
1/2	1/4	RUT-500-250	1.42	1.25	0.90	0.60	0.19	13/16	1.02	0.96
1/2	3/8	RUT-500-375	1.42	1.31	0.90	0.66	0.28	13/16	1.02	1.02

REDUCING UNION RU



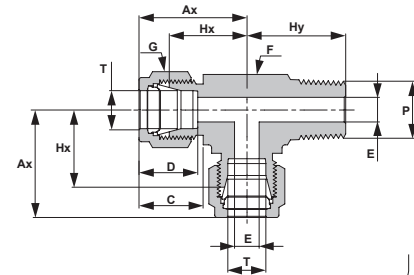
T Tube O.D.	Tx Tube O.D.	Truelok® Ordering Number	A	C	Cx	D	Dx	E Minimum Opening	F Hex Flat	G Hex Flat	Gx Hex Flat	H
inch	inch		inch	inch	inch	inch	inch	inch	inch	inch	inch	inch
1/4	1/8	RU-250-125	1.52	0.70	0.60	0.60	0.50	0.09	1/2	9/16	1/16	0.97
3/8	1/8	RU-375-125	1.61	0.76	0.60	0.66	0.50	0.09	5/8	11/16	7/16	1.06
3/8	1/4	RU-375-250	1.70	0.76	0.70	0.66	0.60	0.19	5/8	11/16	9/16	1.12
1/2	1/8	RU-500-125	1.78	0.86	0.60	0.90	0.50	0.09	13/16	7/8	7/16	1.12
1/2	1/4	RU-500-250	1.85	0.86	0.70	0.90	0.60	0.19	13/16	7/8	9/16	1.16
1/2	3/8	RU-500-375	1.91	0.86	0.76	0.90	0.66	0.28	13/16	7/8	11/16	1.22

MALE BRANCH TEE MBT



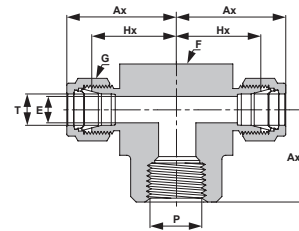
T Tube O.D.	P NPT Male Pipe size	Truelok® Ordering Number	Ax	B	C	D	E Minimum Opening	F Wrench Pad	G Hex Flat	Hx	Hy
inch	inch		inch	inch	inch	inch	inch	inch	inch	inch	inch
1/8	1/8	MBT-125-125-N	0.93	0.38	0.60	0.50	0.09	7/16	7/16	0.67	0.70
1/8	1/4	MBT-125-250-N	0.97	0.56	0.60	0.50	0.09	1/2	7/16	0.71	0.92
1/4	1/8	MBT-250-125-N	1.06	0.38	0.70	0.60	0.19	1/2	9/16	0.77	0.74
1/4	1/4	MBT-250-250-N	1.06	0.56	0.70	0.60	0.19	1/2	9/16	0.77	0.92
3/8	1/4	MBT-375-250-N	1.20	0.56	0.76	0.66	0.28	5/8	11/16	0.91	1.00
3/8	3/8	MBT-375-375-N	1.31	0.56	0.76	0.66	0.28	13/16	11/16	1.02	1.11
1/2	3/8	MBT-500-375-N	1.42	0.56	0.86	0.90	0.38	13/16	7/8	1.02	1.11
1/2	1/2	MBT-500-500-N	1.42	0.75	0.86	0.90	0.41	13/16	7/8	1.02	1.30

MALE RUN TEE MRT



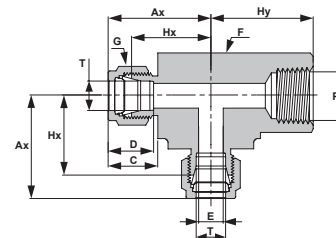
T Tube O.D.	P NPT Male Pipe size	Truelok® Ordering Number	Ax	B	C	D	E Minimum Opening	F Wrench Pad	G Hex Flat	Hx	Hy
inch	inch		inch	inch	inch	inch	inch	inch	inch	inch	inch
1/8	1/8	MRT-125-125-N	0.93	0.38	0.60	0.50	0.09	7/16	7/16	0.67	0.70
1/8	1/4	MRT-125-250-N	0.97	0.56	0.60	0.50	0.09	1/2	7/16	0.71	0.92
1/4	1/8	MRT-250-125-N	1.06	0.38	0.70	0.60	0.19	1/2	9/16	0.77	0.74
1/4	1/4	MRT-250-250-N	1.06	0.56	0.70	0.60	0.19	1/2	9/16	0.77	0.92
3/8	1/4	MRT-375-250-N	1.20	0.56	0.76	0.66	0.28	5/8	11/16	0.91	1.00
3/8	3/8	MRT-375-375-N	1.31	0.56	0.76	0.66	0.28	13/16	11/16	1.02	1.11
1/2	3/8	MRT-500-375-N	1.42	0.56	0.86	0.90	0.38	13/16	7/8	1.02	1.11
1/2	1/2	MRT-500-500-N	1.42	0.75	0.86	0.90	0.41	13/16	7/8	1.02	1.30

FEMALE BRANCH TEE FBT



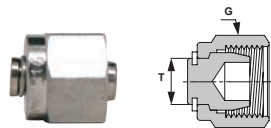
T Tube O.D.	P NPT Female Pipe size	Truelok® Ordering Number	Ax	B	C	D	E Minimum Opening	F Wrench Pad	G Hex Flat	Hx	Hy
inch	inch		inch	inch	inch	inch	inch	inch	inch	inch	inch
1/8	1/8	FBT-125-125-N	0.97	0.41	0.60	0.50	0.09	5/8	7/16	0.71	0.75
1/4	1/8	FBT-250-125-N	1.06	0.41	0.70	0.60	0.19	5/8	9/16	0.77	0.75
1/4	1/4	FBT-250-250-N	1.17	0.59	0.70	0.60	0.19	13/16	9/16	0.88	0.88
3/8	1/4	FBT-375-250-N	1.23	0.59	0.76	0.66	0.28	13/16	11/16	0.94	0.88
3/8	3/8	FBT-375-375-N	1.31	0.59	0.76	0.66	0.28	15/16	11/16	1.02	0.88
3/8	1/2	FBT-375-500-N	1.42	0.78	0.76	0.66	0.28	1-1/16	11/16	1.13	1.12
1/2	1/4	FBT-500-250-N	1.42	0.59	0.86	0.90	0.41	13/16	7/8	1.02	0.88
1/2	3/8	FBT-500-375-N	1.42	0.59	0.86	0.90	0.41	15/16	7/8	1.02	0.88
1/2	1/2	FBT-500-500-N	1.53	0.78	0.86	0.90	0.41	15/16	7/8	1.13	1.12

FEMALE RUN TEE FRT



T Tube O.D.	P NPT Female Pipe size	Truelok® Ordering Number	Ax	B	C	D	E Minimum Opening	F Wrench Pad	G Hex Flat	Hx	Hy
inch	inch		inch	inch	inch	inch	inch	inch	inch	inch	inch
1/8	1/8	FRT-125-125-N	0.97	0.41	0.60	0.50	0.09	5/8	7/16	0.71	0.75
1/4	1/8	FRT-250-125-N	1.06	0.41	0.70	0.60	0.19	5/8	9/16	0.77	0.75
1/4	1/4	FRT-250-250-N	1.17	0.59	0.70	0.60	0.19	13/16	9/16	0.88	0.88
3/8	1/4	FRT-375-250-N	1.23	0.59	0.76	0.66	0.28	13/16	11/16	0.94	0.88
1/2	3/8	FRT-500-375-N	1.42	0.59	0.86	0.90	0.41	15/16	7/8	1.02	0.88
1/2	1/2	FRT-500-500-N	1.53	0.78	0.86	0.90	0.41	1 1/8	7/8	1.13	1.12

PLUG
P



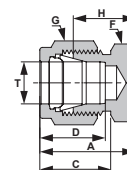
T Tube O.D.	Truelok® Ordering Number	G Hex Flat
inch		inch
1/8	P-125	7/16
1/4	P-250	9/16
3/8	P-375	11/16
1/2	P-500	7/8

NUT
N



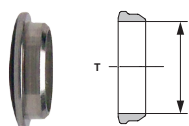
T Tube O.D.	Truelok® Ordering Number	A	G Hex Flat
inch		inch	inch
1/8	N-125	0.47	7/16
1/4	N-250	0.50	9/16
3/8	N-375	0.56	11/16
1/2	N-500	0.69	7/8

CAP
C



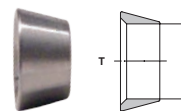
T Tube O.D.	Truelok® Ordering Number	A	C	D	F Wrench Pad	G Hex Flat	H
inch		inch	inch	inch	inch	inch	inch
1/8	C-125	0.79	0.60	0.50	7/16	7/16	0.53
1/4	C-250	0.92	0.70	0.60	1/2	9/16	0.62
3/8	C-375	1.01	0.76	0.66	5/8	11/16	0.72
1/2	C-500	1.15	0.86	0.90	13/16	7/8	0.75

BACK FERRULE
BF



T Tube O.D.	Truelok® Ordering Number
inch	
1/8	BF-125
1/4	BF-250
3/8	BF-375
1/2	BF-500

FRONT FERRULE
FF



T Tube O.D.	Truelok® Ordering Number
inch	
1/8	FF-125
1/4	FF-250
3/8	FF-375
1/2	FF-500

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