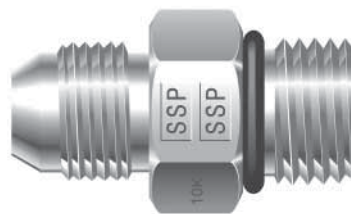


TruFit® 10K

Pipe and
Adapter Fittings



Company Information



1926 SSP Fittings Corp. is founded in Cleveland, Ohio, U.S.A. SSP begins as a contract manufacturer of screw machine products in brass and carbon steel to general industry.

1940s World War II shifts the company's focus to production of fittings for tubing, pipe, and hose. Following the war, SSP's customers are able to satisfy their own requirements without relying on outside companies for production. SSP contracts.



1970s New Focus. By the early 1970s, SSP embarks on a market & manufacturing driven strategy of producing quality fittings from difficult-to-machine alloys. The performance requirements of customers utilizing these materials in industries as diverse as marine, defense, offshore oil, and aerospace, drive SSP to establish both conformance quality standards, and service levels, which are significantly ahead of general industry at the time.

1980s The "Works". Things are really happening for SSP. The company establishes a product line and distribution channel for hydraulic fittings, which require significant investments in a new, state-of-the-art facility south of Cleveland. SSP builds a 165,000 sq. ft. facility to house our vertically-integrated "Works," including, by now, tool & die design & production, custom closed-die forging, machining, finishing operations, assembly and test. With over 200 work centers, SSP's Twinsburg "Works" is among the largest single-site facilities in the entire industry.



1990s Market Expansion. In response to continued customer requests for alternative product offerings in the Instrumentation fitting and valve marketplace, strategic plans were developed to design, manufacture and distribute American-manufactured, tube fittings and valves as direct alternatives to the registered trademark brands of Swagelok®, Parker CPI® and Hoke Gyrolok®. Finally, as has now come to be expected, SSP is one of the first companies in our market to earn ISO 9001 certification.



2000 The New Force. With an established, efficient distribution network in place, SSP expands into global markets with additional fabricated products under the instrumentation brand names Duolok®, Unilok®, Griplok®, TruFit® pipe, weld, hose and adapter fittings and FloLok® valves.

Significant investments in information technology, modern production equipment and Lean-Sigma® operational processes prepare the company to leverage its reputation for speed and high conformance quality with the sizable market opportunities targeted through decades of deliberate investment in the sound fundamentals of quality, service, performance, and value.

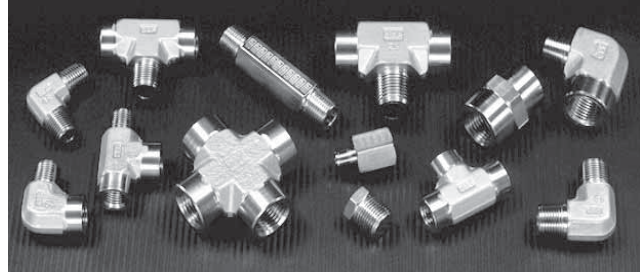


Swagelok® and Cajon® are registered trademarks of Swagelok Co.
Parker CPI® and Parker™ are registered trademarks of Parker Hannifin.
Hoke Gyrolok® and Hoke® are registered trademarks of Hoke Inc.
Duolok®, Unilok®, Griplok®, TruFit® & FloLok® are registered trademarks of SSP Fittings Corp.
Lean-Sigma® is a registered trademark of TBM Consulting and Whirlpool Corp.
Viton® and Teflon® are registered trademarks of E.I. duPont Nemours and Co.
Monel® is a registered trademark of Inco Alloys International

NOTICE: This publication is an uncontrolled copy of a controlled document. SSP has made every reasonable effort to insure the accuracy of the information contained in this publication, and is not to be held liable in any manner for any mistakes, omissions, typographical and/or printing errors.

Features

TruFit 10K Pipe and Adapter Fittings are designed and manufactured to provide a reliable connection in high pressure systems running to 10,000 psi.



TruFit is manufactured from fully-traceable raw material to close tolerances and superior surface finishes. TruFit provides optimal performance when installed in accordance with SSP's recommendations and the design parameters appropriate for each type of connection.

Specification and Application Guidelines

Application Parameter	Tapered Thread	Parallel Thread
Pressures	High to 10,000 psi	High to 10,000 psi
	(static systems only)	(static & dynamic systems)
Temperatures	Stainless: -425° to 1200°F	Nitrile/Buna: -30° to 250°F
		Viton®: -15° to 400°F
Vibration Resistance	Poor	Very Good
Materials	316/316L stainless steel to ASTM A-276 and A-479 bar stock, A-182 forgings.	316/316L stainless steel to ASTM A-276 and A-479 bar stock, A182 forgings
Size Available (nominal)	1/8" – 1"	#4 - #16
Seal Reliability	Good in static systems. Poor in dynamic systems.	Excellent in static systems; Very good in dynamic systems
	Medium tolerance to minor thread imperfections. Medium tolerance to assembly variation	Medium tolerance to thread & taper angle imperfections
Thread & Port Preparation	Anaerobic sealant, or pipe thread sealant or tape	General lubricant applied to threads
Ease of Assembly	Medium	High
	L1 thread gauge & basic ass'y practices must be followed	Intuitive make-up. Repeatable process
Ease of Maintenance	Limited breaks and remakes due to metal deformation of threads	Very good. Virtually unlimited breaks & remakes. O-ring replacement only
Specification Conformance (design, thread and pressure)	NPT: ANSI B1.20.1 and AS-7105 (frm. MIL-P-7105B)	SAE: J1926, ISO 11926, ASME B1.1, ISO 263
	ISO/BSPT: ISO 7/1, JIS B0203, BS EN 10226-1	ISO/BSPP: ISO 228, JIS B0202
Pressure Ratings	ASME B31.3	ASME B31.3

TruFit Fittings

TruFit 10K fittings are ordered by specifying part numbers as listed in this catalog. The TruFit part numbers are easy to understand, and describe fittings that are ready to be installed. The following explains the part numbering system:

Example: ISST4AN4MC-10K

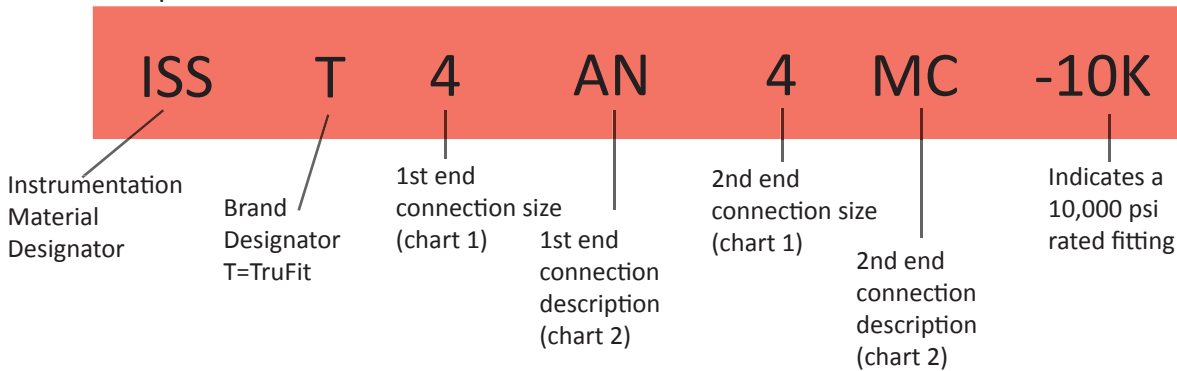


CHART #1	
Size	Part # Size Designator
1	1/16"
2	1/8"
4	1/4"
6	3/8"
8	1/2"
12	3/4"
16	1"
20	1-1/4"
32	2"

CHART #2	
Description of Fitting	Fitting Designator
Adapter	A
37° AN Union	AN-AN
AN Cap	ANCP
37° AN Swivel Union	ANF-ANF
37° AN x 37° Swivel AN	AN-ANF
37° AN Swivel x Male NPT	ANF-MC
AN Swivel Elbow	AN-FE
AN Male Elbow	AN-ME
37° AN Swivel x Male ISO Straight	ANF-MRS
37° AN x Male NPT	AN-MC
37° AN x Male SAE	AN-MST
AN Plug	ANP
AN Union Elbow	ANUE
Elbow	E
Hex Coupling	HC
Hex Long Nipple	HLN
Hex Nipple	HN
Hex Reducing Coupling	HRC
Hex Reducing Nipple	HRN
Male NPT x Male ISO Straight	MC-MRS
Male NPT x Male SAE	MC-MST
Male Elbow	ME
BSP Nipple	MRS-MRS
Male ISO Straight x Male SAE	MRS-MST
Male Tee	MT
Pipe Cap	PC
Pipe Plug	PP
Pipe Tee	PT
Street Elbow	SE
Reducing Bushing	RB

Cleaning and Packaging

Standard

TruFit components are cleaned in accordance with SSP documented work instructions using equipment calibrated to NIST standards with environmentally-safe and stable agents, ultrasonics, and heat/temperature to remove all residual oil, grease and loose particles. Stainless steel components are passivated to the requirements of MIL QQ-P-35 and ASTM A 967.

Special

TruFit components are available specially cleaned and packaged for oxygen service to ensure compliance with the product cleanliness requirements as stated in CGA G-4.1 and ASTM G 93 Level C.

Interchangeability

TruFit pipe fittings are functionally interchangeable with Swagelok®/Cajon®, Parker™, and Hoke® instrumentation quality pipe, weld and adapter fittings.

Nipple

**Hex Nipple
(HN)**

pages 6-7



**Hex Reducing Nipple
(HRN)**



**Hex Long Nipple
(HLN)**



**BSP Nipple
(MRS-MRS)**



Coupling

**Hex Coupling
(HCG)**

page 8



**Hex Reducing Coupling
(HRCG)**



Cap & Plug

**Pipe Cap
(PCP)**

page 9



**Pipe Plug
(PP)**



**AN CAP
(ANCP)**



**AN Plug
(ANP)**



Elbow

**Elbow
(E)**

pages 10-11



**Male Elbow
(ME)**



**Street Elbow
(SE)**



**AN Male Elbow
(AN-ME)**



**AN Swivel Elbow
(ANFE)**



**AN Union Elbow
(ANUE)**



Tee

**Pipe Tee
(PT)**

page 12



**Male Tee
(MT)**



Union

**37° AN Union
(AN-AN)**

page 13



**37° AN Swivel Union
(ANF-ANF)**



Adapter

**Adapter
(A)**

pages 14-17



**Male NPT x Male ISO Straight
Adapter
(MC-MRS)**



**Male ISO Straight x Male SAE
Adapter
(MRS-MST)**



**Male NPT x Male SAE
Adapter
(MC-MST)**



**37° AN x Male NPT Adapter
(AN-MC)**



**37° AN x Male SAE Adapter
(AN-MST)**



**37° AN x 37° Swivel AN
Adapter
(AN-ANF)**



**37° AN Swivel x Male NPT
Adapter
(ANF-MC)**



**37° AN Swivel x Male ISO
Straight Adapter
(AN-MRS)**



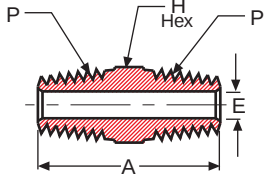
Bushing

**Reducing Bushing
(RB)**

page 17

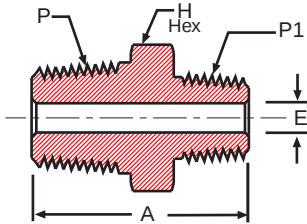


Hex Nipple (HN)



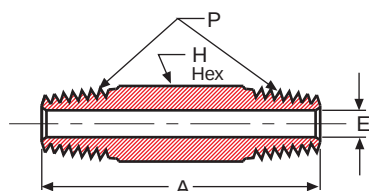
TruFit Part #	P Male NPT Size	A	E Minimum Opening	H Hex Flat	316 SS Working Pressure (psig)
T2HN-10K	1/8	1.06	0.18	7/16	10,000
T4HN-10K	1/4	1.45	0.25	5/8	10,000
T6HN-10K	3/8	1.45	0.33	3/4	10,000
T8HN-10K	1/2	1.89	0.41	7/8	10,000
T12HN-10K	3/4	1.96	0.53	1-1/8	10,000
T16HN-10K	1	2.34	0.67	1-3/8	10,000
T32HN-10K	2	2.82	1.28	2-1/2	10,000

Hex Reducing Nipple (HRN)



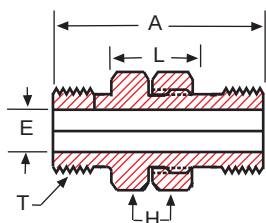
TruFit Part #	P Male NPT Size	P1 Male NPT Size	A	E Minimum Opening	H	316 SS Working Pressure (psig)
T4HRN2-10K	1/4	1/8	1.26	0.19	5/8	10,000
T6HRN2-10K	3/8	1/8	1.26	0.19	3/4	10,000
T6HRN4-10K	3/8	1/4	1.45	0.25	3/4	10,000
T8HRN2-10K	1/2	1/8	1.51	0.19	7/8	10,000
T8HRN4-10K	1/2	1/4	1.70	0.25	7/8	10,000
T8HRN6-10K	1/2	3/8	1.70	0.33	7/8	10,000
T12HRN4-10K	3/4	1/4	1.77	0.25	1-1/8	10,000
T12HRN6-10K	3/4	3/8	1.77	0.33	1-1/8	10,000
T12HRN8-10K	3/4	1/2	1.96	0.41	1-1/8	10,000
T16HRN4-10K	1	1/4	1.96	0.25	1-3/8	10,000
T16HRN6-10K	1	3/8	1.96	0.33	1-3/8	10,000
T16HRN8-10K	1	1/2	2.15	0.41	1-3/8	10,000
T16HRN12-10K	1	3/4	2.15	0.53	1-3/8	10,000

Hex Long Nipple (HLN)



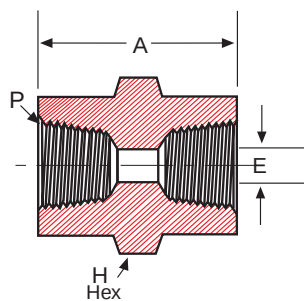
TruFit Part #	P Male NPT Size	A	E Minimum Opening	H	316 SS Working Pressure (psig)
T2HLN3.0-10K	1/8	3.00	0.19	7/16	10,000
T4HLN2.0-10K	1/4	2.00	0.25	5/8	10,000
T4HLN3.0-10K	1/4	3.00	0.25	5/8	10,000
T4HLN4.0-10K	1/4	4.00	0.25	5/8	10,000
T4HLN6.0-10K	1/4	6.00	0.25	5/8	10,000
T6HLN3.0-10K	3/8	3.00	0.33	3/4	10,000
T6HLN4.0-10K	3/8	4.00	0.33	3/4	10,000
T6HLN6.0-10K	3/8	6.00	0.33	3/4	10,000
T8HLN1.5-110K	1/2	1.50	0.41	7/8	10,000
T8HLN1.75-10K	1/2	1.75	0.41	7/8	10,000
T8HLN3.0-10K	1/2	3.00	0.41	7/8	10,000
T8HLN4.0-10K	1/2	4.00	0.41	7/8	10,000

BSP Nipple (MRS-MRS)



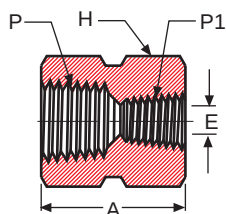
TruFit Part #	P Male NPT Size	A	E Minimum Opening	H	316 SS Working Pressure (psig)
T2HLN3.0-10K	1/8	3.00	0.19	7/16	10,000
T4HLN2.0-10K	1/4	2.00	0.25	5/8	10,000
T4HLN3.0-10K	1/4	3.00	0.25	5/8	10,000
T4HLN4.0-10K	1/4	4.00	0.25	5/8	10,000
T4HLN6.0-10K	1/4	6.00	0.25	5/8	10,000
T6HLN3.0-10K	3/8	3.00	0.33	3/4	10,000
T6HLN4.0-10K	3/8	4.00	0.33	3/4	10,000
T6HLN6.0-10K	3/8	6.00	0.33	3/4	10,000
T8HLN1.5-110K	1/2	1.50	0.41	7/8	10,000
T8HLN1.75-10K	1/2	1.75	0.41	7/8	10,000
T8HLN3.0-10K	1/2	3.00	0.41	7/8	10,000
T8HLN4.0-10K	1/2	4.00	0.41	7/8	10,000

Hex Coupling (HCG)



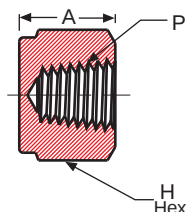
TruFit Part #	P Female NPT Size	A	E Minimum Opening	H	316 SS Working Pressure (psig)
T2HCG-10K	1/8	0.75	0.33	5/8	10,000
T4HCG-10K	1/4	1.13	0.42	13/16	10,000
T6HCG-10K	3/8	1.13	0.56	1"	10,000
T8HCG-10K	1/2	1.50	0.69	1-1/4	10,000
T12HCG-10K	3/4	1.53	0.89	1-1/2	10,000
T16HCG-10K	1	1.89	1.13	1-7/8	10,000

Hex Reducing Coupling (HRCG)



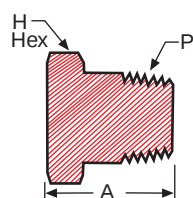
TruFit Part #	P Female NPT Size	P1 Female NPT Size	A	E Minimum Opening	H	316 SS Working Pressure (psig)
T4HRCG2-10K	1/4	1/8	1.13	0.33	13/16	10,000
T6HRCG2-10K	3/8	1/8	1.13	0.33	1"	10,000
T6HRCG4-10K	3/8	1/4	1.13	0.42	1"	10,000
T8HRCG2-10K	1/2	1/8	1.50	0.33	1-1/4	10,000
T8HRCG4-10K	1/2	1/4	1.50	0.42	1-1/4	10,000
T8HRCG6-10K	1/2	3/8	1.50	0.56	1-1/4	10,000
T12HRCG4-10K	3/4	1/4	1.75	0.42	1-1/2	10,000
T12HRCG6-10K	3/4	3/8	1.75	0.56	1-1/2	10,000
T12HRCG8-10K	3/4	1/2	1.88	0.69	1-1/2	10,000
T16HRCG8-10K	1	1/2	1.89	0.69	1-7/8	10,000
T16HRCG12-10K	1	3/4	1.89	0.89	1-7/8	10,000

Pipe Cap (PCP)



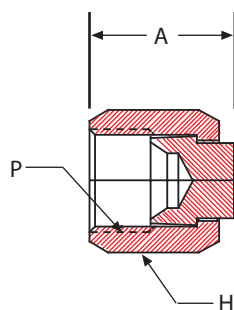
TruFit Part #	P Female NPT Size	A	H	316 SS Working Pressure (psig)
T2PCP-10K	1/8	0.53	5/8	10,000
T4PCP-10K	1/4	0.91	13/16	10,000
T6PCP-10K	3/8	1.03	1	10,000
T8PCP-10K	1/2	1.34	1-1/4	10,000
T12PCP-10K	3/4	1.43	1-1/2	10,000
T16PCP-10K	1	1.63	1-7/8	10,000

Pipe Plug (PP)



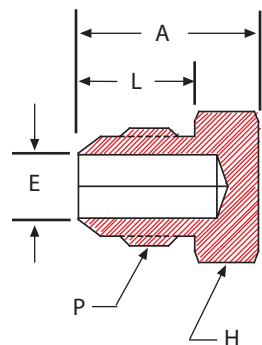
TruFit Part #	P Male NPT Size	A	H	316 SS Working Pressure (psig)
T2PP-10K	1/8	0.56	7/16	10,000
T4PP-10K	1/4	0.74	9/16	10,000
T6PP-10K	3/8	0.78	11/16	10,000
T8PP-10K	1/2	0.97	7/8	10,000
T12PP-10K	3/4	1.10	1-1/16	10,000
T16PP-10K	1	1.24	1-5/16	10,000

AN Cap (ANCP)



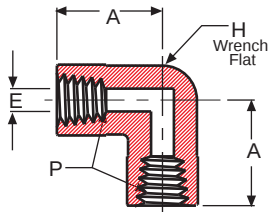
TruFit Part #	Tube O.D.	P Thread	A	After Insert	H	316 SS Working Pressure (psig)
T4ANCP-10K	1/4	7/16-20	0.67	0.34	9/16	10,000
T5ANCP-10K	5/16	1/2-20	0.77	0.41	5/8	10,000
T6ANCP-10K	3/8	9/16-18	0.81	0.47	11/16	10,000
T8ANCP-10K	1/2	3/4-16	0.94	0.53	7/8	10,000
T10ANCP-10K	5/8	7/8-14	1.07	0.53	1	10,000
T12ANCP-10K	3/4	1-1/16-12	1.24	0.66	1-1/4	10,000
T16ANCP-10K	1	1-5/16-12	1.29	0.63	1-1/2	10,000

AN Plug (ANP)



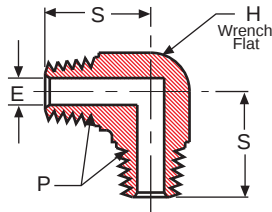
TruFit Part #	Tube O.D.	P Thread	E Minimum Opening	A	L	H	316 SS Working Pressure (psig)
T4ANP-10K	1/4	7/16-20	0.17	0.80	0.55	1/2	10,000
T5ANP-10K	5/16	1/2-20	0.23	0.80	0.55	9/16	10,000
T6ANP-10K	3/8	9/16-18	0.30	0.84	0.56	5/8	10,000
T8ANP-10K	1/2	3/4-16	0.36	0.94	0.66	13/16	10,000
T10ANP-10K	5/8	7/8-14	0.42	1.10	0.76	15/16	10,000
T12ANP-10K	3/4	1-1/16-12	0.52	1.28	0.86	1-1/8	10,000
T16ANP-10K	1	1-5/16-12	0.67	1.33	0.91	1-3/8	10,000

Elbow (E)



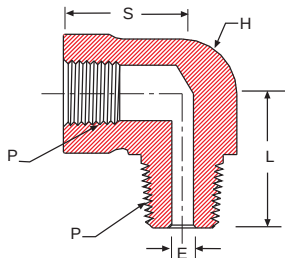
TruFit Part #	P Female NPT Size	E Minimum Opening	H	A	316 SS Working Pressure (psig)
T2E-10K	1/8	0.33	3/4	0.66	10,000
T4E-10K	1/4	0.42	3/4	0.88	10,000
T6E-10K	3/8	0.56	1-1/16	1.02	10,000
T8E-10K	1/2	0.69	1-5/16	1.23	10,000

Male Elbow (ME)



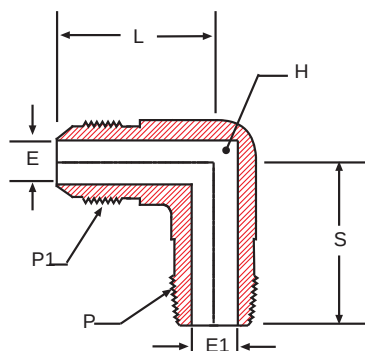
TruFit Part #	P Male NPT Size	E Minimum Opening	H	S	316 SS Working Pressure (psig)
T4ME-10K	1/4	0.25	9/16	1.09	10,000
T6ME-10K	3/8	0.33	3/4	1.22	10,000
T8ME-10K	1/2	0.41	7/8	1.47	10,000

Street Elbow (SE)



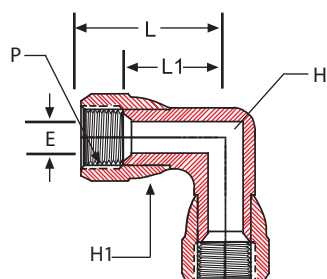
TruFit Part #	P Male & Female NPT Size	E Minimum Opening	H	L	S	316 SS Working Pressure (psig)
T2SE-10K	1/8	0.19	3/4	0.98	0.66	10,000
T4SE-10K	1/4	0.25	3/4	1.09	0.88	10,000
T6SE-10K	3/8	0.33	1-1/16	1.22	1.02	10,000
T8SE-10K	1/2	0.41	1-5/16	1.47	1.23	10,000

AN Male Elbow (AN-ME)



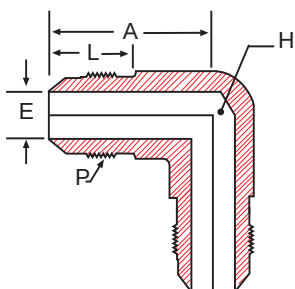
TruFit Part #	Tube O.D.	P Thread	P1 Pipe Thread	E Minimum Opening	E1	L	S	H	316 SS Working Pressure (psig)
T2AN4ME-10K	1/8	5/16 - 24	1/4 - 18	0.06	0.25	0.93	1.09	9/16	10,000
T4AN4ME-10K	1/4	7/16 - 20	1/4 - 18	0.17	0.25	1.05	1.09	9/16	10,000
T6AN4ME-10K	3/8	9/16 - 18	1/4 - 18	0.26	0.25	1.06	1.09	9/16	10,000
T6AN6ME-10K	3/8	9/16 - 18	3/8 - 18	0.26	0.33	1.14	1.22	3/4	10,000
T8AN6ME-10K	1/2	3/4 - 16	3/8 - 18	0.36	0.33	1.25	1.22	3/4	10,000
T8AN8ME-10K	1/2	3/4 - 16	1/2 - 14	0.36	0.41	1.33	1.47	7/8	10,000

AN Swivel Elbow (ANFE)

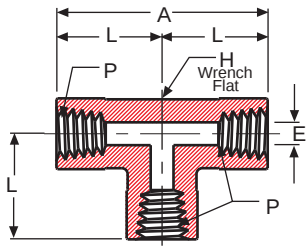


TruFit Part #	Tube O.D.	P Thread	E Minimum Opening	L	H	H1	316 SS Working Pressure (psig)
T4ANFE4-10K	1/4	7/16-20	0.17	0.67	7/16	1/2	10,000
T6ANFE6-10K	3/8	9/16-18	0.30	0.87	9/16	11/16	10,000
T8ANFE8-10K	1/2	3/4-16	0.39	0.96	3/4	7/8	10,000

AN Union Elbow (ANUE)

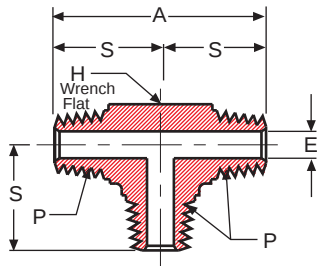


TruFit Part #	Tube O.D.	P Thread	E Minimum Opening	A	L	H	316 SS Working Pressure (psig)
T4ANUE4-10K	1/4	7/16-20	0.17	0.89	0.55	7/16	10,000
T6ANUE6-10K	3/8	9/16-18	0.26	1.06	0.56	9/16	10,000
T8ANUE8-10K	1/2	3/4-16	0.36	1.25	0.66	3/4	10,000



Pipe Tee (PT)

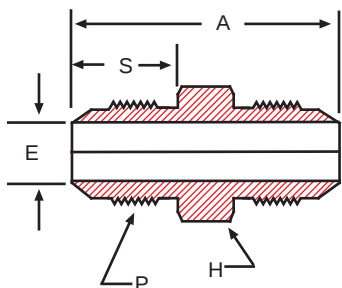
TruFit Part #	P Female NPT Size	A	E Minimum Opening	H	L	316 SS Working Pressure (psig)
T2PT-10K	1/8	1.32	0.33	13/16	0.66	10,000
T4PT-10K	1/4	1.76	0.42	3/4	0.88	10,000
T6PT-10K	3/8	2.04	0.56	1-1/16	1.02	10,000
T8PT-10K	1/2	2.46	0.69	1-5/16	1.23	10,000



Male Tee (MT)

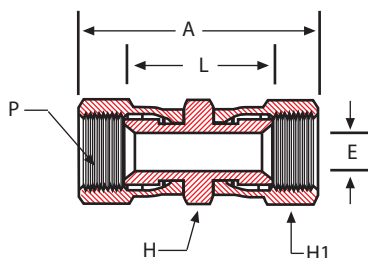
TruFit Part #	P Male NPT Size	A	E Minimum Opening	H	S	316 SS Working Pressure (psig)
T4MT-10K	1/4	2.18	0.25	9/16	1.09	10,000
T6MT-10K	3/8	2.44	0.33	3/4	1.22	10,000
T8MT-10K	1/2	2.94	0.41	7/8	1.47	10,000

37° AN Union (AN-AN)



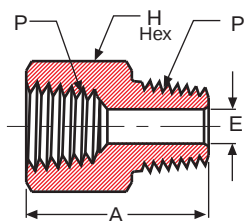
TruFit Part #	Tube O.D.	P Thread	A	E Minimum Opening	H	316 SS Working Pressure (psig)
T4AN4AN-10K	1/4	7/16 - 20	1.37	0.17	1/2	10,000
T5AN5AN-10K	5/16	1/2 - 20	1.37	0.23	9/16	10,000
T6AN6AN-10K	3/8	9/16 - 18	1.41	0.26	5/8	10,000
T8AN8AN-10K	1/2	3/4	1.62	0.36	13/16	10,000
T10AN10AN-10K	5/8	7/8 - 14	1.88	0.42	15/16	10,000
T12AN12AN-10K	3/4	1-1/16 - 12	2.16	0.52	1-1/8	10,000
T16AN16AN-10K	1	1-5/16 - 12	2.25	0.67	1-3/8	10,000
T6AN4AN-10K	3/8 & 1/4	9/16 - 18 & 7/16 - 20	1.40	0.17	5/8	10,000
T8AN4AN-10K	1/2 & 1/4	3/4 - 16 & 7/16 - 20	1.51	0.17	13/16	10,000
T8AN6AN-10K	1/2 & 3/8	3/4 - 16 & 9/16 - 18	1.52	0.26	13/16	10,000

37° AN Swivel (ANF-ANF)



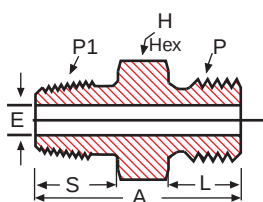
TruFit Part #	Tube O.D.	P Thread	E Minimum Opening	A	H	H1	H2	316 SS Working Pressure (psig)
T4ANF4ANF-10K	1/4	7/16 - 20	0.17	0.91	9/16	9/16	9/16	10,000
T6ANF4ANF-10K	3/8	9/16 - 18	0.17	1.04	11/16	11/16	9/16	10,000
T6ANF6ANF-10K	3/8	9/16 - 18	0.30	1.13	11/16	11/16	11/16	10,000
T8ANF4ANF-10K	1/2	3/4 - 16	0.17	1.13	15/16	7/8	9/16	10,000
T8ANF6ANF-10K	1/2	3/4 - 16	0.30	1.23	15/16	7/8	11/16	10,000
T8ANF8ANF-10K	1/2	3/4 - 16	0.39	1.29	15/16	7/8	7/8	10,000
T12ANF12ANF-10K	3/4	1-1/16 - 12	0.56	1.62	1-1/4	1-1/4	1-1/4	10,000
T16ANF16ANF-10K	1	1-5/16 - 12	0.75	1.66	1-1/2	1-1/2	1-1/2	10,000

Adapter (A)



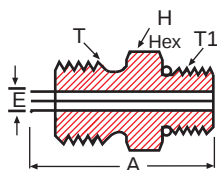
TruFit Part #	P Male & Female NPT Size	A	E Minimum Opening	H	316 SS Working Pressure (psig)
T4A-10K	1/4	1.39	0.25	13/16	10,000
T6A-10K	3/8	1.44	0.33	1	10,000
T8A-10K	1/2	1.87	0.41	1-1/4	10,000
T12A-10K	3/4	1.93	0.53	1-1/2	10,000
T16A-10K	1	2.37	0.67	1-7/8	10,000

Male NPT x Male ISO Straight Adapter (MC-MRS)



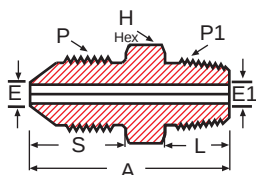
TruFit Part #	P Male NPT Thread	P1 Male ISO Straight Thread	A	E	S	L	H	316 SS Working Pressure (psig)
T2MC2MRS-10K	1/8	1/8-28	1.09	0.17	0.39	0.28	9/16	10,000
T2MC4MRS-10K	1/8	1/4-19	1.25	0.17	0.39	0.44	3/4	10,000
T4MC2MRS-10K	1/4	1/8-28	1.27	0.17	0.57	0.28	9/16	10,000
T4MC4MRS-10K	1/4	1/4-19	1.45	0.23	0.57	0.44	3/4	10,000
T4MC6MRS-10K	1/4	3/8-19	1.48	0.25	0.57	0.44	7/8	10,000
T4MC8MRS-10K	1/4	1/2-14	1.58	0.23	0.57	0.56	1-1/16	10,000
T6MC4MRS-10K	3/8	1/4-19	1.47	0.23	0.57	0.44	3/4	10,000
T6MC6MRS-10K	3/8	3/8-19	1.48	0.32	0.57	0.44	7/8	10,000
T6MC8MRS-10K	3/8	1/2-14	1.56	0.32	0.57	0.56	1-1/16	10,000
T8MC4MRS-10K	1/2	1/4-19	1.62	0.23	0.76	0.44	7/8	10,000
T8MC6MRS-10K	1/2	3/8-19	1.67	0.32	0.76	0.44	7/8	10,000
T8MC8MRS-10K	1/2	1/2-14	1.45	0.40	0.76	0.56	1-1/16	10,000
T8MC10MRS-10K	1/2	5/8-14	1.75	0.41	0.76	0.56	1-5/16	10,000
T8MC12MRS-10K	1/2	3/4-14	1.83	0.41	0.76	0.62	1-5/16	10,000
T12MC8MRS-10K	3/4	1/2-14	1.82	0.53	0.76	0.56	1-1/8	10,000
T12MC12MRS-10K	3/4	3/4-14	1.93	0.53	0.76	0.62	1-5/16	10,000
T12MC16MRS-10K	3/4	1-11	2.03	0.53	0.76	0.72	1-5/8	10,000
T16MC8MRS-10K	1	1/2-14	2.05	0.47	0.95	0.56	1-3/8	10,000
T16MC12MRS-10K	1	3/4-14	2.13	0.53	0.95	0.62	1-3/8	10,000
T16MC16MRS-10K	1	1-11	2.23	0.67	0.95	0.72	1-5/8	10,000
T16MC20MRS-10K	1	1-1/4 - 11	2.25	0.67	0.95	0.73	2	10,000

Male ISO Straight x Male SAE Adapter (MRS-MST)



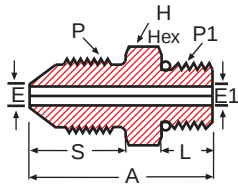
TruFit Part #	T Male BSPP Thread	T1 Male SAE Thread	A	E	H	316 SS Working Pressure (psig)
T4MRS4MST	1/4 - 19	1/4 - 19	1.30	0.24	3/4	10,000
T8MRS8MST	1/2 - 14	1/2 - 14	1.75	0.40	7/8	10,000

Male NPT x Male SAE Adapter (AN-MC)



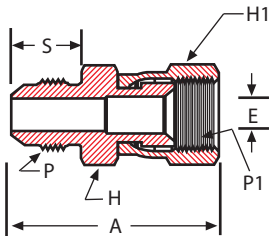
TruFit Part #	Tube O.D.	P Thread	P1 Pipe Thread	A	E	E1	S	L	H	316 SS Working Pressure (psig)
T2AN4MC-10K	1/8	5/16 - 24	1/4 - 18	1.32	0.06	0.25	0.45	0.57	9/16	10,000
T4AN4MC-10K	1/4	7/16 - 20	1/4 - 18	1.42	0.17	0.25	0.55	0.57	9/16	10,000
T4AN6MC-10K	1/4	7/16 - 20	3/8 - 18	1.42	0.17	0.17	0.55	0.57	3/4	10,000
T4AN8MC-10K	1/4	7/16 - 20	1/2 - 14	1.68	0.17	0.17	0.55	0.76	7/8	10,000
T6AN4MC-10K	3/8	9/16 - 18	1/4 - 18	1.43	0.26	0.25	0.56	0.57	5/8	10,000
T6AN6MC-10K	3/8	9/16 - 18	3/8 - 18	1.43	0.26	0.26	0.56	0.57	3/4	10,000
T6AN8MC-10K	3/8	9/16 - 18	1/2 - 14	1.69	0.26	0.41	0.56	.076	7/8	10,000
T8AN4MC-10K	1/2	3/4 - 16	1/4 - 18	1.53	0.36	0.25	0.66	0.57	13/16	10,000
T8AN6MC-10K	1/2	3/4 - 16	3/8 - 18	1.53	0.36	0.33	0.66	0.57	13/16	10,000
T8AN8MC-10K	1/2	3/4 - 16	1/2 - 14	1.79	0.36	0.36	0.66	0.76	7/8	10,000
T8AN12MC-10K	1/2	3/4 - 16	3/4 - 14	1.85	0.36	0.36	0.66	0.76	1-1/8	10,000
T12AN8MC-10K	3/4	1-1/16 - 12	1/2 - 14	2.06	0.52	0.41	0.86	0.76	1-1/8	10,000
T12AN12MC-10K	3/4	1-1/16 - 12	3/4 - 14	2.06	0.52	0.52	0.86	0.76	1-1/8	10,000
T16AN6MC-10K	1	1-5/16 - 12	3/8 - 18	1.92	0.67	0.33	0.91	0.57	1-3/8	10,000
T16AN8MC-10K	1	1-5/16 - 12	1/2 - 14	2.11	0.67	0.41	0.91	0.76	1-3/8	10,000
T16AN12MC-10K	1	1-5/16 - 12	3/4 - 14	2.11	0.67	0.52	0.91	0.76	1-3/8	10,000
T16AN16MC-10K	1	1-5/16 - 12	1	2.30	0.67	0.67	0.91	0.95	1-3/8	10,000

37° AN x Male SAE Adapter (AN-MST)



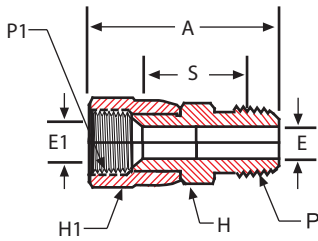
TruFit Part #	Tube O.D.	P Thread	P1 Male SAE Thread	A	E Minimum Opening	E1	S	L	H	316 SS Working Pressure (psig)
T4AN4MST-10K	1/4	7/16 - 20	7/16	1.23	0.17	0.17	0.55	0.36	9/16	10,000
T4AN6MST-10K	1/4	7/16 - 20	9/16	1.29	0.17	0.26	0.55	0.39	11/16	10,000
T6AN4MST-10K	3/8	9/16 - 18	7/16	1.27	0.26	0.17	0.56	0.36	5/8	10,000
T6AN6MST-10K	3/8	9/16 - 18	9/16	1.30	0.26	0.26	0.56	0.39	11/16	10,000
T8AN8MST-10K	1/2	3/4 - 16	3/4	1.48	0.36	0.36	0.66	0.44	7/8	10,000

37° AN x 37° Swivel AN Adapter (AN-ANF)



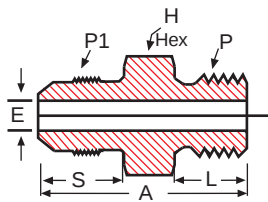
TruFit Part #	Tube O.D.	P Thread	P1 Thread	E Minimum Opening	A	S	H	H1	316 SS Working Pressure (psig)
T4AN4ANF-10K	1/4	7/16 - 20	7/16 - 20	0.17	1.12	0.55	9/16	9/16	10,000
T4AN6ANF-10K	1/4	7/16 - 20	9/16 - 18	0.17	1.29	0.55	11/16	11/16	10,000
T4AN8ANF-10K	1/4	7/16 - 20	3/4 - 16	0.17	1.34	0.55	15/16	7/8	10,000
T5AN4ANF-10K	5/16	1/2 - 20	7/16 - 20	0.23	1.18	0.55	9/16	9/16	10,000
T6AN4ANF-10K	3/8	9/16 - 18	7/16 - 20	0.26	1.21	0.56	9/16	9/16	10,000
T6AN6ANF-10K	3/8	9/16 - 18	9/16 - 18	0.26	1.30	0.56	11/16	11/16	10,000
T6AN8ANF-10K	3/8	9/16 - 18	3/4 - 16	0.26	1.38	0.56	15/16	7/8	10,000
T8AN4ANF-10K	1/2	3/4 - 16	7/16 - 20	0.36	1.31	0.66	13/16	9/16	10,000
T8AN6ANF-10K	1/2	3/4 - 16	9/16 - 18	0.36	1.40	0.66	13/16	11/16	10,000
T8AN8ANF-10K	1/2	3/4 - 16	3/4 - 16	0.36	1.40	0.66	15/16	7/8	10,000
T8AN12ANF-10K	1/2	3/4 - 16	1-1/16 - 12	0.36	1.50	0.66	1-1/4	1-1/4	10,000

37° AN Swivel x Male NPT Adapter (ANF-MC)



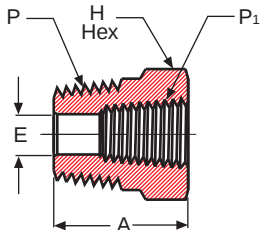
TruFit Part #	Tube O.D.	P NPT Thread	P1 Thread	E Minimum Opening	A	H	H1	316 SS Working Pressure (psig)
T4ANF4MC-10K	1/4	1/4 - 18	7/16 - 20	0.25	1.22	9/16	9/16	10,000
T5ANF4MC-10K	5/16	1/4 - 18	1/2 - 20	0.25	1.25	5/8	5/8	10,000
T6ANF4MC-10K	3/8	1/4 - 18	9/16 - 18	0.25	1.31	11/16	11/16	10,000
T6ANF6MC-10K	3/8	3/8 - 18	9/16 - 18	0.33	1.31	3/4	11/16	10,000
T8ANF8MC-10K	1/2	1/2 - 14	3/4 - 16	0.41	1.56	15/16	7/8	10,000
T12ANF8MC-10K	3/4	1/2 - 14	1-1/16 - 12	0.41	1.70	1-1/4	1-1/4	10,000

37° AN x Male ISO Straight Adapter (AN-MRS)



TruFit Part #	Tube O.D.	P1 Thread	P BSPP Thread	H	E Minimum Opening	E1	A	S	L	316 SS Working Pressure (psig)
T4AN4MRS-10K	1/4	7/16 - 20	1/4 - 19	3/4	0.17	0.25	1.25	0.55	0.44	10,000
T4AN6MRS-10K	1/4	7/16 - 20	3/8 - 19	7/8	0.17	0.32	1.30	0.55	0.44	10,000
T4AN8MRS-10K	1/4	7/16 - 20	1/2 - 14	1-1/8	0.17	0.41	1.52	0.55	0.56	10,000
T4AN12MRS-10K	1/4	7/16 - 20	3/4 - 14	1-5/16	0.17	0.61	1.55	0.55	0.62	10,000
T6AN6MRS-10K	3/8	9/16 - 18	3/8 - 19	7/8	0.26	0.32	1.30	0.56	0.44	10,000
T8AN8MRS-10K	1/2	3/4 - 16	1/2 - 14	1-1/8	0.39	0.41	1.63	0.66	0.56	10,000

Reducing Bushing (RB)



TruFit Part #	P Male NPT Size	P1 Female NPT Size	A	E Minimum Opening	H	316 SS Working Pressure (psig)
T4RB2-10K	1/4	1/8	1.15	.24	5/8	10,000
T6RB4-10K	3/8	1/4	1.38	.32	13/16	10,000
T8RB2-10K	1/2	1/8	1.09	.24	7/8	10,000
T8RB4-10K	1/2	1/4	1.53	.38	7/8	10,000
T8RB6-10K	1/2	3/8	1.62	.38	1"	10,000
T12RB4-10K	3/4	1/4	1.17	.42	1-1/8	10,000
T12RB6-10K	3/4	3/8	1.59	.50	1-1/8	10,000
T12RB8-10K	3/4	1/2	1.85	.51	1-1/4	10,000
T16RB4-10K	1"	1/4	1.36	.42	1-3/8	10,000
T16RB6-10K	1"	3/8	1.36	.56	1-3/8	10,000
T16RB8-10K	1"	1/2	1.97	.62	1-3/8	10,000
T16RB12-10K	1"	3/4	2.10	.67	1-1/2	10,000
T32RB8-10K	2"	1/2	1.75	.68	2-1/2	10,000

Temperature Limitation

System temperatures may be limited by the thread sealant or, when applicable, the gasket or O-ring material. Pressure derating factors for applications at temperatures greater than 100°F (37°C) were determined from this pressure code and are listed in the tables below.

STRESS FACTORS FOR DETERMINING PIPING SYSTEM PRESSURE RATINGS AT ELEVATED TEMPERATURES			
TEMPERATURE STRESS FACTORS			
Temperature		Stainless Steel	
°F	°C	304SS	316SS
100.00	38.00	1.00	1.00
200.00	93.00	1.00	1.00
300.00	149.00	1.00	1.00
400.00	204.00	0.94	0.97
500.00	260.00	0.88	0.90
600.00	316.00	0.82	0.85
700.00	371.00	0.80	0.82
800.00	427.00	0.76*	0.80*
900.00	482.00	0.73*	0.78*
1000.00	538.00	0.69*	0.73*
1200.00	649.00	0.30*	0.37*

* The precipitation of chromium carbides potentially resulting in intergranular corrosion may occur when exposed to operating temperatures above 800°F. Consult the factory for further information.

INSTRUCTIONS: To determine maximum allowable working pressures for the piping system at elevated temperatures, multiply the applicable tube or pipe maximum allowable working pressure by the corresponding temperature stress factor from the table above.

Safety

To help ensure the safe and reliable performance of TruFit products, complete system design must be considered prior to installation of the pipe, tubing and fittings.

Determining the design compatibility of materials, media, flows, temperatures and pressures; as well as implementing proper installation, operation and maintenance of the system are the responsibilities of the systems' owners, designers and users.

SSP Safety Reminders

All SSP products are designed and manufactured with safety in mind.

The following is a limited list of general safety tips as reminders of good safety practices:

Do not install, tighten or loosen a fitting or adapter while the system is under pressure.

Do not loosen a fitting, nut or plug to relieve or bleed system pressure.

Always use a back-up wrench to hold the pipe or pipe fitting body steady when tightening or loosening.

Use proper thread lubricants and sealants on tapered pipe threads.

Tube fitting end connection and tubing material should be similar (stainless steel fittings on stainless steel tubing, brass fittings on copper tubing, etc.) with the tubing material being fully annealed.

Do not weld tube fittings that are assembled. Prior to welding, remove all components such as nut, ferrule(s), o-ring, and seals. Protect the sealing and thread areas of the tube fitting by covering with a plug or another nut.

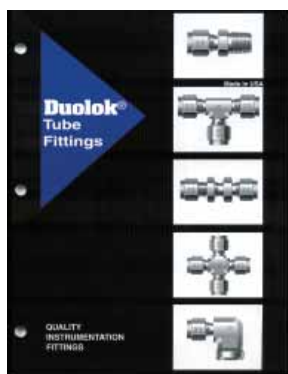
TruFit® Fittings

LIFETIME LIMITED WARRANTY

SSP guarantees all TruFit fittings to be free from defects in materials and workmanship. Additionally, SSP guarantees TruFit fitting product performance to the published catalog specifications when properly installed according to the catalog selection and installation instructions. To initiate a warranty claim, suspected defective product must be returned to SSP with the nature of potential defect documented for factory evaluation. Any product with a determined defect in material or workmanship will be replaced with equivalent product at no charge.

SSP

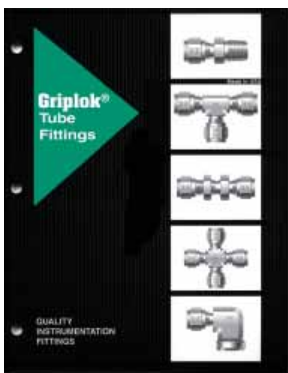
This warranty comprises the sole and entire warranty pertaining to items provided hereunder. There is no other warranty, guarantee, express or implied representation of any kind whatsoever. All other warranties including, but not limited to, merchantability and fitness for purpose, whether express, implied, or arising by operation of law, course of dealing, or trade usage are hereby disclaimed. There are no warranties which extend beyond the description on the face hereof; and this warranty does not apply in cases of abuse, mishandling, or normal use depreciation. In no event, whether alleged to arise from breach of contract, express or implied warranty, by operation of law, negligence or otherwise, will SSP be liable for any incidental, consequential, lost property, or other special damages of any kind whatsoever. The exclusive, only remedy under this warranty is the replacement of determined defective parts as set forth above.



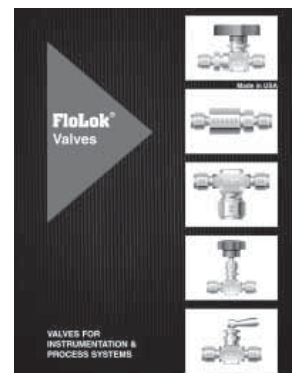
Duolok®
Tube Fittings



Unilok®
Tube Fittings



Griplok®
Tube Fittings



FloLok®
Valves

STOCKED AND SUPPORTED LOCALLY BY:



SSP
Stainless Steel Products
fittings ■ valves ■ tubing

8250 Boyle Parkway
Twinsburg, Ohio 44087-2200
Telephone: 1.330.425.4250
Telefax: 1.330.425.8116
www.sspfittings.com



100% Made in the USA
ILT10KPCA/000/10A