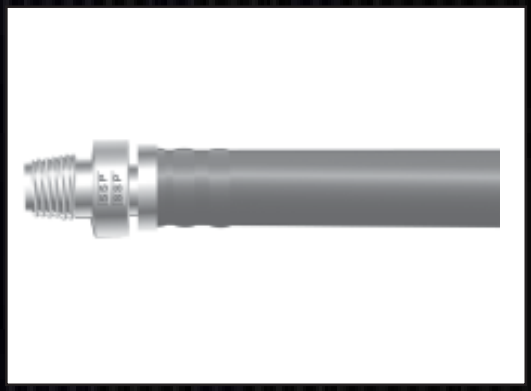
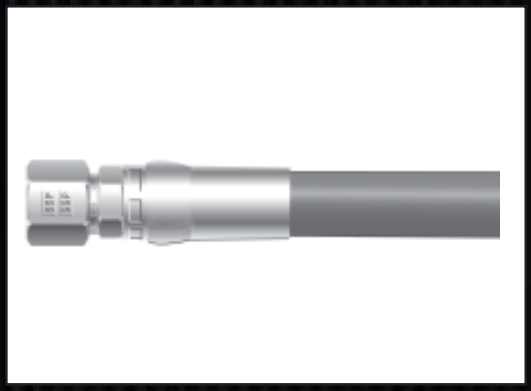
TruFit®

Hose Assemblies, Connectors, Adapters and Accessories





100% Made in the USA

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, stratigic plans were developed to design, manufacture and distribute American- manufactured, Instrumentation-quality 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, efficent 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.

Visual Index

Hose Assemblies

Connectors

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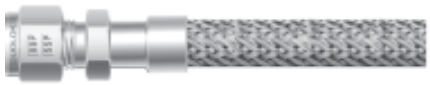
Hose Assemblies

High Pressure Flex Metal Hose (FM)

pages 6-7



Size:	1/4" to 2"
Temperature:	-350° to 1500° F
Pressure:	vacuum to 3,100 psig

Flex Metal High Pressure

High Pressure Flex Metal Hose has 316SS or 321SS corrugated inner core to convey media in cyrogenic to extremely high temperature applications. The inner core is mechanically formed to provide leak proof service, and is reinforced with a stainless steel outer braid for high pressure service. Flex Metal Assemblies come fully assembled, 100% pressure tested, cleaned, and individually bagged.

Low Pressure Flex Metal Hose (FML)

pages 8-9

Size:	1/4" to 1/2"
Temperature:	-325° to 1500° F
Pressure:	vacuum to 1,500 psig

Flex Metal Low Pressure

Low Pressure Flex Metal Hose has a 316SS or 321SS corrugated inner core. It performs well in cyrogenic to extremely high temperature applications, and is rated for lower pressure service. Low Pressure Flex Metal Assemblies come fully assembled, 100% pressured tested, cleaned, and individually bagged.

Push-On Hose (PB)

pages 10-11

Size:	1/4" to 3/4"
Temperature:	-40° to 200° F
Pressure:	ambient to 350 psig

Push-On

Push-On hose consists of a nitrile based rubber inner core covered by a synthetic braid. Push-On hose is for use in low pressure applications and is not recommended to exceed 350psi maximum pressure. Push-On hose is available in a variety of colors on request. Push-On assemblies come fully assembled, 100% pressured tested, cleaned, and individually bagged.

Thermoplastic Hose (T7P) (T8P)

pages 12-13

Size:	1/4" to 1"
Temperature:	-40° to 200° F
Pressure: T7P T8P	ambient to 3,000 psig 5,000 psig

Thermoplastic

Thermoplastic hose has a solid nylon core tube reinforced with synthetic or Argmid fiber, and jacketed with a perforated polyurethane cover, for abrasion resistance. It is an excellent choice in a variety of hydraulic and high pressure gas applications. T7P for medium-pressure meets requirements of SAE 100R7 and T8P for high-pressure meets requirements of SAE 100R8. Thermoplastic assemblies come fully assembled, 100% pressure tested, cleaned, and individually bagged.

Teflon Lined Hose (TFE)

pages 14-16

Size:	1/4" to 1"
Temperature:	-65° to 400° F (continuous) -100° to 500°F (intermittent)
Pressure:	ambient to 3,000 psig

* sizes 4-8 rated for full vacuum

Teflon Lined

Teflon Lined Hose is constructed of DuPont type 62 fine grade resin, extruded to maintain maximum concentricity, and reinforced with a single stainless steel outer braid for high pressure service. Teflon Lined Hose Assemblies come fully assembled, 100% pressure tested, cleaned, and individually bagged.

Other Sizes Available - Consult the Factory

How to Order Hose Assemblies

TruFit Hose Assemblies are ordered by specifying part numbers as listed below. Simply specify the end connection nearest the top of the list first. The end connection lowest in the list is specified second. The following explains the part numbering system:

I	–	SS	–	T	–	4	-	FM	–	4	–	D	–	4	-	DTA	-	4	–	*
		Fitting Material **Chart A**		TruFit		Hose Size **Chart B**		Hose Type **Chart C**		First End Size **Chart D**		First End Connection **Chart E**		Second End Size **Chart D**		Second End Connection **Chart E**		Length in Inches		Accesso-ries **Chart F**

Chart A

Fitting Material	
SS	316 Stainless
B	Brass
HC	Hastelloy C
M	Monel

Chart C

Hose Type	
FM	Flex Metal Hose High Pressure
FML	Flex Metal Hose Low Pressure
PB	Push-On Hose (Blue)
T7P	Thermoplastic 100R7
T8P	Thermoplastic 100R8
TFE	Teflon Lined Medium Pressure

Chart E

First or Second End Connection	
Designator	**Description**
AN	37° AN
D	Duolok Tube End
DTA	Duolok Tube Adapter
FC	Female NPT
FJ	SAE/ MS/ 37° AN Swivel
FRS	Female ISO Straight
FRT	Female ISO Tapered
FST	Female SAE
G	Griplok Tube End
GTA	Griplok Tube Adapter
MC	Male NPT
MRS	Male ISO Straight
MRT	Male ISO Tapered
MST	Male SAE
PSW	Pipe Socket Weld
PW	Pipe Butt Weld
TSW	Tube Socket Weld
TW	Tube Butt Weld
U	Unilok Tube End
UTA	Unilok Tube Adapter

Chart B

Hose Sizes
3
4
5
6
8
10
12
16
20
24
32

Chart D

First or Second End Size	
2	1/8"
3	3/16"
4	1/4"
5	5/16"
6	3/8"
8	1/2"
10	5/8"
12	3/4"
16	1"
20	1-1/4"
24	1-1/2"
32	2"

Measuring Assembly Lengths

Assembly length is measured end-to-end in all configurations with the exception of assemblies containing (FJ) end connectors, which are measured seat-to-seat.

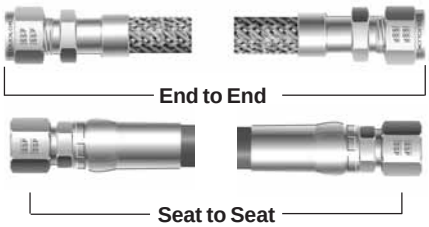
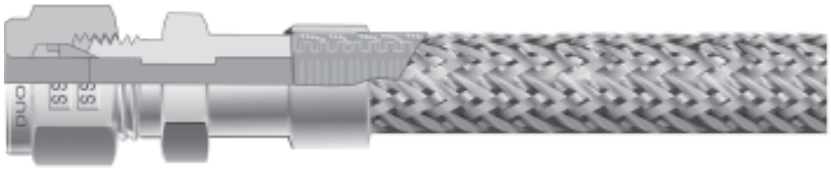


Chart F

Accessories (If Any)	
FS	Fire Sleeve
SG	Spring Guard
F	Silicone- Coated Fiberglass Cover

Flex Metal Hose High Pressure (FM)



Features

Both standard and custom lengths available

Stainless steel end connections available in 1/4 to 2 inch sizes

Useable in both vacuum and positive pressure applications

End connections welded in accordance with ASME Boiler and Pressure Vessel Code Section IX

Technical Data

TruFit Part #	Nominal Hose (in.)			Centerline Bend Radius*		Minimum Burst Pressure at 70°F (psig)	Working Pressure from -325° to 100°F (psig)	Weight Per Foot (lbs)
				Static (in.)	Dynamic (in.)			
	Size	I.D.	O.D.					
4FM	1/4	0.25	0.57	2.50	5.00	12,400	3,100	0.17
6FM	3/8	0.38	0.74	3.00	6.00	8,000	2,000	0.25
8FM	1/2	0.50	0.92	4.50	8.00	7,200	1,800	0.63
12FM	3/4	0.75	1.31	6.00	9.00	6,000	1,500	0.79
16FM	1	1.00	1.60	6.75	10.50	4,800	1,200	1.20
20FM	1-1/4	1.25	1.97	4.50	13.50	4,440	1,110	1.66
24FM	1-1/2	1.50	2.30	5.25	16.50	3,600	900	2.11
32FM	2	2.00	2.61	6.75	18.00	2,000	500	1.73

*Centerline bend radius is measured to inside of bend.

Standard FM Hose Configurations

TruFit Part #	Size	Assembly Length (in.)	First End Connection	Second End Connection
ISST4FM4D4D12	1/4	12	Tube Fitting	Tube Fitting
ISST4FM4D4D36	1/4	36	Tube Fitting	Tube Fitting
ISST4FM4D4MC12	1/4	12	Tube Fitting	Male NPT
ISST4FM4D4MC36	1/4	36	Tube Fitting	Male NPT
ISST6FM6D6D18	3/8	18	Tube Fitting	Tube Fitting
ISST6FM6D6D36	3/8	36	Tube Fitting	Tube Fitting
ISST6FM6D6MC18	3/8	18	Tube Fitting	Male NPT
ISST6FM6D6MC36	3/8	36	Tube Fitting	Male NPT
ISST8FM8D8D18	1/2	18	Tube Fitting	Tube Fitting
ISST8FM8D8D48	1/2	48	Tube Fitting	Tube Fitting

Standard FM Hose Configurations

TruFit Part #	Size	Assembly Length (in.)	First End Connection	Second End Connection
ISST8FM8D8MC18	1/2	18	Tube Fitting	Male NPT
ISST8FM8D8MC48	1/2	48	Tube Fitting	Male NPT
ISST12FM12D12D18	3/4	18	Tube Fitting	Tube Fitting
ISST12FM12D12D48	3/4	48	Tube Fitting	Tube Fitting
ISST12FM12D12MC18	3/4	18	Tube Fitting	Male NPT
ISST12FM12D12MC48	3/4	48	Tube Fitting	Male NPT
ISST16FM16D16D24	1	24	Tube Fitting	Tube Fitting
ISST16FM16D16D60	1	60	Tube Fitting	Tube Fitting
ISST16FM16D16MC24	1	24	Tube Fitting	Male NPT
ISST16FM16D16MC60	1	60	Tube Fitting	Male NPT

* Please Specify (D) for Duolok, (G) for Griplok or (U) for Unilok Tube fittings.

Pressure-Temperature Ratings

To determine pressure ratings at heightened temperatures:

1. Find working pressure at 70°F in the technical data chart above.
2. Multiply by the approprite temperature factor found in chart P.

EXAMPLE:

1/2 inch hose at 300°F

1. Working pressure is 1,800 psig
2. The appropriate temperature factore is 0.85
   1800 x 0.85= 1,530psig.

The hose pressure rating for 1/2 in. hose at 300°F is 1,530 psig.

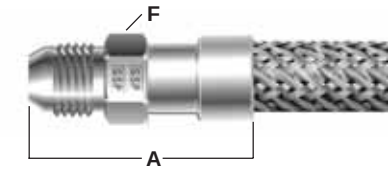
Chart P

Temperature °F	Factor
-325	1.00
100	1.00
200	0.91
300	0.85
400	0.78
500	0.77
600	0.76
700	0.74
800	0.73

Saturated Steam Pressure To Temperature Conversion

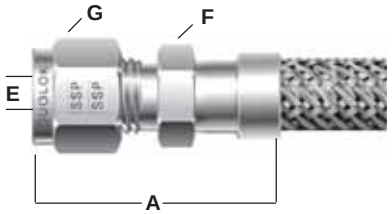
Saturated Steam (psig)	Temperature (°F)
0	212
50	298
100	338
150	366
200	388
300	422
400	448
700	505
1,000	546

Flex Metal Hose High Pressure (FM)



37° AN (AN)

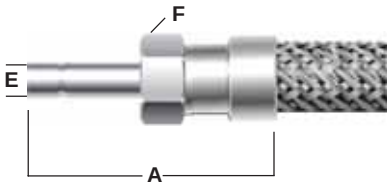
Fitting Size (in.)	Hose Size Designator (in.)	Dimensions (in.) A	Dimensions (in.) F Hex	Weight (each)
1/4	4FM	1.71	1/2	0.03
3/8	6FM	1.71	5/8	0.04
1/2	8FM	2.04	13/16	0.09



Tube Fitting (D) (G) or (U)

Fitting Size (in.)	Hose Size Designator (in.)	Dimensions (in.) A	E Min.	F Hex	G Hex	Weight (each)
1/4	4FM	1.94	0.19	9/16	9/16	0.08
3/8	6FM	2.00	0.28	11/16	11/16	0.11
1/2	8FM	2.24	0.41	7/8	7/8	0.20
3/4	12FM	2.35	0.62	1-1/16	1-1/16	0.29
1	16FM	2.64	0.88	1-3/8	1-3/8	0.58

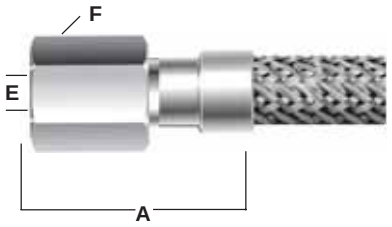
* Please Specify (D) for Duolok, (G) for Griplok or (U) for Unilok Tube fittings.



Tube Adapters (DTA) (GTA) or (UTA)

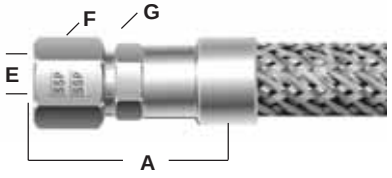
Tube OD (in.)	Hose Size Designator (in.)	Dimensions (in.) A	E	F Hex	Weight (each)
1/4	4FM	1.76	0.13	9/16	0.04
3/8	6FM	1.82	0.24	11/16	0.06
1/2	8FM	2.22	0.33	7/8	0.08
3/4	12FM	2.35	0.51	1-1/16	0.10
1	16FM	2.69	0.75	1-3/8	0.17

* Please Specify (DTA) for Duolok, (GTA) for Griplok or (UTA) for Unilok Tube adapters.



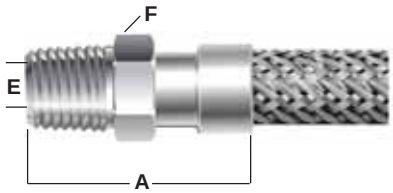
Female NPT (FC)

Pipe Size (in.)	Hose Size Designator (in.)	Dimensions (in.) A	E Min.	F Hex	Weight (each)
1/4	4FM	1.81	0.19	3/4	0.09
3/4	12FM	2.21	0.62	1-5/6	0.12



JIC Swivel (FJ)

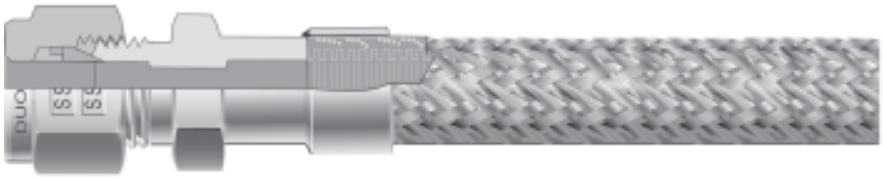
Fitting Size (in.)	Hose Size Designator (in.)	Dimensions (in.) A	E	F Hex	G Hex	Weight (each)
1/4	4FM	1.87	0.25	9/16	9/16	0.07
3/8	6FM	1.97	0.38	11/16	11/16	0.09
1/2	8FM	2.15	0.50	7/8	7/8	0.16
3/4	12FM		0.75	1-1/4	1-1/16	0.27
1	16FM		1.00	1-1/2	1-5/16	0.37



Male NPT (MC)

Pipe Size (in.)	Hose Size Designator (in.)	Dimensions (in.) A	E	F Hex	Weight (each)
1/4	4FM	1.80	0.25	9/16	0.05
1/4	6FM	1.81	0.25	11/16	0.07
3/8	6FM	1.81	0.28	11/16	0.07
1/2	4FM	1.99	0.28	13/16	0.13
1/2	8FM	2.15	0.41	7/8	0.13
3/4	12FM	2.22	0.62	1-1/16	0.16
1	16FM	2.54	0.88	1-3/8	0.23

Flex Metal Hose Low Pressure (FML)



Features

Both standard and custom lengths available

Usable in both vacuum and positive pressure applications

Stainless steel end connections available in 1/4 to 1/2 inch sizes

Technical Data

TruFit Part #	Nominal Hose (in.)			Centerline Bend Radius*		Minimum Burst Pressure at 70°F (psig)	Working Pressure from -325° to 100°F (psig)	Weight Per Foot (lbs)
				Static (in.)	Dynamic (in.)			
	Size	I.D.	O.D.					
4FML	1/4	1/4	0.57	1.00	5.00	6,000	1,500	0.17
6FML	3/8	3/8	0.74	1.25	5.50	6,000	1,500	
8FML	1/2	1/2	0.89	1.50	6.00	4,800	1,200	0.34

*Centerline bend radius is measured to inside of bend.

Standard FML Hose Configurations

TruFit Part #	Size	Assembly Length (in.)	First End Connection	Second End Connection
ISST4FML4D4D12	1/4	12	Tube Fitting	Tube Fitting
ISST4FML4D4D36	1/4	36	Tube Fitting	Tube Fitting
ISST4FML4D4MC12	1/4	12	Tube Fitting	Male NPT
ISST4FML4D4MC36	1/4	36	Tube Fitting	Male NPT
ISST6FML6D6D18	3/8	18	Tube Fitting	Tube Fitting
ISST6FML6D6D36	3/8	36	Tube Fitting	Tube Fitting
ISST6FML6D6MC18	3/8	18	Tube Fitting	Male NPT
ISST6FML6D6MC36	3/8	36	Tube Fitting	Male NPT
ISST8FML8D8D18	1/2	18	Tube Fitting	Tube Fitting
ISST8FML8D8D48	1/2	48	Tube Fitting	Tube Fitting

Standard FML Hose Configurations

TruFit Part #	Size	Assembly Length (in.)	First End Connection	Second End Connection
ISST8FML8D8MC18	1/2	18	Tube Fitting	Male NPT
ISST8FML8D8MC48	1/2	48	Tube Fitting	Male NPT
ISST12FML12D12D18	3/4	18	Tube Fitting	Tube Fitting
ISST12FML12D12D48	3/4	48	Tube Fitting	Tube Fitting
ISST12FML12D12MC18	3/4	18	Tube Fitting	Male NPT
ISST12FML12D12MC48	3/4	48	Tube Fitting	Male NPT
ISST16FML16D16D24	1	24	Tube Fitting	Tube Fitting
ISST16FML16D16D60	1	60	Tube Fitting	Tube Fitting
ISST16FML16D16MC24	1	24	Tube Fitting	Male NPT
ISST16FML16D16MC60	1	60	Tube Fitting	Male NPT

Pressure-Temperature Ratings

To determine pressure ratings at heightened temperatures:

1. Find working pressure at 70°F in the technical data chart above.
2. Multiply by the appropriate temperature factor found in chart P.

EXAMPLE:

1/2 inch hose at 600°F

1. Working pressure is 1200 psig
2. The appropriate temperature factor is 0.76
   1200 x 0.76= 912 psig.

The hose pressure rating for 1/2 in. hose at 600°F is 912 psig.

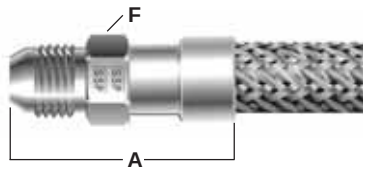
Chart P

Temperature °F	Factor
-325	1.00
100	1.00
200	0.91
300	0.85
400	0.78
500	0.77
600	0.76
700	0.74
800	0.73

Saturated Steam Pressure To Temperature Conversion

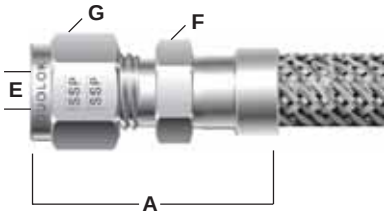
Saturated Steam (psig)	Temperature (°F)
0	212
50	298
100	338
150	366
200	388
300	422
400	448
700	505
1,000	546

Flex Metal Hose Low Pressure (FML)



37° AN (AN)

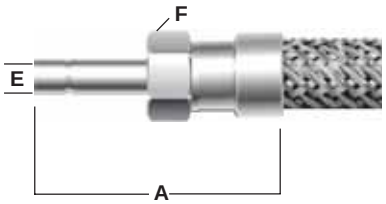
Fitting Size (in.)	Hose Size Designator (in.)	Dimensions (in.) A	Dimensions (in.) F Hex	Weight (each)
1/4	4FML	1.71	1/2	0.03
3/8	6FML	1.71	5/8	0.04
1/2	8FML	2.04	13/16	0.09



Tube Fitting (D) (G) or (U)

Fitting Size (in.)	Hose Size Designator (in.)	Dimensions (in.) A	E Min.	F Hex	G Hex	Weight (each)
1/4	4FML	1.94	0.19	9/16	9/16	0.08
3/8	6FML	2.22	0.28	11/16	11/16	0.11
1/2	8FML	2.33	0.41	7/8	7/8	0.20

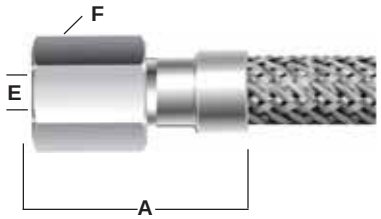
* Please Specify (D) for Duolok, (G) for Griplok or (U) for Unilok Tube fittings.



Tube Adapters (DTA) (GTA) or (UTA)

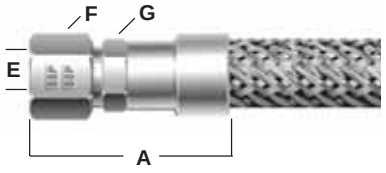
Tube OD (in.)	Hose Size Designator (in.)	Dimensions (in.) A	E	F Hex	Weight (each)
1/4	4FML	1.76	0.13	9/16	0.04
3/8	6FML	1.79	0.24	11/16	0.06
1/2	8FML	2.25	0.33	7/8	0.08

* Please Specify (DTA) for Duolok, (GTA) for Griplok of (UTA) for Unilok Tube adapters.



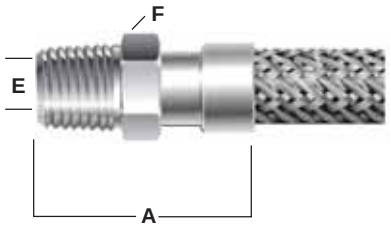
Female NPT (FC)

Pipe Size (in.)	Hose Size Designator (in.)	Dimensions (in.) A	E Min.	F Hex	Weight (each)
1/4	4FML	1.81	0.19	3/4	0.17



JIC Swivel (FJ)

Fitting Size (in.)	Hose Size Designator (in.)	Dimensions (in.) A	E	F Hex	G Hex	Weight (each)
1/4	4FML	1.87	0.25	9/16	9/16	0.07
3/8	6FML	1.97	0.38	11/16	11/16	0.09
1/2	8FML	2.15	0.50	7/8	7/8	0.16



Male NPT (MC)

Pipe Size (in.)	Hose Size Designator (in.)	Dimensions (in.) A	E	F Hex	Weight (each)
1/4	4FML	1.80	0.19	9/16	0.05
3/8	6FML	2.02	0.28	11/16	0.07
1/2	8FML	2.21	0.41	7/8	0.13

Push-On Hose (PB)

Features

Both standard and custom lengths available

Reusable stainless steel end connections, available in 1/4 to 3/4 inch sizes

Flame resistant cover

Available in Blue, Green(G), Gray(GR), Black(K), Red(R) and Yellow(Y).

Technical Data

TruFit Part #	Nominal Hose (in.)			Minimum Bend Radius (in.)	Minimum Burst Pressure at 70°F (psig)	Working Pressure at 70°F (psig)	Weight Per Foot (lbs)	Temperature Range
	Size	I.D.	O.D.					
4PB	1/4	0.25	0.50	2.50	1,400	350	0.09	
6PB	3/8	0.38	0.66	3.00	1,200	300	0.12	-40° to 200°F
8PB	1/2	0.50	0.76	5.00	1,200	300	0.14	
12PB	3/4	0.75	1.06	7.00	1,200	300	0.22	

*Minimum bend radius is measured to inside of bend.

Construction

Nitrile based synthetic rubber inner core reinforced with a synthetic braid, covered with a weather, oil and abrasion resistant Neoprene layer.

Characteristics

Hose is available in a variety of colors on request.

Applications

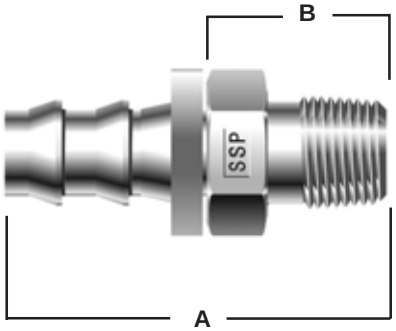
Ideal for applications where high abuse resistance, strength and flexibility are desired. Pressures from ambient to 300 psi.

Pressure-Temperature Ratings

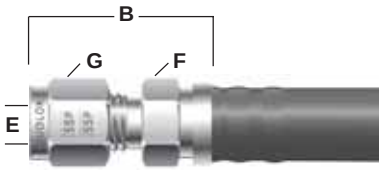
Pressure-Temperature ratings must maintain a 4 to 1 minimum factor between working pressure and minimum burst pressure.

Nominal Hose Size	1/4 (in.)	3/8, 1/2, 3/4 (in.)
Temperature °F	Working Pressure (psig)	
-40	350	300
70	350	300
100	315	270
150	210	180
200	100	80

Fitting Dimensions



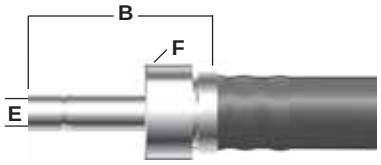
Push-On Hose (PB)



Tube Fitting (D) (G) or (U)

Fitting Size (in.)	Nominal Hose Size (in.)	Dimensions (in.)					Weight (each)
		A	B	E	F Hex	G Hex	
1/4	1/4	1.97	1.21	0.19	9/16	9/16	0.06
3/8	3/8	2.11	1.24	0.28	11/16	11/16	0.08
1/2	1/2	2.47	1.42	0.41	7/8	7/8	0.14

*Please Specify (D) for Duolok, (G) for Griplok or (U) for Unilok Tube End connections.



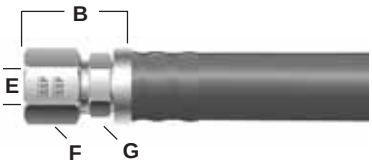
Tube Adapters (DTA) (GTA) or (UTA)

Tube OD (in.)	Nominal Hose Size (in.)	Dimensions (in.)				Weight (each)
		A	B	E	F Hex	
1/4	1/4	1.93	1.17	0.13	9/16	0.03
3/8	3/8	2.03	1.16	0.24	11/16	0.05
1/2	1/2	2.47	1.42	0.33	7/8	0.09
3/4	3/4	3.14	1.48	0.51	1-1/16	0.16

*Please Specify (DTA) for Duolok, (GTA) for Griplok or (UTA) for Unilok Tube Adapters.

Male NPT (MC)

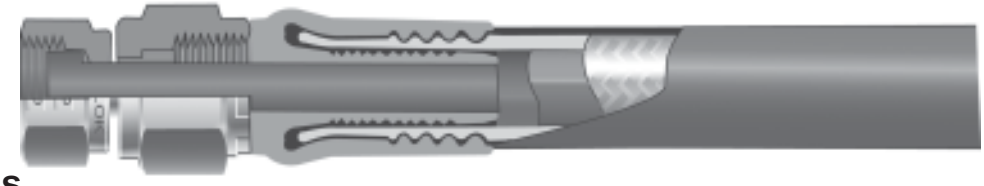
Pipe Size (in.)	Nominal Hose Size (in.)	Dimensions (in.)				Weight (each)
		A	B	E	F Hex	
1/4	1/4	1.68	0.92	0.19	9/16	0.03
1/4	3/8	1.80	0.93	0.19	11/16	0.04
3/8	3/8	1.80	0.93	0.28	11/16	0.07
1/2	1/2	2.19	1.14	0.41	7/8	0.09
3/4	3/4	2.81	1.15	0.62	1-1/16	0.16



JIC Swivel (FJ)

Fitting Size (in.)	Minimum Inside Diameter (in.)	Tube O.D.	Dimensions (in.)					Weight (each)
			A	B	E	F Hex	G Hex	
1/4	0.17	1/4	1.56	0.81	0.25	9/16	9/16	0.05
3/8	0.30	3/8	1.81	0.95	0.38	11/16	11/16	0.07
1/2	0.39	1/2	1.88	0.95	0.50	7/8	7/8	0.13
3/4	0.61	3/4	2.65	1.50	0.75	1-1/4	1-1/16	0.31

Thermoplastic Hose (T7P) (T8P)



Features

Both standard and custom lengths available

Stainless steel end connections, available in 1/4 to 1 inch sizes

SAE 100R7 hose for use in medium pressure applications

SAE 100R8 hose for use in high pressure applications

Technical Data SAE 100R7

TruFit Part #	Nominal Hose (in.)			Minimum Bend Radius (in.)	Minimum Burst Pressure at 70°F (psig)	Working Pressure at 70°F (psig)	Weight Per Foot	Temperature Range
	Size	I.D.	O.D.					
4T7P	1/4	0.25	0.51	1.25	11,000	2,750	0.06	
6T7P	3/8	0.38	0.67	2.00	9,000	2,250	0.10	- 40° to 200°F
8T7P	1/2	0.50	0.82	3.00	8,000	2,000	0.14	

*Minimum bend radius is measured to inside of bend.

Technical Data SAE 100R8

TruFit Part #	Nominal Hose (in.)			Minimum Bend Radius (in.)	Minimum Burst Pressure at 70°F	Working Pressure at 70°F	Weight Per Foot	Temperature Range
	Size	I.D.	O.D.					
4T8P	1/4	0.25	0.53	2.00	20,000	5,000	0.08	
6T8P	3/8	0.38	0.67	2.50	16,000	4,000	0.11	- 40° to 200°F
8T8P	1/2	0.50	0.84	4.00	14,000	3,500	0.15	

*Minimum bend radius is measured to inside of bend.

Construction

316L or 321 stainless steel, annual, close pitch hose. High wall thickness for excellent chemical resistance and cycle life. Single 304L stainless steel tubular heavy-duty outer braid.

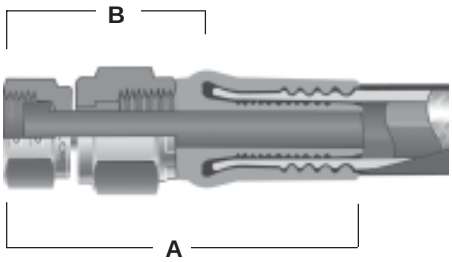
Characteristics

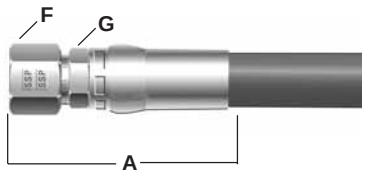
Very good dynamic flexibility when compared to other comparable hose product.

Applications

Extremely demanding temperature applications from cryogenic to very high temperatures including saturated steam. Pressures from full vacuum to 3,100 psig (depending on size). Ideal in applications where no out-gassing or effusion are desired.

Fitting Dimensions

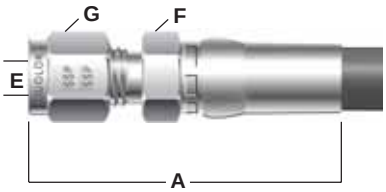




37° AN Swivel (FJ)

Fitting Size (in.)	Nominal Hose Size (in.)	Maximum Outside Dimension Hex Flat	Dimensions (in.) A	B	F Hex	G Hex	Weight (each)
1/4	1/4	11/16	2.65	1.59	9/16	9/16	0.15
3/8	3/8	3/4	3.03	1.71	11/16	11/16	0.20
1/2	1/2	15/16	3.34	1.77	7/8	7/8	0.31

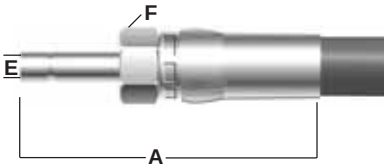
*Please Specify T7P or T8P hose when ordering



Tube Fitting (D) (G) or (U)

Fitting Size (in.)	Nominal Hose Size (in.)	Maximum Outside Dimension Hex Flat	Dimensions (in.) A	B	E	F Hex	G Hex	Weight (each)
1/4	1/4	11/16	2.60	1.54	0.19	9/16	9/16	0.16
3/8	3/8	3/4	2.94	1.63	0.28	11/16	11/16	0.22
1/2	1/2	15/16	3.30	1.72	0.41	7/8	7/8	0.33

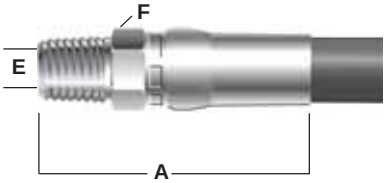
*Please Specify T7P or T8P hose when ordering
**Please Specify (D) for Duolok, (G) for Griplok or (U) for Unilok Tube fittings



Tube Adapters (DTA) (GTA) or (UTA)

Tube OD (in.)	Nominal Hose Size (in.)	Maximum Outside Dimension Hex Flat	Dimensions (in.) A	B	E	F Hex	Weight (each)
1/4	1/4	11/16	2.49	1.43	0.13	9/16	0.12
3/8	3/8	3/4	2.81	1.50	0.24	11/16	0.18
1/2	1/2	15/16	3.35	1.79	0.33	7/8	0.29

* Please Specify T7P or T8P hose when ordering
**Please Specify (DTA) for Duolok, (GTA) for Griplok or (UTA) for Unilok Tube Adapters

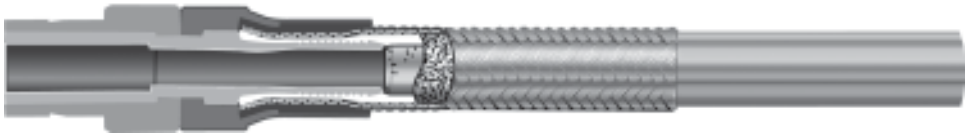


Male NPT (MC)

Pipe Size (in.)	Nominal Hose Size (in.)	Maximum Outside Dimension Hex Flat	Dimensions (in.) A	B	E	F Hex	Weight (each)
1/4	1/4	11/16	2.31	1.25	0.19	9/16	0.13
3/8	3/8	3/4	2.65	1.34	0.28	11/16	0.19
1/2	1/2	15/16	3.09	1.53	0.41	7/8	0.27

* Please Specify T7P or T8P hose when ordering

Teflon Lined Hose (TFE)



Features

Both standard and custom lengths available

Stainless steel end connections, available in 1/4 to 1 inch sizes

Teflon material complies with FDA regulations for contact with food, water, and other beverages.

Technical Data

TruFit Part #	Nominal Hose Size (in.)	Avg. I.D.	Avg. O.D.	Minimum Bend Radius*		Minimum Burst Pressure at 70°F (psig)	Working Pressure from -325° to 100°F (psig)	Weight Per Foot (lbs)	Temperature Range
				Static (in.)	Dynamic (in.)				
4TFE	1/4	0.19	0.32	1.50	2.00	12,000	3,000	0.05	
6TFE	3/8	0.31	0.45	3.50	5.00	10,000	2,500	0.11	
8TFE	1/2	0.41	0.57	4.50	6.00	8,000	2,000	0.16	65° - 450° F
12TFE	3/4	0.63	0.80	6.00	7.50	6,000	1,500	0.23	
16TFE	1	0.88	1.06	6.00	7.50	1,000	1,000	0.30	

*Minimum bend radius is measured to inside of bend.

Standard TFE Hose Configurations

TruFit Part #	Size	Assembly Length (in.)	End Designators
ISST4TFE4DTA4DTA6	1/4	6	Tube Adapter
ISST4TFE4DTA4DTA12	1/4	12	Tube Adapter
ISST4TFE4DTA4DTA18	1/4	18	Tube Adapter
ISST4TFE4DTA4DTA24	1/4	24	Tube Adapter
ISST4TFE4DTA4DTA36	1/4	36	Tube Adapter
ISST4TFE4DTA4DTA48	1/4	48	Tube Adapter
ISST4TFE4DTA4DTA60	1/4	60	Tube Adapter
ISST4TFE4DTA4DTA72	1/4	72	Tube Adapter
ISST4TFE4DTA4DTA120	1/4	120	Tube Adapter
ISST6TFE6DTA6DTA12	3/8	12	Tube Adapter
ISST6TFE6DTA6DTA18	3/8	18	Tube Adapter
ISST6TFE6DTA6DTA24	3/8	24	Tube Adapter
ISST6TFE6DTA6DTA36	3/8	36	Tube Adapter
ISST6TFE6DTA6DTA48	3/8	48	Tube Adapter

Standard TFE Hose Configurations

TruFit Part #	Size	Assembly Length (in.)	End Designators
ISST6TFE6DTA6DTA60	3/8	60	Tube Adapter
ISST6TFE6DTA6DTA72	3/8	72	Tube Adapter
ISST8TFE8DTA8DTA12	1/2	12	Tube Adapter
ISST8TFE8DTA8DTA18	1/2	18	Tube Adapter
ISST8TFE8DTA8DTA24	1/2	24	Tube Adapter
ISST8TFE8DTA8DTA36	1/2	36	Tube Adapter
ISST8TFE8DTA8DTA48	1/2	48	Tube Adapter
ISST8TFE8DTA8DTA60	1/2	60	Tube Adapter
ISST8TFE8DTA8DTA72	1/2	72	Tube Adapter
ISST8TFE8DTA8DTA96	1/2	96	Tube Adapter
ISST12TFE12DTA12DTA24	3/4	24	Tube Adapter
ISST12TFE12DTA12DTA36	3/4	36	Tube Adapter
ISST12TFE12DTA12DTA48	3/4	48	Tube Adapter
ISST16TFE16DTA16DTA36	1	36	Tube Adapter
ISST16TFE16DTA16DTA48	1	48	Tube Adapter

Pressure-Temperature Ratings

To determine pressure ratings at heightened temperatures:

1. Find working pressure at 70°F in the technical data chart Chart P.
2. Multiply by the appropriate temperature factor found in chart P.

EXAMPLE:

3/8 inch hose at 400°F

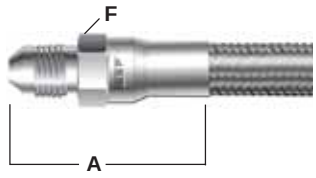
1. Working pressure is 2,500 psig
2. The appropriate temperature factor is 0.48
   2,500 x 0.48= 1,200 psig.

The hose pressure rating for 3/8 in. hose at 400°F is 1200 psig.

Chart P

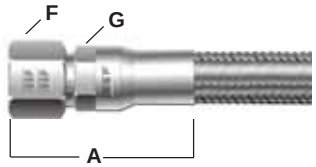
Temperature °F	Factor
-65	0.75
0	1.00
100	1.00
200	0.58
300	0.52
400	0.48
450	0.46

Teflon Lined Hose (TFE)



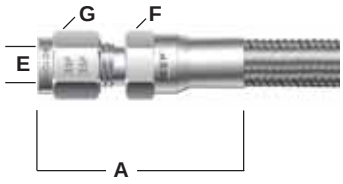
37° AN (AN)

Fitting Size (in.)	Minimum Inside Diameter (in.)	Maximum Outside Dimension Hex Flat	Dimensions (in.) A	Dimensions (in.) F Hex	Weight (each)
1/4	0.16	11/16	1.88	1/2	0.05
3/8	0.27	5/8	1.98	5/8	0.11
1/2	0.36	7/8	2.32	13/16	0.16



37° AN Swivel (FJ)

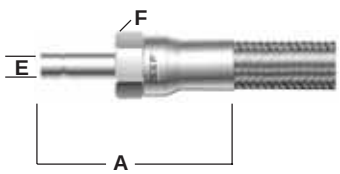
Fitting Size (in.)	Hose Size Designator (in.)	Dimensions (in.) A	Dimensions (in.) F Hex	Dimensions (in.) G Hex	Weight (each)
1/4	4TFE	1.62	9/16	9/16	0.05
3/8	6TFE	1.82	11/16	11/16	0.11
1/2	8TFE	2.09	7/8	7/8	0.16



Tube Fitting (D) (G) or (U)

Fitting Size (in.)	Hose Size Designator (in.)	Demensions (in.) A	Demensions (in.) E	Demensions (in.) F Hex	Demensions (in.) G Hex	Weight (each)
1/4	4TFE	1.97	0.19	9/16	9/16	0.05
3/8	6TFE	2.27	0.28	11/16	11/16	0.11
1/2	8TFE	2.43	0.41	7/8	7/8	0.16
3/4	12TFE	2.87	0.62	1-1/16	1-1/16	0.23

* Please Specify (D) for Duolok, (G) for Griplok or (U) for Unilok Tube fittings.

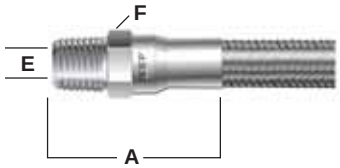


Tube Adapters (DTA) (GTA) (UTA)

Tube OD (in.)	Hose Size Designator (in.)	Dimensions (in.) A	Dimensions (in.) E	Dimensions (in.) F Hex	Weight (each)
1/4	4TFE	1.64	0.13	9/16	0.04
3/8	6TFE	1.81	0.24	9/16	0.06
3/8	8TFE	2.27	0.24	11/16	0.06
1/2	8TFE	2.19	0.33	7/8	0.10
3/4	12TFE	2.72	0.47	7/8	0.26
3/4	16TFE	3.29	0.51	1-1/16	0.26
1	12TFE	2.99	0.62	1-1/16	0.30
1	16TFE	3.57	0.75	1-3/8	0.30

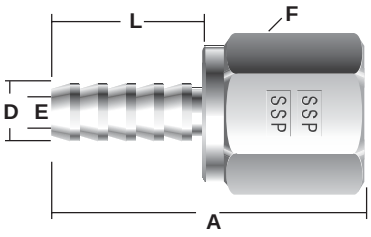
*Please Specify (DTA) for Duolok, (GTA) for Griplok or (UTA) for Unilok Tube Adapters.

Teflon Lined Hose (TFE)



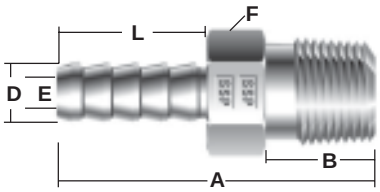
Male NPT (MC)

Pipe Size (in.)	Hose Size Designator (in.)	Dimensions (in.) A	Dimensions (in.) E	Dimensions (in.) F Hex	Weight (each)
1/4	4TFE	1.88	0.19	9/16	0.05
1/4	6TFE	1.98	0.19	9/16	0.11
1/4	8TFE	2.10	0.19	9/16	0.16
3/8	6TFE	1.98	0.28	11/16	0.11
3/8	8TFE	2.10	0.28	11/16	0.16
1/2	8TFE	2.32	0.41	7/8	0.16
1/2	12TFE	2.47	0.41	1-1/16	0.23
3/4	12TFE	2.47	0.62	1-1/16	0.23
3/4	16TFE	2.99	0.62	1-3/8	0.30
1	16TFE	3.22	0.88	1-3/8	0.30



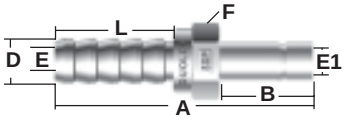
Hose Female Connector (HFC)

TruFit Part #	Hose I.D.	P NPT Size	Dimensions (in.)				
			A	D Dia.	E	F Hex	L
T2HFC2	1/8	1/8	1.11	0.15	0.08	9/16	0.40
T2HFC4	1/8	1/4	1.26	0.15	0.08	3/4	0.40
T3HFC2	3/16	1/8	1.29	0.23	0.12	9/16	0.59
T3HFC4	3/16	1/4	1.44	0.23	0.12	3/4	0.59
T4HFC2	1/4	1/8	1.47	0.30	0.19	9/16	0.79
T4HFC4	1/4	1/4	1.64	0.30	0.19	3/4	0.79
T4HFC6	1/4	3/8	1.71	0.30	0.19	7/8	0.79
T5HFC4	5/16	1/4	1.73	0.38	0.19	3/4	0.87
T5HFC6	5/16	3/8	1.82	0.38	0.19	7/8	0.87
T6HFC4	3/8	1/4	1.69	0.45	0.30	3/4	0.87
T6HFC6	3/8	3/8	1.78	0.45	0.30	7/8	0.87
T6HFC8	3/8	1/2	2.03	0.45	0.30	1-1/16	0.87
T8HFC8	1/2	1/2	2.13	0.60	0.38	1-1/16	0.94



Hose Male Connector (HMC)

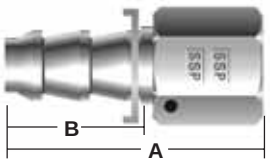
TruFit Part #	Hose I.D.	P NPT Size	Dimensions (in.)					
			A	B	D Dia.	E	F Hex	L
T2HMC2	1/8	1/8	1.00	0.38	0.15	0.08	7/16	0.41
T2HMC4	1/8	1/4	1.26	0.56	0.15	0.08	9/16	0.41
T3HMC2	3/16	1/8	1.27	0.38	0.23	0.12	7/16	0.59
T3HMC4	3/16	1/4	1.45	0.56	0.23	0.12	9/16	0.59
T4HMC2	1/4	1/8	1.47	0.38	0.30	0.19	7/16	0.78
T4HMC4	1/4	1/4	1.65	0.56	0.30	0.19	9/16	0.78
T4HMC6	1/4	3/8	1.66	0.56	0.30	0.19	11/16	0.78
T4HMC8	1/4	1/2	1.85	0.75	0.30	0.19	7/8	0.78
T5HMC2	5/16	1/8	1.55	0.38	0.38	0.19	7/16	0.88
T5HMC4	5/16	1/4	1.73	0.56	0.38	0.19	9/16	0.88
T5HMC6	5/16	3/8	1.74	0.56	0.38	0.19	11/16	0.88
T5HMC8	5/16	1/2	1.96	0.75	0.38	0.19	7/8	0.88
T6HMC4	3/8	1/4	1.73	0.56	0.45	0.30	9/16	0.88
T6HMC6	3/8	3/8	1.74	0.56	0.45	0.30	11/16	0.88
T6HMC8	3/8	1/2	1.96	0.75	0.45	0.30	7/8	0.88
T8HMC4	1/2	1/4	1.80	0.56	0.60	0.38	11/16	0.94
T8HMC6	1/2	3/8	1.81	0.56	0.60	0.38	11/16	0.94
T8HMC8	1/2	1/2	2.03	0.75	0.60	0.38	7/8	0.94
T10HMC8	5/8	1/2	2.07	0.75	0.72	0.41	1-1/16	0.94
T10HMC12	5/8	3/4	2.07	0.75	0.72	0.50	1-1/16	0.94
T12HMC8	3/4	1/2	2.14	0.75	0.90	0.63	1-1/16	1.05
T12HMC12	3/4	3/4	2.14	0.75	0.90	0.63	1-1/16	1.05
T12HMC16	3/4	1	2.43	0.94	0.90	0.63	1-3/8	1.05
T16HMC12	1	3/4	2.38	0.75	1.17	0.78	1-3/8	1.13
T16HMC16	1	1	2.57	0.94	1.17	0.78	1-3/8	1.13



Hose Barb Adapter (DHBA) (UHBA) (GHBA)

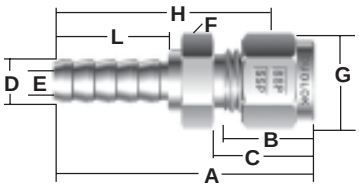
* Part #	Hose I.D.	Tube Size	Dimensions (in.)						
			A	B	D Dia.	E	E1	F Hex	L
(D)2HBA2	1/8	1/8	1.35	0.53	0.15	0.08	0.09	5/16	0.40
(D)2HBA4	1/8	1/4	1.44	0.62	0.15	0.08	0.19	3/8	0.40
(D)4HBA4	1/4	1/4	1.83	0.62	0.30	0.19	0.19	7/16	0.79
(D)4HBA6	1/4	3/8	1.90	0.70	0.30	0.19	0.28	7/16	0.79
(D)5HBA4	5/16	1/4	1.91	0.62	0.37	0.19	0.19	7/16	0.87
(D)6HBA6	3/8	3/8	1.98	0.70	0.45	0.30	0.28	9/16	0.87
(D)6HBA8	3/8	1/2	2.20	0.96	0.45	0.30	0.39	5/8	0.87
(D)8HBA6	1/2	3/8	2.05	0.70	0.60	0.38	0.28	11/16	0.94
(D)8HBA8	1/2	1/2	2.27	0.96	0.60	0.38	0.39	11/16	0.94
(D)12HBA12	3/4	3/4	2.44	1.02	0.90	0.63	0.59	1-1/6	1.05

* Please specify (D) for Duolok, (U) for Unilok, or (G) for Griplok tube adapters.



Push-On Hose JIC Swivel (HLFJ)

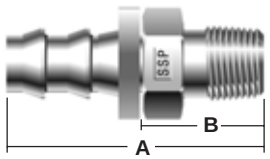
TruFit Part #	Tube O.D.	Hose I.D.	Thread	Dimensions (in.)	
				A	B
T4HLFJ4	1/4	1/4	7/16	1.56	0.81
T6HLFJ6	3/8	3/8	9/16	1.81	0.95
T8HLFJ6	1/2	3/8	3/4	1.88	0.95
T8HLFJ8	1/2	1/2	3/4	1.88	0.95
T10HLFJ10	5/8	5/8	7/8	2.58	1.50
T12HLFJ12	3/4	3/4	1-1/16	2.65	1.50
T16HLFJ16	1	1	1-5/16	2.77	1.50



Push-On Hose Tube Fitting (HLD) (HLU) (HLG)

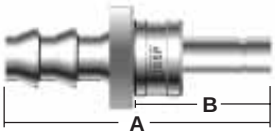
* Part #	Hose I.D.	Tube Size	Dimensions (in.)								
			A	B	C	D	E	F	G	H	L
2HL(D)2	1/8	1/8	1.46	0.92	0.61	0.15	0.08	7/16	7/16	1.17	0.40
4HL(D)2	1/4	1/8	1.85	0.93	0.61	0.30	0.09	7/16	9/16	1.56	0.79
4HL(D)4	1/4	1/4	1.94	1.14	0.70	0.30	0.19	9/16	9/16	1.63	0.79
6HL(D)4	3/8	1/4	2.01	1.15	0.70	0.45	0.30	9/16	11/16	1.70	0.87

*Please specify (D) for Duolok, (U) for Unilok, or (G) for Griplok Tube Fittings.



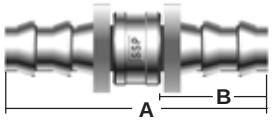
Push-On Hose Male Pipe Connector (HLMC)

TruFit Part #	NPT Size	Nominal Hose I.D.	Dimensions (in.)	
			A	B
T4HLMC4	1/4	1/4	1.68	0.92
T6HLMC4	1/4	3/8	1.80	0.93
T6HLMC6	3/8	3/8	1.80	0.93
T8HLMC8	1/2	1/2	2.19	1.14
T12HLMC12	3/4	3/4	2.81	1.15



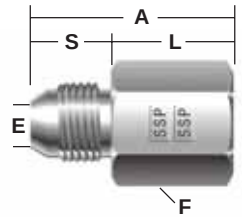
Push-On Hose Tube Adapter (HLTA)

TruFit Part #	NPT Size	Nominal Hose I.D.	Dimensions (in.)	
			A	B
T4HLTA4	1/4	1/4	1.93	1.17
T6HLTA6	3/8	3/8	2.03	1.16
T8HLTA8	1/2	1/2	2.47	1.42
T12HLTA12	3/4	3/4	3.14	1.48



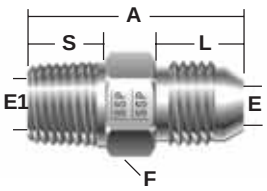
Push-On Hose Union (HLU)

TruFit Part #	Nominal Hose I.D.	Dimensions (in.)	
		A	B
T4HLU	1/4	2.07	0.55
T6HLU	3/8	2.25	0.51
T8HLU	1/2	2.61	0.51
T12HLU	3/4	3.83	0.51



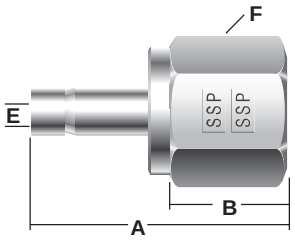
37° AN x Female NPT Conversion Adapter (AN-FC)

TruFit Part #	Tube O.D.	Thread	Female NPT Thread	Dimensions (in.)				
				A	E	S	L	F Hex
2AN2FC	1/8	5/16	1/8	1.12	0.06	0.45	0.67	9/16
3AN2FC	3/16	3/8	1/8	1.13	0.13	0.48	0.65	9/16
4AN2FC	1/4	7/16	1/8	1.19	0.17	0.55	0.64	9/16
4AN4FC	1/4	7/16	1/4	1.38	0.17	0.55	0.83	3/4
5AN2FC	5/16	1/2	1/8	1.17	0.23	0.55	0.62	9/16
5AN4FC	5/16	1/2	1/4	1.34	0.23	0.55	0.79	3/4
6AN4FC	3/8	9/16	1/4	1.40	0.30	0.56	0.84	3/4
6AN6FC	3/8	9/16	3/8	1.41	0.30	0.56	0.85	7/8
8AN6FC	1/2	3/4	3/8	1.56	0.39	0.66	0.90	7/8
8AN4FC	1/2	3/4	1/4	1.55	0.39	0.61	0.89	13/16
8AN8FC	1/2	3/4	1/2	1.75	0.39	0.66	1.09	1-1/8
10AN8FC	5/8	7/8	1/2	1.89	0.48	0.76	1.13	1-1/8
12AN12FC	3/4	1-1/16	3/4	2.06	0.61	0.86	1.05	1-3/8
12AN8FC	3/4	1-1/16	1/2	1.91	0.61	0.86	1.20	1-1/8
14AN12FC	7/8	1-3/16	3/4	2.06	0.72	0.89	1.17	1-3/8
16AN16FC	1	1-5/16	1	2.35	0.84	0.91	1.46	1-5/8
20AN20FC	1-1/4	1-5/8	1-1/4	2.49	1.08	0.96	1.53	2
24AN24FC	1-1/2	1-7/8	1-1/2	2.62	1.31	1.08	1.54	2-3/8
32AN32FC	2	2-1/2	2	2.97	1.78	1.33	1.64	2-7/8



37° AN x Male NPT Conversion Adapter (AN-MC)

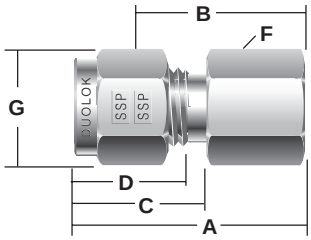
TruFit Part #	Tube O.D.	Thread	Female NPT Thread	Dimensions (in.)					
				A	E	E1	S	L	F Hex
AN2MC2	1/8	5/16	1/8	1.11	0.06	0.19	0.45	0.38	7/16
AN3MC2	3/16	3/8	1/8	1.14	0.13	0.19	0.48	0.38	7/16
AN4MC2	1/4	7/16	1/8	1.22	0.17	0.17	0.55	0.38	1/2
AN4MC4	1/4	7/16	1/4	1.42	0.17	0.17	0.55	0.56	9/16
AN4MC6	1/4	7/16	3/8	1.44	0.17	0.17	0.55	0.56	3/4
AN4MC8	1/4	7/16	1/2	1.69	0.17	0.17	0.55	0.75	7/8
AN5MC2	5/16	1/2	1/8	1.22	0.23	0.19	0.55	0.38	9/16
AN5MC4	5/16	1/2	1/4	1.42	0.23	0.23	0.55	0.56	9/16
AN6MC2	3/8	9/16	1/4	1.43	0.30	0.28	0.56	0.56	5/8
AN6MC4	3/8	9/16	1/8	1.24	0.30	0.19	0.56	0.38	5/8
AN6MC6	3/8	9/16	3/8	1.44	0.30	0.30	0.56	0.56	3/4
AN6MC8	3/8	9/16	1/2	1.69	0.30	0.30	0.56	0.75	7/8
AN8MC4	1/2	3/4	3/8	1.53	0.39	0.39	0.66	0.56	13/16
AN8MC6	1/2	3/4	1/4	1.53	0.39	0.19	0.66	0.56	13/16
AN8MC8	1/2	3/4	1/2	1.78	0.39	0.39	0.66	0.75	7/8
AN8MC12	1/2	3/4	3/4	1.85	0.39	0.39	0.66	0.75	1-1/8
AN10MC8	5/8	7/8	1/2	1.89	0.48	0.48	0.76	0.75	15/16
AN10MC12	5/8	7/8	3/4	1.95	0.48	0.48	0.76	0.75	1-1/8
AN12MC8	3/4	1-1/16	3/4	2.06	0.61	0.61	0.86	0.75	1-1/8
AN12MC12	3/4	1-1/16	1/2	2.06	0.61	0.53	0.86	0.75	1-1/8
AN12MC16	3/4	1-1/16	1	2.25	0.61	0.61	0.86	0.94	1-3/8
AN14MC12	7/8	1-3/16	3/4	2.09	0.72	0.72	0.86	0.75	1-1/4
AN16MC12	1	1-5/16	1	2.30	0.84	0.84	0.91	0.94	1-3/8
AN16MC16	1	1-5/16	3/4	2.11	0.84	0.72	0.91	0.75	1-3/8
AN20MC20	1-1/4	1-5/8	1-1/4	2.45	1.08	1.08	0.96	0.97	1-11/16
AN24MC24	1-1/2	1-7/8	1-1/2	2.68	1.31	1.31	1.08	1.00	2
AN32MC32	2	2-1/2	2	3.11	1.78	1.78	1.33	1.03	2-5/8



Female Adapter (DFA) (UFA) (GFA)

* Part #	Tube O.D.	NPT Female Pipe Size	Dimensions (in.)			
			A	E	B	F Hex
(D)2FA2	1/8	1/8	1.23	0.07	0.41	9/16
(D)2FA4	1/8	1/4	1.34	0.07	0.59	3/4
(D)3FA4	3/16	1/4	1.37	0.12	0.59	3/4
(D)4FA2	1/4	1/8	1.32	0.18	0.41	9/16
(D)4FA4	1/4	1/4	1.43	0.18	0.59	3/4
(D)4FA6	1/4	3/8	1.56	0.18	0.59	7/8
(D)4FA8	1/4	1/2	1.46	0.18	0.78	1-1/16
(D)5FA4	5/16	1/4	1.46	0.25	0.59	3/4
(D)6FA2	3/8	1/8	1.39	0.28	0.41	9/16
(D)6FA4	3/8	1/4	1.5	0.28	0.59	3/4
(D)6FA6	3/8	3/8	1.62	0.28	0.59	7/8
(D)6FA8	3/8	1/2	1.84	0.28	0.78	1-1/16
(D)8FA4	1/2	1/4	1.71	0.39	0.59	3/4
(D)8FA6	1/2	3/8	1.84	0.39	0.59	7/8
(D)8FA8	1/2	1/2	2.06	0.39	0.78	1-1/16
(D)10FA8	5/8	1/2	2.12	0.5	0.78	1-1/16
(D)12FA8	3/4	1/2	2.12	0.59	0.78	1-1/16
(D)12FA12	3/4	3/4	2.18	0.59	0.81	1-5/16
(D)12FA16	3/4	1	2.46	0.59	1	1-5/8
(D)16FA12	1	3/4	2.43	0.95	0.81	1-1/4
(D)16FA16	1	1	2.71	0.95	1	1-5/8

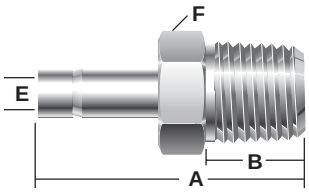
* Please specify (D) for Duolok, (U) for Unilok, or (G) for Griplok female adapters.



Female Connector (DFC) (UFC) (GFC)

*Part #	Tube O.D.	NPT Female Pipe Size	Dimensions (in.)						
			A	B Body	C	D	E	G Hex	F Hex
(D)1FC1	1/16	1/16	0.93	0.78	0.43	0.34	0.05	5/16	7/16
(D)1FC2	1/16	1/8	0.96	0.81	0.43	0.34	0.05	5/16	9/16
(D)2FC2	1/8	1/8	1.13	0.87	0.60	0.50	0.09	7/16	9/16
(D)2FC4	1/8	1/4	1.32	1.06	0.60	0.50	0.09	7/16	3/4
(D)3FC2	3/16	1/8	1.17	0.91	0.63	0.54	0.12	1/2	9/16
(D)4FC2	1/4	1/8	1.23	0.94	0.70	0.60	0.19	9/16	9/16
(D)4FC4	1/4	1/4	1.41	1.12	0.70	0.60	0.19	9/16	3/4
(D)4FC6	1/4	3/8	1.48	1.19	0.70	0.60	0.19	9/16	7/8
(D)4FC8	1/4	1/2	1.67	1.38	0.70	0.60	0.19	9/16	1-1/16
(D)5FC2	5/16	1/8	1.26	0.97	0.73	0.64	0.25	5/8	9/16
(D)5FC4	5/16	1/4	1.45	1.16	0.73	0.64	0.25	5/8	3/4
(D)6FC2	3/8	1/8	1.29	1.00	0.76	0.66	0.28	11/16	5/8
(D)6FC4	3/8	1/4	1.48	1.19	0.76	0.66	0.28	11/16	3/4
(D)6FC6	3/8	3/8	1.54	1.25	0.76	0.66	0.28	11/16	7/8
(D)6FC8	3/8	1/2	1.73	1.44	0.76	0.66	0.28	11/16	1-1/16
(D)6FC12	3/8	3/4	1.88	1.59	0.76	0.66	0.28	11/16	1-5/16
(D)8FC4	1/2	1/4	1.59	1.19	0.86	0.90	0.41	7/8	13/16
(D)8FC6	1/2	3/8	1.65	1.25	0.86	0.90	0.41	7/8	7/8
(D)8FC8	1/2	1/2	1.84	1.44	0.86	0.90	0.41	7/8	1-1/16
(D)8FC12	1/2	3/4	1.90	1.50	0.86	0.90	0.41	7/8	1-5/16
(D)10FC6	5/8	3/8	1.65	1.25	0.86	0.96	0.50	1	15/16
(D)10FC8	5/8	1/2	1.84	1.44	0.86	0.96	0.50	1	1-1/16
(D)12FC8	3/4	1/2	1.84	1.44	0.86	0.96	0.62	1-1/8	1-1/16
(D)12FC12	3/4	3/4	1.90	1.50	0.86	0.96	0.62	1-1/8	1-5/16
(D)14FC12	7/8	3/4	1.96	1.56	0.86	1.02	0.72	1-1/4	1-5/16
(D)16FC12	1	3/4	2.10	1.62	1.04	1.23	0.88	1-1/2	1-3/8
(D)16FC16	1	1	2.45	1.97	1.04	1.23	0.88	1-1/2	1-5/8
(D)20FC20	1-1/4	1-1/4	2.94	2.07	1.53	1.62	1.09	1-7/8	2-1/8
(D)24FC24	1-1/2	1-1/2	3.28	2.21	1.78	1.97	1.34	1-1/4	2-3/8
(D)32FC32	2	2	4.00	2.53	2.47	2.66	1.81	3	2-7/8

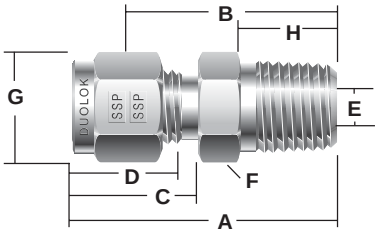
* Please specify (D) for Duolok, (U) for Unilok, or (G) for Griplok Female Connectors



Male Adapter (DMA) (UMA) (GMA)

* Part #	Tube O.D.	NPT Male Pipe Size	Dimensions (in.)			
			A	E	B	F Hex
(D)2MA2	1/8	1/8	1.12	0.04	0.38	7/16
(D)2MA4	1/8	1/4	1.31	0.05	0.56	9/16
(D)3MA2	3/16	1/8	1.15	0.08	0.38	7/16
(D)3MA4	3/16	1/4	1.34	0.10	0.56	9/16
(D)4MA2	1/4	1/8	1.21	0.12	0.38	7/16
(D)4MA4	1/4	1/4	1.40	0.13	0.56	9/16
(D)4MA6	1/4	3/8	1.43	0.14	0.56	11/16
(D)4MA8	1/4	1/2	1.65	0.14	0.75	7/8
(D)5MA2	5/16	1/8	1.25	0.18	0.38	7/16
(D)5MA4	5/16	1/4	1.46	0.18	0.56	9/16
(D)6MA2	3/8	1/8	1.31	0.19	0.38	7/16
(D)6MA4	3/8	1/4	1.50	0.24	0.56	9/16
(D)6MA6	3/8	3/8	1.50	0.24	0.56	11/16
(D)6MA8	3/8	1/2	1.71	0.24	0.75	7/8
(D)8MA4	1/2	1/4	1.71	0.28	0.56	9/16
(D)8MA6	1/2	3/8	1.75	0.33	0.56	11/16
(D)8MA8	1/2	1/2	1.93	0.33	0.75	7/8
(D)10MA8	5/8	1/2	2.00	0.42	0.75	7/8
(D)12MA8	3/4	1/2	2.00	0.47	0.75	7/8
(D)12MA12	3/4	3/4	2.03	0.51	0.75	1-1/16
(D)16MA12	1	3/4	2.28	0.62	0.75	1-1/16
(D)16MA16	1	1	2.56	0.75	0.94	1-3/8

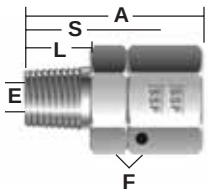
* Please specify (D) for Duolok, (U) for Unilok or (G) for Griplok Male Adapters.



Male Connector (DMC) (UMC) (GMC)

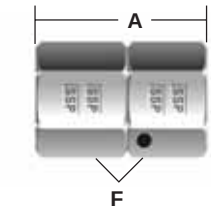
* Part #	Tube O.D.	NPT Male Pipe Size	Dimensions (in.)							
			A	B	C	D	E	H	G Hex	F Hex
(D)1MC1	1/16	1/16	0.94	0.79	0.43	0.34	0.05	0.38	5/16	5/16
(D)1MC2	1/16	1/8	1.03	0.88	0.43	0.34	0.05	0.38	5/16	7/16
(D)1MC4	1/16	1/4	1.22	1.07	0.43	0.34	0.05	0.56	5/16	9/16
(D)2MC1	1/8	1/16	1.17	0.91	0.60	0.50	0.09	0.38	7/16	7/16
(D)2MC2	1/8	1/8	1.20	0.94	0.60	0.50	0.09	0.38	7/16	7/16
(D)2MC4	1/8	1/4	1.40	1.14	0.60	0.50	0.09	0.56	7/16	9/16
(D)2MC6	1/8	3/8	1.41	1.15	0.60	0.50	0.09	0.56	7/16	11/16
(D)2MC8	1/8	1/2	1.66	1.40	0.60	0.50	0.09	0.75	7/16	7/8
(D)3MC2	3/16	1/8	1.23	0.97	0.63	0.54	0.12	0.38	1/2	7/16
(D)3MC4	3/16	1/4	1.43	1.17	0.63	0.54	0.12	0.56	1/2	9/16
(D)4MC1	1/4	1/16	1.29	1.00	0.70	0.60	0.11	0.38	9/16	1/2
(D)4MC2	1/4	1/8	1.29	1.00	0.70	0.60	0.17	0.38	9/16	1/2
(D)4MC4	1/4	1/4	1.49	1.20	0.70	0.60	0.19	0.56	9/16	9/16
(D)4MC6	1/4	3/8	1.51	1.22	0.70	0.60	0.19	0.56	9/16	11/16
(D)4MC8	1/4	1/2	1.76	1.47	0.70	0.60	0.19	0.75	9/16	7/8
(D)4MC12	1/4	3/4	1.82	1.53	0.70	0.60	0.19	0.75	9/16	1-1/16
(D)5MC2	5/16	1/8	1.34	1.05	0.73	0.64	0.19	0.38	5/8	9/16
(D)5MC4	5/16	1/4	1.52	1.23	0.73	0.64	0.25	0.56	5/8	9/16
(D)5MC6	5/16	3/8	1.54	1.25	0.73	0.64	0.25	0.56	5/8	11/16
(D)6MC2	3/8	1/8	1.39	1.10	0.76	0.66	0.19	0.38	11/16	5/8
(D)6MC4	3/8	1/4	1.57	1.28	0.76	0.66	0.28	0.56	11/16	5/8
(D)6MC6	3/8	3/8	1.57	1.28	0.76	0.66	0.28	0.56	11/16	11/16
(D)6MC8	3/8	1/2	1.82	1.53	0.76	0.66	0.28	0.75	11/16	7/8
(D)6MC12	3/8	3/4	1.88	1.59	0.76	0.66	0.28	0.75	11/16	1-1/16
(D)8MC2	1/2	1/8	1.53	1.13	0.86	0.90	0.19	0.38	7/8	13/16
(D)8MC4	1/2	1/4	1.71	1.31	0.86	0.90	0.28	0.56	7/8	13/16
(D)8MC6	1/2	3/8	1.71	1.31	0.86	0.90	0.38	0.56	7/8	13/16
(D)8MC8	1/2	1/2	1.93	1.53	0.86	0.90	0.41	0.75	7/8	7/8
(D)8MC12	1/2	3/4	1.99	1.59	0.86	0.90	0.41	0.75	7/8	1-1/16
(D)8MC16	1/2	1	2.25	1.85	0.86	0.90	0.41	0.94	7/8	1-3/8
(D)10MC6	5/8	3/8	1.74	1.34	0.86	0.96	0.38	0.56	1	15/16
(D)10MC8	5/8	1/2	1.93	1.53	0.86	0.96	0.47	0.75	1	15/16
(D)10MC12	5/8	3/4	1.99	1.59	0.86	0.96	0.50	0.75	1	1-1/16
(D)12MC8	3/4	1/2	1.99	1.59	0.86	0.96	0.47	0.75	1-1/8	1-1/16
(D)12MC12	3/4	3/4	1.99	1.59	0.86	0.96	0.62	0.75	1-1/8	1-1/16
(D)12MC16	3/4	1	2.25	1.85	0.86	0.96	0.62	0.94	1-1/8	1-3/8
(D)14MC12	7/8	3/4	1.99	1.59	0.86	1.02	0.62	0.75	1-1/4	1-3/16
(D)14MC16	7/8	1	2.25	1.85	0.86	1.02	0.72	0.94	1-1/4	1-3/8
(D)16MC8	1	1/2	2.26	1.78	1.04	1.23	0.47	0.75	1-1/2	1-3/8
(D)16MC12	1	3/4	2.26	1.78	1.04	1.23	0.62	0.75	1-1/2	1-3/8
(D)16MC16	1	1	2.45	1.97	1.04	1.23	0.88	0.94	1-1/2	1-3/8
(D)20MC16	1-1/4	1	3.04	2.17	1.53	1.62	0.88	0.94	1-7/8	1-3/4
(D)20MC20	1-1/4	1-1/4	3.04	2.17	1.53	1.62	1.09	0.94	1-7/8	1-3/4
(D)24MC24	1-1/2	1-1/2	3.50	2.43	1.78	1.97	1.34	1.03	2-1/4	2-1/8
(D)32MC32	2	2	4.47	3.00	2.47	2.66	1.81	1.06	3	2-3/4

* Please specify (D) for Duolok, (U) for Unilok or (G) for Griplok male connectors.



Pipe Swivel Male Connector (PS-C)

TruFit Part #	Pipe Size	NPSM	Pipe Thread	Dimensions (in.)					SS Working Pressure (psig)
				A	E	S	L	F Hex	
4PS4C	1/4	1/4	1/4	1.19	0.13	1.00	0.56	11/16	9,200
6PS6C	3/8	3/8	3/8	1.62	0.22	1.39	0.56	7/8	9,200
8PS8C	1/2	1/2	1/2	1.74	0.33	1.47	0.75	1	9,200
12PS12C	3/4	3/4	3/4	2.25	0.65	1.84	0.75	1-1/4	6,000
16PS16C	1	1	1	2.49	0.83	2.06	0.94	1-1/2	6,000
20PS20C	1-1/4	1-1/4	1-1/4	2.64	1.12	2.18	0.97	1-7/8	6,000
24PS24C	1-1/2	1-1/2	1-1/2	2.81	1.36	2.31	1.00	2-1/8	4,000
32PS32C	2	2	2	2.96	1.79	2.46	1.03	2-5/8	4,000



Pipe Swivel Female Connector (PS-FC)

TruFit Part #	Pipe Size	NPSM	Pipe Thread	Dimensions (in.)		SS Working Pressure (psig)
				A	F Hex	
4PS4FC	1/4	1/4	1/4	1.13	11/16	6,000
6PS6FC	3/8	3/8	3/8	1.62	7/8	4,800
8PS8FC	1/2	1/2	1/2	1.67	1	4,200
12PS12FC	3/4	3/4	3/4	2.10	1-1/4	2,700
16PS16FC	1	1	1	2.49	1-1/2	2,400
20PS20FC	1-1/4	1-1/4	1-1/4	2.52	1-7/8	1,950
24PS24FC	1-1/2	1-1/2	1-1/2	2.56	2-1/8	1,500
32PS32FC	2	2	2	2.68	2-5/8	1,350

Features

A number of different factors can effect hose service life and the ability of a system to function properly. The following are factors that should be considered in making a hose selection, according to the SAE set of guidelines. For applications outside of the specification of SAE J517, SAE J514, or other relevant design standards, performance of hose assemblies should be determined by appropriate testing.

Factors

Pressure

System Pressure- excessive pressure can accelerate hose assembly failure. For maximum service life hose selection should be based on a system pressure including surges, that is less than the hose maximum working pressure.

Suction- in suction applications it is important to select hose to withstand both the negative and positive pressures on the hose.

External Pressure- in certain applications (such as underwater or in autoclave) external pressures need to be considered.

Material Compatibility

Permeation- certain materials are more permeable than others and may allow seepage of the fluid through the hose. Consider permeation especially with gaseous fluids.

Temperature- exceeding hose temperature ratings may significantly reduce hose life.

Concentration and Duration of Exposure- it is also important to consider how long the hose will be exposed to the fluid and the concentration of the fluid.

Static Electric Discharge- fluid passing through a hose can cause static electric discharge, if this potential exists, select a hose with sufficient conductivity to carry the charge to the ground.

Environment

Conditions- some environmental conditions can cause hose and fitting degradation, these include but are not limited to ultraviolet light, salt water, air pollutants, temperature, ozone, chemicals, electricity and abrasion.

Hose Movement

Vibration- can reduce hose service life. Clamps or other means can be used reduce the effects of vibration.

Bending- bend hose only in one plane to avoid twisting. If hose follows a complex bend, couple it into separate segments, or clamp it into segments that flex in only one plane.

Minimum Bend Radius- routing at less than minimum bend radius may reduce hose life. Sharp bending at the hose/ fitting juncture may result in leaking, hose rupturing, or the assembly blowing apart.

Length

When establishing hose lengths use the following practices:

Motion Absorption- provide adequate hose length to distribute movement and prevent bends smaller than the minimum bend radius.

Hose and Machine Tolerances- allow for changes in length due to machine motion and tolerances.

Pressure Changes- hose length changes with pressure changes. Do not cross or clamp together high and low pressure hoses. The difference in length changes could wear the hose covers.

Routing Hose

When routing hose it is important to avoid the following:

Tensile Loads

Side Loads

Flattening

Thread Damage

Kinking

Damage to sealing surfaces

Abrasion

Twisting

Assembly Inspection

A visual inspection is a good way to help maintain your hose applications. Refer to the following checklist for conditions that may warrant correction or replacement of the hose assembly.

- ☐ Leaks at Hose Fitting or in Hose
- ☐ Damaged, Cut or Abraded Cover
- ☐ Exposed Reinforcement
- ☐ Kinked, Crushed, Flattened, or Twisted Hose
- ☐ Hard, Stiff, Heat Cracked or Charred Hose
- ☐ Blistered, Soft, Degraded or Loose Cover
- ☐ Cracked, Damaged or Badly Corroded Fittings
- ☐ Fitting Slippage on Hose
- ☐ Signs of Significant Deterioration
- ☐ Leaking Ports
- ☐ Damaged or Missing Hose Clamps, Guards or Shields
- ☐ Excessive Dirt and Debris around Hose
- ☐ System Fluid: Level, Type, Contamination, Condition, and Air Entrapment

Storage

Store hose and hose assemblies in a cool, dark, dry area with the ends capped. Uphold a system of age control to ensure that hose is used before its shelf life has expired. Maintain that system by using hose in a first-in, first out basis based on the hose manufac-turing date.

Packaging

Each TruFit hose assembly is individually bagged and then boxed. Longer hoses are coiled, then bagged and boxed.

Cleanliness

Hose components vary in their level of cleanliness. Make sure that the hose assembly selected meets the cleanliness standards for the application in which it is used.

Safety

To help ensure the safe and reliable performance of hose assemblies, complete system design must be considered prior to the installation of the assem-bly. Determining the design compatibility of materials, media, flows, temperatures and pressures; as well as implement-ing proper installation, opera-tion and maintenance of the system are the responsibility of the systems' owners, designers and users.

Below are some potential conse-quences of improper selection and use of hose that can lead to per-sonal injury and property damage. This list is not inclusive.

- ☐ Explosion or burning of the fluid
- ☐ Fittings thrown off at high speeds
- ☐ Sparking and/or explo sion caused by static electricity buildup or other sources of electricity
- ☐ Hose whipping
- ☐ High velocity fluid discharge
- ☐ Contact with hot, cold, or toxic fluids
- ☐ High pressure fluid expulsion
- ☐ Injuries from inhalation, ingestion or exposure to hazardous fluids

TruFit®Hoses and Fittings

LIFETIME LIMITED WARRANTY

SSP guarantees all TruFit hose and fittings to be free from defects in materials and workmanship. Additionally, SSP guarantees TruFit hose and 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.

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.

WARNING

IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE PERSONAL INJURY AND PROPERTY DAMAGE.

It is the sole responsibility of the system designers and users to properly select and use products for their specific applications. This document has been printed for users with technical expertise as a reference for further investigation to determine specific product needs relative to design requirements.

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