

# Truelok<sup>®</sup>

[THE MEASURABLE DIFFERENCE]



FACE SEAL & MINI WELD FITTINGS

## TECHNICAL INFORMATION

### MATERIAL SPECIFICATION

Standard fittings are manufactured with 316L stainless steel, which is the industry preferred material for high purity fittings due to its corrosion and oxidation resistant properties. Other materials such as VAR, AOD/VAR, VOD/VAR or VIM/VAR and various alloys are available per customer requirements for their specific applications.

### MATERIAL COMPOSITION

Chemistry of a few basic elements for comparison (Avg. Wt. %)

Element	SS316L	SS316L VIM	SS316L VIM/VAR
Carbon	0.03	0.013	0.022
Sulphur	0.03	0.004	0.004
Manganese	2.00	1.520	1.290
Chromium	16.00 – 18.00	16.780	17.600
Nickel	10.00 – 14.00	10.250	13.180

### PRESSURE RATING (SS316L)

Working pressure rating at room temperature

Size	Wall Thickness	Pressure Rating	
		psig	bar
1/8"	0.028	8500	590
1/4"	0.035	5200	359
3/8"	0.035	3350	231
1/2"	0.049	3750	259
3/4"	0.065	3350	231
3/4"	0.049	2400	165
1"	0.065	2400	165

### TEMPERATURE RATING

Products	Material	F	C
Truelok® Face Seal & Mini Weld Fittings	SS316L	1000	538
	SS316L VAR or VIM/VAR	1000	538
Truelok® Gaskets	SS316	1000	538
	Nickel	600	316

### SURFACE FINISH

Truelok<sup>®</sup> Face Seal & Mini Weld Fittings are offered in the following surface finishes:

Finish	Electropolished	Ra Value (Max)	Ra Value (Avg.)
Standard	No	15	10
EP	Yes	10	5

### ELECTROPOLISH

Components are electropolished to provide oxide layer on the metal surfaces. This process prevents absorption of gases and moisture on the surface to a greater degree and removes any contamination from the surface. It also helps reduce friction and wear of the component. Moreover, it reduces build-up of products on the surface, reduces any bacterial growth, and provides an improved reflectivity.

Following is the surface analysis report of Truelok<sup>®</sup>Electropolished component:

Cr/Fe	CrOX/FeOX	Test Method
3.2	5.2	XPS Sematech Standard 90120403B

Acceptable Ratio for semiconductor Cr/Fe is generally 1.00 and above.

### SILVER PLATING

Female Threads of Nuts and Gaskets are silver plated to reduce the risk of galling and to improve remakability of the fitting. It also improves torque for the fitting assembly.

### PACKAGING

Upon thorough inspection, each component is double bagged and sealed to ensure component cleanliness and to protect it from any possible contamination from the environment.

## ASSEMBLY INSTRUCTIONS

Truelok® glands provide high purity of metal to metal seal, giving leak-tight service from vacuum to positive pressures.

The seal on an assembly is made when the gasket is compressed by two beads during the engagement of a male nut or body hex and a female nut.

Visual Test and Leak test are performed through two test ports in opposite locations from the female nut.



All Truelok® Fittings need to be handled with great care until assembly and makeup. Protect the components so that the sealing surfaces are not scratched, damaged or contaminated in any way during handling and assembly.

Always employ proper cleanroom protocol for make up and assembly of high-purity fittings and applications.

### ORDERING INFORMATION:

The part number of a fitting in this catalog describes a fully assembled fitting. The letters in the beginning of the Part Number refer to the Type of Fitting. The first number describes the size of first connection, and the next number describes the size of second connection. The next set of numbers, if mentioned, describes the length of fitting. The suffix indicates the type of finish, i.e. standard non-EP finish or EP finish.

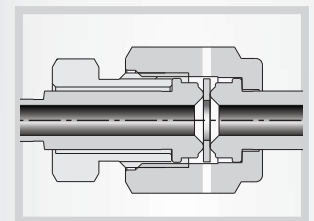
Type of Fitting	Connection 1 Size	Connection 2 Size	Length	Finish Type
G-S = Short Gland	2 = 1/8"	2 = 1/8"	1.700 = 1.700"	No Designation = Standard Finish
L = Elbow etc.	4 = 1/4"	4 = 1/4"	etc.	E = Electropolished
	6 = 3/8"	6 = 3/8"		
	8 = 1/2"	8 = 1/2"		

### EXAMPLE ORDERING NUMBER

Ordering Number	G-S-6-0.620-E	RU-4-2	L-8
Description	Short Gland, 3/8" and 0.620" length with Electropolished finish	Reducing Union, 1/4" Tube O.D. and 1/8" Tube O.D.	Elbow, 1/2" Tube O.D.

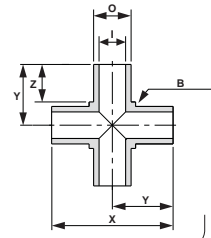
### MAKE UP INSTRUCTIONS:

- Tighten the female nut to the male nut/body finger tight.
- Tighten the female nut 1/8 turn past finger tight.
- Always torque the female nut while keeping male nut/body stationary.
- Face Seal Connections are remakable. Use a new gasket for each remake.



CROSS

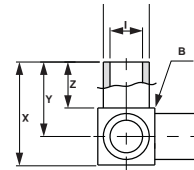
C



O Tube OD	Truelok® Ordering Number	B Body	I Tube ID	X	Y	Z
inch		inch	inch	inch	inch	inch
1/8	<b>C-2</b>	5/16	0.060	0.820	0.410	0.250
1/4	<b>C-4</b>	5/16	0.180	0.820	0.410	0.250
3/8	<b>C-6</b>	7/16	0.300	0.940	0.470	0.250
1/2	<b>C-8</b>	9/16	0.400	1.060	0.530	0.250

TRIBOW

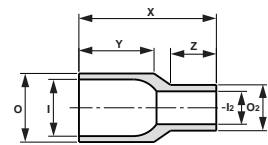
TB



O Tube OD	Truelok® Ordering Number	B Body	I Tube ID	X	Y	Z
inch		inch	inch	inch	inch	inch
1/8	<b>TB-2</b>	5/16	0.060	0.560	0.410	0.250
1/4	<b>TB-4</b>	5/16	0.180	0.560	0.410	0.250
3/8	<b>TB-6</b>	7/16	0.300	0.690	0.470	0.250
1/2	<b>TB-8</b>	9/16	0.400	0.810	0.530	0.250

REDUCING UNION

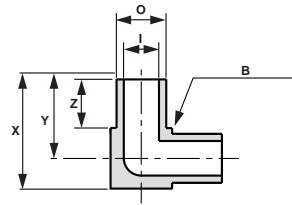
RU



O Tube OD	Truelok® Ordering Number	I Tube ID	I2 Tube OD	O2 Tube OD	X	Y	Z
inch		inch	inch	inch	inch	inch	inch
1/4	<b>RU-4-2</b>	0.180	0.060	1/8	0.750	0.410	0.250
3/8	<b>RU-6-4</b>	0.300	0.180	1/4	0.750	0.410	0.250
1/2	<b>RU-8-4</b>	0.400	0.180	1/4	0.750	0.410	0.250
1/2	<b>RU-8-6</b>	0.400	0.300	3/8	0.750	0.410	0.250

ELBOW 90°

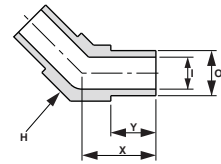
L



O Tube OD	Truelok® Ordering Number	B Body	I Tube ID	X	Y	Z
inch		inch	inch	inch	inch	inch
1/8	L-2	5/16	0.060	0.560	0.410	0.250
1/4	L-4	5/16	0.180	0.560	0.410	0.250
3/8	L-6	7/16	0.300	0.690	0.470	0.250
1/2	L-8	9/16	0.400	0.810	0.530	0.250

ELBOW 45°

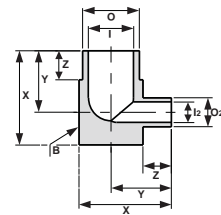
L-45



O Tube OD	Truelok® Ordering Number	H	I Tube ID	X	Y
inch		inch	inch	inch	inch
1/4	L-4-45	5/16	0.18	0.41	0.25
3/8	L-6-45	7/16	0.30	0.47	0.25
1/2	L-8-45	9/16	0.40	0.53	0.25

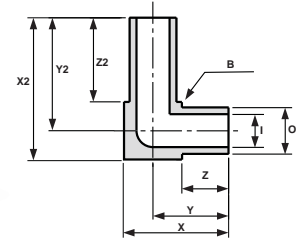
REDUCING ELBOW

L-R



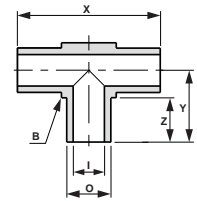
O Tube OD	Truelok® Ordering Number	B Body	I Tube ID	I2 Tube ID	O2 Tube OD	X	Y	Z
inch		inch	inch	inch	inch	inch	inch	inch
3/8	L-R-6-4	7/16	0.300	0.180	1/4	0.690	0.470	0.250
1/2	L-R-8-4	9/16	0.400	0.180	1/4	0.810	0.530	0.250
1/2	L-R-8-6	9/16	0.400	0.300	3/8	0.810	0.530	0.250

**EXTENDED LEG ELBOW  
L-X**



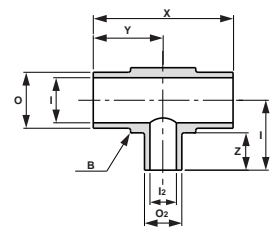
O Tube OD	Truelok <sup>®</sup> Ordering Number	B Body	I Tube ID	X	X2	Y	Y2	Z	Z2
inch		inch	inch	inch	inch	inch	inch	inch	inch
1/4	<b>L-4-X-1</b>	5/16	0.180	0.560	0.810	0.410	0.660	0.250	0.500

**TEE  
T**



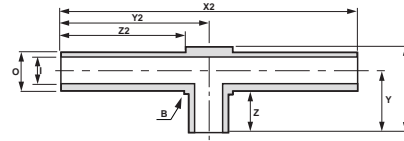
O Tube OD	Truelok <sup>®</sup> Ordering Number	B Body	I Tube ID	X	Y	Z
inch		inch	inch	inch	inch	inch
1/8	<b>T-2</b>	5/16	0.060	0.820	0.410	0.250
1/4	<b>T-4</b>	5/16	0.180	0.820	0.410	0.250
3/8	<b>T-6</b>	7/16	0.300	0.940	0.470	0.250
1/2	<b>T-8</b>	9/16	0.400	1.060	0.530	0.250

**REDUCING TEE  
T-R**



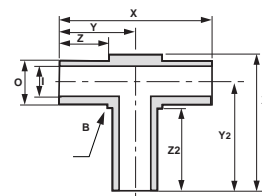
O Tube OD	Truelok <sup>®</sup> Ordering Number	B Body	I Tube ID	I2 Tube ID	O2 Tube OD	X	Y	Z
inch		inch	inch	inch	inch	inch	inch	inch
3/8	<b>T-R-6-4</b>	7/16	0.300	0.180	1/4	0.940	0.470	0.250
1/2	<b>T-R-8-4</b>	9/16	0.400	0.180	1/4	1.060	0.530	0.250
1/2	<b>T-R-8-6</b>	9/16	0.400	0.300	3/8	1.060	0.530	0.250

EXTENDED BRANCH  
LEG TEE  
T-X1



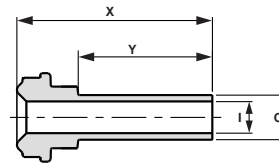
O Tube OD	Truelok® Ordering Number	B Body	I Tube ID	X1	X2	Y	Y2	Z	Z2
inch		inch	inch	inch	inch	inch	inch	inch	inch
1/4	T-4-X1	5/16	0.180	0.560	1.960	0.410	0.980	0.250	0.830

EXTENDED RUN LEG TEE  
T-X2



O Tube OD	Truelok® Ordering Number	B Body	I Tube ID	X	X2	Y	Y2	Z	Z2
inch		inch	inch	inch	inch	inch	inch	inch	inch
1/4	T-4-X2	5/16	0.180	0.820	0.760	0.410	0.610	0.250	0.450

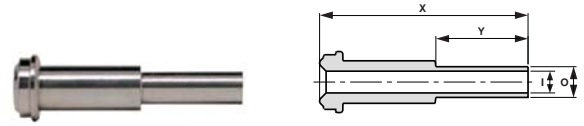
SHORT GLAND  
G-S



Face Seal Size	O Tube OD	Truelok® Ordering Number	I Tube ID	X	Y
inch	inch		inch	inch	inch
1/8	1/8	G-S-2-1.080	0.060	1.080	0.750
1/4	1/4	G-S-4-0.600	0.180	0.600	0.250
1/4	1/4	G-S-4-0.720	0.180	0.720	0.380
1/4	1/4	G-S-4-1.100	0.180	1.100	0.750
1/2	1/4	G-S-4-1.120	0.180	1.120	0.750
3/8	3/8	G-S-6-0.620	0.300	0.620	0.250
3/8	3/8	G-S-6-1.120	0.300	1.120	0.750
1/2	1/2	G-S-8-0.620	0.400	0.620	0.250
1/2	1/2	G-S-8-0.740	0.400	0.740	0.380
1/2	1/2	G-S-8-1.120	0.400	1.120	0.380

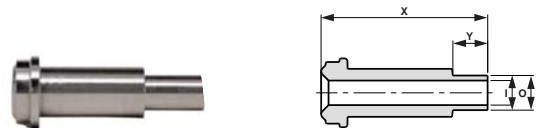


LONG GLAND  
G-L



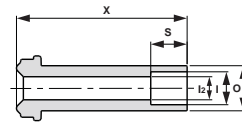
Face Seal Size	O Tube OD	Truelok® Ordering Number	I Tube ID	X	Y
inch	inch		inch	inch	inch
1/8	1/8	G-L-2-1.420	0.060	1.420	0.750
1/4	1/4	G-L-4-1.200	0.180	1.200	0.250
1/4	1/4	G-L-4-1.310	0.180	1.310	0.360
1/4	1/4	G-L-4-1.320	0.180	1.320	0.380
1/4	1/4	G-L-4-1.700	0.180	1.700	0.750
1/2	1/4	G-L-4-1.800	0.180	1.800	0.750
3/8	3/8	G-L-6-1.290	0.300	1.290	0.250
3/8	3/8	G-L-6-1.790	0.300	1.790	0.750
1/2	1/2	G-L-8-1.290	0.400	1.290	0.250
1/2	1/2	G-L-8-1.410	0.400	1.410	0.380
1/2	1/2	G-L-8-1.790	0.400	1.790	0.750
3/4	3/4	G-L-12-2.030	0.650	2.030	0.750
1	1	G-L-16-2.320	0.870	2.320	0.750

MALE GLAND  
G-M



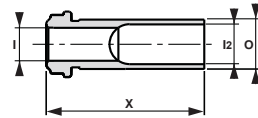
Face Seal Size	O Tube OD	Truelok® Ordering Number	I Tube ID	X	Y
inch	inch		inch	inch	inch
1/8	1/8	G-M-2-2-0.700	0.060	0.700	0.280
1/4	1/8	G-M-4-2-1.310	0.060	1.310	0.280
1/4	1/4	G-M-4-4-1.310	0.120	1.310	0.410
1/2	1/4	G-M-8-4-1.500	0.120	1.500	0.410
1/2	3/8	G-M-8-6-1.500	0.280	1.500	0.410
1/2	1/2	G-M-8-8-1.500	0.400	1.500	0.500

**SOCKET WELD GLAND**  
**G-SW**



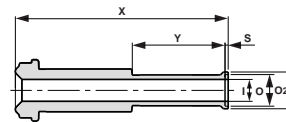
Face Seal Size	O	Truelok® Ordering Number	I	I2	S	X
inch	inch		inch	inch	inch	inch
1/8	0.200	<b>G-SW-2-0.700</b>	0.125	0.090	0.100	0.700
1/4	0.350	<b>G-SW-4-0.500</b>	0.250	0.180	0.280	0.500
1/4	0.350	<b>G-SW-4-0.750</b>	0.250	0.180	0.280	0.750
1/4	0.350	<b>G-SW-4-1.310</b>	0.250	0.180	0.280	1.310
1/2	0.600	<b>G-SW-6-1.500</b>	0.375	0.280	0.300	1.500
1/2	0.600	<b>G-SW-8-1.500</b>	0.500	0.400	0.380	1.500

**HIGH FLOW GLAND**  
**G-HF**



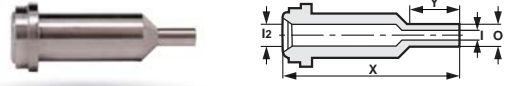
Face Seal Size	O	Truelok® Ordering Number	I	I2	X
inch	inch		inch	inch	inch
1/4	0.375	<b>G-HF-6-0.600</b>	0.250	0.300	0.600
1/4	0.375	<b>G-HF-6-1.190</b>	0.250	0.300	1.190
1/4	0.375	<b>G-HF-6-1.310</b>	0.250	0.300	1.310

**AUTOMATIC GLAND**  
**G-ATW**



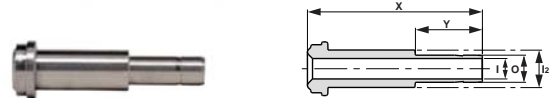
Face Seal Size	O	Truelok® Ordering Number	I	O2	S	X	Y
inch	inch		inch	inch	inch	inch	inch
1/4	1/4	<b>G-ATW-4-1.120</b>	0.180	0.290	0.020	1.120	0.750
1/4	1/4	<b>G-ATW-4-1.720</b>	0.180	0.290	0.020	1.720	0.750
1/4	1/4	<b>G-ATW-4-1.820</b>	0.180	0.290	0.020	1.820	0.750
3/8	3/8	<b>G-ATW-6-1.150</b>	0.300	0.410	0.030	1.150	0.750
3/8	3/8	<b>G-ATW-6-1.820</b>	0.300	0.410	0.030	1.820	0.750
1/2	1/2	<b>G-ATW-8-1.160</b>	0.400	0.550	0.040	1.160	0.750
1/2	1/2	<b>G-ATW-8-1.830</b>	0.400	0.550	0.040	1.830	0.750

**REDUCING GLAND  
G-R**



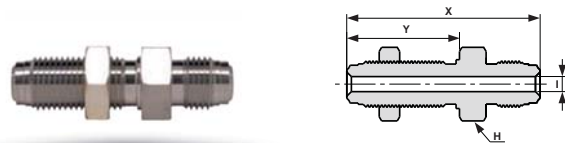
Face Seal Size	O Tube OD	Truelok® Ordering Number	I Tube ID	I2 Tube ID	X	Y
inch	inch		inch	inch	inch	inch
1/4	1/8	<b>G-R-4-2-1.310</b>	0.090	0.180	1.310	0.250
3/8	1/4	<b>G-R-6-4-1.500</b>	0.180	0.300	1.500	0.250
1/2	1/4	<b>G-R-8-4-1.500</b>	0.180	0.400	1.500	0.250
1/2	3/8	<b>G-R-8-6-1.500</b>	0.300	0.400	1.500	0.250

**TUBE ADAPTER GLAND  
G-L-AD**



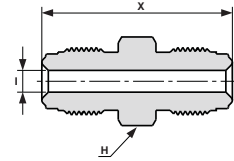
Face Seal Size	O Tube OD	Truelok® Ordering Number	I Tube ID	I2 Tube ID	X	Y
inch	inch		inch	inch	inch	inch
1/4	1/4	<b>G-L-4-1.620-AD</b>	0.170	0.350	1.620	0.640

**BULKHEAD UNION  
BHU**



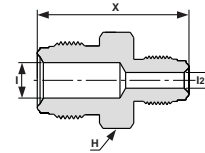
Face Seal Size	Truelok® Ordering Number	H Hex Flat	I Tube ID	X	Y
inch		inch	inch	inch	inch
1/4	<b>BHU-4-1.820</b>	3/4	0.180	1.820	0.990
1/4	<b>BHU-4-2.230</b>	3/4	0.180	2.230	1.300
1/2	<b>BHU-8-2.140</b>	11/16	0.400	2.140	1.110
1/2	<b>BHU-8-2.570</b>	11/16	0.400	2.570	1.480

DOUBLE MALE UNION  
DMU



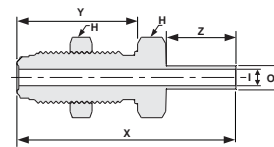
Face Seal Size	Truelok® Ordering Number	H Hex Flat	I Tube ID	X
inch		inch	inch	inch
1/8	DMU-2-1.130	3/8	0.09	1.130
1/4	DMU-4-1.550	5/8	0.180	1.550
1/2	DMU-8-1.840	15/16	0.400	1.840

DOUBLE MALE REDUCING UNION  
DMU-R



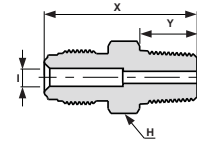
Face Seal Size	Truelok® Ordering Number	H Hex Flat	I Tube ID	I2 Tube ID	X
inch		inch	inch	inch	inch
1/4-1/8	DMU-R-4-2-1.370	5/8	0.180	0.090	1.370
1/2-1/4	DMU-R-8-4-1.710	15/16	0.400	0.180	1.710

TUBE WELD BULKHEAD CONNECTOR  
BHC-TW



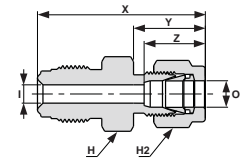
Face Seal Size	O Tube OD	Truelok® Ordering Number	H Hex Flat	I Tube ID	X	Y	Z
inch	inch		inch	inch	inch	inch	inch
1/4	1/4	BHC-TW-4-1.950	3/4	0.180	1.950	0.990	0.750
1/4	1/4	BHC-TW-4-2.360	3/4	0.180	2.360	1.300	0.750

**MALE CONNECTOR  
MC-NPT**



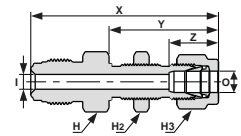
Face Seal Size	Truelok® Ordering Number	H Hex Flat	I Tube ID	N NPT	X	Y
inch		inch	inch	inch	inch	inch
1/4	<b>MC-NPT-4-2-1.310</b>	5/8	0.180	1/8	1.310	0.380
1/4	<b>MC-NPT-4-4-1.490</b>	5/8	0.180	1/4	1.490	0.560
1/2	<b>MC-NPT-8-6-1.650</b>	15/16	0.380	3/8	1.650	0.560
1/2	<b>MC-NPT-8-8-1.840</b>	15/16	0.400	1/2	1.840	0.750

**TUBE FITTING CONNECTOR  
TFC**



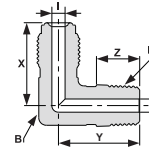
Face Seal Size	O Tube OD	Truelok® Ordering Number	H Hex Flat	H2 Hex Flat	I Tube ID	X	Y	Z
inch	inch		inch	inch	inch	inch	inch	inch
1/4	1/8	<b>TFC-4-2-1.530</b>	5/8	7/16	0.090	1.530	0.600	0.500
1/4	1/4	<b>TFC-4-4-1.620</b>	5/8	9/16	0.180	1.620	0.700	0.600
1/2	3/8	<b>TFC-8-6-1.840</b>	15/16	11/16	0.280	1.840	0.760	0.660
1/2	1/2	<b>TFC-8-8-1.950</b>	15/16	7/8	0.400	1.950	0.860	0.900

**TUBE FITTING BULKHEAD  
CONNECTOR  
TFC-BH**



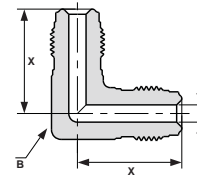
Face Seal Size	O Tube OD	Truelok® Ordering Number	H Hex Flat	H2 Hex Flat	H3 Hex Flat	I Tube ID	X	Y	Z
inch	inch		inch	inch	inch	inch	inch	inch	inch
1/4	1/4	<b>TFC-BH-4-4-1.880</b>	5/8	5/8	9/16	0.180	1.880	1.050	0.600
1/4	1/4	<b>TFC-BH-4-4-2.250</b>	5/8	5/8	9/16	0.180	2.250	1.320	0.600
1/2	3/8	<b>TFC-BH-8-6-2.540</b>	15/16	3/4	11/16	0.280	2.540	1.450	0.600
1/2	1/2	<b>TFC-BH-8-8-2.740</b>	15/16	7/8	0.900	0.400	2.740	1.650	0.900

FACE SEAL TO MALE NPT ELBOW  
LM-NPT



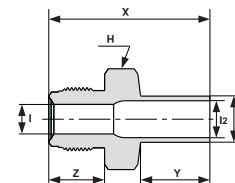
Face Seal Size	N NPT	Truelok® Ordering Number	B Wrench Flat	I Tube ID	X	Y	Z
inch	inch		inch	inch	inch	inch	inch
1/4	1/8	LM-NPT-4-2	1/2	0.180	1.070	0.870	0.380
1/4	1/4	LM-NPT-4-4	1/2	0.180	1.070	1.050	0.560
1/2	3/8	LM-NPT-8-6	13/16	0.400	1.450	1.260	0.560
1/2	1/2	LM-NPT-8-8	13/16	0.400	1.450	1.450	0.750

FACE SEAL MALE UNION ELBOW  
LMU



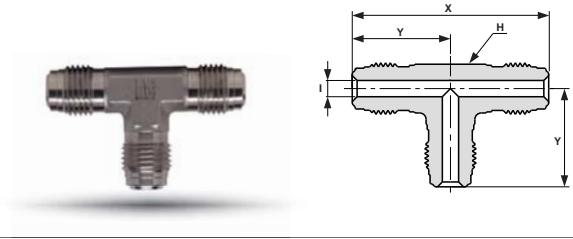
Face Seal Size	Truelok® Ordering Number	B Wrench Flat	I Tube ID	X
inch		inch	inch	inch
1/8	LMU-2	7/16	0.090	0.890
1/4	LMU-4	1/2	0.180	1.070
1/8	LMU-8	13/16	0.400	1.450

TUBE WELD HIGH FLOW CONNECTOR  
TW-HFC



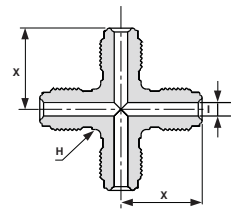
Face Seal Size	O Tube OD	Truelok® Ordering Number	H	I	I2	X	Y	Z
inch	inch		inch	inch	inch	inch	inch	inch
1/4	3/8	TW-HFC-4-6-1.680	5/8	0.25	0.30	1.68	0.75	0.62

TEE UNION  
TU



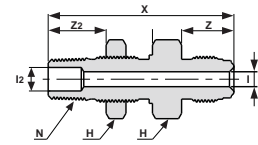
Face Seal Size	Truelok® Ordering Number	B	H	I	Y
inch		inch	inch	inch	inch
1/4	<b>TU-4</b>	2.14	1/2	0.18	1.07
1/2	<b>TU-8</b>	2.90	13/16	0.40	1.45
3/4	<b>TU-12</b>	3.84	1-1/4	0.62	1.92
1	<b>TU-16</b>	4.00	1-11/16	0.87	2.00

CROSS UNION  
CU



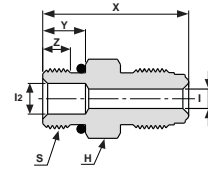
Face Seal Size	Truelok® Ordering Number	H	I	X
inch		inch	inch	inch
1/4	<b>CU-4</b>	1/2	0.18	1.07
1/2	<b>CU-8</b>	13/16	0.40	1.45

MALE BULKHEAD CONNECTOR NPT  
MC-BH-NPT



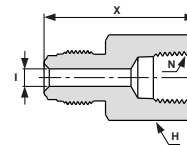
Face Seal Size	Truelok® Ordering Number	H Hex Flat	I Tube ID	I2 Tube ID	N NPT	X	Y	Z	Z2
inch		inch	inch	inch	inch	inch	inch	inch	inch
1/4	<b>MC-BHNPT-4-4-2.210</b>	13/16	0.180	0.280	1/4	2.210	1.240	0.620	0.560
1/2	<b>MC-BHNPT-8-4-2.340</b>	15/16	0.400	0.280	1/4	2.340	1.240	0.750	0.560

STRAIGHT THREAD O-RING  
SEAL MALE CONNECTOR  
MC-ST-OS



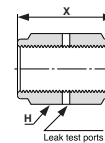
Face Seal Size	Truelok® Ordering Number	H Hex Flat	I Tube ID	I2 Tube ID	S Thread	X	Y	Z
inch		inch	inch	inch	inch	inch	inch	inch
1/4	MC-ST-OS-4-1.330	3/4	0.180	0.280	9/16-18	1.330	0.390	0.250
1/2	MC-ST-OS-8-1.660	1	0.280	0.590	7/8-14	1.660	0.500	0.400

FEMALE CONNECTOR NPT  
FC-NPT



Face Seal Size	Truelok® Ordering Number	H Hex Flat	I Tube ID	N NPT	X
inch		inch	inch	inch	inch
1/4	FC-NPT-4-1.410	5/8	0.180	1/8	1.410
1/4	FC-NPT-4-1.540	3/4	0.180	1/4	1.540
1/2	FC-NPT-8-1.760	15/16	0.400	3/8	1.760
1/2	FC-NPT-8-1.990	1-1/16	0.400	1/2	1.990

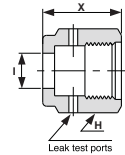
COUPLING  
CP



Face Seal Size	Truelok® Ordering Number	H Hex Flat	X
inch		inch	inch
1/4	CP-4-FM	3/4	1.190
1/2	CP-8-FM	1-1/16	1.310



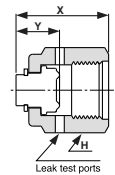
**FEMALE NUT  
N-F**



Face Seal Size	Truelok <sup>®</sup> Ordering Number	H Hex Flat	I	X
inch		inch	inch	inch
1/8	<b>N-F-2</b>	7/16	0.210	0.530
1/4	<b>N-F-4</b>	3/4	0.360	0.810
1/2	<b>N-F-8</b>	1-1/16	0.610	0.880
1/4	<b>N-F-HF-4*</b>	3/4	0.390	0.810
3/4	<b>N-F-12</b>	1-1/2	0.890	1.120
1	<b>N-F-16</b>	1-3/4	1.200	1.340

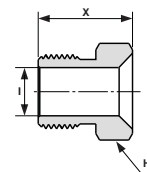
\*For Hight Flow Fittings

**SWIVEL NUT/CAP  
N-C**



Face Seal Size	Truelok <sup>®</sup> Ordering Number	H Hex Flat	X	Y
inch		inch	inch	inch
1/8	<b>N-C-2</b>	7/16	0.590	0.258
1/4	<b>N-C-4</b>	3/4	0.940	0.440
1/2	<b>N-C-8</b>	1-1/6	1.010	0.450
3/4	<b>N-C-12</b>	1-1/2	1.290	0.540
1	<b>N-C-16</b>	1-3/4	1.540	0.630

**MALE NUT  
N-M**



Face Seal Size	Truelok <sup>®</sup> Ordering Number	H Hex Flat	I	X
inch		inch	inch	inch
1/8	<b>N-M-2</b>	3/8	0.210	0.500
1/4	<b>N-M-4</b>	5/8	0.360	0.710
1/2	<b>N-M-8</b>	15/16	0.610	0.810
1/4	<b>N-M-HF-4*</b>	5/8	0.390	0.710
3/4	<b>N-M-12</b>	1-5/16	0.890	1.000
1	<b>N-M-16</b>	1-5/8	1.200	1.190

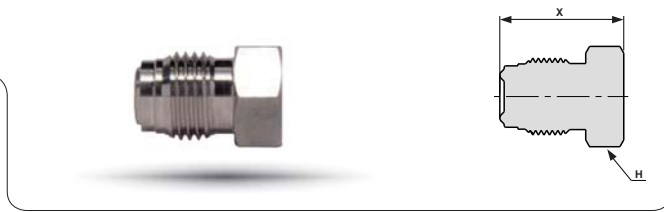
\*For Hight Flow Fittings

**SHORT MALE NUT**  
**N-S**



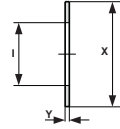
Face Seal Size	Truelok® Ordering Number	H Hex Flat	I	X
inch		inch	inch	inch
1/4	<b>N-S-4</b>	5/8	0.360	0.540
1/2	<b>N-S-8</b>	15/16	0.610	0.640

**MALE PLUG**  
**N-P**



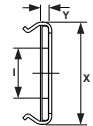
Face Seal Size	Truelok® Ordering Number	H Hex Flat	X
inch		inch	inch
1/8	<b>N-P-2</b>	3/8	0.680
1/4	<b>N-P-4</b>	5/8	0.920
1/2	<b>N-P-8</b>	15/16	1.080
3/4	<b>N-P-12</b>	1-5/16	1.430
1	<b>N-P-16</b>	1-5/8	1.520

**GASKET  
GK-SS**



Face Seal Size	Truelok® Ordering Number	Material	I	X	Y
inch			inch	inch	inch
1/8	<b>GK-SS-2</b>	Stainless Steel	0.090	0.260	0.028
1/8	<b>GK-NI-2</b>	Nickel	0.090	0.260	0.028
1/4	<b>GK-SS-4</b>	Stainless Steel	0.220	0.470	0.028
1/4	<b>GK-NI-4</b>	Nickel	0.220	0.470	0.028
1/2	<b>GK-SS-8</b>	Stainless Steel	0.440	0.780	0.028
1/2	<b>GK-NI-8</b>	Nickel	0.440	0.780	0.028
3/4	<b>GK-SS-12</b>	Stainless Steel	0.660	1.140	0.028
3/4	<b>GK-NI-12</b>	Nickel	0.660	1.140	0.028
1	<b>GK-SS-16</b>	Stainless Steel	0.890	1.400	0.028
1	<b>GK-NI-16</b>	Nickel	0.890	1.400	0.028
1/4	<b>GK-SS-4-BL</b>	Stainless Steel	BLIND	0.470	0.028
1/4	<b>GK-NI-4-BL</b>	Nickel	BLIND	0.470	0.028

**GASKET WITH RETAINER  
GK-SS-RR**



Face Seal Size	Truelok® Ordering Number	Material	I	X	Y
inch			inch	inch	inch
1/4	<b>GK-SS-4-RR</b>	Stainless Steel	0.220	0.500	0.028
1/4	<b>GK-NI-4-RR</b>	Nickel	0.220	0.500	0.028
1/2	<b>GK-SS-8-RR</b>	Stainless Steel	0.440	0.790	0.028
1/2	<b>GK-NI-8-RR</b>	Nickel	0.440	0.790	0.028
3/4	<b>GK-SS-12-RR</b>	Stainless Steel	0.660	1.140	0.028
3/4	<b>GK-NI-12-RR</b>	Nickel	0.660	1.140	0.028
1	<b>GK-SS-16-RR</b>	Stainless Steel	0.890	1.400	0.028
1	<b>GK-NI-16-RR</b>	Nickel	0.890	1.400	0.028
1/4	<b>GK-SS-4-BL-RR</b>	Stainless Steel	BLIND	0.500	0.028
1/4	<b>GK-NI-4-BL-RR</b>	Nickel	BLIND	0.500	0.028

## CUSTOM DESIGNED FITTINGS



**HIGH PURITY END CAPS FOR GAS PURIFIERS & GAS FILTERS**

**EXTRA LONG GLANDS FOR GAS REGULATORS AND GAS ANALYZERS**

**MINI GLANDS FOR AEROSPACE**

**REDUCING UNION FOR GAS DELIVERY SYSTEMS**

**BLIND GLANDS WITH GROOVE FOR AEROSPACE**

**HIGH FLOW CONNECTORS FOR GAS REGULATORS**