







TYLÜK*



Coffee Mugs

Part Number Coffee-mug-blue Coffee-mug-white Price \$5.00/each



Camo Hats

Price \$10.00/each



Drawstring Bags

Part Number Drawstring-bag Price \$5.00/each

Zippo Lighters

Part Number Logo-zippo Price \$30.00/each





Phone Wallets

Part Number Phone-wallet Price \$1.00/each

Tube Grips

Part Number Tube-grip-holder Price \$1.00/each





Fitting Gap Gages

Part Number
Refer to page 87
Price
Call for pricing

Flashdrives

Part Number Logo-flashdrive Price \$1.00/each





Pens

Part Number tylok-pens Price \$1.00/each

Golfballs - Titleist Pro V1

Part Number tylok-golfball Price \$50.00/per box of 12



Counter Walk-in Solutions



Can Koozie

Part Number can-koozie Price \$1.00/each



Wall Charts - 24x36

Part Number wall-chart Price \$1.00/each

Wall Chart Sticker - 12x24

Part Number wall-chart-sticker Price \$10.00/each



Mini Notepads - 5 pack

Part Number mini-notepads Price \$1.00/each





Counter Mats

Part Number counter-mats Price \$10.00/each



Part Number Tylok-wall-banner Price \$30.00/each





Cabinets

Part Number
Refer to page 88
Price
Call for pricing

Bar Stools

Part Number bar-stool Price \$100.00/each





Leak Detector

Part Number
Refer to page 86 for more info.
Price
Call for pricing

TyLube

Part Number Refer to page 86 for more info. Price Call for pricing





Co-branding options available upon request

LEAK DETECTOR & THREAD LUBRICANT

TYSPY LIQUID LEAK DETECTOR

- Temperature rating: Can be used over a temperature range of 27° to 200°F (-2 to 93°C).
- Low Temperature rating: Can be used over a temperature range of -65° to 200°F (-54 to 93°C).

Specifications: Meets the performance requirements of:

- MIL-PF25567 Leak Detector Compound, Oxygen Systems, Type I, 0 to 70°C (33 to 158°F)
- NFPA 52 Section 6-12.2 Leak Testing Compressed Natural Gas Vehicular Fuel System
- EPA Part 60, Appendix A, Method 21, Section 4.3.3 Alternative Screening Procedures Using Soap Solutions
- · Nontoxic, noncorrosive, nonflammable
- Tylok Liquid Leak Detector detects gas leaks in hard to reach areas.
- Safe for oxygen systems
- Sustainable bubble action works even on very small leaks and vertical surfaces
- Flexible tube extends for hard to reach areas
- · Formulas dries clean, without staining

Part Numbers	Description		
Leak Detector-8oz	8oz. Bottle		
Leak Detector COOL-8oz	OOZ. BOUNC		
Leak Detector-GAL	1 Gallon		
Leak Detector COOL-GAL	i Gallott		
Leak Detector-55G	55 Gallon Drum		
Leak Detector COOL-55G	JJ Gallott Di utili		



TYLUBE THREAD LUBRICANT

TyLube is an anti-gall compound to be used on stainless steel, steel and nickel-based alloys. Temperature range to 500°F. Not recommended for plastic and aluminum products. TyLube is made from distilled water with inert Ingredients and contains no silicones, heavy metals, chlorine or sulfur. Safe for oxygen applications.

For a complete list of ingredients, check out the SDS on www.tylok.com/tylube to be sure of its compatibility with your installation.

Part Numbers	Description
TYLUBE-80Z	8oz. bottle
TYLUBE-100	100 ct. box
TYLUBE-1ML	1ml packet















CBC PART NUMBER	T TUBE O.D.
1-DGG	1/16
2-DGG	1/8
3-DGG	3/16
4-DGG	1/4
5-DGG	5/16
6-DGG	3/8
8-DGG	1/2
10-DGG	5/8
12-DGG	3/4
14-DGG	7/8
16-DGG	1
468 DGC	1/4, 3/0, 1/2, 5rm, 12mm
ABS-46012 DGG	1/4, 5/3, 1/2, 3/4



When fitting is properly tightened, gap gage should not fit between nut and shoulder of body.











Co-branding options available upon request



Features & Benefits

- Organized and stocked inventory
- Valuable sales tool for bin fill placements
- Balanced inventory reduces cost
- Tylok provides a suggested inventory list of the most used product
- · Single purchase order saves accounting time and money
- Always have the spare parts you need
- · Customized product offering available
- Tylok part number chart and size chart provided for easy identification

Cabinet Attributes

- All welded, prime cold rolled steel
- Fully hemmed 1-1/2" bin fronts to hold labels and retain parts
- Compatible with most 12" deep bins drawer cabinets
- Durable blue powder coat finish, custom colors available
- Fittings & Cabinets made in the USA

Suggested Stock



SS-4-DMC-4 SS-4-DMC-6 SS-6-DMC-4 SS-6-DMC-6



SS-4-DFC-4 SS-6-DFC-6



SS-4-DU SS-6-DU SS-8-DU



SS-4-DF PLUG SS-6-DF PLUG SS-8-DF PLUG



SS-4-DCAP SS-6-DCAP SS-8-DCAP

10 EACH

10 EACH

10 EACH

10 EACH

10 EACH



SS-6-DMC-8

SS-8-DMC-6

SS-8-DMC-8

SS-4-DELU-4 SS-6-DELU-6 SS-8-DELU-8

10 EACH



SS-4-DME-4 SS-6-DME-4 SS-6-DME-6 SS-8-DME-8

10 EACH



SS-4-DFE-4 SS-6-DFE-6



10 EACH



SS-4-DTTT-4 SS-6-DTTT-6 SS-8-DTTT-8

10 EACH



SS-4-DTT-4-4-K SS-6-DTT-6-6-K SS-8-DTT-8-8-K

3 EACH



SS-43S-D4D4 SS-43S-D6D6 SS-45-D8D8

3 EACH



SS-1R4-D4D4 SS-1R6-D6D6 SS-1R6-D8D8

3 EACH



LEAK DETECTOR

1 EACH

Part Number	Description	Dimensions (in.)			
		W	D	Н	
Cabinet -40B-CBC	CBC-Lok Suggested Stock				
Cabinet-40B-CS	CS-Lok Suggested Stock	33-7/8"	12"	28-7/8"	
Cabinet-40B	Empty Cabinet				



STAINLESS STEEL INSTRUMENTATION TUBING

- Meets ASTM A213 and ASTM A269
- Grade TP 316/316L (dual certified)
- Seamless, Cold Finished
- 20 foot lengths

Outside Diameter (in)	Part Number	Wall Thickness (in)
	4-T-035-S-316L	0.035
1/4	4-T-049-S-316L	0.049
	4-T-065-S-316L	0.065
	6-T-035-S-316L	0.035
3/8	6-T-049-S-316L	0.049
	6-T-065-S-316L	0.065
	8-T-035-S-316L	0.035
1/2	8-T-049-S-316L	0.049
1,7 =	8-T-065-S-316L	0.065
	8-T-083-S-316L	0.083
	10-T-049-S-316L	0.049
5/8	10-T-065-S-316L	0.065
9, 3	10-T-083-S-316L	0.083
	10-T-095-S-316L	0.095
	12-T-049-S-316L	0.049
	12-T-065-S-316L	0.065
3/4	12-T-083-S-316L	0.083
	12-T-095-S-316L	0.095
	12-T-109-S-316L	0.109
	16-T-065-S-316L	0.065
	16-T-083-S-316L	0.083
1	16-T-095-S-316L	0.095
	16-T-109-S-316L	0.109
	16-T-120-S-316L	0.120

TUBING Suggested Allowable Working Pressure Tables

Values in the black cells with white text are not recommended for gas services. Maximum suggested working pressures are based on ASME B31.3 equations using the following values:

Stainless Steel Welded Tube De-rating factors:

	Stress Value (psi)	Fractional Tube Specifications	Metric Tube Specifications
Stainless Steel	20,000	ASTM A269	ISO 1127 3 to 12 mm O.D: D4 T4 tolerance 14 mm O.D and larger: D4 T3 tolerance
Carbon Steel	15,700	ASTM A179	-
Copper	6,000	ASTM B75	-

Double-Welded	0.85
Single-Welded	0.80

FRACTIONAL TUBE (psig)

	Stainless Steel															
Tube Size	Tube Wall Thickness (inches)															
O.D.	.010	.012	.014	.016	.020	.028	.035	.049	.065	.083	.095	.109	.120	.134	.156	.188
1/16"	5600	6800	8100	9400	12000											
1/8"						8500	10900									
3/16"						5400	7000	10200								
1/4"						4000	5100	7500	10200							
5/16"							4000	5800	8000							
3/8"							3300	4800	6500							
1/2"							2600	3700	5100	6700						
5/8"								2900	4000	5200	6000					
3/4"								2400	3300	4200	4900	5800				
7/8"								2000	2800	3600	4200	4800				
1"									2400	3100	3600	4200	4700			
1-1/4"										2400	2800	3300	3600	4100	4900	
1-1/2"											2300	2700	3000	3400	4000	4900
2"			·									2000	2200	2500	2900	3600

	Carbon Steel											
Tube Size		Tube Wall Thickness (inches)										
0.D.	.028	.035	.049	.065	.083	.095	.109	.120				
1/8"	8000	10200										
3/16"	5100	6600	9600									
1/4"	3700	4800	7000	9600								
5/16"		3700	5500	7500								
3/8"		3100	4500	6200								
1/2"		2300	3200	4500	5900							
5/8"			2600	3500	4600	5300						
3/4"			2100	2900	3700	4300	5100					
7/8"			1800	2400	3200	3700	4300					
1"			1500	2100	2700	3200	3700	4100				

	Copper											
Tube Size		Tube Wall Thickness (inches)										
0.D.	.028	.035	.049	.065	.083	.095	.109	.120				
1/8"	2700	3600										
3/16"	1800	2300	3400									
1/4"	1300	1600	2500	3500								
5/16"		1300	1900	2700								
3/8"		1000	1600	2200								
1/2"		800	1100	1600	2100							
5/8"			900	1200	1600	1900						
3/4"			700	1000	1300	1500	1800					
7/8"			600	800	1100	1300	1500					
1"			500	700	900	1100	1300	1500				

METRIC TUBE (bar)

TUBE PRESSURE DE-RATING FACTORS ELEVATED TEMPERATURES

	Stainless Steel											
Tube Size	Tube Wall Thickness (mm)											
0.D.	0.8	1.0	1.2	1.5	1.8	2.0	2.2	2.5	2.8	3.0		
3	670											
6	310	420	540	710								
8		310	390	520								
10		240	300	400	510	580						
12		200	250	330	410	470						
14		160	200	270	340	380	430					
15		150	190	250	310	360	400					
16			170	230	290	330	370					
18			150	200	260	290	320	370				
20			140	180	230	260	290	330	380			
22			120	160	200	230	260	300	340			
25					180	200	230	260	290	320		

Temper	atures		Tubing Material						
°F	°C	Carbon	304 SS	316 SS	Copper				
100	38				1.00				
150	66				0.85				
200	93	0.95	1.00	1.00	0.80				
250	121				0.80				
300	149	0.90	1.00	1.00	0.78				
350	177				0.66				
400	204	0.87*	0.93	0.96	0.50				
500	260		0.87	0.89					
600	316		0.82	0.85					
700	371		0.8	0.81					
800	427		0.76	0.79					
900	482		0.73	0.77					
1000	538		0.69	0.76					

^{*} Based on 375°F (190°C) max

INSTALLATION INSTRUCTIONS

CBC-LOK®/CS-LOK® INSTALLATION INSTRUCTIONS

CBC-Lok®/CS-Lok® Tube Fittings come completely assembled & ready for use, no disassembly required. Although there are some general guidelines to follow, no special preparation of the tubing is necessary. In overhead applications, Tylok recommends using a Pre-Set Tool.

Size		Tighten # Turn(s)	CIZE #4 than #0	CIZE #4 +b #4 C
1	1/16"		SIZE #1 thru #3	SIZE #4 thru #16
2	1/8"	3/4		
3	3/16"			
4	1/4"			
5	5/16"			
6	3/8"			
8	1/2"	1-1/4		
10	5/8"	1-1/ -		
12	3/4"		Finger tight plus	Finger tight plus
14	7/8"		3/4 turn	1-1/4 turn
16	1"		3/ 4 tul II	1-1/ 4 tulli

NOTE: DF Plugs, -NF (Nut & Ferrule Pre-Assemblies) require only 1/4 turn make-up.



Simply insert the tubing into the assembly, making sure the tubing seats firmly seats against the shoulder of the body and the nut is finger tight. High pressure applications and high saftey-factor systems. Further tighten the nut until the tube will not turn by hand or move axially in the fitting.





Tighten nut with wrench the additional number of turns indicated above, while holding the fitting body with a second wrench.



TO REMOVE TUBE & RE-CONNECT TUBE FITTING

Mark the location of the nut with reference to the body before disassembly. Back off the nut until it is clear of the body and remove the tubing from the fitting. For assembly, re-insert the tubing into the body until it is seated. With proper size wrench, re-tighten nut to original location by realigning previous marks. A noticeable amount or torque will develop when the nut is turned to original position. Next, rotate the nut slightly past original position to fully re-set the seal.

TUBING SELECTION GUIDELINES

General

- Free of nicks, scratches, and imperfections
- Suitable for bending and flaring
- Square cut ends

Stainless Steel

- Types 304, 304L, 316, 316L, 317, or 317L per ASTM A213, ASTM A269, or equivalent.
- Fully Annealed, Seamless or Welded Redrawn, Maximum hardness of 80 HRB.

Copper

• Seamless ASTM B75 Soft Annealed, ASTM B88 K or L Temper O, or equivalent.

Carbon Steel

• ASTM A179 or equivalent, maximum hardness of 72 HRB.

GAS SERVICE

Gases are generally less viscous than liquids allowing them to leak through imperfect seals. Tylok recommends tubing with minimal surface imperfections (nicks, scratches, etc.) and heavier walls for gas service applications. Heavy wall tubing offers more resistance to ferrules during installation which promotes a skiving effect that smooths out surface defects that would otherwise be leak paths. Thin wall tubing offers less resistance which promotes flexing rather than skiving resulting in a seal that may not be suitable for gas service. Refer to tubing pressure tables in this catalog for wall thickness recommended for gas services.

PRECAUTIONS FOR WELD END

For best results when using Tylok tube fittings with weld ends, certain precautions should be taken:

- Remove the nut & ferrules from the fitting.
- Protect exposed threads & sealing surfaces from spatter.
- Use a heat sink to dissipate heat.
- Tack weld symmetrically to maintain alignment.
- When finishing welding remove weld spatter protection and make sure nuts and ferrules are in the proper orientation before assembling.

SAFETY GUIDELINES

- Depressurize fluid systems before connecting, disconnecting or remaking a fitting.
- Follow Tylok's guidelines for proper fitting installation.
- Consult the factory before attmpting to interchange Tylok fitting components.
- Don't exceed the recommended pressure ratings of system components.
- Use thread sealants when installing tapered pipe threads.
- Select fitting and tubing materials for best results.
- Never use a fitting to bleed pressure from a system.

HEAT TRACEABILITY

Tylok Tube Fittings are heat code traceable back to mill heat of the material they were made from. Contact the factory for material certification requests.

RAW MATERIAL SPECIFICATIONS

Fitting Material	Bar Stock	Forging
Brass	ASTM B16 ASTM B453	ASTM B283
Stainless Steel	ASTM A276 ASTM A479 ASME SA-479 Type 316-SS	ASTM A182 ASME SA-182 Type 316-SS
Steel	ASTM A108	

 $^{^{\}star}$ Reference Tubing Selection & Preparation

NOTICE

In designing a system incorporating tube fittings and valves, it is the designer's or user's obligation & responsibility to determine the appropriate fittings and valves to be used for each application and to insure proper installation and maintenance.

QUALITY CONTROL

All components are manufactured & inspected to meet strict quality control standards in each phase of production. All employees are thoroughly trained to follow procedures, in accordance with the ISO 9001 Quality Standard, to ensure a quality product from the start of each job through completion.

End Connections

Suggested Allowable Working Pressure Tables



CBC-LOK/CS-LOK TUBE ADAPTERS

Fractional (PSIG)				M	letric (BAR)
Size	Tube Size	Stainless Steel & Carbon Steel	Brass	Tube Size	Stainless Steel & Carbon Steel
1	1/16	7200	2600	3mm	370
2	1/8	6400	3200	6mm	390
3	3/16	6000	3000	8mm	390
4	1/4	5900	2900	10mm	390
5	5/16	5800	2700	12mm	360
6	3/8	5800	2200	15mm	340
8	1/2	4900	2100	16mm	340
10	5/8	5000	1900	18mm	310
12	3/4	4600	1800	20mm	310
14	7/8	4300	1500	22mm	340
16	1	4100	1500	25mm	280
20	1-1/4	4900	-		
24	1-1/2	4900	-		
32	2	3600	-		

NOTE: Ratings calculated in accordance with ASME B31.3 (stress values of 10,000 psi for brass and 20,000 psi for stainless and carbon steel).



STB FITTINGS (PSIG)

Stainless Steel & Carbon Steel				
Size	Thread	Straights	Positionable	
2	5/16-24	5076	5076	
3	3/8-24	5076	5076	
4	7/16-20	5076	4568	
5	1/2-20	5076	4568	
6	9/16-18	5076	4061	
8	3/4-16	4568	4061	
10	7/8-14	3626	3045	
12	1-1/16-12	3626	3045	
14	1-3/16-12	3045	2538	
16	1-5/16-12	3045	2538	
20	1-5/8-12	2538	2030	
24	1-7/8-12	2538	2030	
32	2-1/2-12	2030	1522	

NOTE: Pressure ratings per SAE J1926-3 for light-duty stud ends.



JIC 37° FLARE (PSIG)

Stainless Steel & Carbon Steel				
Size	Thread	PSIG		
2	5/16-24	5000		
3	3/8-24	5000		
4	7/16-20	5000		
5	1/2-20	5000		
6	9/16-18	5000		
8	3/4-16	4500		
10	7/8-14	3500		
12	1-1/16-12	3500		
14	1-3/16-12	3000		
16	1-5/16-12	3000		
20	1-5/8-12	2500		
24	1-7/8-12	2000		
32	2-1/2-12	1500		

NOTE: Pressure ratings per SAE J514.



NPT & BSPT PIPE THREADS

	PSIG				
Size	Thread	Stainless Steel & Carbon Steel		Brass	
Size	IIIIedu	Male	Female	Male	Female
1	1/16	11000	6700	5500	3300
2	1/8	10000	6500	5000	3200
4	1/4	8000	6600	4000	3300
6	3/8	7800	5300	3900	2600
8	1/2	7700	4900	3800	2400
12	3/4	7300	4600	3600	2300
16	1	5300	4400	2600	2200
20	1-1/4	6000	5000	3000	2500
24	1-1/2	5000	4600	2500	2300
32	2	3900	3900	1900	1900

NOTE: Pressure ratings calculated in accordance with ASME B31.3 with NPT threads per ASME B1.20.1 and BSPT threads per ISO 7-1.

THERMOCOUPLE BORE THROUGH			
Sizes	De-Rating Factor		
1/2" & Smaller	0.75		
Over 1/2" up to & including 3/4"	0.50		
Larger than 3/4"	0.25		

 ${\color{red} {\bf NOTE:}} \ {\color{blue} {\bf Multiply}} \ {\color{blue} {\bf tables}} \ {\color{blue} {\bf tables}}$

FITTING TEMPERATURE RATINGS			
316 Stainless	Brass	Steel	
-325°F to 1000°F	-40°F to 400°F	-65°F to 375°F	
(-198°C to 648°C)	(-40°C to 204°C)	(-54°C to 190°C)	