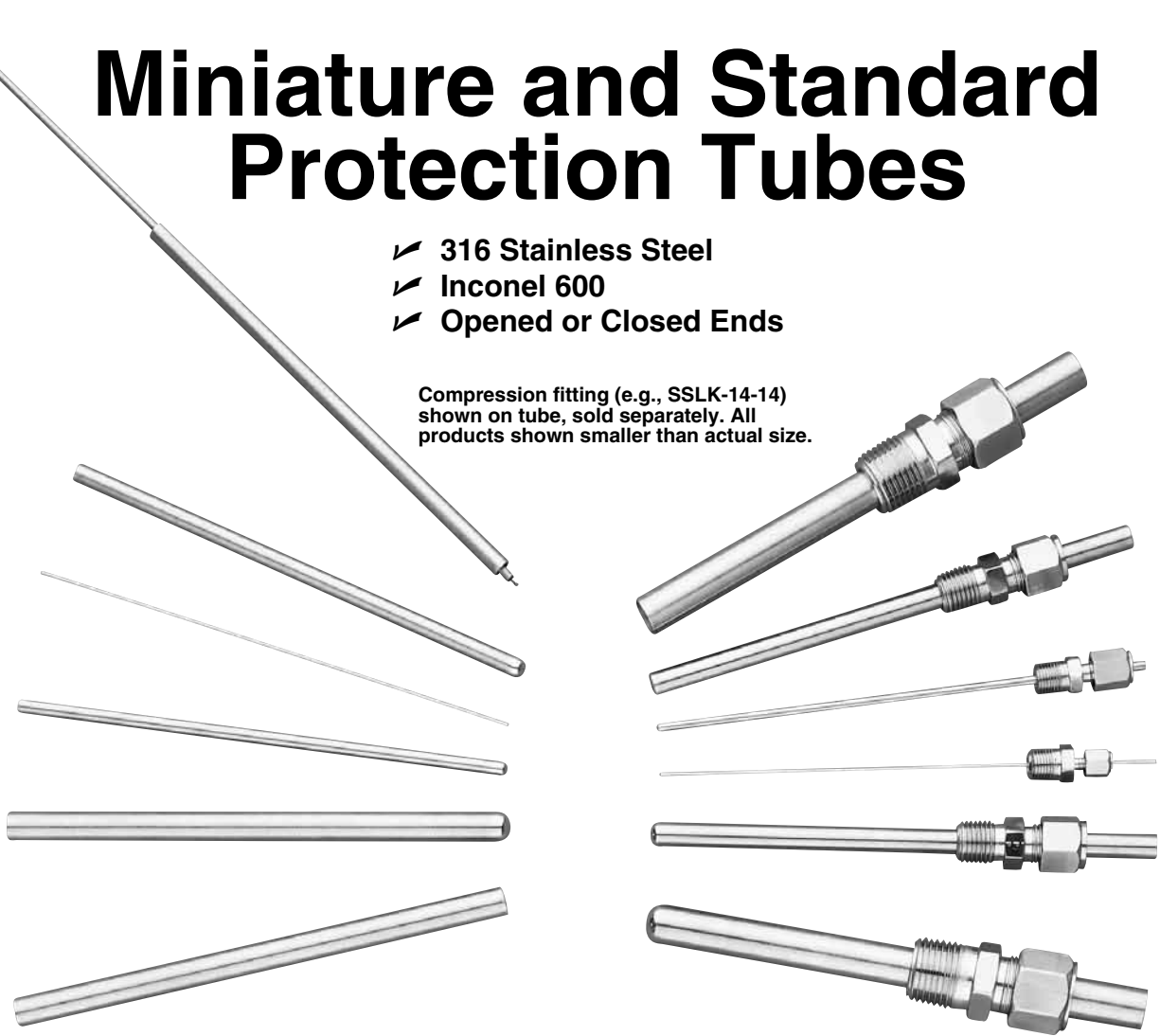


Miniature and Standard Protection Tubes

- ✓ 316 Stainless Steel
- ✓ Inconel 600
- ✓ Opened or Closed Ends

Compression fitting (e.g., SSLK-14-14) shown on tube, sold separately. All products shown smaller than actual size.



OMEGA® miniature and standard protection tubes are available in 316 stainless steel and Inconel 600 nickel alloy. Tubes are available either opened at both ends or with one end closed. Standard length available from stock is 150 mm (6"); however, practically any length tube is available on short delivery.

OMEGA's protection tubes are intended for use with OMEGA's fine or heavy gage thermocouples and ceramic insulators, as well as OMEGA's standard thermocouples made from OMEGACLAD® thermocouple wire. Bare wire thermocouples can be insulated using OMEGATITE® ceramic insulators as well as the insulators used in replacement elements.

OMEGA's protection tubes can be conveniently secured into pipes, vessels, and chambers by using OMEGALOK® compression fittings.

To Order			
Model No.	Material	OD* mm (in)	ID* mm (in)
SS-116-□□	316 Stainless Steel	1.5 (1/16)	1.32 (0.052)
SS-18 -□□		3.0 (1/8)	1.78 (0.070)
SS-316-□□		4.5 (3/16)	3.35 (0.132)
SS-14 -□□		6.0 (1/4)	4.93 (0.194)
SS-516-□□		8.0 (5/16)	6.60 (0.260)
SS-38 -□□		9.5 (3/8)	8.13 (0.320)
SS-716-□□		11.0 (7/16)	9.40 (0.370)
SS-12 -□□		12.5 (1/2)	10.9 (0.430)
INC-116-□□	Inconel 600	1.5 (1/16)	1.32 (0.052)
INC-18 -□□		3.0 (1/8)	1.78 (0.070)
INC-316-□□		4.5 (3/16)	3.35 (0.132)
INC-14 -□□		6.0 (1/4)	5.33 (0.210)
INC-516-□□		8.0 (5/16)	6.27 (0.247)
INC-38 -□□		9.5 (3/8)	7.75 (0.305)
INC-716-□□		11.0 (7/16)	9.32 (0.367)
INC-12 -□□	12.5 (1/2)	10.9 (0.430)	

↑ Closed one end "CLOSED"; Opened "OPEN"
 Length in inches, 6" standard

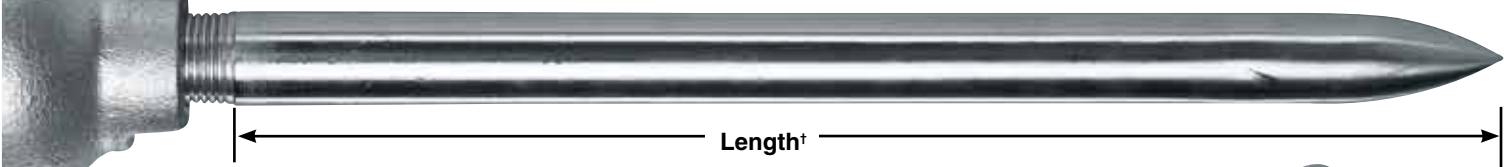
* Tolerance of OD is ± 0.13 mm (0.005"). Tolerance of ID is the same as the tolerance of OD $\pm 15\%$ of the wall thickness.

† Consult Sales for lengths over 10'.

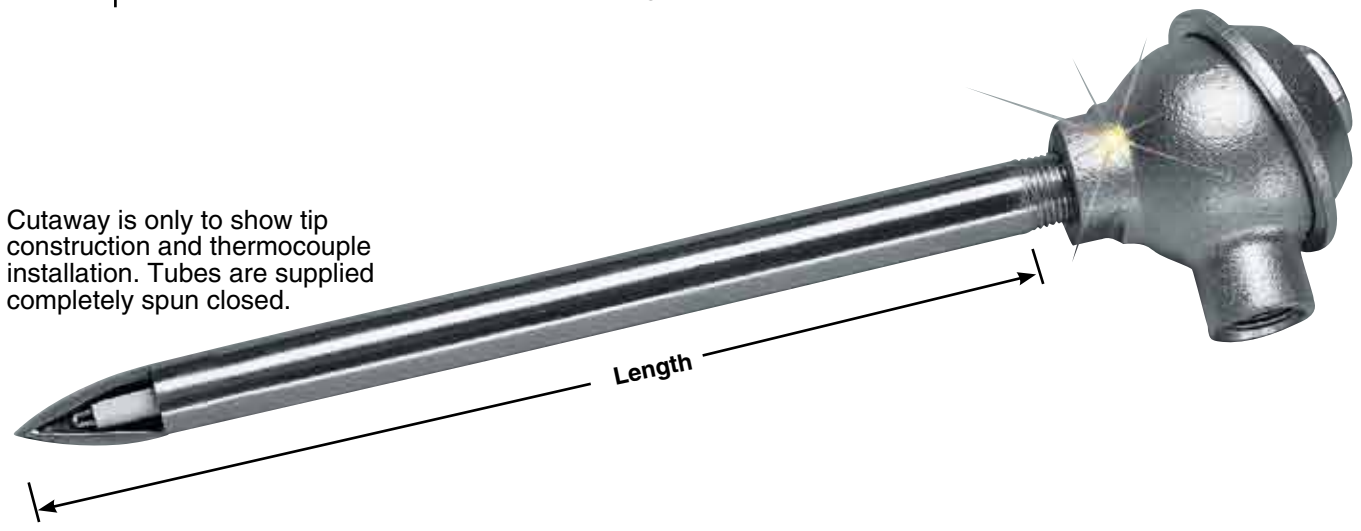
Ordering Example: SS-14-6CLOSED, closed end 6.0 mm (1/4") OD 316 stainless steel protection tube, 150 mm (6") long.

Metal Protection Tubes

THREAD (EITHER 3/4" or 1/2" NPT)



Cutaway is only to show tip construction and thermocouple installation. Tubes are supplied completely spun closed.



To Order					
Nominal 3/4" Schedule 40 Black Steel Pipe (0.824" ID x 1.050" OD)			Nominal 1/2" Schedule 40 Black Steel Pipe (0.622" ID x 0.840" OD)		
Thread	Length mm (in)	Model Number	Thread	Length mm (in)	Model Number
3/4" NPT	300 (12)	3/4-PTBS-12	1/2" NPT	300 (12)	1/2-PTBS-12
3/4" NPT	450 (18)	3/4-PTBS-18	1/2" NPT	450 (18)	1/2-PTBS-18
3/4" NPT	600 (24)	3/4-PTBS-24	1/2" NPT	600 (24)	1/2-PTBS-24
Nominal 3/4" Schedule 40-304 SS Pipe (0.824" ID x 1.050" OD)			Nominal 1/2" Schedule 40-304 SS Pipe (0.622" ID x 0.840" OD)		
Thread	Length mm (in)	Model Number	Thread	Length mm (in)	Model Number
3/4" NPT	300 (12)	3/4-PTSS-12	1/2" NPT	300 (12)	1/2-PTSS-12
3/4" NPT	450 (18)	3/4-PTSS-18	1/2" NPT	450 (18)	1/2-PTSS-18
3/4" NPT	600 (24)	3/4-PTSS-24	1/2" NPT	600 (24)	1/2-PTSS-24
Technical Data					
Male NPT thread on one end, spun closed on the other end					
Material	Max. Continuous Operating Temp	Mech. Strength		Applications	Remarks
		Cold	Hot		
304SS	900°C (1650°F)	Excellent	Fair	Food processing, dairy products, petroleum products, mild acids, alkalies	Embrittles in 425°C (800°F) to 760°C (400°F) range.
Black Steel	650°C (1200°F)	Excellent	Good	Molten babbitt, tin, lead and magnesium	Low cost

* Other lengths and materials available, consult Sales Department.

Ordering Example: 3/4-PTSS-12, 300 mm (12") long metal protection tube of 304 stainless steel with a 3/4" thread.

Mounting Flanges and Bushings with standard NPT thread available upon request. Consult Sales for pricing.

Discount Schedule	
1-10 Units	Net
11-24 Units	10%
25-100 Units	20%
101 and up	Consult Sales

Quantity discount applies to like tubes. Other sizes, materials and configurations by quotation.