

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. These items are shown in Section A of this catalog. 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.

MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)						
Model No.	Material	OD* mm (in)	ID* mm (in)	Open End Price per First 150 mm (6")	Closed End Price per First 150 mm (6")	Price per Add'I 25 mm (1") [†]
SS-116-□ □		1.5 (1/16)	1.32 (0.052)	\$6.00	\$8.50	\$0.80
SS-18 -□□	316 Stainless Steel	3.0 (1/8)	1.78 (0.070)	6.00	8.50	0.80
SS-316-□ □		4.5 (3/16)	3.35 (0.132)	6.00	8.50	0.80
SS-14 - □ □		6.0 (1/4)	4.93 (0.194)	6.00	8.50	0.80
SS-516-□ □		8.0 (5/16)	6.60 (0.260)	6.00	8.50	0.80
SS-38 -□□		9.5 (%)	8.13 (0.320)	6.00	8.50	0.80
SS-716-□□		11.0 (7/6)	9.40 (0.370)	6.00	8.50	0.80
SS-12 -□□		12.5 (½)	10.9 (0.430)	6.00	8.50	0.80
INC-116-□ □		1.5 (1/16)	1.32 (0.052)	\$7.00	\$9.50	\$1.10
INC-18 -□□	Inconel 600	3.0 (1/8)	1.78 (0.070)	7.00	9.50	1.1
INC-316-□ □		4.5 (3/16)	3.35 (0.132)	7.00	9.50	1.10
INC-14 -□□		6.0 (1/4)	5.33 (0.210)	7.00	9.50	1.10
INC-516-□ □		8.0 (5/16)	6.27 (0.247)	7.00	9.50	1.1
INC-38 -□□		9.5 (%)	7.75 (0.305)	7.00	9.50	1.10
INC-716-□ □		11.0 (7/6)	9.32 (0.367)	8.50	11.00	1.10
INC-12 - □ □		12.5 (½)	10.9 (0.430)	9.50	12.00	1.10

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

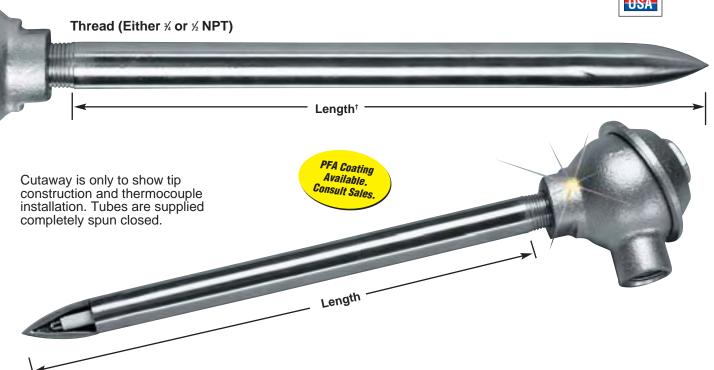
Ordering Example: SS-14-6CLOSED, closed end 6.0 mm (½") OD 316 SS protection tube, 150 mm (6") \log , \$6.00 + 2.50 = \$8.50.

^{*} 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'.

Metal Protection Tubes





MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)								
Nominal ¾" Schedule 40 Black Steel Pipe (0.824" ID x 1.050" OD)				Nominal ½" Schedule 40 Black Steel Pipe (0.622" ID x 0.840" OD)				
Thread	Length mm (in)	Model Number	Price	Thread	Length mm (in)	Model Number	Price	
¾ NPT	300 (12)	3/4 - PTBS-12	\$65	½ NPT	300 (12)	1/2- PTBS-12	\$60	
¾ NPT	450 (18)	3/4 - PTBS-18	84	½ NPT	450 (18)	1/2- PTBS-18	79	
¾ NPT	600 (24)	3/4 - PTBS-24	112	½ NPT	600 (24)	1/2-PTBS-24	95	
Nominal ¾" Schedule 40-304 SS Pipe (0.824" ID x 1.050" OD) Nominal ½" Schedule 40-304 SS Pipe (0.622" ID x 0.840" OD)								
Thread	Length mm (in)	Model Number	Price	Thread	Length mm (in)	Model Number	Price	
¾ NPT	300 (12)	3/4-PTSS-12	\$95	½ NPT	300 (12)	1/2-PTSS-12	\$80	
¾ NPT	450 (18)	3/4-PTSS-18	125	½ NPT	450 (18)	1/2-PTSS-18	120	
¾ NPT	600 (24)	3/4-PTSS-24	135	½ NPT	600 (24)	1/2-PTSS-24	130	
Technical Data								

Male NPT thread on one end, spun closed on the other end

	Max Continuous	Mech. Strength				
Material	Operating Temp	Cold	Hot	Applications	Remarks	
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 babbit, tin, lead and magnesium	Low cost	

[†] Other lengths and materials available, consult Sales

Ordering Example: 3/4-PTSS-12, is a 300 mm (12") long metal protection tube of 304 stainless steel with a %" thread, \$67.

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

Discount Schedule				
1–10 Units Net	Quantity discount applies			
11–24 Units10%	to like tubes. Other sizes,			
25–100 Units20%	materials and configurations			
101 and upConsult Sales	by quotation.			

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