

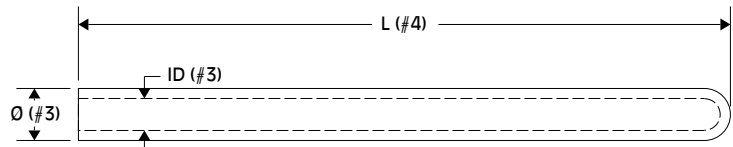
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# MULLITE / ALUMINA PROTECTION TUBES

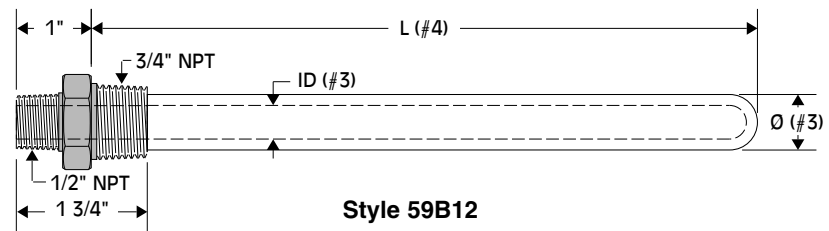
The composition of this tube is 80% alumina and 20% silica. This protection tube has excellent thermal shock characteristics (3.0 x 10<sup>-6</sup> in/in/ degrees F). It can be characterized as a mullite tube with a higher percentage of alumina than a typical mullite tube would have. It has an outer diameter of 3/4" and an inner diameter of 1/2". It is a light green color. When fully supported, the tube can be exposed to 2900 degrees F. This protection tube is a compromise between mullite and alumina yielding a high quality ceramic tube with excellent thermal shock resistance. Due to the silica content, a platinum/rhodium thermocouple should not be used in it without a primary alumina tube to insulate the thermocouple.

#1	SERIES	
59	Mullite / Alumina Ceramic Protection Tube - Add "W" here for a cap and chain to fit over open end. (i.e. 59W)	
#2	TUBE STYLE	
B	Mounting Bushing - (1/2" NPT head connection and 3/4" NPT process connection)	
Z	No Bushing	
X	Other, specify	
#3	NOMINAL TUBE SIZE	
	<b>I.D.</b>	<b>O.D.</b>
14	1/4"	3/8"
56	5/16"	1/2"
38	3/8"	1/2"
76	7/16"	11/16"
12	1/2"	3/4" (Standard)
#4	TUBE LENGTH (OVERALL)	
A	12" (Standard)	
B	18"	
C	24" (Standard)	
D	36"	
X	Other, specify	
#5	TAGGING OPTIONS	
1	STAMPING	Stamped on well (Standard)
X		Other
Z		N/A <b>Note:</b> You must always specify information required on tag

**NOTE:**  
 Bushings are always 1/2" NPT head connection, and 3/4" NPT process connection.  
 Bushings are not standard for 3/4" x 1" or 1" x 1 1/4" ceramic tubes.  
 For tubes smaller than 11/16" OD, the "L" length will equal the total length including the bushing.



Style 59Z12



Style 59B12

59	B	12	12"	1
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