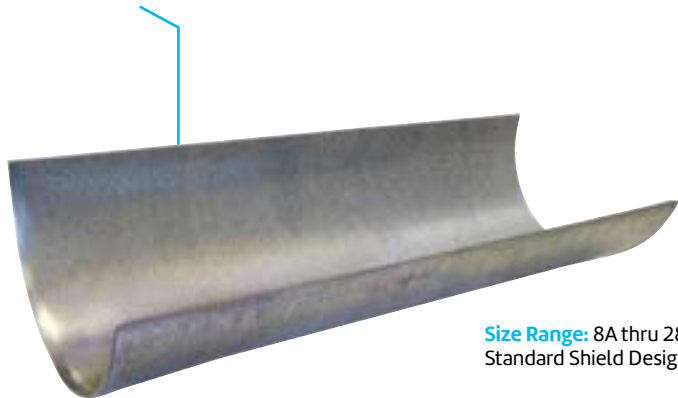


## Insulation Protection Shield / Lok Shield Fig. 167



**Size Range:** 8A thru 28C  
Standard Shield Design



**Size Range:** X1A thru 7A  
Lok Shield Design



Lok Shield shown  
with Figure 260

**Size Range:** ½" through 24" pipe with up to 2" thick insulation.

**Note:** 18ga shields have Lok-shield design all other sizes have traditional design.

**Material:** Carbon steel

**Finish:** Pre-Galvanized Material

**Service:** Recommended for outside of foam or fiber glass insulation for distribution of loads to preclude crushing of insulation without breaking the vapor barrier.

**Approvals:** Complies with Federal Specification A-A-1192A (Type 40), WW-H-171-E (Type 41), ANSI/MSS SP-69 and MSS SP-58 (Type 40).

**How to size:** Refer to "shield size selection table" on the next page.

**Features:** Chamfered cupped ends for safe non-sharp edges. Lok Shield design enables fast easy, tool-free attachment to clevis hanger.

**Ordering:** Specify size, figure number. Data applicable to shields for thicker insulation or larger pipe sizes is available.

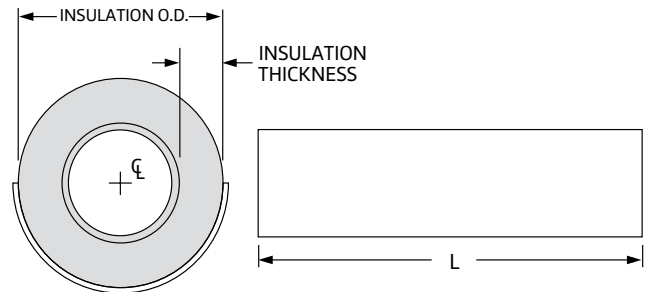
**Note:** Stainless steel material available upon request.

PROJECT INFORMATION	APPROVAL STAMP
Project:	Approved
Address:	Approved as noted
Contractor:	Not approved
Engineer:	Remarks:
Submittal Date:	
Notes 1:	
Notes 2:	

## Insulation Protection Shield / Lok Shield (cont.) Fig. 167

Fig. 167: Dimensions (in) • Weight (lbs)

Shield Size	Weight	Stock Size	L	Insulation OD	Fig. 260
X1A	0.5			1.90	1½
1A	0.7			2.38	2
2A	0.8			2.88	2½
3A	1.0	18 Ga.	12	3.50	3
4A	1.1			4.00	3½
5A	1.3			4.50	4
6A	1.4			5.00	5
7A	1.6			5.56	5
8A	1.9	16 Ga.		6.64	6
9A	2.7			7.64	8
10A	3.1			8.64	8
9B	4.0	16 Ga.	18	7.64	8
10B	4.6			8.64	8
11B	5.1			9.64	10
12B	5.6			10.76	10
13C	10.2			11.76	12
14C	11.1	14 Ga.		12.76	12
15C	12.3			14.00	14
16C	12.7			15.00	16
17C	13.6			16.00	16
18C	14.5			17.00	18
19C	21.2			18.00	18
20C	22.4	12 Ga.	24	19.00	20
21C	23.6			20.00	20
22C	24.8			21.00	24
23C	25.9	12 Ga.		22.00	24
24C	27.1			23.00	24
25C	28.3			24.00	24
26C	31.0			26.00	30
27C	31.8			27.00	30
28C	33.0			28.00	30



**Note:** As actual foam or fiber glass insulation thicknesses vary, verify that the radius of the selected shield is suitable for the required application. Shields are designed for a maximum span of ten feet on 15 psi compressive strength insulation. For compressive strengths greater than 15 psi, spans may be increased proportionately up to maximum allowable for steel pipe. Refer to MSS-SP-69 for specific guidelines on compressive strength and maximum span.

Shading in gray indicates this shield fits loosely inside the Fig. 260. To be used properly, the Fig. 260 requires a spacer.

## Insulation Protection Shield / Lok Shield (cont.) Fig. 167

**Shield Size Selection for Nominal Pipe Size**

Pipe Size	Insulation Thickness (in)				
	1/2	3/4	1	1 1/2	2
1/2		1A	-	-	-
3/4	1A			4A	6A
1		2A	3A	5A	7A
1 1/4				6A	7A
1 1/2	2A	3A	4A		8A
2	3A	4A	5A	7A	8A
2 1/2	4A	5A	6A	8A	9A
3	5A	6A	7A		
3 1/2	-	-	8A	9A	10A
4	-	-			
5	-	-	9B	10B	11B
6	-	-	10B	11B	12B
8	-	-	12B	13C	14C
10	-	-	14C	15C	16C
12	-	-	16C	17C	18C
14	-	-	17C	18C	19C
16	-	-	19C	20C	21C
18	-	-	21C	22C	23C
20	-	-	23C	24C	25C
24	-	-	26C	27C	28C

**Shield Size Selection for Copper Tubing**

Tube Size	Insulation Thickness (in)				
	1/2	3/4	1	1 1/2	2
3/8				3A	5A
1/2, 5/8, 3/4	X1A	1A	2A	4A	6A
1, 1 1/4	1A	2A	3A	5A	7A
1 1/2	2A	3A	4A	6A	
2	3A	4A	5A	7A	8A
2 1/2	4A	5A	6A		
3	5A	6A	7A	8A	
3 1/2	6A	7A	8A		9A
4	7A			9A	10A
5	8A	8A	9A	10A	11B
6	9A	9A	10A	11B	12B
8	11B	11B	12B	13C	14C