



USA INDUSTRIES BLIND SOLUTIONS

Available for Rental and Sale. Ready to Ship 24/7-365 Days of the Year.

PADDLE, SPECTACLE & PADDLE SPACER BLINDS



USA Industries is one of the leading manufacturers and suppliers of Paddle Blinds—also known as Line Blanks, Spades, Isolation Skilllets, Figure 8s, and Spectacle Blind Flanges. We offer both isolation and hydrotest thicknesses; however, as a **custom manufacturer**, we can also produce blinds in any thickness, handle type, alloy, or coating needed—based on your specifications and material availability.

Our line blinds are manufactured and stocked in:

- **Sizes:** 1/2" to 96"
- **Flange Ratings:** 150# to 2500#
- **Handle Options:** T • 7 • Straight
- **Face Options:** Flat, Raised, RTJ Female, RTJ Male
- **Finish Options:** Mill • Serrated (125/250 RMS)
- **Stocked Alloys:** SA516 Gr.70 Carbon Steel • 304 & 316 Stainless Steels (any available alloy upon request)
- **ASME Compliance:** ASME B16.48 • B16.47 (26"+ Series A & B) • ANSI B16.5
- **Processing:** Precision-ground smooth edges, fully stamped, freshly painted, and color-coded for easy pressure rating identification
- **Availability:** Purchase or Rent
- **NSF Certification:** Applies only to stainless steel products



COLORED HANDLES DESIGNATE BLIND RATINGS					
150#	RED	300#	BLUE	600#	YELLOW
900#	GREEN	1500#	WHITE	2500#	ORANGE

PADDLE BLINDS

Paddle Blinds are designed to safely isolate sections of a pipeline between two flanges, effectively blocking flow during maintenance or repair operations.

SPECTACLE BLINDS / FIGURE 8'S

Spectacle Blinds are typically installed permanently between two pipe flanges in a piping system. During normal operation, the open end functions as a spacer to allow flow. When isolation is needed, the blind is rotated into position between the flanges to block flow and safely isolate downstream piping and equipment.



PADDLE SPACER BLIND

A Paddle Spacer, shaped like the open half of a spectacle blind, is installed between two flanges to allow flow through the line. When flow needs to be blocked, it's swapped with a paddle blind (or spade). Only half the bolts need removal for this switch. Paddle Spacers are easily recognized by their distinctive "O"-shaped handles. Unlike full Spectacle Blinds, which can be bulky in larger sizes, Paddle Blinds and Spacers offer a more compact, convenient alternative.





LINE BLIND & SPACER DIMENSIONS WITH HYDRO TEST THICKNESS(THK) CHART

LINE SIZE (in.)	ISO.	150#			300#			600#			900#			1500#			2500#			
		THK	O.D.	I.D.	THK	O.D.	I.D.	THK	O.D.	I.D.	THK	O.D.	I.D.	THK	O.D.	I.D.	THK	O.D.	I.D.	THK
1/2	5/16	1-3/4	5/8	5/16	2	5/8	5/16	2	5/8	5/16	2-3/8	5/8	5/16	2-3/8	5/8	5/16	2-5/8	5/8	3/8	
3/4	5/16	2-1/8	7/8	5/16	2-1/2	7/8	5/16	2-1/2	7/8	5/16	2-5/8	7/8	5/16	2-5/8	7/8	3/8	2-7/8	7/8	3/8	
1	5/16	2-1/2	1-1/8	5/16	2-3/4	1-1/8	5/16	2-3/4	1	5/16	3	1	5/16	3	1	3/8	3-1/4	1	3/8	
1-1/4	5/16	2-7/8	1-5/8	5/16	3-1/8	1-5/8	5/16	3-1/8	1-3/8	3/8	3-3/8	1-3/8	3/8	3-3/8	1-3/8	3/8	4	1-3/8	1/2	
1-1/2	5/16	3-1/4	1-7/8	5/16	3-5/8	1-7/8	5/16	3-5/8	1-5/8	3/8	3-3/4	1-5/8	3/8	3-3/4	1-5/8	1/2	4-1/2	1-5/8	5/8	
2	5/16	4	2-3/8	5/16	4-1/4	2-3/8	3/8	4-1/4	2-1/8	3/8	5-1/2	2-1/8	1/2	5-1/2	2	1/2	5-5/8	2	5/8	
2-1/2	5/16	4-3/4	2-7/8	5/16	5	2-7/8	3/8	5	2-5/8	1/2	6-3/8	2-5/8	1/2	6-3/8	2-1/2	5/8	6-1/2	2-3/8	3/4	
3	5/16	5-1/4	3-1/2	5/16	5-3/4	3-1/2	3/8	5-3/4	3-1/4	1/2	6-1/2	3-1/4	5/8	6-3/4	3	3/4	7-5/8	3	7/8	
3-1/2	5/16	6-1/4	4	3/8	6-3/8	4	1/2	6-1/4	3-3/4	5/8										
4	5/16	6-3/4	4-1/2	3/8	7	4-1/2	1/2	7-1/2	4-1/4	5/8	8	4-1/4	3/4	8-1/8	4	7/8	9-1/8	4	1-1/8	
5	5/16	7-5/8	5-1/2	3/8	8-3/8	5-1/2	5/8	9-3/8	5-3/8	3/4	9-5/8	5-1/4	7/8	9-7/8	5	1-1/8	10-7/8	5	1-3/8	
6	5/16	8-5/8	6-5/8	1/2	9-3/4	6-5/8	5/8	10-3/8	6-3/8	7/8	11	6-3/8	1	11	6	1-3/8	12-3/8	6	1-5/8	
8	5/16	10-7/8	8-5/8	1/2	12	8-5/8	7/8	12-1/2	8-3/8	1-1/8	14	8-3/8	1-3/8	13-3/4	8	1-5/8	15-1/8	7-7/8	2-1/8	
10	5/16	13-1/4	10-3/4	5/8	14-1/8	10-3/4	1	15-5/8	10-3/8	1-3/8	17	10-3/8	1-5/8	17	10	2	18-5/8	9-3/4	2-5/8	
12	5/16	16	12-3/4	3/4	16-1/2	12-3/4	1-1/8	17-7/8	12-3/8	1-5/8	19-1/2	12-3/8	1-7/8	20-3/8	12	2-3/8	21-1/2	11-3/8	3-1/8	
14	5/16	17-5/8	14	3/4	19	14	1-1/4	19-1/4	13-5/8	1-3/4	20-3/8	13-5/8	2-1/8	22-5/8	13-1/8	2-5/8				
16	5/16	20-1/8	16	7/8	21-1/8	16	1-1/2	22-1/8	15-5/8	2	22-1/2	15-5/8	2-3/8	25-1/8	15	3				
18	5/16	21-1/2	18	1	23-3/8	18	1-5/8	24	17-5/8	2-1/8	25	17-5/8	2-5/8	27-5/8	16-7/8	3-3/8				
20	5/16	23-3/4	20	1-1/8	25-5/8	20	1-3/4	26-3/4	19-1/2	2-1/2	27-3/8	19-1/2	2-7/8	29-5/8	18-7/8	3-3/4				
22	5/16	25-7/8	22	1-1/4	27-5/8	22	1-7/8	28-3/4	21-1/2	2-3/4										
24	5/16	28-1/8	24	1-1/4	30-3/8	24	2	31	23-1/2	2-7/8	32-7/8	23-1/2	3-1/2	35-3/8	22-5/8	4-3/8				
MSS SP-44 SERIES "A" SPECS														METHODOLOGY						
26	5/16	30-3/8	26	1-5/8	32-3/4	26	2-1/2	34	26	3-1/2	34-5/8	26	4-3/8	Line sizes up to 96" are available. Standard Isolation thickness is 5/16" (+/-1/16). Any thickness rating or alloy is available upon request. Sizes and thicknesses meet the following specifications ASME 16.48, ASME 16.5, ASME B16.47 Blank thicknesses over 24 NPS were calculated using the equation for blanks in ASME B31.3 as follows: $T = d \sqrt{((3P) / (16SE))}$ d = I.D. of ring gasket (in.) T = Blank Thickness (in.) S = 23,300psi E = 1.00 P = Design Gauge Pressure psi. S (Basic Allowable Stress) and E (Quality Factor) values were determined from tables A1 and A1-A from B31.3 for 516-Gr 70 material with the temperature range of -20 to 100° Fahrenheit. This calculation does not take into consideration any required corrosion allowance if needed.						
28	5/16	32-5/8	28	1-3/4	35-1/4	28	2-3/4	35-7/8	28	3-3/4	37-1/8	28	4-5/8							
30	5/16	34-5/8	30	1-7/8	37-3/8	30	2-7/8	38-1/8	30	4-1/8	39-5/8	30	5							
32	5/16	36-7/8	32	2	39-1/2	32	3-1/8	40-1/8	32	4-3/8	42-1/8	32	5-3/8							
34	5/16	38-7/8	34	2-1/8	41-1/2	34	3-1/4	42-1/8	34	4-5/8	44-5/8	34	5-5/8							
36	5/16	41-1/8	36	2-1/4	43-7/8	36	3-1/2	44-3/8	36	4-7/8	47-1/8	36	6							
38	5/16	43-5/8	38	2-3/8	41-3/8	38	3-5/8	43-3/8	38	5-1/8	47-1/8	38	6-1/4							
40	5/16	45-5/8	40	2-1/2	43-3/4	40	3-7/8	45-3/8	40	5-3/8	49-1/8	40	6-5/8							
42	5/16	47-7/8	42	2-5/8	45-3/4	42	4	47-7/8	42	5-5/8	51-1/8	42	7							
44	5/16	50-1/8	44	2-3/4	47-7/8	44	4-1/4	49-7/8	44	6	53-3/4	44	7-1/4							
46	5/16	52-1/8	46	2-7/8	50	46	4-1/2	51-7/8	46	6-1/4	56-3/8	46	7-5/8							
48	5/16	54-3/8	48	3	52	48	4-5/8	54-5/8	48	6-1/2	58-3/8	48	8							
50	5/16	56-3/8	50	3-1/8	54-1/8	50	4-7/8	56-7/8	50	6-3/4										
52	5/16	58-5/8	52	3-1/4	56-1/8	52	5	58-7/8	52	7										
54	5/16	60-7/8	54	3-1/4	58-5/8	54	5-1/4	61-1/8	54	7-1/4										
56	5/16	63-1/8	56	3-3/8	60-5/8	56	5-3/8	63-3/8	56	7-1/2										
58	5/16	65-3/8	58	3-1/2	62-5/8	58	5-5/8	65-3/8	58	7-7/8										
60	5/16	67-3/8	60	3-5/8	64-5/8	60	5-3/4	68-1/8	60	8-1/8										
API-605 SERIES "B" SPECS														USA Industries Stainless Steel Paddle, Spectacle & Paddle Spacer Blinds Are Certified to NSF/ANSI/CAN 61  Certified to NSF/ANSI/CAN 61						
26	5/16	28-7/16	26	1-5/8	30-1/4	26	2-1/2	30	26	3-1/2	32-7/8	26	4-3/8							
28	5/16	30-7/16	28	1-3/4	32-3/8	28	2-3/4	32-1/8	28	3-3/4	35-3/8	28	4-5/8							
30	5/16	32-7/16	30	1-7/8	34-3/4	30	2-7/8	34-1/2	30	4-1/8	37-5/8	30	5							
32	5/16	34-9/16	32	2	36-7/8	32	3-1/8	36-5/8	32	4-3/8	39-7/8	32	5-3/8							
34	5/16	36-11/16	34	2-1/8	39	34	3-1/4	39-1/8	34	4-5/8	42-1/8	34	5-5/8							
36	5/16	38-3/4	36	2-1/4	41-1/8	36	3-1/2	41-1/8	36	4-7/8	44-1/8	36	6							
38	5/16	41	38	2-3/8	43-1/8	38	3-5/8													
40	5/16	43	40	2-1/2	45-1/8	40	3-7/8													
42	5/16	45	42	2-5/8	47-1/8	42	4													
44	5/16	47	44	2-3/4	49-1/8	44	4-1/4													
46	5/16	49-5/16	46	2-7/8	51-3/4	46	4-1/2													
48	5/16	51-5/16	48	3	53-3/4	48	4-5/8													
50	5/16	53-5/16	50	3-1/8	55-3/4	50	4-7/8													
52	5/16	55-5/16	52	3-1/4	57-3/4	52	5													
54	5/16	57-1/2	54	3-1/4	60-1/8	54	5-1/4													
56	5/16	59-1/2	56	3-3/8	62-5/8	56	5-3/8													
58	5/16	62-1/16	58	3-1/2	65-1/16	58	5-5/8													
60	5/16	64-1/16	60	3-5/8	67-1/16	60	5-3/4													



Certified to
NSF/ANSI/CAN 61