



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 to meet your specific needs.

Our blinds are manufactured and stocked in:

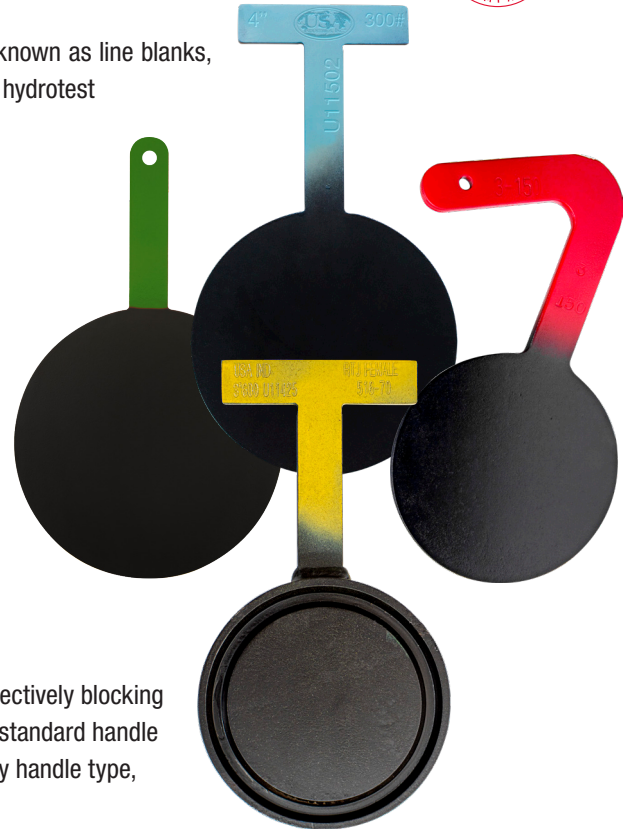
- Line sizes from 1/2" to 96"
- Flange ratings from 150# to 2500#
- Raised face, mill, or serrated finishes
- RTJ (Ring Type Joint), male or female, oval or octagonal configurations

Standard materials include SA516 Gr.70 carbon steel and 304 & 316 stainless steels. Additional alloys and pressure ratings are available upon request.

Whether for purchase or rental, each blind is precision-ground with a smooth edge finish, stamped, freshly painted, and color-coded for easy pressure rating identification. All products are manufactured in strict compliance with ASME B16.47 & B16.48 / ANSI B16.5 & B16.2 standards.

Paddle Blinds

Paddle Blinds are designed to safely isolate sections of a pipeline between two flanges, effectively blocking flow during maintenance or repair operations. USA Industries offers Paddle Blinds in three standard handle styles: "7", "T", and Straight. As a custom manufacturer, we can also produce blinds in any handle type, thickness, or alloy needed—based on your specifications and material availability.



COLORED HANDLES DESIGNATE BLIND RATINGS

| | | | | | |
|------|-------|-------|-------|-------|--------|
| 150# | RED | 300# | BLUE | 600# | YELLOW |
| 900# | GREEN | 1500# | WHITE | 2500# | ORANGE |

Spectacle Blind / Figure 8

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.



For more information on USA Industries products, contact us at (713) 941-3797 or go to www.USAIndustries.com



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 | 3/8 | 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 | <p>Line sizes up to 96" are available. Standard Isolation thickness is 5/16" (+/-1/16). Any thickness rating or alloy is available upon request.</p> <p>Sizes and thicknesses meet the following specifications ASME 16.48, ASME 16.5, ASME B16.47</p> <p>Blank thicknesses over 24 NPS were calculated using the equation for blanks in ASME B31.3 as follows:</p> <p>T=d√ ((3P) / (16SE))</p> <p>d = I.D. of ring gasket (in.)</p> <p>T = Blank Thickness (in.)</p> <p>S = 23,300psi</p> <p>E = 1.00</p> <p>P = Design Gauge Pressure psi.</p> <p>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.</p> | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | |

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