



Blinds & Flanges

from the National Leader of Piping Isolation & Testing Products



BLINDS:

- Paddle Blinds in Isolation & Hydrotest Thicknesses
- Spectacle Blinds
- Paddle Spacer Blinds
- Vented / Bleeder Blinds (EZ Vent®)
- Purge Blinds (EZ Purge®)
- Vent & Purge Blinds Combo (EZ Vent-Purge®)
- Bleed Rings
- PSV Slip Blinds (EZ Guillotine®)
- Blind Flanges

STOCKED:

- 516 - Gr70 & A105 Carbon Steels
- 304 & 316 Stainless Steels
- Series "A" & Series "B"
- 1/2" to 96" Line Sizes

RATINGS:

- 150#, 300#, 600#, 900#, 1500#, 2500#

CUSTOM:

- Any Thickness, Rating & Alloy Exactly to Your Specs

OFFERINGS:

- Largest Stocked Inventory
- MTR's Available
- Paddle Blinds & Blind Flanges produced in strict accordance with codes: ASME B16.48, ASME 16.47 (>24"), ASME B16.5, ASME B16.2
- Onsite Pick-up or Delivery
- Rent or Purchase Directly from OEM
- Manufactured in the U.S.A.
- 24/7, 365 Days A Year Availability

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- EZ-Lock Blind Rack®
- EZ Lock Blind Flange Rack®
- EZ Store Horizontal Stacking Blind Flange Rack™
- EZ Store Vertical Stacking Over-Sized Blind Racks™
- EZ Store Inventory Containers™



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info@USAIndustries.com
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PADDLE BLIND THICKNESS CHART

USA Industries is the leading provider of industrial piping isolation solutions.

24/7 - 365 days of the year availability, industry leading turnaround times, and the ability to customize any part to your needs makes us the ideal fit for your next project, no matter how big or small.

USA INDUSTRIES provides:

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- Tube Plugs
- Orifice Plates
- Tools for Heat Exchangers
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AVAILABLE 24/7, 365 DAYS A YEAR!

| LINE SIZE (in.) | 150# | | | 300# | | | 600# | | | 900# | | | 1500# | | | 2500# | | | | | | |
|-----------------|------|--------|--------|-------|--------|--------|-------|--------|--------|-------|--------|--------|-------|--------|--------|-------|--------|--------|-------|--------|--------|-------|
| | I.D. | O.D. | THK | I.D. | O.D. | THK | I.D. | O.D. | THK | I.D. | O.D. | THK | I.D. | O.D. | THK | I.D. | O.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 | 5/8 | 2-5/8 | 5/8 | 3/8 | | | |
| 3/4 | 5/16 | 2-1/2 | 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 | 3-1/4 | 2-7/8 | 7/8 | 3/8 | | | |
| 1 | 5/16 | 2-7/8 | 1-1/8 | 5/16 | 2-3/4 | 1-1/8 | 5/16 | 2-3/4 | 1-1/8 | 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 | 1-5/8 | 5/16 | 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 | 1-7/8 | 5/16 | 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 | 6-1/2 | 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 | 4-1/4 | 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 | 9-5/8 | 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 | 11-1/4 | 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 | 14 | 8-3/8 | 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 | 10-3/8 | 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 | 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 | 20-3/8 | 13-5/8 | 2-1/8 | 22-5/8 | 13-1/8 | 2-5/8 | 23-1/2 | 11-3/8 | 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 | 22-1/2 | 15-5/8 | 2-3/8 | 25-1/8 | 15 | 3 | 27-5/8 | 16-7/8 | 3-3/8 |
| 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 | 2-1/8 | 25 | 17-5/8 | 2-1/8 | 27-3/8 | 16-7/8 | 3-3/4 | 29-5/8 | 16-7/8 | 3-3/4 |
| 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 | 27-3/8 | 19-1/2 | 2-7/8 | 29-5/8 | 16-7/8 | 3-3/4 | 31-1/2 | 16-7/8 | 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 | 32-7/8 | 23-1/2 | 3-1/2 | 35-3/8 | 22-5/8 | 4-3/8 | | | |

MSS SP-44 SERIES "A" SPECS

| LINE SIZE (in.) | ISO | THK | I.D. | O.D. | THK | I.D. | O.D. | THK | I.D. | O.D. | THK | I.D. | O.D. | THK | I.D. | O.D. | THK | I.D. | O.D. | THK |
|-----------------|------|--------|------|-------|--------|------|-------|--------|------|-------|--------|------|-------|-----|------|------|-----|------|------|-----|
| 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 | | | | | | | |
| 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 | 2-1/4 | 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 | 52-1/8 | 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

| LINE SIZE (in.) | ISO | THK | I.D. | O.D. | THK | I.D. | O.D. | THK | I.D. | O.D. | THK | I.D. | O.D. | THK | I.D. | O.D. | THK | I.D. | O.D. | THK |
|-----------------|------|----------|------|-------|---------|------|-------|---------|------|-------|--------|------|-------|-----|------|------|-----|------|------|-----|
| 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 | 43-1/8 | 38 | 5-1/8 | 47-1/8 | 38 | 6-1/4 | | | | | | | |
| 40 | 5/16 | 43 | 40 | 2-1/2 | 45-1/8 | 40 | 3-7/8 | 45-1/8 | 40 | 5-3/8 | 49-1/8 | 40 | 6-5/8 | | | | | | | |
| 42 | 5/16 | 45 | 42 | 2-5/8 | 47-1/8 | 42 | 4 | 47-1/8 | 42 | 5-5/8 | 51-1/8 | 42 | 7 | | | | | | | |
| 44 | 5/16 | 47 | 44 | 2-3/4 | 49-1/8 | 44 | 4-1/4 | 49-1/8 | 44 | 6 | 53-3/4 | 44 | 7-1/4 | | | | | | | |
| 46 | 5/16 | 49-5/16 | 46 | 2-7/8 | 51-3/4 | 46 | 4-1/2 | 51-3/4 | 46 | 6-1/4 | 56-3/8 | 46 | 7-5/8 | | | | | | | |
| 48 | 5/16 | 51-5/16 | 48 | 3 | 53-3/4 | 48 | 4-5/8 | 53-3/4 | 48 | 6-1/2 | 58-3/8 | 48 | 8 | | | | | | | |
| 50 | 5/16 | 53-5/16 | 50 | 3-1/8 | 55-3/4 | 50 | 4-7/8 | 55-3/4 | 50 | 6-3/4 | | | | | | | | | | |
| 52 | 5/16 | 55-5/16 | 52 | 3-1/4 | 57-3/4 | 52 | 5 | 57-3/4 | 52 | 7 | | | | | | | | | | |
| 54 | 5/16 | 57-1/2 | 54 | 3-1/4 | 60-1/8 | 54 | 5-1/4 | 60-1/8 | 54 | 7-1/4 | | | | | | | | | | |
| 56 | 5/16 | 59-1/2 | 56 | 3-3/8 | 62-5/8 | 56 | 5-3/8 | 62-5/8 | 56 | 7-1/2 | | | | | | | | | | |
| 58 | 5/16 | 62-1/16 | 58 | 3-1/2 | 65-1/16 | 58 | 5-5/8 | 65-1/16 | 58 | 7-7/8 | | | | | | | | | | |
| 60 | 5/16 | 64-1/16 | 60 | 3-5/8 | 67-1/16 | 60 | 5-3/4 | 67-1/16 | 60 | 8-1/8 | | | | | | | | | | |

BLIND HANDLE COLORS

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

METHODOLOGY

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.