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## BLIND THICKNESS CHART

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Paddle Blind Dimensions with Hvdrottest Thickness Chart													
Line Size	Isolation Thickness	150#		300#		600#		900#		1500#		2500#	
		O.D. Thickness	O.D. Thickness	O.D. Thickness	O.D. Thickness	O.D. Thickness	O.D. Thickness	O.D. Thickness	O.D. Thickness	O.D. Thickness	O.D. Thickness		
1/2"	5/16"	1 3/4"	5/16"	2"	5/16"	2"	5/16"	2 3/8"	5/16"	2 3/8"	5/16"	2 5/8"	3/8"
3/4"	5/16"	2 1/8"	5/16"	2 1/2"	5/16"	2 1/2"	5/16"	2 5/8"	5/16"	2 5/8"	3/8"	2 7/8"	3/8"
1"	5/16"	2 1/2"	5/16"	2 3/4"	5/16"	2 3/4"	5/16"	3"	5/16"	3"	3/8"	3 1/4"	3/8"
1 1/4"	5/16"	2 7/8"	5/16"	3 1/8"	5/16"	3 1/8"	3/8"	3 3/8"	3/8"	3 3/8"	3/8"	4"	1/2"
1 1/2"	5/16"	3 1/4"	5/16"	3 5/8"	5/16"	3 5/8"	3/8"	3 3/4"	3/8"	3 3/4"	1/2"	4 1/2"	5/8"
2"	5/16"	4"	5/16"	4 1/4"	3/8"	4 1/4"	3/8"	5 1/2"	1/2"	5 1/2"	1/2"	5 5/8"	5/8"
2 1/2"	5/16"	4 3/4"	5/16"	5"	3/8"	5"	1/2"	6 3/8"	1/2"	6 3/8"	5/8"	6 1/2"	3/4"
3"	5/16"	5 1/4"	5/16"	5 3/4"	3/8"	5 3/4"	1/2"	6 1/2"	5/8"	6 3/4"	3/4"	7 5/8"	7/8"
3 1/2"	5/16"	6 1/4"	3/8"	6 3/8"	1/2"	6 1/4"	5/8"						
4"	5/16"	6 3/4"	3/8"	7"	1/2"	7 1/2"	5/8"	8"	3/4"	8 1/8"	7/8"	9 1/8"	1 1/8"
5"	5/16"	7 5/8"	3/8"	8 3/8"	5/8"	9 3/8"	3/4"	9 5/8"	7/8"	9 7/8"	1 1/8"	10 7/8"	1 3/8"
6"	5/16"	8 5/8"	1/2"	9 3/4"	5/8"	10 3/8"	7/8"	11 1/4"	1"	11"	1 3/8"	12 3/8"	1 5/8"
8"	5/16"	10 7/8"	1/2"	12"	7/8"	12 1/2"	1 1/8"	14"	1 3/8"	13 3/4"	1 5/8"	15 1/8"	2 1/8"
10"	5/16"	13 1/4"	5/8"	14 1/8"	1"	15 5/8"	1 3/8"	17"	1 5/8"	17"	2"	18 5/8"	2 5/8"
12"	5/16"	16"	3/4"	16 1/2"	1 1/8"	17 7/8"	1 5/8"	19 1/2"	1 7/8"	20 3/8"	2 3/8"	21 1/2"	3 1/8"
14"	5/16"	17 5/8"	3/4"	19"	1 1/4"	19 1/4"	1 3/4"	20 3/8"	2 1/8"	22 5/8"	2 5/8"		
16"	5/16"	20 1/8"	7/8"	21 1/8"	1 1/2"	22 1/8"	2"	22 1/2"	2 3/8"	25 1/8"	3"		
18"	5/16"	21 1/2"	1"	23 3/8"	1 5/8"	24"	2 1/8"	25"	2 5/8"	27 5/8"	3 3/8"		
20"	5/16"	23 3/4"	1 1/8"	25 5/8"	1 3/4"	26 3/4"	2 1/2"	27 3/8"	2 7/8"	29 5/8"	3 3/4"		
22"	5/16"	25 7/8"	1 1/4"	27 5/8"	1 7/8"	28 3/4"	2 3/4"						
24"	5/16"	28 1/8"	1 1/4"	30 3/8"	2"	31"	2 7/8"	32 7/8"	3 1/2"	35 3/8"	4 3/8"		
<b>MSS SP44 Series "A" Specs</b>													
26"	5/16"	30 3/8"	1 5/8"	32 3/4"	2 1/2"	34"	3 1/2"	34 5/8"	4 3/8"				
28"	5/16"	32 5/8"	1 3/4"	35 1/4"	2 3/4"	35 7/8"	3 3/4"	37 1/8"	4 5/8"				
30"	5/16"	34 5/8"	1 7/8"	37 3/8"	2 7/8"	38 1/8"	4 1/8"	39 5/8"	5"				
32"	5/16"	36 7/8"	2"	39 1/2"	3 1/8"	40 1/8"	4 3/8"	42 1/8"	5 3/8"				
34"	5/16"	38 7/8"	2 1/8"	41 1/2"	3 1/4"	42 1/8"	4 5/8"	44 5/8"	5 5/8"				
36"	5/16"	41 1/8"	2 1/4"	43 7/8"	3 1/2"	44 3/8"	4 7/8"	47 1/8"	6"				
38"	5/16"	43 5/8"	2 3/8"	41 3/8"	3 5/8"	43 3/8"	5 1/8"	47 1/8"	6 1/4"				
40"	5/16"	45 5/8"	2 1/2"	43 3/4"	3 7/8"	45 3/8"	5 3/8"	49 1/8"	6 5/8"				
42"	5/16"	47 7/8"	2 5/8"	45 3/4"	4"	47 7/8"	5 5/8"	51 1/8"	7"				
44"	5/16"	50 1/8"	2 3/4"	47 7/8"	4 1/4"	49 7/8"	6"	53 3/4"	7 1/4"				
46"	5/16"	52 1/8"	2 7/8"	50"	4 1/2"	52 1/8"	6 1/4"	56 3/8"	7 5/8"				
48"	5/16"	54 3/8"	3"	52"	4 5/8"	54 7/8"	6 1/2"	58 3/8"	8"				
<b>API-605 Series "B" Specs</b>													
26"	5/16"	28 7/16"	1 5/8"	30 1/4"	2 1/2"	30"	3 1/2"	32 7/8"	4 3/8"				
28"	5/16"	30 7/16"	1 3/4"	32 3/8"	2 3/4"	32 1/8"	3 3/4"	35 3/8"	4 5/8"				
30"	5/16"	32 7/16"	1 7/8"	34 3/4"	2 7/8"	34 1/2"	4 1/8"	37 5/8"	5"				
32"	5/16"	34 9/16"	2"	36 7/8"	3 1/8"	36 5/8"	4 3/8"	39 7/8"	5 3/8"				
34"	5/16"	36 11/16"	2 1/8"	39"	3 1/4"	39 1/8"	4 5/8"	42 1/8"	5 5/8"				
36"	5/16"	38 3/4"	2 1/4"	41 1/8"	3 1/2"	41 1/8"	4 7/8"	44 1/8"	6"				
38"	5/16"	41"	2 3/8"	43 1/8"	3 5/8"								
40"	5/16"	43"	2 1/2"	45 1/8"	3 7/8"								
42"	5/16"	45"	2 5/8"	47 1/8"	4"								
44"	5/16"	47"	2 3/4"	49 1/8"	4 1/4"								
46"	5/16"	49 5/16"	2 7/8"	51 3/4"	4 1/2"								
48"	5/16"	51 5/16"	3"	53 3/4"	4 5/8"								

### 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 (inches), T = Blank Thickness (inches), S = 23,300 psi, 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 degrees Fahrenheit. This calculation does not take into consideration any required corrosion allowance if needed.

All components supplied conform to ANSI, ASME, ASTM Standards for Dimensions.  
Manufactured under our ISO 9001:2008 Quality Assurance Program.



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BLIND HANDLE COLORS			
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1500#	White	2500#	Orange