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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
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"		
MSS SP44 Series "A" Specs													
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"				
API-605 Series "B" Specs													
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.

BLIND HANDLE COLORS

150#	Red	300#	Blue
600#	Yellow	900#	Green
1500#	White	2500#	Orange



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All components supplied conform to ANSI, ASME, ASTM Standards for Dimensions.

Manufactured under our ISO 9001:2008 Quality Assurance Program.

