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## Blind flange dimensions pdf

A typical drawing for Class 150 blind flange, ASME B16.5. Both machine bolt with nuts and stud bolt with nuts can be applied to 150# blind flange. NPSPDGMT/129034.960.39.6 3/410042.969.911.2 111050.879.412.7 1-1/411563.588.914.3 1-1/212573.098.415.9 215092.1120.717.5 2-1/2180104.8139.720.7 3190127.0152.422.3 3-1/2215139.7177.822.3 4230157.2190.522.3 5255185.7215.922.3 6280215.9241.323.9 8345269.9298.527.0 10405323.8362.028.6 12485381.0431.830.2 14535412.8476.333.4 16595469.9539.835.0 18635533.4577.938.1 20700584.2635.041.3 22750641.4692.244.5 24815692.2749.346.1 \*D: outside diameter of blind flange; K: diameter of bolt circle; G: outside diameter of raised face; T: minimum thickness of 150LB blind flange; All units are mm. NPSndLLMass 1/245/81/2550.42 3/445/81/2650.61 1/45/81/2650.86 1-1/445/81/2701.17 1-1/245/81/2701.53 243/45/8852.42 2-1/243/45/8903.94 343/45/8904.93 3-1/283/45/8906.17 483/45/8907.00 587/83/4958.63 687/83/410011.3 887/83/411019.6 101217/811528.8 121217/812043.2 14121-1/8113558.1 16161-1/8113576.9 18161-1/41-1/814593.7 20201-1/41-1/8160122 22201-3/81-1/4170... 24201-3/81-1/4170185 \*n: number of bolts; d: diameter of bolt holes; l: diameter of bolts; L: length of machine bolt or stud bolt; Mass: approximate weights/masses of the flange; For all blind flanges of class 150, t (height of raised face)=2mm. All units are mm except that d and l are provided in inch and mass in kg. ASME B16.5 Blind Flanges, Classes 150#300#400#600# 900#1500#2500#. \*Click to view the dimensions and weights of blind flanges of each pressure rating. Blinds are flanges without a center bore (hole or opening) and are available in both Raised Face (RF) and Flat Face (FF) styles. While most flange types create a connection point that allows the flow of liquid, gas, or air, blind flanges are used to seal the end of a piping system and prevent flow. Blind flanges may be used when testing pipe pressure, to create an access point in a piping system, to temporarily seal a piping system while modifying or repairing the line, or to create a long-term seal to terminate a piping system.A blind flange is bolted, rather than welded in place. This allows easier access as needed for pipe system upkeep, inspection, or to allow for future expansion. Pairing with a gasket creates a tight seal: The gasket fills the space between the flange faces, which prevents liquid or gas leaks. Download ArticleHow to Choose the Right Blind FlangeBlind pipe flanges may be produced to match bolt hole measurements for slip-on or weld neck flanges, or if needed, can be custom machined to any other specifications. Either way, when purchasing flanges, choose the appropriate flange features, material, dimensions, and class to meet your application needs.Find the Best Blind Flange Material for the JobWhen choosing blind flanges, you must consider the best flange material and dimensions in relation to the piping standards and requirements of your intended application. Generally, your flange material should match the connecting pipe material. The most common blind flange materials are steel and stainless steel.Steel is preferred for strength. API International stocks blind flanges in both forged and plate steel.Stainless steel flanges are also available in forged or plate varieties in 304L and 316L. Stainless steel flanges are often preferred for corrosion resistance.In many cases, import material is acceptable to save on cost - in these cases, the flanges will still meet all the standards for pressure applications. In instances where domestic flanges are specified, API International manufactures flanges meeting "Buy American" or meeting American Iron and Steel Institute (AISII) requirements.Choosing Blind Flange DimensionsBlind flanges are available in the same pressure classes and bolt hole patterns as other flange types, but they tend to be thicker. To determine the appropriate blind flange size, important measurements include the outer diameter (OD), bolt hole circle (BHC), bolt hole diameter, and thickness. While most flanges are round, square blind flanges may be used to close off hydraulic piping systems.Blind flange dimension requirements and materials specifications are designated under AWWA C207 and C228, and ASME B16.5 and B16.47. The general dimensions by blind flange type are included in the chart below, and you can refer to the tables on individual flange listings to determine more specific measurements-such as thickness-based on diameter and pressure rating.AWWA Blind Flange Dimensions by TypeBlind Flange StyleAvailable Size RangeB, D, E4" - 72"F, SF4" - 48"SA2" - 8"SB, SD, SE2" - 72"Note: AWWA recommends the use of Dish Assemblies for blind flange sizes above 72". Contact us for additional information.The larger the blind flange, the more stress the flange must withstand-mainly at the center of the flange-and too much pressure can cause damage. This is why you don't typically see large diameter blind flanges.ANSI Blind Flange Dimensions by ClassSpecClassAvailable Size RangeB16.51500.5" - 24"B16.53000.5" - 24"B16.4715026" - 60"B16.4730026" - 60"Flange Face and Thickness RequirementsBlind flanges are commonly available in Raised Face (RF) and Flat Face (FF) styles. When choosing blind flange thickness, refer to the standard measurements. The flange selected should be thick enough to withstand the pressure of the system, but not so thick that it is unnecessarily unwieldy—for the appropriate thickness, a common recommendation is to choose the minimum thickness that can handle the max pressure that your system could experience.Consider Class Rating and Flange StandardsTo choose the appropriate blind flange, consult the requirements set out by piping standards, including AWWA, ASME/ANSI, and ASTM. For example, ANSI-style blind flanges are available in both class 150 and 300, in dimensions between 2 inches to 72 inches to suit a range of applications.Class ratings provide details regarding what pressure and temperature conditions a flange will withstand. Generally, a flange with a higher class rating must be used for high-temperature applications since the higher temperature reduces the pressure capacity of the flange. Forged steel blind flanges are rated for use in high-pressure and high-temperature applications because the material is stronger than plate blind flanges, while other materials are rated for lower-pressure, cooler operating piping systems.If the options you require aren't available, our Custom Machining Shop can manufacture custom parts as well as modify stock items, so you can get exactly what you need. We also have our sales representative in Mumbai, Ahmedabad, Chennai, Delhi, Bangalore, Hyderabad, Kolkata, Surat, Pune, Nagpur, Indore, Thane, Bhopal, Visakhapatnam, Vadodra, Nashik, Faridabad, Rajkot, Aurangabad, Ranchi, Coimbatore, Rajpur, Mysore, Bhubaneswar, Salem, Bhilai, Bhiwandi, Bikaner, Mangalore, Kochi (Cochin), Bhavnagar, Tirupur, Ankleshwar, Assam, Siliquri, Tamil Nadu, Maharashtra, Jaipur, Jabalpur, Vishakapatnam, Sholapur, Davangere, New Delhi, Kakinada, Belagavi, Udaipur, Guwahati, Ludhiana Marcel Piping is a highly acclaimed Manufacturer of ASME/ANSI/DIN Spectacle Blind Flange Manufacturers in India.ASME B16.48 Spectacle blind, spades, and spacers which are also known as figure-8, paddle blank, Slip blind and spacer. Our offered Spectacle Blind Flange RF different components that used in piping for positive isolation of the section of a line or equipment during maintenance and shutdown. JIS Spectacle Blind flange also used during operation wherever positive shutoff is required to prevent leakage of one fluid into another.ASME B16.48 Spectacle Blind Flanges are used to provide flexibility during maintenance an operation. Marcel Piping is also supplier of Flat Face Spectacle Blind Flanges , manufactured at our facility to companies in various industries including power generation, petrochemical plants,pharmaceutical plants , shipbuilding, oil refineries, waste water treatment plants, paper mills and turnkey projects among others.Our Spectacle Blind Flange RF is widely exported to countries and regions such as the United States, Europe, Jordan, Russia, Turkey, Malaysia, the UAE, Sri Lanka, Saudi Arabia, Thailand, Iran, Brazil, Mexico, South Africa, Tunisia, Vietnam, Indonesia,Singapore, Colombia and Chile. Supplier of Spectacle Blind Flange UK, Spectacle Blind Flange Thickness, Spectacle Blind Flange Class 900, Spectacle Blind Flange Class 2500, Spectacle Blind Flange Material Spectacle Blind Flanges ASME, Spectacle Blind Flange Weight Chart, Spectacle Blind Flange ANSI, Spectacle Blind flange singapore, Spectacle Blind flange supplier in malaysia ANSI/ASME B16.48 Spectacle Blind Flange Specification Dimensions ANSI B16.5, ANSI B16.47 Series A & B, MSS SP44, ASA, API-605, AWWA, Custom Drawings Size 1/2" (15 NB) to 48" (1200NB) Class 150 LBS, 300 LBS, 600 LBS, 900 LBS, 1500 LBS, 2500 LBS, DIN Standard ND-6,10, 16, 25, 40 Etc. DIN DIN2527, DIN2566, DIN2573, DIN2576, DIN2642, DIN2642, DIN2655, DIN2656, DIN2627, DIN2628, DIN2629, DIN 2631, DIN2632, DIN2633, DIN2634, DIN2635, DIN2636,DIN2637, DIN2638, DIN2673 BS BS4504, BS4504, BS1560, BS10 Coating/Surface Treatment Antirust Paint, Oil Black Paint, Yellow Transparent, Zinc Plated, Cold and Hot Dip Galvanized Flange Face Type Plate Face (FF), Raised Face (RF), Ring Type Joint (RTJ) Value Added Services CNC Machining, Customised Flanges ANSI B16.5 Spectacle Blind Flange Material Specification Stainless Steel Spectacle Blind Flanges : ASTM A 182, A 240 F 304, 304L, 304H, 316, 316L, 316Ti, 310, 310S, 321, 321H, 317, 347, 347H, 904L Duplex & Super Duplex Steel Spectacle Blind Pipe Flanges : ASTM / ASME A/SA 182 F 44, F 45, F51, F 53, F 55, F 60, F 61 Carbon Steel Spectacle Blind Flanges : ASTM / ASME A/SA 105 ASTM / ASME A 350 , ASTM A 181 LF 2 / A516 Gr.70 A36, A694 F42, F46, F52, F60, F65, F706 Low Temperature Carbon Steel Spectacle Blind Flanges : ASTM A350, LF2, LF3 Alloy Steel Spectacle Blind Flanges : ASTM / ASME A/SA 182 & A 387 F1, F5, F9, F11, F12, F22, F91 Copper Alloy Steel Spectacle Blind Flanges : ASTM SB 61, SB62 , SB151 , SB152 UNS No. C 70600 (Cu-Ni 90/10), C 71500 (Cu-Ni 70/30), UNS No. C 10100, 10200, 10300, 10800, 12000, 12200 Nickel Alloy Spectacle Blind Pipe Flanges : ASTM SB564, SB160, SB472, SB162 Nickel 200 (UNS No. N02200), Nickel 201 (UNS No. N02201), Monel 400 (UNS No. N04400), Monel 500 (UNS No. N05500), Inconel 800 (UNS No. N08800), Inconel 825 (UNS No. N08825), Inconel 690 (UNS No. N06690), Inconel 625 (UNS No. N06625), Hastelloy C 276 (UNS No. N10276), Alloy 20 (UNS No. N08020) ANSI/ASME B16.48 SPECTACLE BLIND FLANGE DIMENSIONS, SPECTACLE BLIND FLANGE SIZE SPECTACLE BLIND FLANGE WEIGHT CHART Class 150 Spectacle Blind Flange Dimensions Size in Inch Size in MM Internal Dia. Outer Dia. Center to Center Thick. Web Width Web Thick. Hole Dia Spec. Blind Weight in Kg Paddle Blank Weight in kg 1/2 15 16 45 60 3 38 2 15.875 0.07 0.03 0.03 3/4 20 21 54 70 3 38 2 15.875 0.1 0.05 0.04 1 25 27 64 80 3 38 2 15.875 0.14 0.07 0.06 1 1/4 32 42 72 90 6.4 38 4 15.875 0.35 0.21 0.14 1 1/2 40 48 83 100 6.4 38 4 15.875 0.46 0.27 0.18 2 50 61 102 120 6.4 51 4 19.05 0.68 0.41 0.26 2 1/2 65 73 107 140 6.4 51 4 19.05 0.7 0.46 0.24 3 80 89 133 150 6.4 64 4 19.05 1.1 0.71 0.39 3 1/2 90 102 159 175 9.7 64 5 19.05 2.44 1.54 0.9 4 100 114 172 190 9.7 64 5 19.05 2.81 1.8 1.01 5 130 141 194 215 9.7 76 5 22.225 3.37 2.29 1.08 6 150 168 219 240 12.7 76 7 22.225 5.39 3.82 1.57 8 200 219 276 300 12.7 76 10 22.225 8.32 6.07 2.25 10 250 273 337 360 15.7 102 12 25.4 15.04 11.19 3.84 12 300 324 406 430 19.1 102 15 25.4 26.95 19.77 7.18 14 350 356 448 475 19.1 108 15 28.575 32.94 24.07 8.87 16 400 406 511 540 22.4 108 17 28.575 50.27 36.73 13.54 18 450 457 546 580 25.4 114 20 31.75 61.79 47.55 14.23 20 500 508 603 635 28.4 121 22 31.75 83.67 64.85 18.82 24 600 610 714 750 31.8 140 24 34.925 129.3 101.8 27.49 Class 300 Spectacle blind Flange Dimesions Size in Inch Size in MM Internal Dia. Outer Dia. Center to Center Thick. Web Width Web Thick. Hole Dia Spec. Blind Weight in Kg Paddle Blank Weight in kg 1/2 15 16 51 65 6.4 38 4 15.875 0.19 0.1 0.09 3/4 20 21 64 80 6.4 38 4 19.05 0.31 0.16 0.14 1 25 27 70 90 6.4 38 4 19.05 0.36 0.19 0.16 1 1/4 32 42 79 100 6.4 38 4 19.05 0.43 0.25 0.17 1 1/2 40 48 92 115 6.4 38 4 22.225 0.58 0.34 0.24 2 50 61 108 125 9.7 51 5 19.05 1.19 0.71 0.48 2 1/2 65 73 127 150 9.7 51 5 22.225 1.64 0.98 0.65 3 80 89 146 170 9.7 64 5 22.225 2.11 1.29 0.81 3 1/2 90 102 162 185 12.7 64 7 22.225 3.35 2.09 1.26 4 100 114 178 200 12.7 64 7 22.225 4.01 2.52 1.49 5 130 141 213 235 15.7 76 8 22.225 6.98 4.47 2.51 6 150 168 248 270 15.7 76 8 22.225 9.34 6.06 3.28 8 200 219 305 330 22.4 76 17 25.4 19.42 13.08 6.33 10 250 273 359 385 25.4 102 20 28.575 29.22 20.55 8.66 12 300 324 419 450 28.4 102 22 31.75 43.9 31.31 12.58 14 350 356 483 515 31.8 108 24 31.75 67.86 46.58 21.27 16 400 406 536 570 38.1 108 29 34.925 98.04 68.74 29.3 18 450 457 594 630 41.1 114 31 34.925 128.23 91.06 37.16 20 500 508 651 685 44.5 121 34 34.925 164.75 118.43 46.31 24 600 610 772 810 50.8 140 39 41.275 261.55 190.13 71.42 Class 600 Spectacle blind Flange Dimesions Size in Inch Size in MM Internal Dia. Outer Dia. Center to Center Thick. Web Width Web Thick. Hole Dia Spec. Blind Weight in Kg Paddle Blank Weight in kg 1/2 15 16 51 65 6.4 38 4 15.875 0.19 0.1 0.09 3/4 20 21 64 80 6.4 38 4 19.05 0.31 0.16 0.14 1 25 27 70 90 6.4 38 4 19.05 0.36 0.19 0.16 1 1/4 32 37 79 100 9.7 57 5 19.05 0.67 0.38 0.29 1 1/2 40 43 92 115 9.7 67 5 22.225 0.91 0.51 0.4 2 50 55 108 125 9.7 57 5 19.05 1.23 0.71 0.52 2 1/2 65 67 127 150 12.7 67 7 22.225 2.85 1.7 1.15 3 1/2 90 96 159 185 15.7 76 8 25.4 4.07 2.49 1.58 4 100 108 191 215 15.7 76 8 25.4 6.04 3.59 2.44 5 130 135 238 265 19.1 86 10 28.575 11.4 6.79 4.6 6 150 162 264 290 22.4 86 12 28.575 15.91 9.8 6.11 8 200 212 318 350 28.4 95 22 31.75 28.05 18.03 10.01 10 250 265 397 430 35.1 105 27 34.925 54 34.74 19.26 12 300 315 454 490 41.1 105 31 34.925 80.78 53.2 27.58 14 350 346 489 525 44.5 114 34 38.1 100.19 66.82 33.36 16 400 397 562 605 50.8 124 39 41.275 151.24 100.76 50.48 18 450 448 610 655 53.8 133 41 44.45 183.62 125.71 57.9 20 500 497 679 725 63.5 133 48 44.45 269.2 183.85 85.35 24 600 597 787 840 73.2 152 55 50.8 405.6 284.76 120.88 Class 900 Spectacle blind Flange Dimensions Size in Inch Size in MM Internal Dia. Outer Dia. Center to Center Thick. Web Width Web Thick. Hole Dia Spec. Blind Weight in Kg Paddle Blank Weight in kg 1/2 15 16 60 80 6.4 38 4 22.225 0.27 0.14 0.13 3/4 20 21 67 90 6.4 41 4 22.225 0.34 0.18 0.16 1 25 27 76 100 6.4 57 4 25.4 0.43 0.23 0.2 1 1/4 32 37 86 110 9.7 57 5 25.4 0.81 0.45 0.36 1 1/2 40 43 95 125 9.7 67 5 28.575 0.98 0.54 0.43 2 50 55 140 165 12.7 57 7 25.4 2.88 1.56 1.32 2 1/2 65 67 162 190 12.7 67 7 28.575 3.82 2.09 1.73 3 80 83 165 190 15.7 67 8 25.4 4.68 2.68 2 4 100 108 203 235 19.1 76 10 31.75 8.48 4.94 3.54 5 130 135 244 280 22.4 86 12 34.925 14.18 8.37 5.81 6 150 162 286 320 25.4 86 13 31.75 21.9 13.04 8.86 8 200 212 356 395 35.1 95 27 38.1 45.96 27.93 18.02 10 250 265 432 470 41.1 105 31 38.1 78.21 48.16 30.04 12 300 315 495 535 47.8 105 36 38.1 117.31 73.55 43.76 14 350 346 518 560 53.8 114 41 41.275 140.86 90.65 50.2 16 400 397 572 615 60.5 124 46 44.45 188.73 124.31 64.42 18 450 448 635 685 66.5 133 50 50.8 252.97 168.39 84.57 20 500 497 696 750 73.2 133 55 53.975 331.81 222.68 109.13 24 600 597 835 900 88.9 152 67 66.675 579.52 389.25 190.27 Class 1500 Spectacle blind Flange Dimesions Size in Inch Size in MM Internal Dia. Outer Dia. Center to Center Thick. Web Width Web Thick. Hole Dia Spec. 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Blind Weight in Kg Paddle Blank Weight in kg 1/2 15 16 61 80 6.4 38 4 22.225 0.28 0.14 0.13 3/4 20 21 67 90 9.7 41 5 22.225 0.52 0.27 0.24 1 25 27 76 100 9.7 64 5 25.4 0.65 0.35 0.3 1 1/4 32 35 86 110 9.7 64 5 25.4 0.82 0.45 0.37 1 1/2 40 41 95 125 12.7 70 7 28.575 1.3 0.71 0.58 2 50 53 140 165 12.7 70 7 25.4 2.9 1.56 1.33 2 1/2 65 63 162 190 15.7 76 8 28.575 4.78 2.58 2.19 3 80 78 172 205 19.1 76 10 31.75 6.36 3.54 2.81 4 100 102 206 240 22.4 89 12 34.925 10.47 5.96 4.5 5 130 128 251 290 28.4 89 15 41.275 19.55 11.23 8.31 6 150 154 279 320 35.1 89 18 38.1 29.08 17.15 11.93 8 200 203 349 395 41.1 102 31 44.45 52.23 31.43 20.8 10 250 255 432 480 50.8 114 39 50.8 98.33 59.53 38.79 12 300 303 518 570 60.5 114 46 53.975 169.01 101.94 67.06 14 350 333 575 635 66.5 127 50 60.325 229.84 138.07 91.76 16 400 381 638 705 76.2 133 58 66.675 320.1 194.78 125.32 18 450 429 702 775 85.9 146 65 73.025 432.4 265.84 166.56 20 500 478 752 830 95.3 152 72 79.375 540.14 338.44 201.7 24 600 575 899 990 111.3 178 84 92.075 898.71 564.9 333.8 Class 2500 Spectacle blind Flange Dimesions Size in Inch Size in MM Internal Dia. Outer Dia. Center to Center Thick. Web Width Web Thick. Hole Dia Spec. Blind Weight in Kg Paddle Blank Weight in kg 1/2 15 16 61 80 6.4 38 4 22.225 0.28 0.14 0.13 3/4 20 21 67 90 9.7 41 5 22.225 0.52 0.27 0.24 1 25 27 76 100 9.7 64 5 25.4 0.65 0.35 0.3 1 1/4 32 35 86 110 9.7 64 5 25.4 0.82 0.45 0.37 1 1/2 40 41 95 125 12.7 70 7 28.575 1.3 0.71 0.58 2 50 53 140 165 12.7 70 7 25.4 2.9 1.56

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