

**MHF CO.****Class 150# Steel Pipe Flanges ASME B16.5**

| Pipe Size | Number of Bolts | Diameter of Bolts | Length of Stud   |            | Raised Face .06" |
|-----------|-----------------|-------------------|------------------|------------|------------------|
|           |                 |                   | Raised Face .06" | Ring Joint |                  |
| 1/2       | 4               | 1/2               | 2 1/4            | -          | 2                |
| 3/4       | 4               | 1/2               | 2 1/2            | -          | 2 1/4            |
| 1         | 4               | 1/2               | 2 1/2            | 3          | 2 1/4            |
| 1 1/4     | 4               | 1/2               | 2 3/4            | 3 1/4      | 2 1/2            |
| 1 1/2     | 4               | 1/2               | 2 3/4            | 3 1/4      | 2 1/2            |
| 2         | 4               | 5/8               | 3 1/4            | 3 3/4      | 2 3/4            |
| 2 1/2     | 4               | 5/8               | 3 1/2            | 4          | 3                |
| 3         | 4               | 5/8               | 3 1/2            | 4          | 3 1/4            |
| 3 1/2     | 8               | 5/8               | 3 1/2            | 4          | 3 1/4            |
| 4         | 8               | 5/8               | 3 1/2            | 4          | 3 1/4            |
| 5         | 8               | 3/4               | 3 3/4            | 4 1/4      | 3 1/4            |
| 6         | 8               | 3/4               | 4                | 4 1/2      | 3 1/2            |
| 8         | 8               | 3/4               | 4 1/4            | 4 3/4      | 3 3/4            |
| 10        | 12              | 7/8               | 4 1/2            | 5          | 4 1/4            |
| 12        | 12              | 7/8               | 4 3/4            | 5 1/4      | 4 1/4            |
| 14        | 12              | 1                 | 5 1/4            | 5 3/4      | 4 1/2            |
| 16        | 16              | 1                 | 5 1/4            | 5 3/4      | 4 3/4            |
| 18        | 16              | 1 1/8             | 5 3/4            | 6 1/4      | 5                |
| 20        | 20              | 1 1/8             | 6 1/4            | 6 3/4      | 5 1/2            |
| 24        | 20              | 1 1/4             | 6 3/4            | 7 1/4      | 6                |

These are approximate industry standards which can vary by flange manufacturer  
Please confirm all bolt kit sizes with your flange/valve manufacturer.

**MHF CO.****Class 300# Steel Pipe Flanges ASME B16.5**

| Pipe Size | Number of Bolts | Diameter of Bolts | Length of Stud   |            | Raised Face .06" | Length of Machine Bolts |                  |
|-----------|-----------------|-------------------|------------------|------------|------------------|-------------------------|------------------|
|           |                 |                   | Raised Face .06" | Ring Joint |                  |                         | Raised Face .06" |
| 1/2       | 4               | 1/2               | 2 1/2            | 3          |                  |                         | 2 1/4            |
| 3/4       | 4               | 5/8               | 3                | 3.5        |                  |                         | 2 1/2            |
| 1         | 4               | 5/8               | 3                | 3 1/2      |                  |                         | 2 3/4            |
| 1 1/4     | 4               | 5/8               | 3 1/4            | 3 3/4      |                  |                         | 2 3/4            |
| 1 1/2     | 4               | 3/4               | 3 1/2            | 4          |                  |                         | 3                |
| 2         | 8               | 5/8               | 3 1/2            | 4          |                  |                         | 3                |
| 2 1/2     | 8               | 3/4               | 4                | 4 1/2      |                  |                         | 3 1/2            |
| 3         | 8               | 3/4               | 4 1/4            | 4 3/4      |                  |                         | 3 3/4            |
| 3 1/2     | 8               | 3/4               | 4 1/4            | 5          |                  |                         | 3 3/4            |
| 4         | 8               | 3/4               | 4 1/2            | 5          |                  |                         | 4                |
| 5         | 8               | 3/4               | 4 3/4            | 5 1/4      |                  |                         | 4 1/4            |
| 6         | 12              | 3/4               | 4 3/4            | 5 1/2      |                  |                         | 4 1/4            |
| 8         | 12              | 7/8               | 5 1/2            | 6          |                  |                         | 4 3/4            |
| 10        | 16              | 1                 | 6 1/4            | 6 3/4      |                  |                         | 5 1/2            |
| 12        | 16              | 1 1/8             | 6 3/4            | 7 1/4      |                  |                         | 6                |
| 14        | 20              | 1 1/8             | 7                | 7 1/2      |                  |                         | 6 1/4            |
| 16        | 20              | 1 1/4             | 7 1/2            | 8          |                  |                         | 6 1/2            |
| 18        | 24              | 1 1/4             | 7 3/4            | 8 1/4      |                  |                         | 6 3/4            |
| 20        | 24              | 1 1/4             | 8                | 8 3/4      |                  |                         | 7 1/4            |
| 24        | 24              | 1 1/2             | 9                | 10         |                  |                         | 8                |

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**MHF CO.****Class 600# Steel Pipe Flanges ASME B16.5**

| Pipe Size | Number of Bolts | Diameter of Bolts | Length of Stud   |            |
|-----------|-----------------|-------------------|------------------|------------|
|           |                 |                   | Raised Face .06" | Ring Joint |
| 1/2       | 4               | 1/2               | 3                | 3          |
| 3/4       | 4               | 5/8               | 3 1/2            | 3 1/2      |
| 1         | 4               | 5/8               | 3 1/2            | 3 1/2      |
| 1 1/4     | 4               | 5/8               | 3 3/4            | 3 3/4      |
| 1 1/2     | 4               | 3/4               | 4 1/4            | 4 1/4      |
| 2         | 8               | 5/8               | 4 1/4            | 4 1/4      |
| 2 1/2     | 8               | 3/4               | 4 3/4            | 4 3/4      |
| 3         | 8               | 3/4               | 5                | 5          |
| 3 1/2     | 8               | 7/8               | 5 1/2            | 5 1/2      |
| 4         | 8               | 7/8               | 5 3/4            | 5 3/4      |
| 5         | 8               | 1                 | 6 1/2            | 6 1/2      |
| 6         | 12              | 1                 | 6 3/4            | 6 3/4      |
| 8         | 12              | 1 1/8             | 7 1/2            | 7 3/4      |
| 10        | 16              | 1 1/4             | 8 1/2            | 8 1/2      |
| 12        | 20              | 1 1/4             | 8 3/4            | 8 3/4      |
| 14        | 20              | 1 3/8             | 9 1/4            | 9 1/4      |
| 16        | 20              | 1 1/2             | 10               | 10         |
| 18        | 20              | 1 5/8             | 10 3/4           | 10 3/4     |
| 20        | 24              | 1 5/8             | 11 1/4           | 11 1/2     |
| 24        | 24              | 1 7/8             | 13               | 13 1/4     |

These are approximate industry standards which can vary by flange manufacturer  
Please confirm all bolt kit sizes with your flange/valve manufacturer.