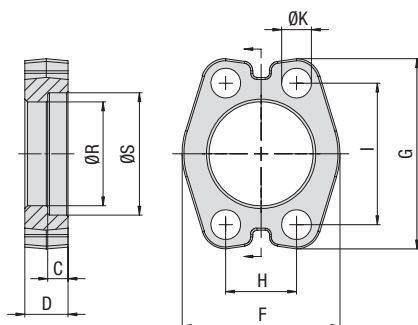


## SAE Flange Clamp (Flat Style) Type BM-FL ▪ 3000 / 6000 PSI Series



### 3000 PSI Standard Pressure Series (according to ISO 6162-1:2012)

| Nominal Size |       | PN <sup>1</sup><br>(bar/PSI) | Dimensions<br>(mm/in) |       |     |     |       |      |      |       |                 |        | Weight<br>(kg/lbs) ca.<br>per 100 | for Bolts |                     | Ordering Codes  |
|--------------|-------|------------------------------|-----------------------|-------|-----|-----|-------|------|------|-------|-----------------|--------|-----------------------------------|-----------|---------------------|-----------------|
| DN           | (in)  | 10.9                         | ØR                    | ØS    | C   | D   | F     | G    | H    | I     | ØK <sup>2</sup> |        |                                   | Metric    | UNC                 |                 |
| 13           | 1/2   | 350                          | 24,3                  | 31    | 6,2 | 13  | 45,6  | 54   | 17,5 | 38,1  | 8,7             | 11,4   |                                   | M8x25     | 5/16-18 UNC x 1-1/4 | BM-FL-301-W66   |
|              |       | 5075                         | .96                   | 1.22  | .24 | .51 | 1.80  | 2.13 | .69  | 1.50  | .34             | 25.08  |                                   |           |                     |                 |
| 19           | 3/4   | 350                          | 32,2                  | 38,9  | 6,2 | 14  | 51,8  | 65   | 22,3 | 47,6  | 10,5            | 15,0   |                                   | M10x30    | 3/8-16 UNC x 1-1/4  | BM-FL-302-W66   |
|              |       | 5075                         | 1.27                  | 1.53  | .24 | .55 | 2.04  | 2.56 | .88  | 1.87  | .41             | 33.00  |                                   |           |                     |                 |
| 25           | 1     | 345                          | 38,5                  | 45,3  | 7,5 | 16  | 58,4  | 70   | 26,2 | 52,4  | 10,5            | 19,2   |                                   | M10x30    | 3/8-16 UNC x 1-1/4  | BM-FL-303-W66   |
|              |       | 5003                         | 1.52                  | 1.78  | .30 | .63 | 2.30  | 2.76 | 1.03 | 2.06  | .41             | 42.24  |                                   |           |                     |                 |
| 32           | 1-1/4 | 280                          | 43,7                  | 51,6  | 7,5 | 14  | 73,2  | 79   | 30,2 | 58,7  | 10,5            | 25,7   |                                   | M10x35    |                     | BM-FL-304-M-W66 |
|              |       | 4061                         | 1.72                  | 2.03  | .30 | .55 | 2.88  | 3.11 | 1.19 | 2.31  | .41             | 56.54  |                                   |           |                     |                 |
| 38           | 1-1/2 | 210                          | 50,8                  | 61,1  | 7,5 | 16  | 82,2  | 94   | 35,7 | 69,9  | 13,5            | 39,1   |                                   | M12x35    | 1/2-13 UNC x 1-1/2  | BM-FL-305-W66   |
|              |       | 3045                         | 2.00                  | 2.41  | .30 | .63 | 3.24  | 3.70 | 1.41 | 2.75  | .53             | 86.02  |                                   |           |                     |                 |
| 51           | 2     | 210                          | 62,8                  | 72,3  | 9   | 16  | 96,4  | 102  | 42,9 | 77,8  | 13,5            | 47,3   |                                   | M12x35    | 1/2-13 UNC x 1-1/2  | BM-FL-306-W66   |
|              |       | 3045                         | 2.47                  | 2.85  | .35 | .63 | 3.80  | 4.02 | 1.69 | 3.06  | .53             | 104.06 |                                   |           |                     |                 |
| 64           | 2-1/2 | 175                          | 74,9                  | 84,9  | 9   | 19  | 106   | 115  | 50,8 | 88,9  | 13,5            | 63,6   |                                   | M12x40    | 1/2-13 UNC x 1-1/2  | BM-FL-307-W66   |
|              |       | 2538                         | 2.95                  | 3.34  | .35 | .75 | 4.17  | 4.53 | 2.00 | 3.50  | .53             | 139.92 |                                   |           |                     |                 |
| 76           | 3     | 160                          | 90,9                  | 102,4 | 9   | 22  | 128,6 | 135  | 61,9 | 106,4 | 17              | 104,9  |                                   | M16x50    | 5/8-11 UNC x 2      | BM-FL-308-W66   |
|              |       | 2320                         | 3.58                  | 4.03  | .35 | .87 | 5.06  | 5.31 | 2.44 | 4.19  | .67             | 230.78 |                                   |           |                     |                 |

## 500 bar / 7251 PSI

### 6000 PSI High Pressure Series (according to ISO 6162-2:2012)

| Nominal Size |       | PN <sup>1</sup><br>(bar/PSI) | Dimensions<br>(mm/in) |       |     |      |       |      |      |       |                 |        | Weight<br>(kg/lbs) ca.<br>per 100 | for Bolts |                     | Ordering Codes               |
|--------------|-------|------------------------------|-----------------------|-------|-----|------|-------|------|------|-------|-----------------|--------|-----------------------------------|-----------|---------------------|------------------------------|
| DN           | (in)  | 10.9                         | ØR                    | ØS    | C   | D    | F     | G    | H    | I     | ØK <sup>2</sup> |        |                                   | Metric    | UNC                 |                              |
| 13           | 1/2   | 500                          | 24,6                  | 32,5  | 7,2 | 16   | 47,2  | 56   | 18,2 | 40,5  | 8,7             | 15,0   |                                   | M8x30     | 5/16-18 UNC x 1-1/4 | BM-FL-601-W66                |
|              |       | 7251                         | .97                   | 1.28  | .28 | .63  | 1.86  | 2.20 | .72  | 1.59  | .34             | 33.00  |                                   |           |                     |                              |
| 19           | 3/4   | 500                          | 32,5                  | 42    | 8   | 20   | 60    | 71   | 23,8 | 50,8  | 10,5            | 30,1   |                                   | M10x35    | 3/8-16 UNC x 1-1/2  | BM-FL-602-W66                |
|              |       | 7251                         | 1.28                  | 1.65  | .31 | .79  | 2.36  | 2.80 | .94  | 2.00  | .41             | 66.22  |                                   |           |                     |                              |
| 25           | 1     | 500                          | 38,8                  | 48,4  | 9   | 25   | 69,6  | 81   | 27,8 | 57,2  | 13              | 49,0   |                                   | M12x45    |                     | BM-FL-603-M-W66              |
|              |       | 7251                         | 1.53                  | 1.91  | .35 | .98  | 2.74  | 3.19 | 1.09 | 2.25  | .51             | 107.80 |                                   |           |                     |                              |
| 32           | 1-1/4 | 500                          | 44,5                  | 54,8  | 9,8 | 27   | 77,2  | 95   | 31,8 | 66,6  | 15              | 71,5   |                                   | M14x45    |                     | BM-FL-604-M14-W66            |
|              |       | 7251                         | 1.75                  | 2.16  | .39 | 1.06 | 3.04  | 3.74 | 1.25 | 2.62  | .59             | 157.30 |                                   |           |                     |                              |
| 38           | 1-1/2 | 500                          | 51,6                  | 64,3  | 12  | 30   | 89,4  | 113  | 36,5 | 79,3  | 17              | 118,9  |                                   | M16x55    | 5/8-11 UNC x 2-1/4  | BM-FL-605-W66                |
|              |       | 7251                         | 2.03                  | 2.53  | .47 | 1.18 | 3.52  | 4.45 | 1.44 | 3.12  | .67             | 261.58 |                                   |           |                     |                              |
| 51           | 2     | 500                          | 67,6                  | 80,2  | 12  | 37   | 113,4 | 133  | 44,5 | 96,8  | 21              | 187,4  |                                   | M20x70    | 3/4-10 UNC x 2-3/4  | BM-FL-606-W66                |
|              |       | 7251                         | 2.66                  | 3.16  | .47 | 1.46 | 4.46  | 5.24 | 1.75 | 3.81  | .83             | 412.28 |                                   |           |                     |                              |
| 64           | 2-1/2 | 500                          | 89,5                  | 108,5 | 20  | 48   | 150   | 166  | 58,7 | 123,8 | 25              | 187,4  |                                   | M24x80    |                     | BM-FL-607-M-W66 <sup>3</sup> |
|              |       | 7251                         | 3.52                  | 4.27  | .79 | 1.89 | 5.91  | 6.54 | 2.31 | 4.87  | .98             | 412.28 |                                   |           |                     |                              |
| 76           | 3     | 500                          | 114,5                 | 132,5 | 25  | 58   | 178   | 210  | 71,4 | 152,4 | 32              | 392,0  |                                   | M30x90    |                     | BM-FL-608-M-W66 <sup>3</sup> |
|              |       | 7251                         | 4.51                  | 5.22  | .98 | 2.28 | 7.01  | 8.27 | 2.81 | 6.00  | 1.26            | 862.40 |                                   |           |                     |                              |

<sup>1</sup> The maximum working pressure PN (bar/PSI) applies only to the flange itself and depends on the bolts used (Grade 10.9). The actual maximum working pressure depends on the thickness and the quality of the tube used.

<sup>2</sup> Dimensions of screw holes in part different to the ISO to match both Metric and UNC bolts.

<sup>3</sup> Made of steel C45 or equivalent, zinc-plated and thick-film-passivated.

### Materials / Ordering Options / Examples

- ★ Flange Clamp (Flat Style) made of Steel C55 or equivalent, zinc-plated and thick-film-passivated

BM-FL-...-W66

- ★ Kit including Metric bolts 10.9, spring rings, O-ring made of NBR (Buna-N®)
- ★ Kit including Metric bolts 10.9, spring rings, O-ring made of FKM (Viton®)

BM-FL-...-M-B-W130-K  
BM-FL-...-M-V-W130-K

- ★ Kit including UNC bolts (Grade 8), spring rings, O-ring made of NBR (Buna-N®)

BM-FL-...-U-B-W129-K