

# Table de conversion

## M&C Pression

| psi | bar    | psi | bar   | psi  | bar   |
|-----|--------|-----|-------|------|-------|
| 1   | 0,0689 | 77  | 5,31  | 430  | 29,63 |
| 2   | 0,14   | 78  | 5,37  | 440  | 30,32 |
| 3   | 0,21   | 79  | 5,44  | 450  | 31,00 |
| 4   | 0,28   | 80  | 5,51  | 460  | 31,69 |
| 5   | 0,35   | 81  | 5,58  | 470  | 32,38 |
| 6   | 0,42   | 82  | 5,65  | 480  | 33,07 |
| 7   | 0,49   | 83  | 5,72  | 490  | 33,76 |
| 8   | 0,55   | 84  | 5,79  | 500  | 34,45 |
| 9   | 0,62   | 85  | 5,86  | 510  | 35,14 |
| 10  | 0,69   | 86  | 5,93  | 520  | 35,83 |
| 11  | 0,76   | 87  | 5,99  | 530  | 36,52 |
| 12  | 0,83   | 88  | 6,06  | 540  | 37,21 |
| 13  | 0,90   | 89  | 6,13  | 550  | 37,90 |
| 14  | 0,97   | 90  | 6,20  | 560  | 38,58 |
| 15  | 1,04   | 91  | 6,27  | 570  | 39,27 |
| 16  | 1,10   | 92  | 6,34  | 580  | 39,96 |
| 17  | 1,17   | 93  | 6,41  | 590  | 40,65 |
| 18  | 1,24   | 94  | 6,48  | 600  | 41,34 |
| 19  | 1,31   | 95  | 6,55  | 610  | 42,03 |
| 20  | 1,38   | 96  | 6,61  | 620  | 42,72 |
| 21  | 1,45   | 97  | 6,68  | 630  | 43,41 |
| 22  | 1,52   | 98  | 6,75  | 640  | 44,10 |
| 23  | 1,59   | 99  | 6,82  | 650  | 44,79 |
| 24  | 1,65   | 100 | 6,89  | 660  | 45,47 |
| 25  | 1,72   | 105 | 7,23  | 670  | 46,16 |
| 26  | 1,79   | 110 | 7,58  | 680  | 46,85 |
| 27  | 1,86   | 115 | 7,92  | 690  | 47,54 |
| 28  | 1,93   | 120 | 8,27  | 700  | 48,23 |
| 29  | 2,00   | 125 | 8,61  | 710  | 48,92 |
| 30  | 2,07   | 130 | 8,96  | 720  | 49,61 |
| 31  | 2,14   | 135 | 9,30  | 730  | 50,30 |
| 32  | 2,20   | 140 | 9,65  | 740  | 50,99 |
| 33  | 2,27   | 145 | 9,99  | 750  | 51,68 |
| 34  | 2,34   | 150 | 10,34 | 760  | 52,36 |
| 35  | 2,41   | 155 | 10,68 | 770  | 53,05 |
| 36  | 2,48   | 160 | 11,02 | 780  | 53,74 |
| 37  | 2,55   | 165 | 11,37 | 790  | 54,43 |
| 38  | 2,62   | 170 | 11,71 | 800  | 55,12 |
| 39  | 2,69   | 175 | 12,06 | 810  | 55,91 |
| 40  | 2,76   | 180 | 12,40 | 820  | 56,50 |
| 41  | 2,82   | 185 | 12,75 | 830  | 57,19 |
| 42  | 2,89   | 190 | 13,09 | 840  | 57,88 |
| 43  | 2,96   | 195 | 13,44 | 850  | 58,57 |
| 44  | 3,03   | 200 | 13,78 | 860  | 59,25 |
| 45  | 3,10   | 205 | 14,12 | 870  | 59,94 |
| 46  | 3,17   | 210 | 14,47 | 880  | 60,63 |
| 47  | 3,24   | 215 | 14,81 | 890  | 61,32 |
| 48  | 3,31   | 220 | 15,16 | 900  | 62,01 |
| 49  | 3,38   | 225 | 15,50 | 910  | 62,70 |
| 50  | 3,45   | 230 | 15,85 | 920  | 63,39 |
| 51  | 3,51   | 235 | 16,19 | 930  | 64,08 |
| 52  | 3,58   | 240 | 16,54 | 940  | 64,77 |
| 53  | 3,65   | 245 | 16,88 | 950  | 65,46 |
| 54  | 3,72   | 250 | 17,22 | 960  | 66,14 |
| 55  | 3,79   | 255 | 17,57 | 970  | 66,83 |
| 56  | 3,86   | 260 | 17,91 | 980  | 67,52 |
| 57  | 3,93   | 265 | 18,26 | 990  | 68,21 |
| 58  | 4,00   | 270 | 18,60 | 1000 | 68,90 |
| 59  | 4,07   | 275 | 18,95 | 1010 | 69,59 |
| 60  | 4,13   | 280 | 19,29 | 1020 | 70,28 |
| 61  | 4,20   | 285 | 19,64 | 1030 | 70,97 |
| 62  | 4,27   | 290 | 19,98 | 1040 | 71,66 |
| 63  | 4,34   | 295 | 20,33 | 1050 | 72,35 |
| 64  | 4,41   | 300 | 20,67 | 1060 | 73,03 |
| 65  | 4,48   | 310 | 21,36 | 1070 | 73,72 |
| 66  | 4,55   | 320 | 22,05 | 1080 | 74,41 |
| 67  | 4,62   | 330 | 22,74 | 1090 | 75,10 |
| 68  | 4,69   | 340 | 23,43 | 1100 | 75,79 |
| 69  | 4,75   | 350 | 24,12 | 1120 | 77,17 |
| 70  | 4,82   | 360 | 24,80 | 1140 | 78,55 |
| 71  | 4,89   | 370 | 25,49 | 1160 | 79,92 |
| 72  | 4,96   | 380 | 26,18 | 1180 | 81,30 |
| 73  | 5,03   | 390 | 26,87 | 1200 | 82,68 |
| 74  | 5,10   | 400 | 27,56 | 1220 | 84,06 |
| 75  | 5,17   | 410 | 28,25 | 1240 | 85,44 |
| 76  | 5,24   | 420 | 28,94 | 1260 | 86,81 |

## M&C Temperature

| °C   | °F     | °C  | °F    | °C   | °F   |
|------|--------|-----|-------|------|------|
| -100 | -148,0 | 60  | 140,0 | 400  | 752  |
| -90  | -130,0 | 61  | 141,8 | 410  | 770  |
| -80  | -112,0 | 62  | 143,6 | 420  | 788  |
| -70  | -94,0  | 63  | 145,4 | 430  | 806  |
| -60  | -76,0  | 64  | 147,2 | 440  | 824  |
| -50  | -58,0  | 65  | 149,0 | 450  | 842  |
| -40  | -40,0  | 66  | 150,8 | 460  | 860  |
| -30  | -22,0  | 67  | 152,6 | 470  | 878  |
| -20  | -4,0   | 68  | 154,4 | 480  | 896  |
| -10  | 14,0   | 69  | 156,2 | 490  | 914  |
| 0    | 32,0   | 70  | 158,0 | 500  | 932  |
| 1    | 33,8   | 71  | 159,8 | 510  | 950  |
| 2    | 35,6   | 72  | 161,6 | 520  | 968  |
| 3    | 37,4   | 73  | 163,4 | 530  | 986  |
| 4    | 39,2   | 74  | 165,2 | 540  | 1004 |
| 5    | 41,0   | 75  | 167,0 | 550  | 1022 |
| 6    | 42,8   | 76  | 168,8 | 560  | 1040 |
| 7    | 44,6   | 77  | 170,6 | 570  | 1058 |
| 8    | 46,4   | 78  | 172,4 | 580  | 1076 |
| 9    | 48,2   | 79  | 174,2 | 590  | 1094 |
| 10   | 50,0   | 80  | 176,0 | 600  | 1112 |
| 11   | 51,8   | 81  | 177,8 | 610  | 1130 |
| 12   | 53,6   | 82  | 179,6 | 620  | 1148 |
| 13   | 55,4   | 83  | 181,4 | 630  | 1166 |
| 14   | 57,2   | 84  | 183,2 | 640  | 1184 |
| 15   | 59,0   | 85  | 185,0 | 650  | 1202 |
| 16   | 60,8   | 86  | 186,8 | 660  | 1220 |
| 17   | 62,6   | 87  | 188,6 | 670  | 1238 |
| 18   | 64,4   | 88  | 190,4 | 680  | 1256 |
| 19   | 66,2   | 89  | 192,2 | 690  | 1274 |
| 20   | 68,0   | 90  | 194,0 | 700  | 1292 |
| 21   | 69,8   | 91  | 195,8 | 710  | 1310 |
| 22   | 71,6   | 92  | 197,6 | 720  | 1328 |
| 23   | 73,4   | 93  | 199,4 | 730  | 1346 |
| 24   | 75,2   | 94  | 201,2 | 740  | 1364 |
| 25   | 77,0   | 95  | 203,0 | 750  | 1382 |
| 26   | 78,8   | 96  | 204,8 | 760  | 1400 |
| 27   | 80,6   | 97  | 206,6 | 770  | 1418 |
| 28   | 82,4   | 98  | 208,4 | 780  | 1436 |
| 29   | 84,2   | 99  | 210,2 | 790  | 1454 |
| 30   | 86,0   | 100 | 212,0 | 800  | 1472 |
| 31   | 87,8   | 110 | 230,0 | 810  | 1490 |
| 32   | 89,6   | 120 | 248,0 | 820  | 1508 |
| 33   | 91,4   | 130 | 266,0 | 830  | 1526 |
| 34   | 93,2   | 140 | 284,0 | 840  | 1544 |
| 35   | 95,0   | 150 | 302,0 | 850  | 1562 |
| 36   | 96,8   | 160 | 320,0 | 860  | 1580 |
| 37   | 98,6   | 170 | 338,0 | 870  | 1598 |
| 38   | 100,4  | 180 | 356,0 | 880  | 1616 |
| 39   | 102,2  | 190 | 374,0 | 890  | 1634 |
| 40   | 104,0  | 200 | 392,0 | 900  | 1652 |
| 41   | 105,8  | 210 | 410,0 | 910  | 1670 |
| 42   | 107,6  | 220 | 428,0 | 920  | 1688 |
| 43   | 109,4  | 230 | 446,0 | 930  | 1706 |
| 44   | 111,2  | 240 | 464,0 | 940  | 1724 |
| 45   | 113,0  | 250 | 482,0 | 950  | 1742 |
| 46   | 114,8  | 260 | 500,0 | 960  | 1760 |
| 47   | 116,6  | 270 | 518,0 | 970  | 1778 |
| 48   | 118,4  | 280 | 536,0 | 980  | 1796 |
| 49   | 120,2  | 290 | 554,0 | 990  | 1814 |
| 50   | 122,0  | 300 | 572,0 | 1000 | 1832 |
| 51   | 123,8  | 310 | 590,0 | 1020 | 1868 |
| 52   | 125,6  | 320 | 608,0 | 1050 | 1922 |
| 53   | 127,4  | 330 | 626,0 | 1100 | 2012 |
| 54   | 129,2  | 340 | 644,0 | 1150 | 2102 |
| 55   | 131,0  | 350 | 662,0 | 1200 | 2192 |
| 56   | 132,8  | 360 | 680,0 | 1250 | 2282 |
| 57   | 134,6  | 370 | 698,0 | 1300 | 2372 |
| 58   | 136,4  | 380 | 716,0 | 1350 | 2462 |
| 59   | 138,2  | 390 | 734,0 | 1400 | 2552 |

Temperatur en Celsius,  $t^{\circ}\text{C}=5/9 (t^{\circ}\text{F}-32)$   
 Temperatur en Fahrenheit,  $t^{\circ}\text{F}=9/5 t^{\circ}\text{C} + 32$   
 Temperatur en Kelvin,  $T_K=t^{\circ}\text{C} + 273,15$

## M&C Longueur

| Pouce | Pouce | Millimeter |
|-------|-------|------------|
| 1/64  | 0,016 | 0,397      |
| 1/32  | 0,031 | 0,794      |
| 3/64  | 0,047 | 1,191      |
| 1/16  | 0,063 | 1,588      |
| 5/64  | 0,078 | 1,984      |
| 3/32  | 0,094 | 2,381      |
| 7/64  | 0,109 | 2,778      |
| 1/8   | 0,125 | 3,175      |
| 9/64  | 0,141 | 3,572      |
| 5/32  | 0,156 | 3,969      |
| 11/64 | 0,172 | 4,366      |
| 3/16  | 0,188 | 4,763      |
| 13/64 | 0,203 | 5,159      |
| 7/32  | 0,219 | 5,556      |
| 15/64 | 0,234 | 5,953      |
| 1/4   | 0,250 | 6,350      |
| 17/64 | 0,266 | 6,747      |
| 9/32  | 0,281 | 7,144      |
| 19/64 | 0,297 | 7,541      |
| 5/16  | 0,313 | 7,938      |
| 21/64 | 0,328 | 8,334      |
| 11/32 | 0,344 | 8,731      |
| 23/64 | 0,359 | 9,128      |
| 3/8   | 0,375 | 9,525      |
| 25/64 | 0,391 | 9,922      |
| 13/32 | 0,406 | 10,319     |
| 27/64 | 0,422 | 10,716     |
| 7/16  | 0,438 | 11,113     |
| 29/64 | 0,453 | 11,509     |
| 15/32 | 0,469 | 11,906     |
| 31/64 | 0,484 | 12,303     |
| 1/2   | 0,500 | 12,7       |
| 33/64 | 0,516 | 13,097     |
| 17/32 | 0,531 | 13,494     |
| 35/64 | 0,547 | 13,891     |
| 9/16  | 0,563 | 14,288     |
| 37/64 | 0,578 | 14,684     |
| 19/32 | 0,594 | 15,081     |
| 39/64 | 0,609 | 15,478     |
| 5/8   | 0,625 | 15,875     |
| 41/64 | 0,641 | 16,272     |
| 21/32 | 0,656 | 16,669     |
| 43/64 | 0,672 | 17,066     |
| 11/16 | 0,688 | 17,463     |
| 45/64 | 0,703 | 17,859     |
| 23/32 | 0,719 | 18,256     |
| 47/64 | 0,734 | 18,653     |
| 3/4   | 0,750 | 19,050     |
| 49/64 | 0,766 | 19,447     |
| 25/32 | 0,781 | 19,844     |
| 51/64 | 0,797 | 20,241     |
| 13/16 | 0,813 | 20,638     |
| 53/64 | 0,828 | 21,034     |
| 27/32 | 0,844 | 21,431     |
| 55/64 | 0,859 | 21,828     |
| 7/8   | 0,875 | 22,225     |
| 57/64 | 0,891 | 22,622     |
| 29/32 | 0,906 | 23,019     |
| 59/64 | 0,922 | 23,416     |
| 15/16 | 0,938 | 23,813     |
| 61/64 | 0,953 | 24,209     |
| 31/32 | 0,969 | 24,606     |
| 63/64 | 0,984 | 25,003     |
| 1     | 1,000 | 25,400     |

1"=25,4 mm  
 0,03937"=1,0 mm  
 1 foot=304,8 mm

**Facteurs de conversion:**

Conversion de ↓ en →

| → Longueur        |                      |        |                       |                      |                  |                       |
|-------------------|----------------------|--------|-----------------------|----------------------|------------------|-----------------------|
| ↓                 | cm                   | m      | km                    | inch, in. (pouce)    | foot, ft. (pied) | statute mile          |
| cm                | 1                    | 0,01   | 1x10 <sup>-5</sup>    | 0,3937               | 0,03281          | 6,21x10 <sup>-6</sup> |
| m                 | 100                  | 1      | 0,001                 | 39,37                | 3,281            | 6,21x10 <sup>-4</sup> |
| km                | 1x10 <sup>5</sup>    | 1000   | 1                     | 3,94x10 <sup>4</sup> | 3281             | 0,6214                |
| inch, in. (pouce) | 2,540                | 0,0254 | 2,54x10 <sup>-5</sup> | 1                    | 0,08333          | 1,58x10 <sup>-5</sup> |
| foot, ft. (pied)  | 30,48                | 0,3048 | 3,05x10 <sup>-4</sup> | 12                   | 1                | 1,89x10 <sup>-4</sup> |
| statute mile      | 1,61x10 <sup>5</sup> | 1609   | 1,609                 | 6,34x10              | 5280             | 1                     |

| → Surface                      |                       |                       |                        |                                       |                                       |                        |
|--------------------------------|-----------------------|-----------------------|------------------------|---------------------------------------|---------------------------------------|------------------------|
| ↓                              | cm <sup>2</sup>       | m <sup>2</sup>        | km <sup>2</sup>        | in <sup>2</sup> (pouce <sup>2</sup> ) | ft. <sup>2</sup> (pied <sup>2</sup> ) | mile <sup>2</sup>      |
| cm <sup>2</sup>                | 1                     | 0,0001                | 1x10 <sup>-10</sup>    | 0,155                                 | 0,00108                               | 3,86x10 <sup>-11</sup> |
| m <sup>2</sup>                 | 1x10 <sup>4</sup>     | 1                     | 1x10 <sup>-6</sup>     | 1550                                  | 10,76                                 | 3,86x10 <sup>-7</sup>  |
| km <sup>2</sup>                | 1x10 <sup>10</sup>    | 1x10 <sup>6</sup>     | 1                      | 1,55x10 <sup>9</sup>                  | 1,08x10 <sup>7</sup>                  | 0,3861                 |
| square inch, in. <sup>2</sup>  | 6,452                 | 6,45x10 <sup>-4</sup> | 6,45x10 <sup>-10</sup> | 1                                     | 0,00694                               | 2,49x10 <sup>-10</sup> |
| square foot, ft. <sup>2</sup>  | 929,0                 | 0,0929                | 9,29x10 <sup>-8</sup>  | 144                                   | 1                                     | 3,59x10 <sup>-8</sup>  |
| square mile, mile <sup>2</sup> | 2,59x10 <sup>10</sup> | 2,59x10 <sup>6</sup>  | 2,590                  | 4,01x10 <sup>9</sup>                  | 2,79x10 <sup>7</sup>                  | 1                      |

| → Volume                    |                      |                         |                       |   |  |                       |
|-----------------------------|----------------------|-------------------------|-----------------------|---|--|-----------------------|
| ↓                           | cm <sup>3</sup> , ml | dm <sup>3</sup> , liter | m <sup>3</sup>        | inch <sup>3</sup> (pouce <sup>3</sup> ) | foot <sup>3</sup> (pied <sup>3</sup> ) | US gallon, gal        |
| cm <sup>3</sup> , ml        | 1                    | 0,001                   | 1x10 <sup>-6</sup>    | 0,06102                                 | 3,53x10 <sup>-5</sup>                  | 2,64x10 <sup>-4</sup> |
| dm <sup>3</sup> , liter     | 1000                 | 1                       | 0,001                 | 61,02                                   | 0,03532                                | 0,2642                |
| m <sup>3</sup>              | 1x10 <sup>6</sup>    | 1000                    | 1                     | 6,10x10 <sup>4</sup>                    | 35,31                                  | 264,2                 |
| cubic inch, in <sup>3</sup> | 16,39                | 0,01639                 | 1,64x10 <sup>-5</sup> | 1                                       | 5,79x10 <sup>-4</sup>                  | 0,00433               |
| cubic foot, ft <sup>3</sup> | 2,83x10 <sup>4</sup> | 28,32                   | 0,02832               | 1728                                    | 1                                      | 7,481                 |
| US gallon, gal              | 3785                 | 3,785                   | 0,00379               | 231                                     | 0,1337                                 | 1                     |

| → Débit                          |         |        |        |                    |                     |                       |
|----------------------------------|---------|--------|--------|--------------------|---------------------|-----------------------|
| ↓                                | l/s     | l/min  | l/h    | US gallon, gal/min | ft. <sup>3</sup> /s | ft. <sup>3</sup> /min |
| l/s                              | 1       | 60     | 3600   | 15,85              | 0,03532             | 2,119                 |
| l/min                            | 0,01667 | 1      | 60     | 0,264              | 0,005887            | 0,03532               |
| l/h                              | 0,00028 | 0,0169 | 1      | 0,0044             | 0,0000981           | 0,0005887             |
| US gallon, gal/min               | 0,06309 | 3,7854 | 227,1  | 1                  | 0,00223             | 0,1337                |
| cubic foot/s, ft <sup>3</sup> /s | 28,314  | 1698,8 | 101928 | 448,8              | 1                   | 60                    |
| ft <sup>3</sup> /min             | 0,4719  | 28,314 | 1698,8 | 7,48               | 0,01667             | 1                     |

| → Taux de fluage |           |       |              |                 |
|------------------|-----------|-------|--------------|-----------------|
| ↓                | m/s       | km/h  | pied/s, ft/s | mile/heure, mph |
| m/s              | 1         | 3,6   | 3,28         | 2,2374          |
| km/h             | 0,0002778 | 1     | 0,9107       | 0,6215          |
| pied/s, ft/s     | 0,3048    | 1,098 | 1            | 0,6824          |
| mile/h, mph      | 0,44695   | 1,609 | 1,4664       | 1               |

| → Pression            |          |           |                       |                     |                     |                      |            |                          |                          |
|-----------------------|----------|-----------|-----------------------|---------------------|---------------------|----------------------|------------|--------------------------|--------------------------|
| ↓                     | mm Hg    | inch Hg   | inch H <sub>2</sub> O | ft H <sub>2</sub> O | lb/in. <sup>2</sup> | Pa, N/m <sup>2</sup> | bar        | at                       | atm                      |
| mm Hg                 | 1        | 0,03937   | 0,5353                | 0,0446              | 0,01934             | 133,32               | 0,00133322 | 0,1359                   | 0,00132                  |
| inch Hg               | 25,40    | 1         | 13,60                 | 1,133               | 0,4912              | 3386,39              | 0,0338639  | 0,034531                 | 0,03342                  |
| inch H <sub>2</sub> O | 1,868    | 0,07355   | 1                     | 0,08333             | 0,03613             | 249,1                | 0,002491   | 0,2539                   | 0,00246                  |
| ft H <sub>2</sub> O   | 22,42    | 0,8826    | 12                    | 1                   | 0,4335              | 2989,1               | 0,029891   | 0,0304801                | 0,02950                  |
| lb/in. <sup>2</sup>   | 51,71    | 2,036     | 27,67                 | 2,31                | 1                   | 6896,55              | 0,068965   | 0,070308                 | 0,06806                  |
| Pa, N/m <sup>2</sup>  | 0,007501 | 0,0002953 | 0,004015              | 0,0003346           | 0,000145            | 1                    | 0,00001    | 1,01972x10 <sup>-5</sup> | 0,98692x10 <sup>-5</sup> |
| bar                   | 750      | 29,53     | 401,45                | 33,46               | 14,503              | 100000               | 1          | 1,01972                  | 0,98692                  |
| at                    | 735,56   | 28,96     | 393,86                | 32,81               | 14,223              | 98066,5              | 0,980665   | 1                        | 0,96784                  |
| atm                   | 760      | 29,92     | 406,80                | 33,90               | 14,696              | 101325               | 1,01325    | 1,033227                 | 1                        |

| → Poids   |        |         |          |           |
|-----------|--------|---------|----------|-----------|
| ↓         | g      | kg      | once, oz | livre, lb |
| g         | 1      | 0,001   | 0,0353   | 0,002205  |
| kg        | 1000   | 1       | 35,2734  | 2,2046    |
| once, oz  | 28,35  | 0,02835 | 1        | 0,0625    |
| pound, lb | 453,59 | 0,45359 | 16       | 1         |

| → Energie |                          |                          |                         |                          |
|-----------|--------------------------|--------------------------|-------------------------|--------------------------|
| ↓         | Joule, J                 | Kilowatt-heure, kWh      | Kilocalorie, kcal       | Btu                      |
| Joule, J  | 1                        | 2,7778x10 <sup>-7</sup>  | 2,3885x10 <sup>-4</sup> | 9,47817x10 <sup>-4</sup> |
| kWh       | 3,6x10 <sup>6</sup>      | 1                        | 859,845                 | 3,41214x10 <sup>3</sup>  |
| kcal      | 4,1868x10 <sup>3</sup>   | 1,163x10 <sup>-3</sup>   | 1                       | 3,96832                  |
| Btu       | 1,055056x10 <sup>3</sup> | 2,93071x10 <sup>-4</sup> | 0,251996                | 1                        |