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# TABLAS DE CONVERSION
# SISTEMA INTERNACIONAL DE UNIDADES ( SI)

## LONGITUD

mm----pulgadas
1mm = 0.03937 pulgadas
Ejemplo: 683,7 mm = 26,9167

| mm | 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
|---|---|---|---|---|---|---|---|---|---|---|
| | pulgadas | | | | | | | | | |
| **0** | - | 0.0039 | 0.0079 | 0.0118 | 0.0157 | 0.0197 | 0.0236 | 0.0276 | 0.0315 | 0.0354 |
| **1** | 0.0394 | 0.0433 | 0.0472 | 0.0512 | 0.0551 | 0.0591 | 0.0630 | 0.0669 | 0.0709 | 0.0748 |
| **2** | 0.0787 | 0.0827 | 0.0866 | 0.0906 | 0.0945 | 0.0984 | 0.1024 | 0.1068 | 0.1102 | 0.1142 |
| **3** | 0.1181 | 0.1220 | 0.1260 | 0.1299 | 0.1339 | 0.1378 | 0.1417 | 0.1457 | 0.1496 | 0.1535 |
| **4** | 0.1575 | 0.1614 | 0.1654 | 0.1693 | 0.1732 | 0.1772 | 0.1811 | 0.1850 | 0.1890 | 0.1929 |
| **5** | 0.1969 | 0.2008 | 0.2047 | 0.2087 | 0.2126 | 0.2165 | 0.2205 | 0.2244 | 0.2283 | 0.2323 |
| **6** | 0.2362 | 0.2402 | 0.2441 | 0.2480 | 0.2520 | 0.2559 | 0.2598 | 0.2630 | 0.2677 | 0.2717 |
| **7** | 0.2756 | 0.2795 | 0.2835 | 0.2874 | 0.2913 | 0.2953 | 0.2992 | 0.3031 | 0.3071 | 0.311 |
| **8** | 0.3151 | 0.3189 | 0.3228 | 0.3268 | 0.3307 | 0.3346 | 0.3386 | 0.3425 | 0.3465 | 0.3504 |
| **9** | 0.3543 | 0.3583 | 0.3622 | 0.3661 | 0.3701 | 0.3740 | 0.3780 | 0.3819 | 0.3858 | 0.3898 |

| mm | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 |
|---|---|---|---|---|---|---|---|---|---|---|
| | pulgadas | | | | | | | | | |
| **0** | - | 0.394 | 0.787 | 1.181 | 1.575 | 1.969 | 2.362 | 2.756 | 3.151 | 3.543 |
| **100** | 3.940 | 4.334 | 4.727 | 5.121 | 5.515 | 5.909 | 6.302 | 6.696 | 7.091 | 7.483 |
| **200** | 7.870 | 8.264 | 8.657 | 9.051 | 9.445 | 9.839 | 10.232 | 10.626 | 11.021 | 11.413 |
| **300** | 11.810 | 12.204 | 12.597 | 12.991 | 13.385 | 13.779 | 14.172 | 14.566 | 14.961 | 15.353 |
| **400** | 15.750 | 16.144 | 16.537 | 16.931 | 17.325 | 17.719 | 18.112 | 18.506 | 18.901 | 19.293 |
| **500** | 1.690 | 20.084 | 20.477 | 20.871 | 21.265 | 21.659 | 22.052 | 22.446 | 22.841 | 23.233 |
| **600** | 23.620 | 24.014 | 24.407 | 24.801 | 25.195 | 25.589 | 25.982 | 26.376 | 26.771 | 27.163 |
| **700** | 27.560 | 27.954 | 28.347 | 28.741 | 29.135 | 29.529 | 29.922 | 30.316 | 30.711 | 31.103 |
| **800** | 31.500 | 31.894 | 32.287 | 32.681 | 33.075 | 33.469 | 33.862 | 34.256 | 34.651 | 35.043 |
| **900** | 35.430 | 35.824 | 36.217 | 36.611 | 37.005 | 37.399 | 37.792 | 38.186 | 38.581 | 38.973 |

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## PRESION

bar > Pa > psi(libras/pulgada cuadrada)
1 bar = 100.00 Pa = 100 k Pa = 14,5 psi
1 Pa = 0,00001 bar = 0,000145 psi
1 psi = 0,069 bar = 6897,8 Pa

| bar | Kpa* | psi |
|---|---|---|
| 0.0005 | 0.05 | 0.0073 |
| 0.001 | 0.10 | 0.0145 |
| 0.005 | 0.5 | 0.0725 |
| 0.01 | 1 | 0.145 |
| 0.05 | 5 | 0.725 |
| 0.069 | 6.9 | 1.000 |
| 0.1 | 10 | 1.450 |
| 0.25 | 25 | 3.625 |
| 0.5 | 50 | 7.250 |
| 0.75 | 75 | 10.875 |
| 1.0 | 100 | 14.500 |
| 1.5 | 150 | 21.750 |
| 2.0 | 200 | 29.000 |
| 2.5 | 250 | 36.250 |
| 3.0 | 300 | 43.500 |
| 3.5 | 350 | 50.750 |
| 4.0 | 400 | 58.000 |
| 4.5 | 450 | 65.250 |
| 5.0 | 500 | 72.500 |
| 5.5 | 550 | 79.750 |
| 6.0 | 600 | 87.000 |
| 7.0 | 700 | 101.500 |
| 8.0 | 800 | 116.000 |
| 9.0 | 900 | 130.500 |
| 10.0 | 1000 | 145.000 |
| 12.0 | 1200 | 174.000 |
| 14.0 | 1400 | 203.000 |
| 16.0 | 1600 | 232.000 |
| 18.0 | 1800 | 261.000 |
| 20.0 | 2000 | 290.000 |

| psi | Kpa* | bar |
|---|---|---|
| 0.007 | 0.05 | 0.005 |
| 0.015 | 0.1 | 0.0010 |
| 0.070 | 0.48 | 0.0048 |
| 0.150 | 1.04 | 0.0104 |
| 0.700 | 4.83 | 0.0483 |
| 1.000 | 6.90 | 0.0690 |
| 1.500 | 10.35 | 0.1035 |
| 3.000 | 20.70 | 0.2070 |
| 7.000 | 48.30 | 0.4830 |
| 10.000 | 69.00 | 0.690 |
| 15.000 | 103.50 | 1.0350 |
| 20.000 | 138.00 | 1.380 |
| 25.000 | 172.50 | 1.725 |
| 30.000 | 207.00 | 2.070 |
| 35.000 | 241.50 | 2.415 |
| 40.000 | 276.00 | 2.760 |
| 50.000 | 345.00 | 3.450 |
| 60.000 | 414.00 | 4.140 |
| 70.000 | 483.00 | 4.830 |
| 80.000 | 552.00 | 5.520 |
| 90.000 | 621.00 | 6.210 |
| 100.000 | 690.00 | 6.900 |
| 110.000 | 759.00 | .7590 |
| 125.000 | 862.50 | 8.625 |
| 150.000 | 1035 | 10.350 |
| 175.000 | 1207.5 | 12.075 |
| 200.000 | 1380 | 13.800 |
| 225.000 | 1552.5 | 15.525 |
| 250.000 | 1725 | 17.250 |
| 300.000 | 2070 | 20.700 |

* Para obtener valores manejables, apliquese 100.000 Pa = 100 kPa

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**PAR DE GIRO**

kpm > Nm > libras pulgadas

1 kpm = 9,81 Nm = 87,11 libras pulgadas

Según SI, la magnitud kpm deberás sustituirse por Nm

| Kp | Nm | libras pulgadas |
|---|---|---|
| 0.010 | 0.0981 | 0.8711 |
| 0.050 | 0.4905 | 4.3550 |
| 0.1 | 0.981 | 8.7110 |
| 0.5 | 4.905 | 43.5550 |
| 1.0 | 9.810 | 87.1100 |
| 1.5 | 14.715 | 130.6650 |
| 2.0 | 19.620 | 174.2200 |
| 2.5 | 24.525 | 217.7750 |
| 3.0 | 29.430 | 261.3300 |
| 3.5 | 34.335 | 304.8850 |
| 4.0 | 39.240 | 348.4400 |
| 4.5 | 44.145 | 391.9950 |
| 5.0 | 49.050 | 435.5500 |
| 5.5 | 53.955 | 479.1050 |
| 6.0 | 58.860 | 522.6600 |
| 6.5 | 63.765 | 566.2150 |
| 7.0 | 68.670 | 609.7700 |
| 7.5 | 73.575 | 653.3250 |
| 8.0 | 78.480 | 696.8800 |
| 8.5 | 83.385 | 740.4350 |
| 9.0 | 88.290 | 783.9900 |
| 9.5 | 93.195 | 827.5450 |
| 10.0 | 98.100 | 871.1000 |
| 12.0 | 117.720 | 1045.3200 |
| 15.0 | 147.150 | 1306.6500 |
| 20.0 | 196.200 | 1742.2000 |

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# CAUDAL

l/min > Kv > CV

| QNn l/min | Kv | Cv |
|---|---|---|
| 10 | 0.009 | 0.010 |
| 50 | 0.045 | 0.051 |
| 80 | 0.072 | 0.081 |
| 100 | 0.091 | 0.102 |
| 120 | 0.109 | 0.122 |
| 150 | 0.136 | 0.152 |
| 180 | 0.163 | 0.183 |
| 200 | 0.182 | 0.203 |
| 250 | 0.227 | 0.254 |
| 300 | 0.273 | 0.305 |
| 330 | 0.300 | 0.335 |
| 400 | 0.364 | 0.407 |
| 450 | 0.409 | 0.457 |
| 500 | 0.455 | 0.508 |
| 550 | 0.500 | 0.558 |
| 600 | 0.545 | 0.609 |
| 650 | 0.591 | 0.660 |
| 700 | 0.636 | 0.711 |
| 750 | 0.682 | 0.762 |
| 800 | 0.727 | 0.813 |
| 900 | 0.818 | 0.914 |
| 1000 | 0.909 | 1.016 |
| 1200 | 1.091 | 1.219 |
| 1500 | 1.364 | 1.524 |
| 1750 | 1.590 | 1.778 |
| 2000 | 1.818 | 2.032 |
| 2500 | 2.272 | 2.540 |
| 3000 | 2.727 | 3.048 |
| 3500 | 3.182 | 3.556 |
| 4000 | 3.636 | 4.065 |
| 4500 | 4.091 | 4.573 |
| 5000 | 4.545 | 5.081 |
| 5500 | 5.000 | 5.589 |
| 6000 | 5.454 | 6.097 |
| 6500 | 5.909 | 6.605 |
| 7000 | 6.364 | 7.113 |
| 7500 | 6.818 | 7.621 |
| 8000 | 7.272 | 8.130 |
| 8500 | 7.727 | 8.638 |
| 9000 | 8.182 | 9.146 |
| 9500 | 8.636 | 9.654 |
| 10000 | 9.091 | 10.162 |

**Kv:** Caudal de agua, expresado en m3/h a temperaturas entre +5 y + 30ºC, que atraviesa un elemento en una dirección determinada y experimentando una caída de presión de 1 bar (según VDI 2173).

Suponiendo que el elemento actúa como una tobera corta (lo que es cierto en la mayoría de los casos ), puede calcularse el valor Kv de acuerdo a la siguiente fórmula

**Kv = A0/19.84** Kv en m3/h A0 en mm2

En esta formula, la sección transversal equivalente es A0 = 0,018 x QNn de lo que resulta:

**Kv = QNn/1100** QNn caudal normal nominal en l/min

El coeficiente “flor” (magnitud empleada en Norteamérica para el caudal) se calcula con la siguiene ecuación:

**Cv = QNn/984**

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# TEMPERATURA

Formula de ºC a º F = ºC = (ºF-32) x 0.556
Formula de ºF a ºC = ºF = (ºC x 1.8) + 32

| ºF | ºC | ºF | ºC | ºF | ºC |
|---|---|---|---|---|---|
| -100 | -73.3 | +100 | +37.8 | +305 | +151.7 |
| -95 | -70.6 | +105 | +40.6 | +310 | +154.4 |
| -90 | -67.8 | +110 | +43.3 | +315 | +157.2 |
| -85 | -65.0 | +115 | +46.1 | +320 | +160.0 |
| -80 | -62.2 | +120 | +48.9 | +325 | +162.8 |
| -75 | -59.4 | +125 | +51.7 | +330 | +165.6 |
| -70 | -56.7 | +130 | +54.4 | +335 | +168.3 |
| -65 | -53.9 | +135 | +57.2 | +340 | +171.1 |
| -60 | -51.1 | +140 | +60.0 | +345 | +173.9 |
| -55 | -48.3 | +145 | +62.8 | +350 | +176.7 |
| -50 | -45.6 | +150 | +65.6 | +355 | +179.4 |
| -45 | -42.8 | +155 | +68.3 | +360 | +182.2 |
| -40 | -40.0 | +160 | +71.1 | +365 | +185.0 |
| -35 | -37.2 | +165 | +73.9 | +370 | +187.8 |
| -30 | -34.4 | +170 | +76.7 | +375 | +190.6 |
| -25 | -31.7 | +175 | +79.4 | +380 | +193.3 |
| -20 | -28.9 | +180 | +82.2 | +385 | +196.1 |
| -15 | -26.1 | +185 | +85.0 | +390 | +198.9 |
| -10 | -23.3 | +190 | +87.8 | +395 | +201.7 |
| -5 | -20.6 | +195 | +90.6 | +400 | +204.4 |
| 0 | -17.8 | +200 | +93.3 | +405 | +207.2 |
| +5 | -15.01 | +205 | +96.0 | +410 | +210.0 |
| +10 | -12.2 | +210 | +98.9 | +415 | +212.8 |
| +15 | -9.4 | +215 | +101.7 | +420 | +215.6 |
| +20 | -6.7 | +220 | +104.4 | +425 | +218.3 |
| +25 | -3.9 | +225 | +107.2 | +430 | +221.1 |
| +30 | -1.1 | +230 | +110.0 | +435 | +223.9 |
| +32 | 0.0 | +235 | +112.8 | +440 | +226.7 |
| +35 | +1.07 | +240 | +115.6 | +445 | +229.4 |
| +40 | +4.4 | +245 | +118.3 | +450 | +232.2 |
| +45 | +7.2 | +250 | +121.1 | +455 | +235.0 |
| +50 | +10.0 | +255 | +123.9 | +460 | +237.8 |
| +55 | +12.8 | +260 | +126.7 | +465 | +240.6 |
| +60 | +15.6 | +265 | +129.4 | +470 | +243.3 |
| +65 | +18.3 | +270 | +132.2 | +475 | +246.1 |
| +70 | +21.1 | +275 | +135.0 | +480 | +248.9 |
| +75 | +23.9 | +280 | +137.8 | +485 | +251.7 |
| +80 | +26.7 | +285 | +140.6 | +490 | +254.4 |
| +85 | +29.4 | +290 | +143.3 | +495 | +257.2 |
| +90 | +32.2 | 295 | +146.1 | +500 | +260.0 |
| +95 | +35.0 | 300 | +148.9 | | |

| ºC | ºF | ºC | ºF | ºC | ºF |
|---|---|---|---|---|---|
| -100 | -148 | +100 | +212 | +305 | +581 |
| -95 | -139 | +105 | +221 | +310 | +590 |
| -90 | -130 | +110 | +230 | 315 | +599 |
| -85 | -121 | +115 | +239 | +320 | +608 |
| -80 | -112 | +120 | +248 | +325 | +617 |
| -75 | -103 | +125 | +257 | +330 | +628 |
| -70 | -94 | +130 | +266 | +335 | +635 |
| -65 | -85 | +135 | +275 | +340 | +644 |
| -60 | -76 | +140 | +284 | +345 | +653 |
| -55 | -67 | +145 | +293 | +350 | +662 |
| -50 | -58 | +150 | +302 | +355 | +671 |
| -45 | -49 | +155 | +311 | +360 | +680 |
| -40 | -40 | +160 | +320 | +365 | +689 |
| -35 | -31 | +165 | +329 | +370 | +698 |
| -30 | -22 | +170 | +338 | +375 | +707 |
| -25 | -13 | +175 | +347 | +380 | +716 |
| -20 | -4 | +180 | +356 | +385 | +725 |
| -17.8 | 0 | +185 | +365 | +390 | +734 |
| -15 | +5 | +190 | +374 | +395 | +743 |
| -10 | +14 | +195 | +383 | +400 | +752 |
| -5 | +23 | +200 | +392 | +405 | +761 |
| 0 | +32 | +205 | +401 | +410 | +770 |
| +5 | +41 | +210 | +410 | +415 | +779 |
| +10 | +50 | +215 | +419 | +420 | +788 |
| +15 | +59 | +220 | +428 | +425 | +797 |
| +20 | +68 | +225 | +437 | +430 | +806 |
| +25 | +77 | +230 | +446 | +435 | +815 |
| +30 | +86 | +235 | +455 | +440 | +824 |
| +35 | +95 | +240 | +464 | +445 | +833 |
| +40 | +104 | +245 | +473 | +450 | +842 |
| +45 | +113 | +250 | +482 | +455 | +851 |
| +50 | +122 | +255 | +491 | +460 | +860 |
| +55 | +131 | +260 | +500 | +465 | +869 |
| +60 | +140 | +265 | +509 | +470 | +878 |
| +65 | +149 | +270 | +518 | +475 | +887 |
| +70 | +158 | +275 | +527 | +480 | +896 |
| +75 | +167 | +280 | +536 | +485 | +905 |
| +80 | +176 | +285 | +545 | +490 | +914 |
| +85 | +185 | +290 | +554 | +495 | +923 |
| +90 | +194 | +295 | +563 | +500 | +932 |
| +95 | +203 | +300 | +572 | | |

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# UNIDADES, TABLAS DE CONVERSION Y FORMULAS
# SISTEMA INTERNACIONAL DE UNIDADES ( SI)

## PRESION

| DE | A | MULTIPLICAR POR | EJEMPLO |
|---|---|---|---|
| MPa (Megapascal) | bar | 10 | 10 Mpa x 10 = 100 bar |
| MPa | kp/cm2 | 10.197 | 10 Mpa x 10197 = 101.97 kp/cm2 |
| MPa | PSI | 145.0 | 10 Mpa x 145.0 = 1450 PSI |
| bar (bar) | kp/cm2 | 1.020 | 10 bar x 1.020 = 10.2 kp/cm2 |
| bar | MPa | 0.1 | 10 bar x 0.1 = 1.0 MPa |
| bar | PSI | 14.504 | 10 bar x 14.504 = 145 PSI |
| kp/cm2 (kilopindio / cm2) | bar | 0.981 | 10 kp/cm2 x 0.981 = 9.81 bar |
| kp/cm2 | MPa | 0.0981 | 10 kp/cm2 x 0.0981 = 0.981 MPa |
| kp/cm2 | PSI | 14.223 | 10 kp/cm2 x 14.223 = 142.2 PSI |
| PSI (Libra/pulgada2) | bar | 0.0689 | 100 PSI x 0.0689 = 6.89 bar |
| PSI | kp/cm2 | 0.0703 | 100 PSI x 0.0703 = 7.03 kp/cm2 |
| PSI | MPa | 0.00689 | 100PSI x 0.00689 = 0.689 MPa |
| atm (atmnosfera) | bar | 1.01325 | 1.1 atm x 1.01325 = 1.115 bar |
| atm | kp/cm2 | 1.0332 | 1.1 atm x 1.0322 = 1.137 kp/cm2 |
| atm | PSI | 14.696 | 1.1 atm x 14.695 = 16.166 PSI |
| atm | MPa | 0.10132 | 1.1 atm x 0.10132 = 0.111 MPa |

## CAUDAL

| DE | A | MULTIPLICAR POR | EJEMPLO |
|---|---|---|---|
| l/s (Litro / segundo) | l/min | 60 | 10 l/s x 60 = 60 l/min |
| l/s | CFM | 2.119 | 10 l/s x 2.119 = 21.2 CFM |
| l/min (Litro/minuto) | l/s | 0.0167 | 100 l/min x 0.0167 = 1.7 l/s |
| l/min | CFM | 0.0353 | 100 l/min x 0.0353 = 3.5 CFM |
| CFM (Pie3 / minuto) | l/min | 28.32 | 100 CFM x 25.32 =2832 l/min |
| CFM | l/s | 0.472 | 100 CFM x 0.472 = 47.2 l/s |
| m3/h (metro3 /hora) | l7min | 16.667 | 100 m3h x 16.667 = 166.7 l/min |

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## VOLUMEN

| DE | A | MULTIPLICAR POR | EJEMPLO |
|---|---|---|---|
| m3(metro) | Litro | 1000 | 10 m3 x 1000 = 10.000 Litro |
| m3 | ft3 | 35.3 | 10 m3 x 35.3 = 353 ft3 |
| Litro | m3 | 0.001 | 100 Litro x 0.001 = 0.1 m3 |
| Litro | ft3 | 0.0353 | 100 Litro x 0.0353 = 3.53 ft3 |
| Litro | Galon (us) | 0.264 | 100 Litro x 0.264 = 26.4 Galon (us) |
| Litro | Galon (imperial) | 0.220 | 100 Litro x 0.220 = 22.0 Galon (imperial) |
| ft3(pie) | m3 | 0.0283 | 10 ft3 x 0.0283 m3 = 0.283 m3 |
| ft3 | Litro | 28.32 | 10 ft3 x 28.32 = 283.2 Litro |
| Galon (us) | Litro | 3.785 | 100 Galon (us) x 3.785 = 37.85 Litro |
| Galon (imperial) | Litro | 4.546 | 10 Galon (imperial) x 4.546 = 45.46 Litro |
| in3 | cm3 | 16.387 | 10 in3 x 16.387 = 163.87 cm3 |
| cm3 | in3 | 0.0610 | 10 cm3 x 0.0610 = 0.610 in3 |

## LONGITUD

| DE | A | MULTIPLICAR POR | EJEMPLO |
|---|---|---|---|
| m (Metro) | ft | 3.28083 | 10 m x 3.28083 = 32.8083 feet |
| ft (pies) | m | 0.3048 | 10 feet x 0.3048 = 3.048 m |
| mm (milimetro) | Pulgada | 0.0393 | 10 mm x 0.0393 = 0.393 Pulgada |
| Pulgada | mm | 25.4 | 10 inch x 25.4 = 254 mm |

## FUERZA

| DE | A | MULTIPLICAR POR | EJEMPLO |
|---|---|---|---|
| N (Newton) | kp | 0.1020 | 10 N x 0.1020 = 1.02 kp |
| N | lbf | 0.2248 | 10 N x 0.2248 = 2.25 lbf |
| kp (kilopondio) | N | 9.806 | 10 kp x 9.806 = 98.06 N |
| kp | lbg | 2.205 | 10 kp x 2.204 = 22.05 lbg |
| lbf (Libra de fuerza) | kp | 0.454 | 10 lbf x 0.454 = 4.54 kp |
| lbf | N | 4.448 | 10 lbf x 4.448 = 44.48 N |

## MASA

| DE | A | MULTIPLICAR POR | EJEMPLO |
|---|---|---|---|
| kg (Kilogramo) | lb | 2.205 | 10 kg x 2.205 =22.05 lb |
| lb (libra) | kg | 0.454 | 10 lb x 0.454 = 4.54 kg |

## TORSION

| DE | A | MULTIPLICAR POR | EJEMPLO |
|---|---|---|---|
| Nm(newton Metro) | kpm | 0.1020 | 10 Nm x 0.1020 = 1.02 kpm |
| Nm | lbfft | 0.7376 | 10 Nm x 0.7376 = 7.38 lbfft |
| kpm (kilopondio Metro) | Nm | 9.81 | 10 kpmX 9.81 = 98.1 Nm |
| kpm | lbfft | 7.233 | 10 kpm x 7.233 = 72.33 lbfft |
| lbfft (Libra de fuerza Pie) | Nm | 1.356 | 10 lbfft x 1.356 = 13.56 Nm |
| lbfft | kpm | 0.1383 | 10 lbfft x 0.1383 = 1.38 kpm |