



Continental Disc Corporation

A Siegel-Robert Company

GENERAL CONVERSION TABLES

1-1108

To convert from one set of units, A, to a new set, B, find the conversion factor for the row A under Column B and multiply the initial value by the

conversion factor. For example, to convert inches to centimeters, multiply by 2.54.

LENGTH

| A \ B | millimeter mm | centimeter cm | meter m | inch in | foot ft | yard yd |
|-------|---------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| mm | 1 | 1.000×10^{-1} | 1.000×10^{-3} | 3.937×10^{-2} | 3.281×10^{-3} | 1.094×10^{-3} |
| cm | 1.000×10^1 | 1 | 1.000×10^{-2} | 3.937×10^{-1} | 3.281×10^{-2} | 1.094×10^{-2} |
| m | 1.000×10^3 | 1.000×10^2 | 1 | 3.937×10^1 | 3.281 | 1.094 |
| in | 2.540×10^1 | 2.540 | 2.540×10^{-2} | 1 | 8.333×10^{-2} | 2.778×10^{-2} |
| ft | 3.048×10^2 | 3.048×10^1 | 3.048×10^{-1} | 1.200×10^1 | 1 | 3.333×10^{-1} |
| yd | 9.144×10^2 | 9.144×10^1 | 9.144×10^{-1} | 3.600×10^1 | 3.000 | 1 |

AREA

| A \ B | square millimeter mm ² | square centimeter cm ² | square meter m ² | square inch in ² | square foot ft ² | square yard yd ² |
|-----------------|---|---|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| mm ² | 1 | 1.000×10^{-2} | 1.000×10^{-6} | 1.550×10^{-3} | 1.076×10^{-5} | 1.196×10^{-6} |
| cm ² | 1.000×10^2 | 1 | 1.000×10^{-4} | 1.550×10^{-1} | 1.076×10^{-3} | 1.196×10^{-4} |
| m ² | 1.000×10^6 | 1.000×10^4 | 1 | 1.550×10^3 | 1.076×10^1 | 1.196 |
| in ² | 6.452×10^2 | 6.452 | 6.452×10^{-4} | 1 | 6.944×10^{-3} | 7.716×10^{-4} |
| ft ² | 9.290×10^4 | 9.290×10^2 | 9.290×10^{-2} | 1.440×10^2 | 1 | 1.111×10^{-1} |
| yd ² | 8.361×10^5 | 8.361×10^3 | 8.361×10^{-1} | 1.296×10^3 | 9.000 | 1 |

VOLUME

| A \ B | cubic meter m ³ | liter l | milliliter ml | U.K. gallon (liquid) U.K. gal | cubic foot ft ³ | U.S. gallon (liquid) U.S. gal |
|-----------------|----------------------------------|------------------------|---------------------|-------------------------------------|----------------------------------|-------------------------------------|
| m ³ | 1 | 1.000×10^3 | 1.000×10^6 | 2.200×10^2 | 3.531×10^1 | 2.642×10^2 |
| l | 1.000×10^{-3} | 1 | 1.000×10^3 | 2.200×10^{-1} | 3.531×10^{-2} | 2.642×10^{-1} |
| ml | 1.000×10^{-6} | 1.000×10^{-3} | 1 | 2.200×10^{-4} | 3.531×10^{-5} | 2.642×10^{-4} |
| U.K. gal | 4.546×10^{-3} | 4.546 | 4.546×10^3 | 1 | 1.605×10^{-1} | 1.201 |
| ft ³ | 2.832×10^{-2} | 2.832×10^1 | 2.832×10^4 | 6.229 | 1 | 7.481 |
| U.S. gal | 3.785×10^{-3} | 3.785 | 3.785×10^3 | 8.327×10^{-1} | 1.337×10^{-1} | 1 |

TEMPERATURE

| TO CONVERT FROM: | TO: | |
|------------------------|------------------------|-------------------------------|
| degree Celsius (°C) | degree Kelvin (°K) | $T_K = T_C + 273.15$ |
| degree Fahrenheit (°F) | degree Celsius (°C) | $T_C = (T_F - 32) / 1.8$ |
| degree Fahrenheit (°F) | degree Kelvin (°K) | $T_K = (T_F + 459.67) / 1.8$ |
| degree Rankin (°R) | degree Kelvin (°K) | $T_K = T_R / 1.8$ |
| degree Kelvin (°K) | degree Celsius (°C) | $T_C = T_K - 273.15$ |
| degree Celsius (°C) | degree Fahrenheit (°F) | $T_F = (T_C \times 1.8) + 32$ |

GAUGE PRESSURE

| A \ B | megapascal MPa | kilopascal kPa | pascal Pa | bar bar | kilograms force per square centimeter kgf/cm ² | pounds per square inch psi |
|---------------------|--------------------------|--------------------------|-------------------------|--------------------------|---|----------------------------------|
| MPa | 1 | 1.000 x 10 ³ | 1.000 x 10 ⁶ | 1.000 x 10 ¹ | 1.020 x 10 ¹ | 1.450 x 10 ² |
| kPa | 1.000 x 10 ⁻³ | 1 | 1.000 x 10 ³ | 1.000 x 10 ⁻² | 1.020 x 10 ⁻² | 1.450 x 10 ⁻¹ |
| Pa | 1.000 x 10 ⁻⁶ | 1.000 x 10 ⁻³ | 1 | 1.000 x 10 ⁻⁵ | 1.020 x 10 ⁻⁵ | 1.450 x 10 ⁻⁴ |
| bar | 1.000 x 10 ⁻¹ | 1.000 x 10 ² | 1.000 x 10 ⁵ | 1 | 1.020 | 1.450 x 10 ¹ |
| kgf/cm ² | 9.807 x 10 ⁻² | 9.807 x 10 ¹ | 9.807 x 10 ⁴ | 9.807 x 10 ⁻¹ | 1 | 1.422 x 10 ¹ |
| psi | 6.895 x 10 ⁻³ | 6.895 | 6.895 x 10 ³ | 6.895 x 10 ⁻² | 7.031 x 10 ⁻² | 1 |

MASS FLOW RATE

| A \ B | kilogram per second kg/s | kilogram per minute kg/min | kilogram per hour kg/h | pound mass per second lbm/s | pound mass per minute lbm/min | pound mass per hour lbm/h |
|---------|--------------------------------|----------------------------------|------------------------------|-----------------------------------|-------------------------------------|---------------------------------|
| kg/s | 1 | 6.000 x 10 ¹ | 3.600 x 10 ³ | 2.205 | 1.323 x 10 ² | 7.937 x 10 ³ |
| kg/min | 1.667 x 10 ⁻² | 1 | 6.000 x 10 ¹ | 3.674 x 10 ⁻² | 2.205 | 1.323 x 10 ² |
| kg/h | 2.778 x 10 ⁻⁴ | 1.667 x 10 ⁻² | 1 | 6.124 x 10 ⁻⁴ | 3.674 x 10 ⁻² | 2.205 |
| lbm/s | 4.536 x 10 ⁻¹ | 2.722 x 10 ¹ | 1.633 x 10 ³ | 1 | 6.000 x 10 ¹ | 3.600 x 10 ³ |
| lbm/min | 7.560 x 10 ⁻³ | 4.536 x 10 ⁻¹ | 2.722 x 10 ¹ | 1.667 x 10 ⁻² | 1 | 6.000 x 10 ¹ |
| lbm/h | 1.260 x 10 ⁻⁴ | 7.560 x 10 ⁻³ | 4.563 x 10 ⁻¹ | 2.778 x 10 ⁻⁴ | 1.667 x 10 ⁻² | 1 |

VOLUMETRIC FLOW RATE

| A \ B | liter per second l/s | liter per minute l/min | cubic meter per minute m ³ /min | U.K. liquid gallon per minute U.K. gal/min | cubic foot per second ft ³ /s | cubic foot per minute ft ³ /min | U.S. liquid gallon per minute gal/min |
|----------------------|----------------------------|------------------------------|--|--|--|--|---|
| l/s | 1 | 6.000 x 10 ¹ | 6.000 x 10 ⁻² | 1.320 x 10 ¹ | 3.531 x 10 ⁻² | 2.119 | 1.585 x 10 ¹ |
| l/min | 1.667 x 10 ⁻² | 1 | 1.000 x 10 ⁻³ | 2.200 x 10 ⁻¹ | 5.886 x 10 ⁻⁴ | 3.531 x 10 ⁻² | 2.642 x 10 ⁻¹ |
| m ³ /min | 1.667 x 10 ¹ | 1.000 x 10 ³ | 1 | 2.200 x 10 ² | 5.886 x 10 ⁻¹ | 3.531 x 10 ¹ | 2.642 x 10 ² |
| U.K. gal/min | 7.577 x 10 ⁻² | 4.546 | 4.546 x 10 ⁻³ | 1 | 2.676 x 10 ⁻³ | 1.605 x 10 ⁻¹ | 1.201 |
| ft ³ /s | 2.832 x 10 ¹ | 1.699 x 10 ³ | 1.699 | 3.737 x 10 ² | 1 | 6.000 x 10 ¹ | 4.488 x 10 ² |
| ft ³ /min | 4.719 x 10 ⁻¹ | 2.832 x 10 ¹ | 2.832 x 10 ⁻² | 6.229 | 1.667 x 10 ⁻² | 1 | 7.481 |
| U.S. gal/min | 6.309 x 10 ⁻² | 3.785 | 3.785 x 10 ⁻³ | 8.327 x 10 ⁻¹ | 2.228 x 10 ⁻³ | 1.337 x 10 ⁻¹ | 1 |

Continental Disc Corporation has representatives located throughout the world.
Contact the C.D.C. office nearest you for the authorized representative in your area.

CORPORATE HEADQUARTERS



Continental Disc Corporation
3160 W. Heartland Drive
Liberty, Missouri 64068-3385 USA

Phone: (816) 792-1500
FAX: (816) 792-2277 / 5447
E-mail: pressure@contdisc.com
Website: www.contdisc.com

GERMANY

Continental Disc
Deutschland GmbH
Virmondstrasse 151
47877 Willich Germany
Phone: + (49) 2156-490802
Fax: + (49) 2156-492547
E-mail: cdd@contdisc.com

THE NETHERLANDS

Continental Disc Corporation
Energieweg 20
2382 NJ Zoeterwoude-Rijndijk
The Netherlands
Phone: + (31) 71-5412221
Fax: + (31) 71-5414361
E-mail: cdcnl@contdisc.com

UNITED KINGDOM

Continental Disc UK Ltd.
Unit C, The Business Centre
Faringdon Avenue,
Harold Hill, Romford
Essex RM3 8EN
United Kingdom
Phone: + (44) 1708-386444
Fax: + (44) 1708-386486
E-mail: cduk@contdisc.com

CHINA

Continental Disc Corporation
2026 The Executive Center
20/F The Center
989 Changle Rd.
Shanghai, 200031
P.R. China
Phone: + (86) 21-5117-5848
Fax: + (86) 21-5117-5849
Mobile: + (86) 137-8897-2291
E-mail: jjyang@contdisc.com

DUBAI

Continental Disc Corporation
P.O. Box 2234
Dubai, U.A.E.
Phone: + (971) 43214490
Fax: + (971) 43438840
Mobile: + (971) 508129525
E-mail: kannan@contdisc.com