

# CONVERSIONS

## Units of length

1 inch (in)	= 25.4 mm; 1 mm	= 0.03937 inch
1 foot (ft)	= 30.48 cm; 1 cm	= 0.0328 ft

## Units of area

1 square inch (sq in)	= 6.452 cm <sup>2</sup> ; 1 cm <sup>2</sup>	= 0.155 sq in
1 square foot (sq ft)	= 929.03 cm <sup>2</sup> ; 1 cm <sup>2</sup>	= 0.00107 sq ft

## Units of volume

1 cubic inch (cu in)	= 16.39 cm <sup>3</sup> ; 1 cm <sup>3</sup>	= 0.06102 cu in
1 cubic foot (cu ft)	= 28.32 m <sup>3</sup> ; 1 m <sup>3</sup>	= 0.03531 cu ft
1 gallon GBR	= 4.546 m <sup>3</sup> ; 1 m <sup>3</sup>	= 0.22 gallon
1 gallon USA	= 3.785 m <sup>3</sup> ; 1 m <sup>3</sup>	= 0.2642 gallon

## Units of mass

1 pound (lb)	= 0.4536 kg; 1 kg	= 2.205 lb
1 ounce (oz)	= 28.35 g; 1g	= 0.03527 oz

## Units of force

1 pound force (Lb, lbf)	= 4.448 N; 1 N	= 0.2248 Lb
1 kg force (kp)	= 9.81 N; 1 N	= 0.1019

## Units of pressure

1 Pascal (Pa)	= 1 x 10 <sup>5</sup> bar; 1 bar	= 1x 10 <sup>5</sup> Pa
1 pound weight per square inch (psi)	= 0.06896 bar; 1 bar	= 14.5 psi

## Temperature

°F	= 1.8 x °C + 32, conversion to °F from °C.
----	--

Source: Anonymous (1993), Knowhow in Pneumatics, Germany: Rexroth Mecman Pneumatics

