

VELOCITY EQUIVALENTS

1 meter per second (m/sec, mps)	= 1 609344 km/hr
= 3 6 km/hr	= 88 ft/min
= 2 23694 m/hr	
= 3 28084 ft/sec	1 foot per second (ft/sec, fps)
= 196 850 ft/min	= 0 681818 m/hr
	= 60 ft/min
	= 0 3048 m/sec
1 kilometer per hour (km hr ⁻¹ , kph)	= 1 09728 km/hr
= 0 277778 m/sec	
= 0 621371 m/hr	
= 0 911344 ft/sec	1 foot per minute (ft/min, fpm)
	= 0 0113636 m/hr
1 mile per hour (mi hr ⁻¹ , mph)	= 0 00508 m/sec
= 1 46667 ft/sec	= 0 018288 km/hr
= 0 44704 m/sec	

PRESSURE EQUIVALENTS

1 pound per square inch (lb/sq in, psi)	1 kilogram per square centimeter (kg/cm ²)
= 144 lb/sq ft (psf)	= 14 22 lb/sq in
= 70 3 gr/cm ²	= 0 97 atm
= 2 04 in (Hg)*	= 32 81 ft (H ₂ O)*
1 pound per square foot (lb/sq ft, psf)	1 atmosphere (atm)
= 478 8 dynes/cm ² = 47 88 pascals	= 14 696 lb/sq in
(Pa)†	= 29 92 in (Hg)*
= 0 016 ft (H ₂ O)*	= 760 cm (Hg)*
	= 33 93 ft (H ₂ O)*
1 gram per square centimeter (gm/cm ²)	= 101 32 kPa
= 10 kg/cm ²	
= 2 048 lb/sq ft	

* (Hg) stands for mercury at 0 C, (H₂O) stands for water at 15 C

† At standard gravity of 980 665 cm/sec² or 32 174 ft/sec²

FORCE EQUIVALENTS

1 gram weight*	1 pound weight*
= 980 665 dynes	= 32 174 poundals
	= 444822 dynes
1 kilogram weight	
= 9 80665 × 10 ⁵ dynes	1 poundal
	= 13825 5 dynes
1 newton	
= 10 ⁵ dynes	

* At standard gravity of 980 665 cm/sec² or 32 174 ft/sec²