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PI REFERENCE HANDBOOK

UNITS

The SI units and the foot-pounds are both the metric system of units and the U.S. Customary System (CS) for the U.S. system of units. Both have well-known relationships. Therefore, you must interpret the given data (SI) and the given answers (CS).

The pound-force (lbf) is the force which produces an acceleration of 32.174 ft/sec². Thus, 1 lbf = 32.174 lbf/sec². The expression 32.174 ft/sec² is designated as *g*, and is used in the expression involving both mass and force expressed in pounds. For instance, involving Newton's second law, the equation could be written $F = ma$, where F is in lbf, m is in lbf-sec²/ft, and a is in ft/sec².

Similar expressions involve other quantities. Kinetic Energy, $KE = mv^2/2$, with KE in ft-lbf; Potential Energy, $PE = mgh$, with PE in ft-lbf; Heat Transfer, $Q = mc\Delta T$, with Q in Btu; Specific Weight, $\gamma = \rho g$, in lbf/ft³; Heat Flow, $q = \rho c \Delta T$, with q in Btu/ft²; and all other examples, g should be regarded as a unit conversion factor. It is frequently an entire expression in engineering equations. Therefore, it can be regarded as a constant unit of unity.

Now that the conversion factor *g* (32.174 ft/sec²) should not be confused with the local acceleration of gravity, g , which has different units (m/s² or ft/sec²) and may be either the standard value of 9.807 m/s² or 32.174 ft/sec² for water other local value.

If the problem is presented in SI Units, it may be necessary to use the conversion *g* in the equation to have a consistent set of units.

SI UNIT PREFIXES			COMMONLY USED EQUIV. VALUES
Symbol	Factor	Prefix	
k	10 ³	kilo	1 gallon of water weighs 8.34 lb 1 cubic foot of water weighs 62.4 lb 1 cubic inch of mercury weighs 0.491 lb The mass of 1 cubic centimeter of water is 1.0000 grams 1 inch = 2.54 centimeters
M	10 ⁶	mega	
G	10 ⁹	giga	
T	10 ¹²	tera	
P	10 ¹⁵	peta	
TEMPERATURE CONVERSIONS			
			$T(^{\circ}\text{C}) = (T(^{\circ}\text{F}) - 32) / 1.8$
			$T(^{\circ}\text{F}) = 1.8 T(^{\circ}\text{C}) + 32$
			$T(^{\circ}\text{R}) = T(^{\circ}\text{C}) + 273.15$
			$T(^{\circ}\text{C}) = (T(^{\circ}\text{R}) - 491.67) / 1.8$

WEIGHT CONVERSIONS

The standard gas constant, designated as *R*, is the ratio between various pressure-volume-temperature, and molecular weights of a real gas. When the standard constant, *R*, is divided by the molecular weight of the gas, the result, often designated as *R*, has units of energy per unit mass (Btu/lb or ft-lbf/lb-mole-°R) and becomes characteristic of the particular gas. Table 1.1 provides readily obtained engineering values for the specific *R* values for the standard gas constant, *R*.

STANDARD CONDITIONS

Quantity	Symbol	Title	Value
Standard density	ρ	1.94 slugs/ft ³	62.4 lbm/ft ³
Standard pressure	<i>P</i>	14.7 psia	101.325 kPa (abs)
Standard temperature	<i>T</i>	519.67 °R	15.55 °C
Standard molecular weight	<i>M</i>	28.97 lbm/lbmol	28.97 g/mol
Standard gas constant	<i>R</i>	49.35 ft-lbf/lbmol-°R	8.314 J/mol-K

The rectangular homogeneous gate shown below is 1.00 m high × 1.00 m wide and has a 100-mm-thick ledge at the bottom. If the fluid on the left side of the gate has a density of 1,000 kg/m³, the magnitude of the force *F* (kN) required to keep the gate closed is most nearly



- (A) 8
- (B) 11
- (C) 24
- (D) 120

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web jun 8 2019 section 28 1 1 verify repairs check as follows turn ignition off reconnect any electrical connections that were disconnected to perform the diagnosis clear codes with dddl 7 0 or latest version engine exhaust to avoid injury from inhaling engine exhaust always operate the engine in a well ventilated area engine exhaust is toxic

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web jun 8 2019 figure 1 motor control module note do not ground the mcm this can result in false codes being logged the motor control module mcm incorporates a heat exchanger which uses fuel to cool the mcm the top plate of the heat exchanger incorporates the inlet and outlet fitting for fuel supply entering and exiting the heat

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web the motor control module mcm monitors the rail pressure and when rail pressure deviation is greater than 200 bar for eight seconds the mcm sets the code this fault can occur due to the conditions listed below external fuel leakage between the high pressure pump and fuel injectors pressure limiting valve leakage internal

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