Common English - Metric Units

Sr. Analyst Training Manual Metric Conversions

Measure	English	Metric	English → Metric Conversion	Comments
Temperature	°F	°C	5/9(°F + 40) - 40	Watch out for Delta T
Pressure	pounds/in.^{2} (psi)	kPa (or MPa)	psi * 6.894 = kPa	kPa is most likely
Plant Capacity	thousand barrel/day (MBPD)	BPD or m^3/hr	MBPD * 6.62 = m^3/hr	Large volume plant flow is usually described in BPD. At Chevron, 'M' is 1000, whereas the rest of the world it is 100,000 (Mega).
Velocity	feet/second (ft/s)	meters/second (m/s)	ft/s * 0.3048 = m/s	
Process Flow	gallons/min. (gpm)	liters/hour (L/hr)	gpm * 227 = L/hr	Small volumes of flow (usually infrequently)
Differential Pressure	pounds/in.^{2} (psi)	kPa	psi * 6.894 = kPa	Delta P
Acidity	pH	pH	n/a	
Length	inches (in.) & feet (ft)	millimeters (mm) & meters (m)	in. * 25.4 = mm ft * 0.3048 = m	
Stress	lb/in.^{2} (psi)	MPa (millions of Pascals)	psi * 0.006894 = MPa	
Corrosion Loss	mils/yr (0.001 in./yr)	mm/yr	mils/yr * 0.0254 = mm/yr	
Hardness	Same	Same	n/a	No difference
Impact Toughness	foot-pound (ft-lb)	Joules (J)	ft-lb * 1.35 = Joules	40 ft-lbs = 54 Joules

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