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The hydraulic power supplied by a pump is: $Power = (P \times Q) \div 500$ - where power is in kilowatts [kW], P is the pressure in bars, and Q is the flow in litres per minute. Example: if a pump delivers 180 litres/minute and the pressure is 250 bar, then the hydraulic calculation for prime mover power of the pump is: $Power = (250 \times 180) \div 500 = 90 \text{ kW}^{**}$.

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Hydraulic Equations. Q AOP Density for first sprinkler flow. where: Q = USGPM AOP = Area of Sprinkler operations 1500 3000 ft² for light hazard Density = USGPM/ft² or water/square foot Hydraulic Equations 2 Q p for first sprinkler pressure K where: Q = USGPM QK p K=sprinkler factor p=pressure in psig Hydraulic Equations

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Velocity of oil flow in a pipe: velocity (ft/sec) = flow (gpm) x .3208 / inside area of the pipe (sq ins) Circle area formulas: Area (sq ins) = $\pi \times r^2$ where $\pi = 3.1416$ and r = radius in inches squared. Area (sq ins) = $\pi \times d^2 / 4$ where $\pi = 3.1416$ and d = diameter in inches.

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Equation 1: $q_1 = (\text{design density}) \times (\text{area per sprinkler})$ In this example, this gives: $q_1 = 7.50 \text{ mm/min} \times 10.20 \text{ m}^2 = 76.50 \text{ L/min}$. The second step is to calculate the minimum flow from the sprinkler given the K-Factor and the minimum head pressure by using the standard K-Factor formula:

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The hydraulic radius is thus: $RH = A/P = y^2z / \{2[y^2(1 + z^2)]^{1/2}\}$ Circular Cross Section. The hydraulic radius for a circular pipe flowing full is easy to calculate. The cross-sectional area is $A = D^2/4$ and the wetted perimeter is $P = D$. Substituting into the equation $RH = A/P$ and simplifying the expression gives: $RH = D/4$.

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