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undertake a number of hydraulic calculations on wet and dry risers in high rise buildings. This report provides results of sample calculations using a BRE software package "Riser flow" to calculate water flows in wet and dry risers. The report describes the assumptions made to undertake the calculations and details the

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Research Division (FSRD) to undertake a number of hydraulic calculations on wet and dry risers in high rise buildings. This report provides results of sample calculations using a BRE software package "Riser flow" to calculate water flows in

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~~Hydraulic calculations for Wet & Dry risers systems~~

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The hydraulic power supplied by a pump is: $\text{Power} = (P \times Q) \div 500$ - 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: $\text{Power} = (250 \times 180) \div 500 = 90 \text{ kW}^{**}$.

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Hydraulic Equations. $Q = A \times V$ Density for first sprinkler flow. where: $Q =$ USGPM $A =$ Area of Sprinkler operations 1500 3000 ft² for light hazard Density = USGPM/ft² or water/square foot Hydraulic Equations $2 Q = K \sqrt{p}$ for first sprinkler pressure K where: $Q =$ USGPM $K =$ 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 π (pi) = 3.1416 and $r =$ radius in inches squared. Area (sq ins) = $\pi \times d^2 / 4$ where π (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 $A = \pi D^2/4$ and the wetted perimeter is $P = \pi D$. Substituting into the equation $RH = A/P$ and simplifying the expression gives: $RH = D/4$.

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Hydraulic calculations provide a verifiable analysis of the 3 primary components of a fire suppression system: 1) The water delivery requirements to suppress a possible fire 2) The available water supply 3) The network of piping that will deliver

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this water in the event of a fire. Water delivery requirements

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