

# Bookmark File PDF Hydraulic Calculation Of Wet And Dry Risers Hoses And

## Hydraulic Calculation Of Wet And Dry Risers Hoses And

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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 wet and dry risers. The report describes the assumptions made to undertake the calculations and details the

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

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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  $\pi$  (pi) = 3.1416 and  $r$  = radius in inches squared. Area (sq ins) =  $\pi \times d^2 / 4$  where  $\pi$  (pi) = 3.1416 and  $d$  = diameter in inches.

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Canute LLP has over 15 years of experience in developing and supporting hydraulic calculation software for the fire sprinkler and water mist industry. Our software is used by the world's leading fire protection consultants, design and installation companies. FHC can be used for large and small projects alike from a single house design to BS 9251 or a petrochemical facility design to NFPA13 ...

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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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Report 4/2005 December 2004 Building Research Establishment On behalf of the Office of the Deputy Prime Minister: London The findings and recommendations in this report are those of the consultant authors and do not necessarily  $\square$  Hydraulic Calculation of ...

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The hydraulic radius is thus:  $RH = A/P = yz/\{2[y^2(1 + z^2)]^{1/2}\}$  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:  $RH = D/4$ .

## ~~Calculation of Open Channel Flow Hydraulic Radius ...~~

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

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