AJ Design	Math Geometr	_	hysics Force	Fluid Mechanics			
	Finance	Lo	an Calculator				
Orifice Equations Formulas Design Calculator Fluid Mechanics Hydraulics							
	Solvin	ng for flow	rate.				
	Q =	$C_d A_o \sqrt{2g}$	\overline{H}				
puts:	Г						
discharge coefficie		.61					
orifice area (A _O	L	.7854	inch^2	>			
gravitational const	(<i>6)</i>	32.2	foot/secon	d^2 ✓			
center line head (H	[]	.25	foot	~			
		Every Sit	tuation - Free!				
		Every Si	tuation - Free!				
alculators: Different	Calculators For		tuation - Free!				
alculators: Different onversions:	Calculators For discharge coefficier = .61		^2				
alculators: Different	discharge coefficier = .61 = 0.61 orifice area (A _O = .7854	inch mete nt (g) foot/	^2				
alculators: Different	discharge coefficier = .61 = 0.61 orifice area (A _O = .7854 = 0.000506708664 gravitational consta = 32.2	inch mete nt (g) foot/ mete	^2 er^2 /second^2 er/second^2				
	discharge coefficier = .61 = 0.61 orifice area (A _O = .7854 = 0.000506708664 gravitational consta = 32.2 = 9.81456 center line head (H) = .25	inch mete nt (g) foot/ mete	^2 er^2 /second^2 er/second^2				

Other Units:

= 0.0003780211211896	meter^3/second
= 1360876.0362826	cc/hour
= 378.0211211896	centimeter^3/second
= 1360876.0362826	centimeter^3/hour
= 226.81267271331	deciliter/minute
= 0.80098139450965	foot^3/minute
= 0.013349689908494	foot^3/second
= 5.9917569251631	gallon/minute
= 32661.024879456	liter/day
= 22.681267226013	liter/minute
= 0.3780211211896	liter/second
= 32.661024870708	meter^3/day
= 0.022681267271331	meter^3/minute
= 1360876.0362826	milliliter/hour
= 22681.267271376	milliliter/minute

Change EquationSelect an equation to solve for a different unknown

$Q = C_d A_0 \sqrt{2gH}$	Solve for flow rate.	
$C_d = \frac{Q}{A_0 \sqrt{2gH}}$	Solve for discharge coefficient.	
$A_o = \frac{Q}{C_d \sqrt{2gH}}$	Solve for orifice area.	
$g = \frac{\left(\frac{Q}{C_d A_o}\right)^2}{2H}$	Solve for gravitational constant.	
$H = \frac{\left(\frac{Q}{C_d A_0}\right)^2}{2g}$	Solve for center line head.	

References - Books:

Martin Wanielista, Robert Kersten and Ron Eaglin. 1997. Hydrology Water Quantity and Quality Control. John Wiley & Sons. 2nd ed.

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