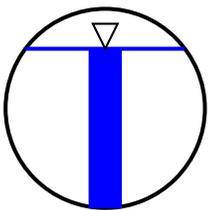


Free Online Manning Pipe Flow Calculator

Manning Formula Uniform Pipe Flow at Given Slope and Depth

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Printable Title	
Printable Subtitle	
Set units: <input type="checkbox"/> m <input type="checkbox"/> mm <input type="checkbox"/> ft <input type="checkbox"/> in	
Pipe diameter, d_0	12 in
Manning roughness, n ? (http://www.engineeringtoolbox.com/mannings-roughness-d_799.html)	.011
Pressure slope (possibly ? (../pressureslope.php) equal to pipe slope), S_0	.0011 rise/run
Percent of (or ratio to) full depth (100% or 1 if flowing full)	80 %
Results	
Flow, Q	1.3649 cfs
Velocity, v	2.0264 ft/sec
Velocity head, h_v	0.7658 in
Flow area	0.6736 ft ²
Wetted perimeter	2.2143 ft
Hydraulic radius	0.3042 ft
Top width, T	0.8000 ft
Froude number, F	0.39
Shear stress (tractive force), τ	0.0549 psf



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