If velocity of flow unknown, assume rough turbulent flow

Total head loss	h loss =	2	m		
Pipe diameter	D =	600	mm		
Relative roughness	ks =	1	mm	ks/D =	0.001667
Pipe length	L =	10	m	S =	0.2 m/m
				= 1	in 5
Area	A =	0.282743339	m2		
Hydraulic Radius	R =	0.15	m	R=D/4	Round Conduit
Reynolds Number	Rf =	911527.9736			
Kinematic viscosity	n =	1.01E-06	m2/s	water = 0.9e-6 @ 25 deg.	
				= 1.0e-6 @ 20 deg.	
				= 1.3e-6 @ 10 deg.	
Colebrook formula	f =	0.02			
Darcy-Weisbach equation	V =	10.26	m/s		
	Q =	2.901	m3/s		
		250.67	Ml/day		

Check Rough Turbulent Assumption

Re = 6095763 **Solution Correct**

V = 21853.96 m/s
Q = 6179.062 m3/s