



Find Pressure Drop

Inputs

Method of Calculation	Darcy-Weisbach	
Material	Steel (ANSI)	
Schedule	Sch. 40	
Internal Roughness	0.045999	mm
Nominal Size	25	mm
Internal Diameter	26.64	mm
Length	10.00	m
Elevation Change	0.00	m
Fluid	Water	
Temperature	20.0	°C
Density	998.000000	kg/m ³
Viscosity	1.002000	Centipoise
Volume Flow	0.0010	m ³ /sec
Mass Flow	0.9980	kg/sec

Results

Flow Type	Turbulent	
Reynolds Number	47595	
Friction Factor	0.025999	
Fluid Velocity	1.79	m/sec
Friction Loss	1.600197	m fluid
Fittings Loss	2.889606	m fluid
Total Entry Loss	0.060678	m fluid
Total Entry K	0.37	
 25mm x 1 (K= 0.37 x 1)		
Total Exit Loss	2.828928	m fluid
Total Exit K	17.25	
 25mm x 5 (K= 3.45 x 5)		
Elevation Loss	0.000000	m fluid
Pressure Drop	4.489803	m fluid