

P1= 4.00E+05 Pa
 V critical= 3 m/s
 z3= 0.3 m
 gamma= 9.81E-03 N/m³
 nu= 1.52E-06 m²/s
 e= 4.60E-05 m
 g= 9.81E+03 N/m²
 D1= 0.0409 m
 D2= 0.0266 m
 D3= 0.0266 m
 A1= 1.31E-03 m²
 A2= 5.57E-04 m²
 A3= 5.57E-04 m²

Kteev2= 60

Kelbow= 20

Kballvalve= 150

Ksud con= 0.25

Ksprinkler= 50

kteev2= 20

	Iteration	Assume				
	1	0.01	204,806.26	889.13	0.02	0.02
		0.01	204,806.26	889.13	0.02	0.02
		0.01	204,806.26	889.13	0.02	0.02
		0.01	204,806.26	889.13	0.02	0.02

V1=	V2=	V3=
3.43E+03	6.02E+03	2.06E+03

V1= 3.43E+03
V2= 6.02E+03
V3= 2.06E+03

problem 1

NUM	Assume	(D/e)3	fT3	DEN3	Q3 (m3/s)	Re3	f3new
40,774,719.36	0.01	578.26	0.02	5.70	1.49	46,954,857.30	0.02
40,774,719.36	0.02	578.26	0.02	9.61	1.15	36,148,887.41	0.02
40,774,719.36	0.02	578.26	0.02	9.61	1.15	36,147,488.50	0.02
40,774,719.36	0.02	578.26	0.02	9.61	1.15	36,147,488.27	0.02

V critival	%diffv1	%diffv2	%diffv3
3	-99.91%	-100.02%	-100.05%

	Assume							
%diff3	f2	(D/e)2	fT2	DEN2	Q2 (m3/s)	Re2	f2new	%diff2
1.25	0.01	578.26	0.02	1.12	3.36	105,719,254.58	0.02	1.25
0.00	0.02	578.26	0.02	1.12	3.36	105,719,254.58	0.02	0.00
0.00	0.02	578.26	0.02	1.12	3.36	105,719,254.58	0.02	0.00
0.00	0.02	578.26	0.02	1.12	3.36	105,719,254.58	0.02	0.00

Q1 (m ³ /s)
4.85
4.51
4.51
4.51