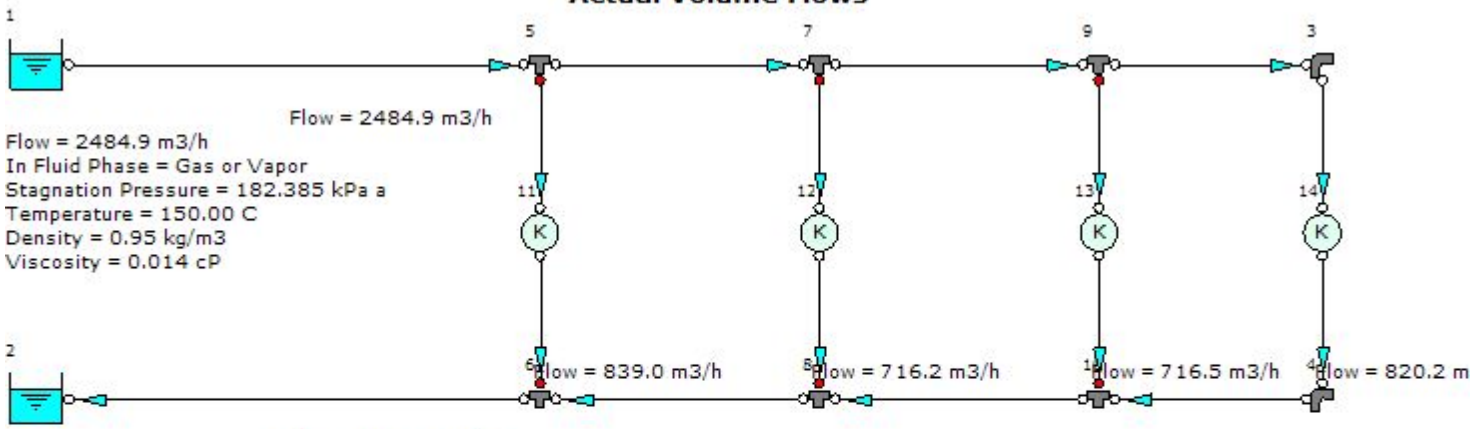
Steam Distribution System - Actual Volume Flows



Flow = 2484.9 m3/h
In Fluid Phase = Gas or Vapor
Stagnation Pressure = 182.385 kPa a
Temperature = 150.00 C
Density = 0.95 kg/m3
Viscosity = 0.014 cP

Flow = 4470.9 m3/h
In Fluid Phase = Gas or Vapor
Stagnation Pressure = 101.325 kPa a
Temperature = 146.94 C
Density = 0.53 kg/m3
Viscosity = 0.014 cP

Steel Pipe, Duct or Tube

#	Length (*)	Flow (m3/h)	Total Pressure Loss (kPa)	Size (mm)	In Stagnation Pressure (kPa a)	In Mach Number	In Temperature (C)	Out Stagnation Pressure (kPa a	Out Mach Number	Out Temperature (C)
-16	5 m	820.2	9.202	52.5	152.844	0.23	148.84	143.642	0.25	148.50
-15	5 m	716.5	6.932	52.5	150.714	0.22	148.75	143.782	0.23	148.49
-14	5 m	716.2	6.713	52.5	145.902	0.22	148.60	139.189	0.23	148.36
-13	5 m	839.0	8.707	52.5	137.354	0.25	148.32	128.647	0.27	148.00
-12	5 m	660.8	6.366	52.5	163.440	0.19	149.24	157.074	0.20	148.99
-11	1.25 m	875.6	0.314	77.9	143.163	0.12	148.49	142.849	0.12	148.48
-10	1.25 m	754.0	0.270	77.9	166.275	0.10	149.35	166.004	0.10	149.34
-9	5 m	649.1	6.055	52.5	161.011	0.19	149.17	154.957	0.19	148.95
-8	1.25 m	1653.7	1.042	77.9	141.099	0.23	148.39	140.057	0.23	148.34
-7	1.25 m	1396.9	0.887	77.9	167.069	0.18	149.38	166.182	0.19	149.35
-6	5 m	721.6	7.421	52.5	159.713	0.21	149.16	152.292	0.22	148.88
-5	2.5 m	2467.1	4.605	77.9	136.935	0.33	148.24	132.329	0.34	148.08
-4	2.5 m	1984.1	3.681	77.9	170.308	0.26	149.52	166.627	0.27	149.38
-3	5 m	3571.2	25.539	77.9	126.865	0.47	147.89	101.326	0.58	146.94
-2	5 m	757.1	8.462	52.5	165.590	0.22	149.33	157.128	0.23	149.00
-1	5 m	2484.9	12.757	77.9	182.385	0.33	150.00	169.628	0.35	149.52

Known Pressure Boundary

#	Fluid	Flow (m3/h)	Flow at STP (m3/h)	In Fluid Phase	Stagnation Pressure (kPa a)	Temperature (C)	Density (kg/m3)	Viscosity (cP)
1	water	2484.9	2484.9	Gas or Vapor	182.385	150.00	0.95	0.014
2	water	4470.9	4470.9	Gas or Vapor	101.325	146.94	0.53	0.014

Bend

#	Flow (m3/h)	Total Pressure Loss (kPa)	In Fluid Phase	In Stagnation Pressure (kPa a)	Out Stagnation Pressure (kPa a
3	755.2	0.415	Gas or Vapor	166.004	165.590
4	872.7	0.479	Gas or Vapor	143.642	143.163

T Junction

#	Channel Flow (m3/h)	Branch Flow (m3/h)	Branch K (based on channel flo	Branch Loss (kPa)	Straight Flow (m3/h)	Straight K (based on channel f	Straight Loss (kPa)	Channel Stagnation Pressure (k
5	2671.6	679.4	0.9271	9.915	1992.2	-0.0636	-0.680	169.628
6	3571.2	908.2	0.1230	1.783	2662.9	0.3664	5.465	126.865
7	2027.8	627.2	0.9277	5.616	1400.6	-0.0730	-0.442	166.627
8	2467.1	763.1	0.3011	2.254	1704.0	0.4145	3.123	136.935
9	1404.3	649.9	0.9473	2.743	754.4	-0.0319	-0.092	166.182
10	1653.7	765.3	0.7721	2.683	888.4	0.5070	1.750	141.099

Generic K

#	K (Pressure Loss Coeff)	Flow (m3/h)	Total Pressure Loss (kPa)	In Stagnation Pressure (kPa a)	In Static Pressure (kPa a)	Out Stagnation Pressure (kPa a	Out Static Pressure (kPa a)
11	4	756.7	14.938	152.292	148.557	137.354	133.213
12	3	674.4	9.055	154.957	151.938	145.902	142.697
13	2	687.6	6.360	157.074	153.894	150.714	147.399
14	1	797.9	4.284	157.128	152.844	152.844	148.440