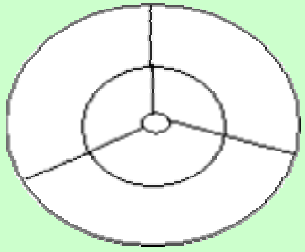
19" Diameter Fire Rings - Hole to Pipe Ratios & BTU Ratings

Hole DIA	0.0625
ID PIPE DIA	0.5
No. Holes	21

Area of Hole	0.003067962
Total Area of Holes	0.064427193
Pipe Section Area	0.196349541
Ratio (? : 1)	3.047619048

Steel Tubing .625" OD Dia



Gas	Gas Constant, #f Ft/(#m R)	STD density, #m/cu ft
Methane	96.21	0.0419

Orifice constant, estimated	Inlet Pressure, inches of H2O	Temp, F	Mass flow, #m/sec	Estimated Heat Flux, BTU/sec	Estimated Heat Flux, BTU/min	Estimated Heat Flux, BTU/hr
0.5	1.00	70	0.0007	18.25	1,095	65,694
0.5	2.00	70	0.0010	25.81	1,548	92,906
0.5	3.00	70	0.0013	31.61	1,896	113,786
0.5	3.00	70	0.0013	31.61	1,896	113,786

Gas	Gas Constant, #f Ft/(#m R)	STD density, #m/cu ft
Propane	35.04	0.1140

Orifice constant, estimated	Inlet Pressure, inches of H2O	Temp, F	Mass flow, #m/sec	Estimated Heat Flux, BTU/sec	Estimated Heat Flux, BTU/min	Estimated Heat Flux, BTU/hr
0.5	1.00	70	0.0012	11.11	667	40,010
0.5	2.00	70	0.0017	15.72	943	56,582
0.5	3.00	70	0.0021	19.25	1,155	69,299
0.5	4.00	70	0.0024	22.23	1,334	80,020