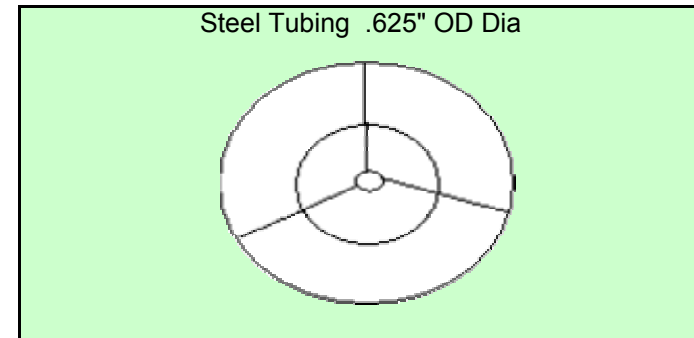


### 30" Diameter Fire Rings - Hole to Pipe Ratios & BTU Ratings

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Hole DIA</td> <td style="text-align: center;">0.052</td> </tr> <tr> <td>ID PIPE DIA</td> <td style="text-align: center;">0.5</td> </tr> <tr> <td>No. Holes</td> <td style="text-align: center;">30</td> </tr> </table>	Hole DIA	0.052	ID PIPE DIA	0.5	No. Holes	30	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Area of Hole</td> <td style="text-align: center;">0.002123717</td> </tr> <tr> <td>Total Area of Holes</td> <td style="text-align: center;">0.063711499</td> </tr> <tr> <td>Pipe Section Area</td> <td style="text-align: center;">0.196349541</td> </tr> <tr> <td>Ratio (? : 1)</td> <td style="text-align: center;">3.081854043</td> </tr> </table>	Area of Hole	0.002123717	Total Area of Holes	0.063711499	Pipe Section Area	0.196349541	Ratio (? : 1)	3.081854043
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Gas	Gas Constant, #f Ft/(#m R)	STD density, #m/cu ft	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
Methane	96.21	0.0419	0.5	1.00	70	0.0007	18.05	1,083	64,965
			0.5	2.00	70	0.0010	25.52	1,531	91,874
			0.5	3.00	70	0.0012	31.26	1,875	112,522
			0.5	3.00	70	0.0012	31.26	1,875	112,522
Propane	35.04	0.1140	0.5	1.00	70	0.0012	10.99	659	39,565
			0.5	2.00	70	0.0017	15.54	933	55,954
			0.5	3.00	70	0.0021	19.04	1,142	68,529
			0.5	4.00	70	0.0024	21.98	1,319	79,131