

RULE OF THUMB – FIREGROUND FRICTION LOSS

FLOW FL/100' 1-1/2" 50 GPM.....10 PSI 80 GPM.....20 PSI 100 GPM.....30 PSI 125 GPM.....50 PSI	2-1/2" Drop the last digit of the flow, subtract ten from that number. Example: 250 GPM -10 GPM 15 PSI/100' (Above 399 gpm, just drop the "0")	FLOW FL/100' 5" 500 GPM.....2 PSI 1000 GPM.....5 PSI 1250 GPM.....10 PSI 1500 GPM.....15 PSI 2000 GPM.....20 PSI																
FLOW FL/100' 1-3/4" 100 GPM.....15 PSI 125 GPM.....25 PSI 150 GPM.....30 PSI 180 GPM.....40 PSI 200 GPM.....60 PSI	3" Determine the flow in hundreds of gallons per minute and square the first digit. Example: 300 GPM 3 x 3 = 9 PSI / 100'	Efficient Carrying Capacity <table><tr><th>Hose Size</th><th>Flows</th></tr><tr><td>1-1/2"</td><td>100 GPM</td></tr><tr><td>1-3/4"</td><td>150 GPM</td></tr><tr><td>2"</td><td>200 GPM</td></tr><tr><td>2-1/2"</td><td>300 GPM</td></tr><tr><td>3"</td><td>500 GPM</td></tr><tr><td>4"</td><td>1000 GPM</td></tr><tr><td>5"</td><td>2000 GPM</td></tr></table>	Hose Size	Flows	1-1/2"	100 GPM	1-3/4"	150 GPM	2"	200 GPM	2-1/2"	300 GPM	3"	500 GPM	4"	1000 GPM	5"	2000 GPM
Hose Size	Flows																	
1-1/2"	100 GPM																	
1-3/4"	150 GPM																	
2"	200 GPM																	
2-1/2"	300 GPM																	
3"	500 GPM																	
4"	1000 GPM																	
5"	2000 GPM																	
FLOW FL/100' 2" 125 GPM.....10 PSI 150 GPM.....15 PSI 200 GPM.....25 PSI 250 GPM.....40 PSI 300 GPM.....55 PSI	FLOW FL/100' 4" 500 GPM.....5 PSI 700 GPM.....10 PSI 750 GPM.....12 PSI 1000 GPM.....20 PSI 1250 GPM.....30 PSI	Always maintain a residual pressure of no less than 20 PSI Forward Pressure -5 PSI per 10ft Back Pressure +5 PSI per 10ft																

Nozzle Pressures Hand Lines

Solid Stream 50 PSI
Combination 100 PSI
Low Pressure Comb. 50 PSI
Low Pressure Comb. 75 PSI

Heavy Streams

Solid Stream 80 PSI
Combination 100 PSI
Low Pressure Comb. 50 PSI
Low Pressure Comb. 75 PSI