



FIRE STREAM/FRICTION LOSS SLIDE RULE

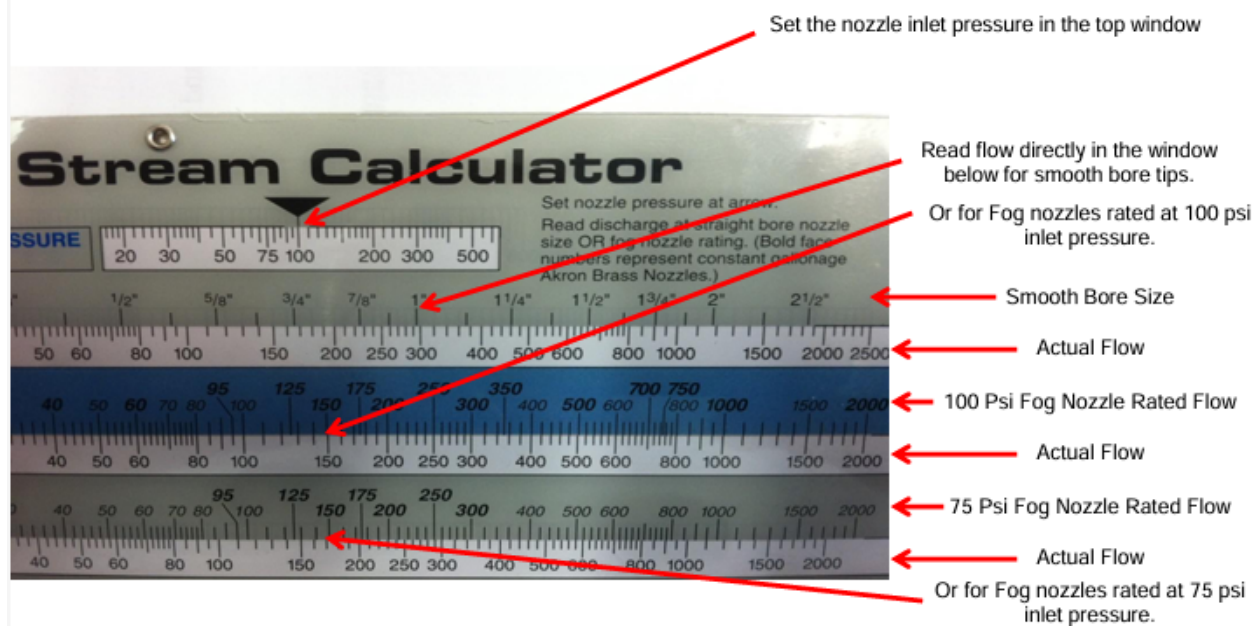
Fire Stream Slide Rule

The Fire Stream Slide rule is a tool used for basic fire hydraulic calculations.

It consists of two sides:

1. Fire Stream Calculator
2. Friction Loss Calculator

Fire Stream Calculator Side



Summary

You can vary the pressure setting in the top window to see what effect it has on actual flows for any given smooth bore size or fog nozzle flow rating. Conversely, you can dial up a desired flow and determine what pressure is needed to achieve it. Once the required nozzle pressure and flows are known, you can flip to the other side to determine the friction losses in the hose.



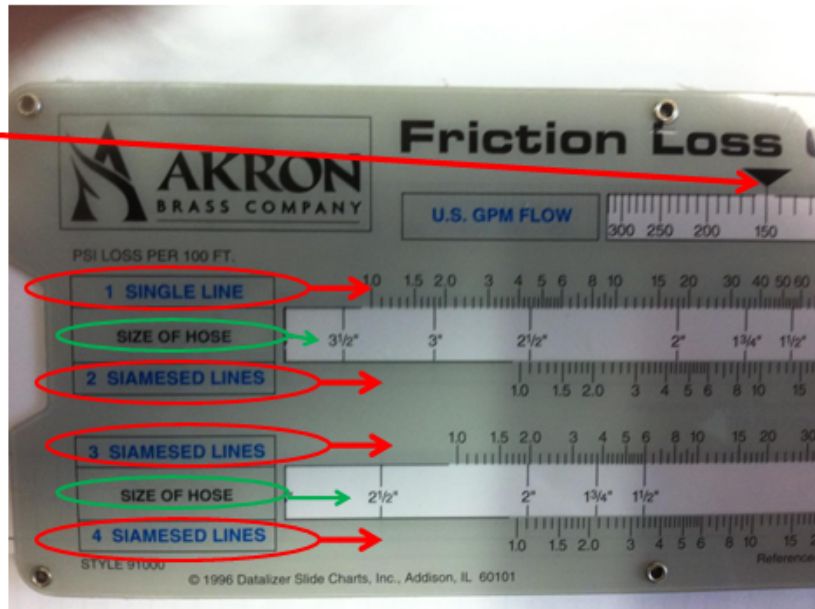
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Friction Loss Calculator Side

Set the flow in the top window

Read friction loss directly in the windows below for hose size and number of lines.

Remember that the friction loss is expressed in psi per 100ft. of hose length



Summary

The friction loss is needed in conjunction with the nozzle operating pressure and elevation loss (or gain) to determine the proper pump discharge pressure ($PDP = NP + FL \pm EL$).

PDP - Pump Discharge Pressure

NP - Nozzle Pressure

FL - Friction Loss

EL - Elevation Loss (or gain)

For more information contact Akron Brass customer service at 330-264-5678.