

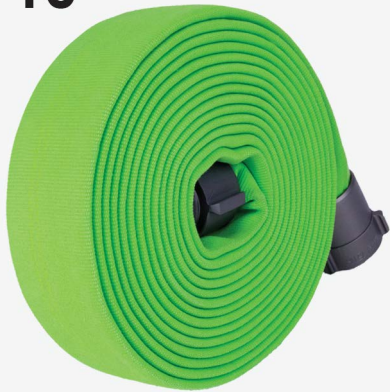


"The Hose Company"

Know Your Flows

Key Fabric Jacket
Attack Hose Flow Results

ECO-10



FDNY Spec



Key-Lite



BIG-10



Combat Ready



Magnum Lite



“Know Your Flows”

Apparatus:

- (1) Fire apparatus pump
- (1) DJ 2 1/2" X 25' 800 PSI fire hose coupled 2 1/2" aluminum NH
- (2) Inline Calibrated Gauges
- (1) 2 1/2" X 1 1/2" aluminum adapter
- (2) Attack hose X 50' coupled 1 1/2" NH
- (1) Smooth bore nozzle 15/16" tip

Procedure:

Test is performed using a 2 1/2" Double Jacket Big 10 x 25' long fire hose from the pump panel to the ground. A 2 1/2" x 1 1/2" adapter is added to the male end of the 2 1/2" to ensure an accurate reading at the inlet gauge without vibration. A calibrated inline gauge is then placed behind the adapter. Two lengths 50' long test samples are coupled together and placed in a straight line laying flat on the ground. A second calibrated inline gauge is placed at the discharge end (male end) along with a 15/16" smooth bore nozzle. The total assembly is filled with water and the nozzle has an open-end discharge until a pressure of 50 PSI is reached at the discharge end. A reading is simultaneously taken on both gauges to correctly determine the friction loss of the 100' long assembly.

Results:

Product Name	Hose Diameter	Gallons per Minute	Friction Loss per 50'	Coefficient of Flow
Key Combat Ready	1 3/4"	185 GPM	11 PSI	6.42
Key Combat Ready	2" w/1.5"	185 GPM	9 PSI	5.25
Key Combat Ready	2" w/2.5"	185 GPM	7 PSI	4.0
Key-Lite	1 3/4"	185 GPM	25 PSI	14.6
Key FDNY Spec	1 3/4"	185 GPM	13 PSI	7.59
Key Magnum Lite	1 3/4"	185 GPM	19 PSI	11.6
Key BIG-10	1 3/4"	185 GPM	22 PSI	12.8
Key ECO-10	1 3/4"	185 GPM	21 PSI	12.27
Key ECO-10	2" w/1.5"	185 GPM	12 PSI	7.0