	BOOSTERLINE 1"
150'	50 GPM = 150 EP 70 GPM = 200 EP
	JUMPLINE 1 3/4"
100'	95 GPM = 115 EP 125 GPM = 125 EP
	CROSSLAY 1 3/4"
200'	95 GPM = 125 EP 125 GPM = 140 EP 150 GPM = 155 EP 200 GPM = 200 EP
	CROSSLAY 2 ½"
200'	95 GPM = 105 EP 125 GPM = 110 EP 150 GPM = 110 EP 200 GPM = 120 EP 250 GPM = 125 EP



## **Friction Loss Constants**

ELEVATION: ± 5 PSI per floor (-1st) ± .5 PSI per foot

10 PSI Appliances flowing ≥ 350gpm
25 PSI Standpipe System
25 PSI Ground Monitor/Deck Gun
20 PSI Blitzfire Monitor

## **Pressure Constants**

80 PSI NP Master Stream (tip ≥ 1³/<sub>8</sub>")

50 PSI NP SB Handline (tip ≤ 1 ¼")

100 PSI NP Fog Nozzles

150 PSI Sprinklers w/o pump

200 PSI Max Standpipe w/o Pump

100 PSI Begins Relay Pumping

140 PSI Apt. Load Deploy to WYE

360 PSI Max High Rise Pumping

	Coefficient					
1 <sub>2</sub> L	1 <sup>3</sup> / <sub>4</sub> " = 12 2 <sup>1</sup> / <sub>2</sub> " = 2					
FL=CQ2	_ /					
	Siamese (2) 2 $\frac{1}{2}$ " = .5					
ш	Triamese (3) 2 ½"= .22					
	<b>5</b> " = .08					
	GPM= 29.7d <sup>2</sup> √NP					

EP=NP+FL+SA+/-EL

Max Operating
Pressure

1 3/4" HOSE 365 PSI 2 1/2" HOSE 365 PSI 5" HOSE 185 PSI

		GPM	100'	200'	300'	400'	500'	600'	700'	800'
	2 ½" w/ 100psi Fog	95	105	105	105	110	110	110	115	115
	<b>1</b>	125	105	110	110	115	115	120	120	125
		150	105	110	115	120	125	130	130	135
Fog	200	110	115	125	135	140	150	155	165	
		250	115	125	140	150	165	175	190	200
_	TID ODI 1001 0001 1001 F001									

HighRise Hose Pack

**265** GPM w/SB 1<sup>1</sup>/<sub>8</sub>" **75** psi (50NP+25FL) **150**' of 2<sup>1</sup>/<sub>2</sub>" Hose

2	TIP	GPM	100'	200'	300'	400'	500'
21/2"	1"	210	60	70	80	85	95
W/SB	1 <sup>1</sup> / <sub>8</sub> "	265	65	80	95	110	120
<b>H</b>	1 1/4"	330	75	95	115	140	160

APARTMENT	140 PSI min to wye to deploy apartment load properly					
LOAD	PSI 1 line / PSI both (WYED) lines					
2 ½" SUPPLY	50'	100'	200'	300'	400'	500'
95 GPM EA	115/115	115/120	115/125	120/135	120/140	120/150
125 GPM EA	120/125	125/135	125/145	130/160	135/170	135/180
150 GPM EA	130/135	135/145	135/165	140/180	145/200	150/220
200 GPM EA	155/175	160/190	165/225	175/255	180/285	190/320

**Class A Common Combustibles** 

Fire Attack: 0.3-0.5% Exposures: 1.0% Overhaul: 0.1%

**Class B Flammable/Combustible Liquids** 

**Hydrocarbons:** 3.0% (petroleum based - float on water)**Polar Solvents:** 6.0%

(alcohol, acetone, esters mix w/H2O)

Eductor: 95 or 125 GPM (nozzle MUST match educator) 200 psi EP @ inlet; 150' of 1 3/4" MAX after eductor

ProPak: 12 GPM @ 100 psi

## CCFD Pump Chart

FOAM

ALNIAL							
Friction Loss Average							
T11 (#13583) Fog 70psi or 2½" SB 100psi							
T16 (#15708) Fog 65psi							
T17 (#13582) Fog 70psi or 2½" SB 100psi							
T18 (#12421) Fog 50psi or <mark>2" SB 50psi</mark>							
T22 (#13579) Fog 65psi							

Waterway rated @ 250psi MAX

Portable Ground Monitor							
TIP	NP	GPM	FL 100' $2^{1}/2$ " Siamese	FL 100' of 5"			
1 <sup>3</sup> / <sub>8</sub> "	80	500	12 PSI	2 PSI			
1 ½"	80	600	18 PSI	3 PSI			
1 3/4"	80	815	32 PSI	6 PSI			
2"	80	1065	56 PSI	9 PSI			

	DIA.	GPM	50'	100'
Ţ	1 3/4"	95	5 PSI	10 PSI
Friction	1 3/4"	125	10 PSI	20 PSI
	1 3/4"	150	15 PSI	30 PSI
	1 3/4"	200	25 PSI	50 PSI
Loss	2 1/2"	95	1 PSI	2 PSI
Š	2 1/2"	125	2 PSI	4 PSI
U)	2 1/2"	150	3 PSI	5 PSI
50	2 1/2"	200	5 PSI	10 PSI
50'&100	2 1/2"	250	10 PSI	15 PSI
7	5"	250		1 PSI
6	5"	500		2 PSI
•	5"	750		4 PSI
	5"	1000		8 PSI
	<del></del>	<del></del>	<u> </u>	<del></del>

Si	PSI	3	2	1	
tatic	90	80 psi	75 psi	70 psi	
) Pre	80	75 psi	70 psi	60 psi	
<b>SS</b>	70	65 psi	60 psi	55 psi	
	60	55 psi	50 psi	45 psi	
	50	45 psi	40 psi	35 psi	

35 psi 30 psi 25psi

**Like Volumes**