



San Ramon Valley Fire Protection District Pump Pressure Chart

Side
A

Nozzle	GPM	NP	FL/100'	100'	200'	300'	400'	500'	600'	700'	800'	900'	1000'	Max
Live Line 1-1/2" Fog	30	100	2	100	105	105	110	110	115	115	115	120	120	>2500'
	60	100	9	110	115	125	135	145	150	160	170	180	185	1700'
	95	100	22	120	145	165	185	210	230					600'
	125	100	38	140	175	215	250					400'		

Live Line 1-3/4" Fog	30	75	1	75	80	80	80	80	85	85	85	90	90	>2500'	
	95	75	14	90	105	115	130	145	160	175	185	200	215	1200'	
	125	75	24	100	125	150	170	195	220	245					700'
	150	75	35	110	145	180	215	250					500'		
	200	75	62	135	200									250'	
7/8" Smooth Bore	160	50	40	90	130	170	210							400'	

2-1/2" Fog	125	100	3	105	105	110	115	115	120	120	125	130	130	>2500'
	150	100	5	105	110	115	120	125	125	130	135	140	145	>2500'
	200	100	8	110	115	125	130	140	150	155	165	170	180	1800'
	250	100	13	115	125	140	150	165	175	190	200	215	225	1200'

Progressive Hose Lay	20	100	1	100	100	105	105	105	105	105	110	110	110	>2500'
	75	100	14	115	125	140	155	170	180	195	210	220	235	2200'

Standpipe 1-3/4" Fog	30	75	1	100	105	105								
	95	75	14	115	130	140								
	125	75	24	125	150	175								
	150	75	35	135	170	205								
	200	75	62	160	225									
7/8" Smooth Bore	160	50	40	115	155	200								

Wyed Lines			FL/100'	FL/100'
Nozzles	GPM	NP	2-1/2"	1-3/4"
One 1-3/4"	95	75	5	14
Two 1-3/4"	95 X 2	75	8	14
One 1-3/4"	150	75	5	35
Two 1-3/4"	150 X 2	75	20	35

2-1/2" Friction Loss	GPM	FL/100'
	100	2
	200	8
	300	18
	400	32
500	50	



San Ramon Valley Fire Protection District

Pump Pressure Chart

Side

B

Nozzle	GPM	NP	FL/100'	25'	100'	200'	300'	400'	500'	600'	700'	800'	900'	Max
Ground Monitor Fog Nozzle <i>includes 15 PSI appliance loss</i>	500	80	5		100	105	110	115	120	125	130	135	140	>2500'
	750	80	11		105	120	130	140	150	165	175	185	195	1400'
	1000	80	20		115	135	155	175	195	215	235			700'
	1250	80	31		125	160	190	220	250					500'
1-3/8" Smooth Bore	500	80	5		100	105	110	115	120	125	130	135	140	>2500'
1-1/2" Smooth Bore	600	80	7		100	110	115	125	130	140	145	155	160	2100'
1-3/4" Smooth Bore	800	80	13		110	120	135	145	160	170	185	195	210	1200'
2" Smooth Bore	1000	80	20		115	135	155	175	195	215	235			700'
Foam	500	100	5		120	125	130	135	140	145	150	155	160	>2500'

Ladder Pipe Fog Nozzle <i>includes 75 PSI appliance loss add 1/2 PSI per foot of elevation</i>	500	80	5	155	160	165	170	175	180	185	190		
	750	80	11	160	165	180	190	200	210	225	235		
	1000	80	20	160	175	195	215	235					
	1250	80	31	165	185	220	250						
1-3/8" Smooth Bore	550	100	6	175	180	185	195	200	205	210	215		
1-1/2" Smooth Bore	675	100	9	175	185	195	200	210	220	230	240		
1-3/4" Smooth Bore	900	100	16	180	190	205	225	240					
2" Smooth Bore	1200	100	29	180	205	235							

4" Friction Loss	GPM	FL/100'
	500	5
	750	11
	1000	20
	1250	31
	1500	45
	1750	61
2000	80	

Class B Foam	1-1/2"	95	100	22					210					200'
	1-3/4"	95	75	14					210	210	210			400'

Class A Foam Nozzle	Booster Line	Sprinkler System Connection	Deck Gun	Elevation Pressure	Maximum Main Pump Pressure	Maximum Booster Pump Pressure
100 PSI	100 PSI	150 PSI	115 PSI	+/- 5 PSI per 10'	250 PSI	400 PSI