



FRICITION LOSS DATA FOR RUBBER COVERED HOSE

HOSE FRICTION LOSS (PSI PER 100 FT)				
GPM Flowing	1-1/2"	1-3/4" x 1-1/2" Couplings	2" x 1-1/2" Couplings	2-1/2"
150	47.5	21.3	8.7	2.9
160	53.5	25.0	10.0	3.3
180	69.4	30.2	12.9	4.2

HOSE FRICTION LOSS (PSI PER 100 FT)				
GPM Flowing	1-3/4"	2" x 2-1/2" Couplings	2-1/2"	3" x 2-1/2" Couplings
200	40.0	16.0	5.1	2.1
220	46.0	19.0	6.1	2.5
240	56.0	23.5	7.3	2.9
250	60.0	24.8	8.0	3.4
280	75.0	30.2	9.9	4.0
300		35.1	11.8	4.6
320		40.2	13.1	5.2
340		47.0	14.9	5.8
350		49.9	15.4	6.2
380		56.0	18.3	7.3
400		62.4	20.0	8.2
420		76.0	24.6	9.8

Rubber hoses include: Hi-Vol[®], Hi-Combat[®], Firepower, Red Chief[®], Hi-Power, Armour Guard[®], and Redskin.

Note: add 5 psi for each story of building and each wye or siamese.

A New Approach to Bringing Water to the Fire



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HOSE FRICTION LOSS (PSI PER 100 FT)						
GPM Flowing	3" x 2-1/2" Couplings	4"	5"	GPM Flowing	4"	5"
400	8.2	1.46	0.54	1,000	9.11	3.37
450	10.5	1.80	0.70	1,050	10.00	3.80
500	12.8	2.28	0.84	1,100	11.02	4.07
550	15.2	2.80	1.00	1,150	12.00	4.50
600	18.4	3.28	1.21	1,250	13.67	5.37
650	21.7	3.80	1.40	1,300	15.40	5.69
700	24.9	4.46	1.65	1,400	17.86	6.60
750	29.0	5.00	1.90	1,500	20.50	7.57
800	33.0	5.83	2.15			
850	37.0	6.60	2.50			
900	42.5	7.38	2.73			
950	47.0	8.20	3.00			

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