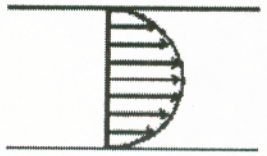
HAZEN - WILLIAMS FLOW EQUATION

Chevron Plexco®

(708) 350-3700
(630 Area Code After 7/96)

FLOW VELOCITY



$$Pf = 0.0009015\ L \left[\frac{100}{C}\right]^{1.85} \left[\frac{Q^{1.85}}{d^{4.8655}}\right]$$

Equation 15, Page 10

Q = A V Equation 23, Pg 14

The information contained herein cannot be guaranteed because the conditions of use are beyond our control. This document should not be substituted for the judgement of a professional engineer in determining the suitability of any pipe for a given project as the methodology herein may not accurately represent the site conditions or be inclusive of all parameters that must be considered. The user of this information assumes all risk associated with its use.

ENTER THE KNOWN VALUES IN THE BOXES BELOW.

Pf = Head Loss =	3.64	psi
L = PLEXCO Pipe Length=	1750	ft
C = Friction Factor =	155	
Q = Flow =	7.5	gpm
d = Inside Diameter =	1.53	in
OD = Outside Diameter =	1.900	in
DR = Dimension Ratio =	11	
V = Flow Velocity (ft/s) =	1.3	

NOTE: Flow velocity has a significant effect on water hammer which must also be analyzed.