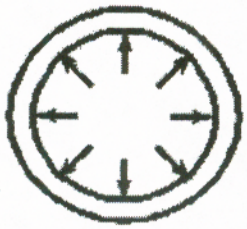
ISO EQUATION FOR PRESSURE

Chevron Plexco®

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

INTERNAL PRESSURE



$$P = \frac{2\ HDB\ fE\ fT}{DR - 1}$$

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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

HDB = Hydrostatic Design Basis (@ 73 F) =	1600	psi
fE = Environmental Factor =	0.50	
fT = Temperature Factor =	1.00	
P = Internal Pressure =	143	psi
DR = Dimension Ratio =	12.19	

Required Standard Dimension Ratio= 11.

NOTE: This program does not consider manufacturing capabilities or fitting availability.

PLEXCALC - Version 1.11

WITH TDH = 288 ft ≈ 290 ft = 126 PSI

SET PRV TO 130 PSI

THEN PIPE SHOULD WITHSTAND 1.1 x 130 PSI MINIMUM (±10% ON PRV)

∴ 143 PSI ⇒ SDR 11.0 WILL BE ADEQUATE, AS LONG AS IT IS ALWAYS COVERED WITH SOIL TO ENSURE THAT TEMP < 100 DEG F