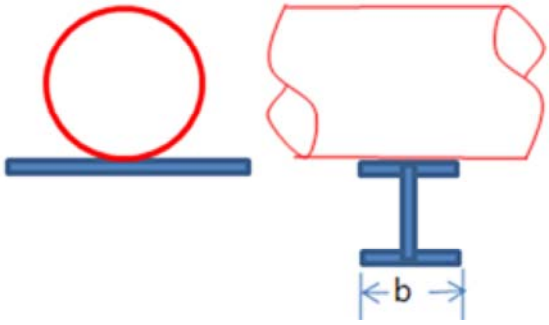
PIPE CIRCUMFERENTIAL BENDING STRESS AT SUPPORT

INPUT DATA PGM RUN ***V1.0 / Pgm By C.M.Ryu/P.E***

* Item Name	E-1004		* Description	NODE-320	
* Insulation thickness	0	in	* Material	A106-B	
* Beam Width, b	0.25	in	* Pipe O.D	18	in
* Elastic Modulus, E	29500000	psi	* Pipe thickness	0.375	in
* Support Span	20	ft	* Contents Specific Gravity	1	



RESULT OF CALCULATION

Reference: Roark Formulas for Stress and Strain, 6th Edition-Table 30, Equation 8b.

1. Support Load, P	3,435.4	Lbs
2. Bend Stress, σ	108,357.7	psi
3. Allowable , σA	86,042	psi

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