

CURVED and MITERED SEGMENTS of PIPE
MITER BENDS per ASME B31.3

1. PIPE DATA and DESIGN CONDITIONS

Pipe DATA:

OD:	42	in
Nom Wall:	0.37519685	in
Mill Tol:	0.125	decimal
E:	0.95	
Material:	API 5L-B	
S:	20000	psi
c:	0.05905512	in

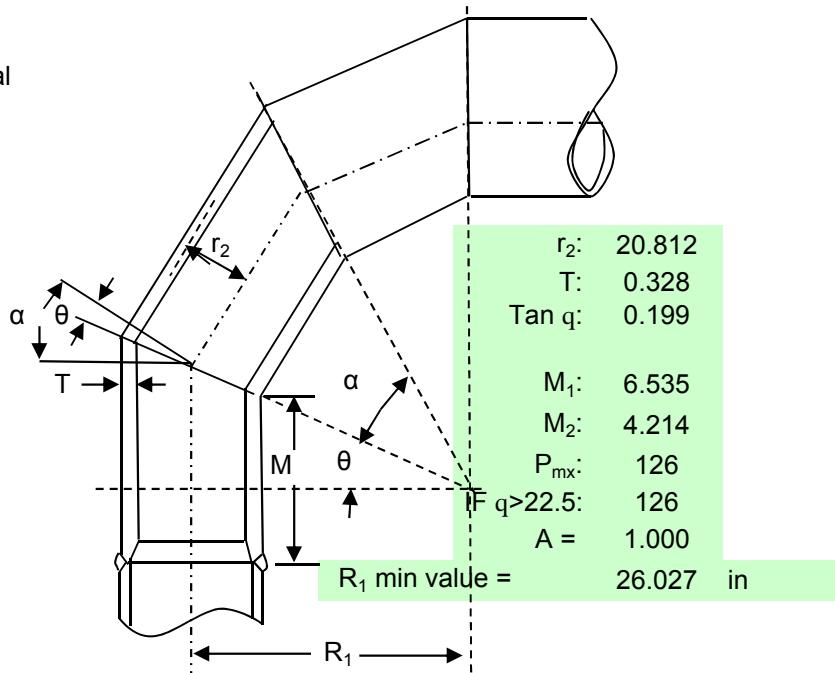
DESIGN CONDITIONS:

T:	150	F
P:	124	psig

2. MITER DATA

θ :	11.25	deg
R_1 :	42	in
M:	6.535	in

eq. 4a: $P_m =$	126	psig
eq. 4b: $P_m =$	165	psig
eq. 4c: $P_m =$	77	psig



The maximum permissible pressure for this miter bend is: 126 psig
So 126 psig > 124 psig, MITER BENDS is OK.