Minimum Design Temperature: figure 323.2.2A & B

13	**mTemp** (°F) =	exemption temperature from figure 323.2.2A curve B		-20.00
14	**SR1** =	((P*(D-2*t*Y1))/(2*E*t*W))/S stress ratio Y1		
15			((600*(8.625-2*0.219*0.4))/(2*1*0.219*1))/20000 =	0.5781
16	**SR2** =	((P*(D-2*t*Y2))/(2*E*t*W))/S stress ratio Y2		
17			((600*(8.625-2*0.219*0.491))/(2*1*0.219*1))/20000 =	0.5754
18	**SR** =	IF(tr1>=D/6,SR2,SR1) 323.2.2(b)(1)		
19			IF(0.128>=8.625/6,0.575,0.578) =	0.5781
20	**TR** (°F) =	MDMT reduction from table 323.2B		44.40
21	**MDMTmax** (°F) =	MAX(mTemp-TR,-55) material maximum MDMT	MAX(-20-44.4,-55) =	-55.0000
22	*CheckMDMT* =	MDMTmax<=MDMT	-55<=-50 =	Ok

Alternate Method:

23	=	(P*D)/(2*t)/S	(600*8.625)/(2*0.219)/20000 =	0.5901
24	**TR** (°F) =	MDMT reduction from table 323.2B		42.00
25	**MDMTmax** (°F) =	MAX(mTemp-TR,-55) material maximum MDMT	MAX(-20-44.4,-55) =	-55.0000
26	*CheckMDMT* =	MDMTmax<=MDMT	-55<=-50 =	Ok