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TABLET GIVEAWAY CONTEST MODEL

Allowable Forces and Moments at Equipment Nozzles

Sl. No.	CAEPIPE Node No.	Equipment Name	Fx (N)	Fy (N)	Fz (N)	Mx (Nm)	My (Nm)	Mz (Nm)
1.	1000	LB01	15000	10000	15000	5000	10000	5000
2.	2000	MA01 (Max)	1175	2250	4500	1650	1700	1700
		MA01 (Min)	-2350	-4500	-2250	-3300	-850	-1700

Support Locations and their definitions

Sl. No.	CAEPIPE Node No.	Description of the Support given in Stress ISO
1.	30	Slide support 1, high
2.	70	Special support
3.	110	4-sided guide 6, high
4.	130	3-sided guide 5, high
5.	145	3-sided guide 5, high
6.	170	3-sided guide 5, high
7.	200	Slide support SFS 5362 type 1, high
8.	220	Slide support SFS 5362 type 1, high
9.	250	2-sided guide 4, high
10.	420	Special support
11.	430	Special support

Questions:

1. Is the model code-compliant? Yes No
2. Are the nozzle forces and moments at node 1000 under the allowables (in operating case)? Yes No
3. Are the nozzle forces and moments at node 2000 under the allowable (in operating case)? Yes No
4. The second largest displacement (ignoring sign) in the Operating case occurs at which node: 1000, 2000, 140B
5. The maximum hanger hot load occurs at which of the following hanger nodes: 110 170 200 430
6. Briefly, suggest methods to try to reduce the loads at node 2000. Please keep in mind that supports can be added only at locations noted above.

Enter the contest here: <http://www.sstusa.com/solve-this-model.php>

