HOSE MASTER
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Cleveland • Houston • Atlanta • Reno

ISO 9001
Registered Quality System

NAHAD Metal Hose Listed Manufacturer

Customer Information	
Company Name:	
Contact Name:	
Contact Phone:	
Contact Email:	
Dwg No:	

Hose Master Use Only	
Opp No:	
Initiator:	
RSM:	
Quantity Requested	

No.	Parameter		Value	Units
1	**Nominal Diameter** *REQUIRED - Determines size of fittings and bellows.*			in.
2	**Internal Design Temperature** *REQUIRED - Determines if derating of the material is required.*			Deg. F
3	**Internal Design Pressure** *REQUIRED - Used to determine bellows design.*			psi
4	**End Fitting**	Inlet	Outlet	
	REQUIRED - How will the expansion joint connect to the existing piping system.	Flange/Pipe		
		Sub Type		
		Rating/Sch		
		Material		
5	**Overall Length** *Must have overall length **OR** operating movements. Length available for expansion joint in piping system.*			in.
6	**Operating Movements.**	Axial		in.
	*Must have overall length **OR** operating movements. The maximum amount of movement which an Expansion Joint is capable of absorbing.*	Lateral		in.
		Angular		Deg.
7	**Bellow Material** *Requested material type for bellows element (Default material selection is 321 SS, Media and application type may provide material selection criteria).*			
8	**Media** *The substances being conveyed through a system.*			
9	**Application** *The specific purpose for which the Expansion Joint is meant to fulfill.*			
10	**Liners** *Minimizes contact between the inside surface of the bellows and the media being conveyed.Used to avoid flow induced vibration and abrasion from the flowing media.*			
11	**Hardware** *Used to withstand the pressure thrust of the expansion joint once pressurized.*			
12	**Covers** *Provides limited protection of the exterior surface of the bellows from foreign objects.*			
13	**Type** *The style of expansion joint requested to meet the unique application.*			
14	**Specs** *Any applicable codes or customer specifications*			

Information for numbers 1 through 4 are required, as well as information for number 5 OR 6, for a design. Numbers 7 through 14 are additional options that will assist in achieving the most suitable design.

With the requisite number of above parameters, Hose Master will be able to design an unrestrained single / universal expansion joint. Any more information that is provided will only help refine the design to better fit the application. Nominal Diameter assumed to be NPS. With basic information, we would provide an unrestrained expansion joint (built to E.J.M.A. 9) with A240-321 bellows material and fixed carbon steel end fittings (if applicable).