



# HOSE MASTER

1233 East 222nd Street • Cleveland, Ohio 44117  
(800) 221-2319 • Fax: (216) 481-7557 • www.hosemaster.com  
*Cleveland • Houston • Atlanta*

ISO 9001  
Registered Quality System



## METRIC

### Expansion Joint Physical Characteristics and Installation Variables Form

#### *How to complete this form*

To provide you with the safest, longest lasting expansion joint(s) possible for your application, it is very important that you complete as much information below as possible. Please note this inquiry consists of four parts: Contact information, Physical Characteristics information, Installation Variables, and Comments.

Step 1: Fill in as much contact information as possible. This will not only help us to send the proper information to you, but will enable us to better understand where the expansion joint(s) will be used.

Step 2: Fill in as much information in Physical Characteristics section as possible

Step 3: Fill in as many Installation Variables as you know

Step 4: Write in any comments you deem necessary

Step 5: Submit Inquiry

#### Contact Information -----

Date \_\_\_\_\_

Distributor/Company Name \_\_\_\_\_

Address

Street \_\_\_\_\_

City / State \_\_\_\_\_

Zip Code \_\_\_\_\_

Contact Name \_\_\_\_\_

Contact E-mail Address \_\_\_\_\_

Contact Phone Number \_\_\_\_\_

## Physical Characteristics

No.	Parameter	Value	Units	Other Units
1.0	Expansion Joint Type (Single) / (Universal)			
2.1	Bellow Nominal Diameter		mm	
2.2	Bellow Inside Diameter		mm	
2.3	Bellow Outside Diameter		mm	
2.4	Bellow Live Length - LB		mm	
2.5	Universal Live Length - ULL		mm	
2.6	Number of Full Convolutions			
2.7	Number of Plies			
2.8	Ply Material 321 / 316 / 304 / 625			
2.9	Ply Thickness		mm / gauge	
2.10	Pitch		mm	
2.11	Wall Height i.e. Convolution Height		mm	
3.1	Expansion Joint Assembly Length (Face-to-Face)		mm	
3.2	Expansion Joint Overall Length		mm	
4.1	EJ End Fitting Type (Flange) / (Weld End) / (Bellows Only)			
	Inlet			
	Outlet			
4.2	Flange Specification (ASME B16.5) / (AWWA) / (DIN)			
	Material CS / 304 / 316			
4.3	Nonstandard Flange Dimensions			
	Inside Diameter (I.D.)		mm	
	Outside Diameter (O.D.)		mm	
	Bolt Hole Diameter (B.H.D.)		mm	
	Bolt Hole Circle (B.H.C.)		mm	
	Thickness		mm	
4.4	Weld End Specification (Welded) / (Seamless)			
	Length		mm	
	Material CS / 304 / 316			
	Thickness		mm	
4.5	Weld Collars (Yes) / (No)			
4.6	Skirts Lengths		mm	
5.1	Liner (Standard) / (Telescopic) / (Drop in) / (Full Flow)			
5.2	Liner Inside Diameter		mm	
5.3	Liner Material 321 / 316 / 304			
5.4	Liner Thickness		mm	
5.5	Liner Drain Holes (Yes) / (No)			
5.6	Liner Length		mm	
5.7	Internal Packing (Yes) / (No)			
5.8	Internal Packing ID		mm	
5.9	Internal Packing Material			
5.10	Internal Packing Thickness		mm	
5.11	Internal Packing Length		mm	
6.1	Spool Type (Pipe) / (Tube) / (Sheet) / (Integral)			
6.2	Spool Material CS / 304 / 316			
6.3	Spool Thickness		mm	
6.4	Spool Length		mm	
7.1	Hardware Type (Limit) / (Tie) / (Control) Rods			
7.2	Hardware Nut Spacing / Slot Size		mm	
7.3	Center Spool Support (Yes) / (No)			
8.1	Cover Type (Standard) / (Telescopic)			
8.2	Cover Attachment Method (Attached)/(Removable)			
8.3	Cover Material CS / 321 / 304			
8.3	Cover Thickness		mm	
8.5	External Insulation (Yes) / (No)			
9.1	Installation Presets (Yes) / (No)			
	Axial Compression		mm	
	Axial Extension		mm	
	Lateral		mm	
	Angular		degrees	
9.2	Cold Springing (Yes) / (No)			

- Unshaded items are critical to an expansion joint design.

QTY \_\_\_\_\_ QUOTE # \_\_\_\_\_

- Any assumption made for an unshaded item must be agreed upon by all parties.

DRWG # \_\_\_\_\_

Installation Variables				
No.	Parameter	Value	Units	Other Units
10.1	Internal Design Pressure:		Bar / Mpa	
10.2	Internal Temperature (min) / (max):		°C	
11.1	Piping System - Type (Pipe) / (Tube)			
11.2	Piping System Anchored & Guided (Yes) / (No)			
11.3	Nominal Size		mm	
11.4	Maximum Length of Opening		mm	
12.0	Type of Application (Exhaust) / (Steam Service)			
13.1	Media			
13.2	Media Concentration		%	
13.3	Media State (Liquid) / (Gas) / (Solids)			
13.4	Media Density		Kg/m <sup>3</sup>	
14.1	Flow Velocity		m / s	
14.2	Flow (Single) / (Bi-Directional)			
14.3	Installation Position (Horizontal) / (Vertical Up) / (Vertical Down)			
15.1	Operating Movements			
	Axial Compression		mm	
	Axial Extension		mm	
	Lateral		mm	
	Angular		Degrees	
15.2	Requested Number of Cycles			
15.3	Start-up Movements:			
	Axial Compression		mm	
	Axial Extension		mm	
	Lateral		mm	
	Angular		Degrees	
15.4	Installation Offsets			
	Axial Compression		mm	
	Axial Extension		mm	
	Lateral		mm	
	Angular		Degrees	
15.5	Will the EJ See Vibration (Yes) / (No)			
	Amplitude		mm	
	Frequency		Hz	
15.6	Bellows Spring Rate			
	Axial		N/mm	
	Lateral		N/mm	
	Angular		N-mm / Deg	
4.1	Installation End Fitting Type (Flange) / (Weld End) / (Bellows Only)			
	Inlet			
	Outlet			
4.2	Flange Specification (ASME B16.5) / (CAT) / (DIN)			
	Material CS / 304 / 316			
4.3	Nonstandard Flange Dimensions			
	ID		mm	
	OD		mm	
	BHD		mm	
	BHC		mm	
	Thickness		mm	
4.4	Weld End Specification (Welded) / (Seamless)			
	Length		mm	
	Material CS / 304 / 316			
	Thickness		mm	
16.0	Design Standard (EJMA) / (ASME 31.3) / (ASME B31.1) / (PED)			
17.1	Does the EJ need to be Protected from External Damage (Yes) / (No)			
17.2	Maximum Assembly OD		mm	
17.3	External Design Pressure:		Bar / Mpa	
17.4	Ambient Temperature (min) / (max):		°C	
17.5	External Environment Media			
17.6	External Flow Rate		m / s	
17.7	Is the Piping System Insulated (Yes) / (No)			

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QTY \_\_\_\_\_

QUOTE # \_\_\_\_\_

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**Comments** -----

Please indicate any comments in the box below.



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