AXIAL DYNAMICS

When it comes to thinking lateral – Think Axial

ITEM NUMBER	1	2	3	4
QUANTITY				
DIAMETER				
BELLOWS TYPE				
FLOW MEDIA				
WORKING PRESSURE, KPa				
WORKING TEMP,°C				
AXIAL MOVEMENT, mm				
LATERAL MOVEMENT, mm				
ANGULAR MOVEMENT, °				
BELLOWS MATERIAL				
FLANGE MATERIAL				
INLET FLANGE DRILL PATTERN				
OUTLET FLANGE DRILL PATTERN				
FOR SPECIAL FLANGES? PUT THE DRILL PATTERN IN THE SKETCH BOX BELOW	Y / N	Y / N	Y / N	Y / N
PIPE MATERIAL				

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TYPE OF HARDWARE - TIE RODS, HINGES?				
HAVE THE THE BELLOWS PRESSURE THRUST FORCES BEEN CONSIDERED?	Y / N	Y / N	Y / N	Y / N
FLOW LINER REQUIRED?	Y / N	Y / N	Y / N	Y / N
FLOW VELOCITY IF KNOWN				
PIPE GUIDED AND ANCHORED	Y / N	Y / N	Y / N	Y / N

SKETCH

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Other Considerations:

Y / N Are covers required for personnel safety or bellows protection?

Y / N Will bellows axial spring force damage other equipment or mountings? (Bellows ID * KPa)
What is the temperature dewpoint for any corrosive mediums?

Y / N Is the bellows mounted vertical or horizontal?

Y / N Can pipeline flange hole orientation be guaranteed within 2 degrees (Otherwise use vanstone flanges)

Y / N Are lifting lugs required?

Y / N Has full consideration to anchoring the pipeline been given and the pressure thrust exerted by the bellows?

Y / N Is the bellows subject to vibration?

Y / N Will the outside dimensions of the bellows foul surrounding structures?

Y / N Are restrainers, e.g. tie rods, hinges or gimbals, needed?

Y / N Are special flanges required? If so advise O.D., I.D., thickness, PCD, diameter and number of Holes and holes orientation.

Y / N Is the standard cycle life acceptance (STD = 5000; XB = 1000)

SKETCH & COMMENTS:

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