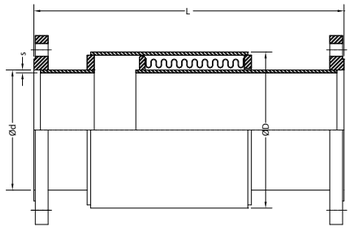
EXTERNALLY PRESSURISED
Expansion Joints



DESIGN VALUES

DN	25-1000
Bellows Material	304, 316, 321
Balance of Material	Carbon Steel, Stainless Steel
Design Pressure	up to 40 barg
Design Temperature	up to 400°C

KLINGER India

A tougher, safer choice for your mission-critical operation

In an Externally Pressurised Expansion Joint, media flow is on the external surface of the bellows and the internal surface of the pipeline itself works as a liner to reduce turbulence, making it much more effective in absorbing large axial movements and eliminating column instability. Its convolution is protected from any damages during transportation, thus making the bellow less likely to leak or fail.



Advantages

- Great for underground pipelines or areas with large axial movements
- Significantly reduced internal pressure and improved column instability
- Enhanced bellow protection for a more streamlined flow
- Easy to insulate
- Minimal pressure losses
- Slow medium escape in the event of failure, making repair work much safer

Applications

- Hot & Cold water pipelines
- Superheated water
- Steam and condensate pipelines
- Industrial applications
- HVAC lines
- In large plants with thermal equilibrium and mechanical expansion
- Geothermal plants
- Integrated city district heating

Flanged End

Nominal Diameter (DN)		Design Pressure (barg)	Axial (-) (mm) Length (L) (mm)				Ød (mm)	s (mm)	ØD (mm)	Effective Area (cm^2)
			30	60	90	120				
25	1"	40	275	395	520	-	33,7	2,6	88,9	54
32	1 1/4"	40	285	405	530	-	42,4	3,2	88,9	54
40	1 1/2"	40	295	415	535	-	48,3	3,2	88,9	54
50	2"	40	300	420	555	710	60,3	3,6	114,3	89
65	2 1/2"	40	315	430	560	715	76,1	3,6	114,3	91
80	3"	25	315	435	585	725	88,9	4,0	139,7	141
100	4"	25	320	450	585	750	114,3	4,5	165,0	196
125	5"	25	335	465	595	765	139,7	5,0	193,7	272
150	6"	25	345	475	615	790	165,0	5,0	219,1	346
200	8"	25	395	520	685	860	219,1	4,5	323,9	572
250	10"	25	420	585	760	950	273,0	5,6	355,6	829

Weld End

Nominal Diameter (DN)		Design Pressure (barg)	Axial (-) (mm) Length (L) (mm)				Ød (mm)	s (mm)	ØD (mm)	Effective Area (cm^2)
			30	60	90	120				
25	1"	40	275	395	520	-	33,7	2,6	88,9	54
32	1 1/4"	40	285	405	530	-	42,4	3,2	88,9	54
40	1 1/2"	40	295	415	535	-	48,3	3,2	88,9	54
50	2"	40	300	420	555	710	60,3	3,6	114,3	89
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200	8"	25	395	520	685	860	219,1	4,5	323,9	572
250	10"	25	420	585	760	950	273,0	5,6	355,6	829

Please consult with our technical department for different working conditions and design parameters.

Movements are non-concurrent

Subject to technical alterations.
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