



EXTERNAL PRESSURIZED EXPANSION JOINTS

External pressurized expansion joints are being used as an alternative for axial type of expansion joints, which movement capability is limited. External pressurized expansion joints are preferred to use for long and straight pipelines in order to reduce the number of expansion joints requirement. External pressurized expansion joints are capable to absorb 60-90-120-150mm total movement, easy to install and user friendly. It is also easy to cover with any insulation material and it is designed to absorb both lateral and vertical movements. The flow media can pass through both bellow and outside of bellow that this feature increases the capability to absorb high pressures.

External pressurized expansion joints can be used for all type of flow media and pipeline systems.

Connection:

Fixed flanged, floating flanged, butt-weld or screwed.

Material:

Bellow in stainless steel, connections in stainless steel or carbon steel. It is also possible to produce in different materials if required.

Nominal Sizes:

DN25(1'') - DN 1200(48'')

Working Temperature:

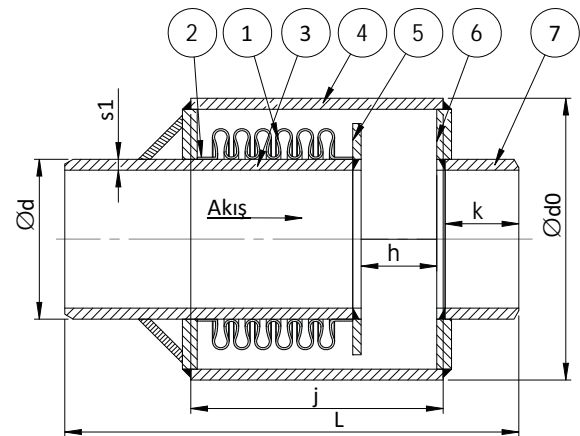
-80/+427°C (optional; -80/+1100°C)

Working Pressures:

2 - 5 - 4 - 6 - 10 - 16 - 25 - 40 - 64 bar or more. It depends on the pipe size.



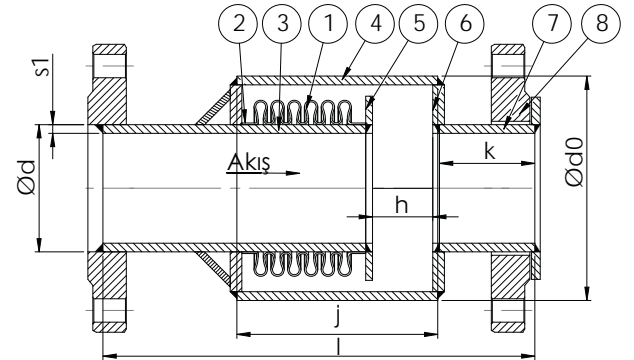
7	1	WELDING END	St. 37.2
6	2	EXTERNAL TUBE	St. 37.2
5	1	MATERIAL FLANGE	St. 37.2
4	1	INTERNAL TUBE	St. 37.2
3	1		St. 37.2
2	2	LAYNER	AISI 304
1	1	BELLOW	AISI 304
S.NO	PSC	DESCRIPTION	MATERIAL



		HLS - 30 DBB						HLS-60 DBB					HLS-90 DBB				
		Design pressure: PN16 Axial expansion: -20 mm + 10 mm						Design pressure: PN16 Axial expansion: -40 mm + 20 mm					Design pressure: PN16 Axial expansion: -70 mm + 20 mm				
Size	Ød	Ød0	h	k	j	s1	L	h	k	s1	L	h	k	j	s1	L	
DN 25	38	76,1	30	80	180	2,6	340	50	80	300	2,6	470	80	80	300	2,6	500
DN 32	42,4	76,1	30	80	180	2,6	340	50	80	300	2,6	470	80	80	300	2,6	500
DN 40	48,3	76,1	30	80	200	2,6	360	50	80	310	2,6	480	80	80	310	2,6	510
DN 50	60,3	101	30	80	190	2,9	350	50	80	290	2,9	460	80	80	290	2,9	490
DN 65	76,1	114,3	30	80	190	2,9	350	50	80	280	2,9	450	80	80	280	2,9	480
DN 80	88,3	139,7	30	80	190	3,2	350	50	80	280	3,2	450	80	80	280	3,2	480
DN 100	114,3	168,3	30	80	200	3,6	360	50	80	290	3,6	460	80	80	290	3,6	490
DN 125	139,7	219,1	30	80	180	4	360	50	80	290	4	470	80	80	290	4	500
DN 150	168,3	245	30	80	210	4,5	380	50	80	310	4,5	490	80	80	310	4,5	520
DN 200	219,1	323,9	30	80	200	6,3	400	50	80	300	6,3	510	80	100	300	6,3	540
DN 250	273	355,6	30	80	210	6,3	420	50	80	300	6,3	520	80	100	300	6,3	550
DN 300	323,9	406,4	30	80	230	7,1	440	50	80	330	7,1	550	80	100	330	7,1	580



8	2	FLANGE	St. 37.2
7	1	WELDING END	St. 37.2
6	2	EXTERNAL TUBE	St. 37.2
5	1	INSIDE TUBE	St. 37.2
4	1	TUBE	St. 37.2
3	1	İÇ BORU	St. 37.2
2	2	LAYNER	AISI 304
1	1	BELLOW	AISI 304
S.NO	PSC	DESCRIPTION	MATERIAL



		Design pressure: PN16 Axial expansion: -20 mm + 10 mm						HLS-60 DBF Design pressure: PN16 Axial expansion: -40 mm + 20 mm					HLS-90 DBF Design pressure: PN16 Axial expansion: -70 mm + 20 mm				
Size	Ød	Ød0	h	k	j	s1	L	h	k	j	s1	L	h	k	j	s1	L
DN 25	38	76,1	30	80	180	2,6	360	50	80	300	2,6	490	80	80	300	2,6	520
DN 32	42,4	76,1	30	80	180	2,6	360	50	80	300	2,6	490	80	80	300	2,6	520
DN 40	48,3	76,1	30	80	200	2,6	380	50	80	310	2,6	500	80	80	310	2,6	530
DN 50	60,3	101	30	80	190	2,9	370	50	80	290	2,9	480	80	80	290	2,9	510
DN 65	76,1	114,3	30	80	190	2,9	370	50	80	280	2,9	470	80	80	280	2,9	500
DN 80	88,3	139,7	30	80	190	3,2	370	50	80	280	3,2	470	80	80	280	3,2	500
DN 100	114,3	168,3	30	80	200	3,6	380	50	80	290	3,6	480	80	80	290	3,6	510
DN 125	139,7	219,1	30	80	180	4	380	50	80	290	4	490	80	80	290	4	520
DN 150	168,3	245	30	80	210	4,5	400	50	80	310	4,5	510	80	80	310	4,5	540
DN 200	219,1	323,9	30	80	200	6,3	420	50	80	300	6,3	530	80	100	300	6,3	560
DN 250	273	355,6	30	80	210	6,3	440	50	80	300	6,3	540	80	100	300	6,3	570
DN 300	323,9	406,4	30	80	230	7,1	460	50	80	330	7,1	570	80	100	330	7,1	600