

EXTERNALLY PRESSURIZED EXPANSION JOINTS

EXTERNALLY PRESSURIZED FLANGED EXPANSION JOINTS

MTE-410



TECHNICAL DATA

Connection	Fixed Flanged & Rotary Flanged - Sabit Flanş & Döner Flanş
Design standard	EN 13445, EN 13480, EN 14917; ASME VIII, div.I, ASME B31.3; ASME B31.1, EJMA
Working pressure	PN16 (Optional / Opsiyonel; PN25, PN40)
Working temperature	-80/+427°C (Optional / Opsiyonel; -80/+1100°C)
Nominal diameter	DN 25 (1") - DN 5000 (200")
Bellows material	AISI 304 Stainless Steel - Paslanmaz Çelik (Optional / Opsiyonel; AISI 316L/316Ti/321)
Connection material	ST37.2 Carbon Steel - Karbon Çelik (Optional / Opsiyonel; AISI 316L/316Ti/321)

WHAT IT DOES

Externally pressurized compensators are specialized connection elements designed to eliminate the risk of bellows squirm in long pipelines where there are high expansion rates and high fluid pressure. Unlike standard compensators, in these systems the fluid applies pressure to the outer surface of the bellows rather than through its interior. This external pressure keeps the stainless steel bellows continuously taut and aligned along a straight line, preventing the bellows from deviating from its axis or deforming under high pressure. As a result, it becomes possible to safely accommodate much longer-stroke (high-expansion) axial movements using a single compensator.

This text is taken from the company's printed catalog and applies to the entire product family.

WHERE IT IS USED

- Hot and cold water systems
- compressed air
- superheated water
- steam
- superheated steam systems
- superheated oil systems

DIMENSION TABLE

MTE-410-30

MTE-410-60

MTE-410-90

MTE-410-120

Size / Ölçü	Ød	Ød0	h	k	j	s1	L	kg	h	k	j	s1	L	kg	h	k	j	s1	L	kg	h	k	j	s1	L	kg
DN 25	38	76,1	30	80	180	2,6	360	5,00	50	80	300	2,6	490	6,00	80	80	300	2,6	520	6,50	110	80	350		2,6 600	6,88
DN 32	42,4	76,1	30	80	180	2,6	360	6,00	50	80	300	2,6	490	7,00	80	80	300	2,6	520	8,00	110	80	410	2,6	660	8,85
DN 40	48,3	76,1	30	80	200	2,6	380	7,00	50	80	310	2,6	500	8,00	80	80	310	2,6	530	8,50	110	80	430	2,6	680	9,48
DN 50	60,3	101	30	80	190	2,9	370	9,50	50	80	290	2,9	480	11,00	80	80	290	2,9	510	11,00	110	80	430	2,9	680	12,78
DN 65	76,1	114,3	30	80	190	2,9	370	11,00	50	80	280	2,9	470	12,50	80	80	280	2,9	500	13,75	110	80	490	2,9	740	16,91
DN 80	88,3	139,7	30	80	190	3,2	370	14,00	50	80	280	3,2	470	16,50	80	80	280	3,2	500	17,50	110	80	400 3,2		650	19,90
DN 100	114,3	168,3	30	80	200	3,6	380	19,00	50	80	290	3,6	480	22,00	80	80	290	3,6	510	23,50	110	80	440	3,6	690	27,14
DN 125	139,7	219,1	30	80	180	4	380	28,00	50	80	290	4	490	32,00	80	80	290	4	520	37,50	110	80	440	4	700	44,50

Size / Ölçü	Ød	Ød0	h	k	j	s1	L	kg	h	k	j	s1	L	kg	h	k	j	s1	L	kg	h	k	j	s1	L	kg
DN 150	168,3	245	30	80	210		4,5 400	38,80	50	80	310	4,5	510	42,00	80	80	310	4,5	540	46,00	110	80	440	4,5	700	53,16
DN 200	219,1	323,9	30	80	200 6,3		420	56,00	50	80	300 6,3		530	65,00	80		100 300 6,3		560	71,50	110		100 480	6,3	770	87,50
DN 250	273	355,6	30	80	210	6,3	440	71,10	50	80	300 6,3		540	80,33	80		100 300 6,3		570	83,33	110		100 530	6,3	830	108,63
	DN 300 323,9 406,4		30	80	230	7,1	460	93,95	50	80	330	7,1	570	111,60	80		100 330	7,1	600	115,10	110	100	510	7,1	810	145,30

MATERIAL LIST

No	Part	Qty	Material
1	Bellow / Kırık	1	AISI 304/321
2	Band / Bant	2	AISI 304/321
3	Inner Pipe / İç Boru	1	St. 37.2
4	External Pipe / Dış Boru	1	St. 37.2
5	Centering Flange / Merkezleme Flanşı	1	St. 37.2
6	External Pipe Flange / Dış Boru Flanşı	2	St. 37.2
7	Butt Weld / Kaynak Boyun	1	St. 37.2
8	Flange / Flanş	2	St. 37.2

DATA SOURCE
Metroend-Kompansator-Katalogu.pdf · printed page 16 (PDF 16)
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