

METAL BELLOWS AXIAL EXPANSION JOINTS

FIXED FLANGED AXIAL EXPANSION JOINTS

MTE-310



TECHNICAL DATA

Connection	Fixed Flanged - Sabit 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

Metal bellows compensators are flexible connection elements used in industrial piping systems to dampen thermal expansion, contraction, axial misalignment, and mechanical vibrations caused by temperature changes. By minimizing mechanical stresses on the pipes, valves, and other fittings in the system, they preserve the structural integrity of the pipeline. The stainless steel bellows structure forming the flexible component is designed to absorb axial, lateral, or angular movements depending on the operating conditions of the line.

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-310-30

MTE-310-30L

MTE-310-60L

Size / Ölçü	Ød	Øk	Ød4	f	b	Ødxn	Ødi	Ødo	-20 / +10 mm L	kg	-20 / +10 mm L	kg	L	-40 / +20 mm kg
DN 25	115	85	68	2	16	Ø 14X4	38	48,2	120	2,50	120	3,00		
DN 32	140	100	78	2	16	Ø 18X4	42,4	55	125	3,50	125	4,00		
DN 40	150	110	88	3	16	Ø 18X4	48,3	61	130	3,50	130	4,00		
DN 50	165	125	102	3	18	Ø 18X4	60,3	76	120	4,55	120	5,05		5,00
DN 65	185	145	122	3	18	Ø 18X8	76,1	95	120	5,55	120	6,05	205	6,00
DN 80	200	160	138	3	20	Ø 18X8	88,9	111	120	6,55	120	7,05	200	8,00
DN 100	220	180	158	3	20	Ø 18X8	114,3	140	130	8,00	130	8,50	210	9,00
DN 125	250	210	188	3	22	Ø 18X8	139,7	164	140	10,50	140	11,00	220	12,00
DN 150	285	240	212	3	22	Ø 22X8	168,3	200	155	12,50	155	13,00	265	15,00
DN 200	340	295	268	3	24	Ø 22X12	219,1	250	150	18,50	150	19,00	265	21,00
DN 250	405	355	320	3	26	Ø 26X12	273	323	160	25,00	160	25,50	260	27,00

Size / Ölçü	Ød	Øk	Ød4	f	b	Ødxn	Ødi	Ødo	-20 / +10 mm L	kg	-20 / +10 mm L	kg	L	-40 / +20 mm kg
DN 300	460	410	378	4	28	Ø 26X12	323,9	380	170	33,00	170	33,50	270	35,50

MATERIAL LIST

No	Part	Qty	Material
1	Bellow / Körük	1	AISI 304/321
2	Inner Sleeve / Layner	1	AISI 304/321
3	Band / Bant	2	AISI 304/321
4	Flange / Flanş	2	St. 37.2

DATA SOURCE

Metroend-Kompansator-Katalogu.pdf · printed page 8 (PDF 8)

All content in this datasheet is taken from the catalog page referenced above; values are transferred verbatim, with no estimation or unit conversion. It contains no price or stock information.

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