

The logo features the word "Totflex" in a red, sans-serif font, centered within a white pentagonal shape. This white shape is set against a background of red and grey geometric sections, all separated by thick black outlines.

Totflex

METAL BELOWED AXIAL EXPANSION JOINTS



Axial expansion joints are designed to compensate axial movements (extension and compression) in its longitudinal axial direction due to thermal expansions and absorb the mechanical vibrations and reduce sound on pipe line systems (pumps, compressors, fans).

Application of Axial Expansion Joint

- Cold & Hot Water Pipelines
- Steam Lines
- Ship Building & Marine Applications
- Central Heating & Cooling Applications
- Boiler, Pressure Vessel & Heat Exchanger Applications
- Exhaust Systems
- Oil & Gas Pipeline Systems
- Industrial Applications

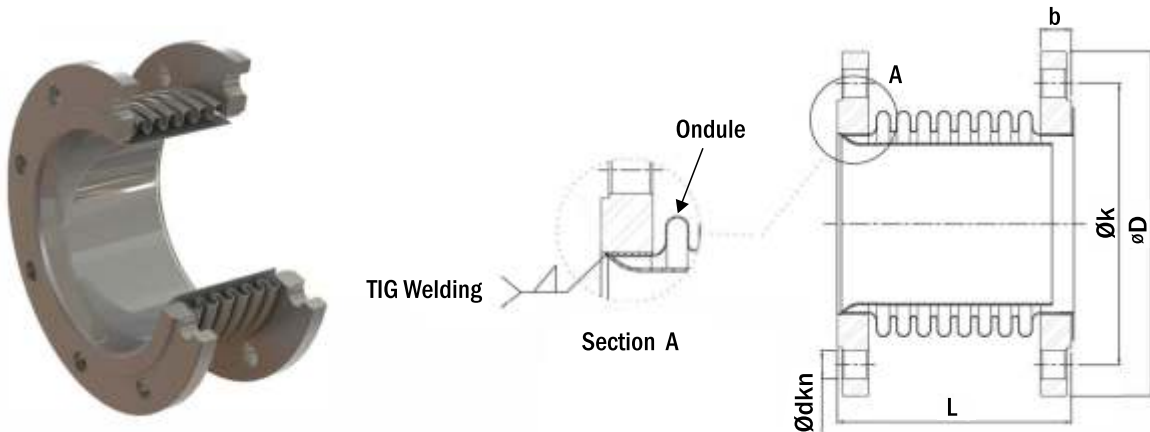


Technical Features

Bellow Material	Stainless Steel AISI304(Opt. AISI316, AISI321)
Intermediate Pipe Material	Carbon Steel St37.2(Opt. AISI304, AISI316)
Connection Types	Fixed Flanged, Loose (Rotatable) Flanged, Weld Neck End
End Material	Carbon Steel St37.2 (Opt. AISI304, AISI316)
Operating Temperature	-20 °C/+400 °C
Operating Pressure	PN6/PN10/PN16/PN25/PN40/PN64
Nominal Diameters	DN25(1") to DN3000(120")
Design	EJMA Standards



AXIAL EXPANSION JOINTS WITH FLANGE CONNECTION



Model Type	Expansion Value	Definition
AX.FL.30	30 mm (-20 mm/+10 mm)	Axial Expansion Joint without inner sleeve, with Flange Connection and 30 mm expansion capacity.
AX.FL.30L	30 mm (-20 mm/+10 mm)	Axial Expansion Joint with inner sleeve and Flange Connection and 30 mm expansion capacity.
AX.FL.60	60 mm (-40 mm/+20 mm)	Axial Expansion Joint without inner sleeve with Flange Connection and 60 mm expansion capacity.
AX.FL.60L	60 mm (-40 mm/+20 mm)	Axial Expansion Joint with inner sleeve and Flange Connection and 60 mm expansion capacity.

Connection Size		Flange Dimensions (Flange Standard is TS EN 1092-1)				Bellow Effective Area cm ²	Expansion	AX.FL.30 TYPE		AX.FL.30L. TYPE	
DN	Inch	ØD	Øk	b	Ød _{kn}			L	Product Code	L	Product Code
25	1"	115	85	16	14 x 4	18	30 mm (-20/+10)	110	AX.FL.30.0025.0110	110	AX.FL.30L.0025.0110
32	1 1/4"	140	100	18	18 x 4	18	30 mm (-20/+10)	110	AX.FL.30.0032.0110	110	AX.FL.30L.0032.0110
40	1 1/2"	140	110	18	18 x 4	22	30 mm (-20/+10)	120	AX.FL.30.0040.0120	120	AX.FL.30L.0040.0120
50	2"	165	125	20	18 x 4	36	30 mm (-20/+10)	120	AX.FL.30.0050.0120	120	AX.FL.30L.0050.0120
65	2 1/2"	185	145	20	18 x 4	58	30 mm (-20/+10)	120	AX.FL.30.0065.0120	120	AX.FL.30L.0065.0120
80	3"	200	160	20	18 x 8	78	30 mm (-20/+10)	120	AX.FL.30.0080.0120	120	AX.FL.30L.0080.0120
100	4"	220	180	22	18 x 8	124	30 mm (-20/+10)	120	AX.FL.30.0100.0120	120	AX.FL.30L.0100.0120
125	5"	250	210	22	18 x 8	180	30 mm (-20/+10)	125	AX.FL.30.0125.0125	125	AX.FL.30L.0125.0125
150	6"	285	240	24	22 x 8	252	30 mm (-20/+10)	130	AX.FL.30.0150.0130	130	AX.FL.30L.0150.0130
200	8"	340	295	26	22 x 12	430	30 mm (-20/+10)	150	AX.FL.30.0200.0150	150	AX.FL.30L.0200.0150
250	10"	405	355	29	26 x 12	660	30 mm (-20/+10)	165	AX.FL.30.0250.0165	165	AX.FL.30L.0250.0165

* All the dimensions in the table are given in "mm"

** Upon customer request other type of flanges can be made in different standards (ANSI, BS, UNI)

*** Totflex has the right to change any technical alterations and deviations without any notification

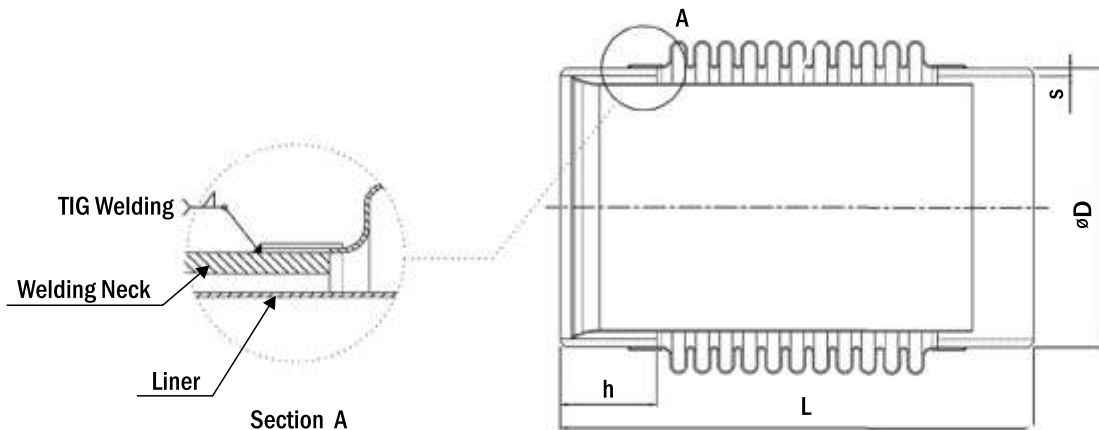
Connection Size		Flange Dimensions (Flange Standard is TS EN 1092-1)				Bellow Effective Area cm ²	Expansion	AX.FL.60 TYPE		AX.FL.60L TYPE	
DN	Inch	ØD	Øk	b	Ødxn			L	Product Code	L	Product Code
65	2 1/2"	185	145	20	18 x 4	58	60 mm(-40/+20)	120	AX.FL.60.0065.0120	120	AX.FL.60L.0065.0120
80	3"	200	160	20	18 x 8	78	60 mm(-40/+20)	120	AX.FL.60.0080.0120	120	AX.FL.60L.0080.0120
100	4"	220	180	22	18 x 8	124	60 mm(-40/+20)	120	AX.FL.60.0100.0120	120	AX.FL.60L.0100.0120
125	5"	250	210	22	18 x 8	180	60 mm(-40/+20)	125	AX.FL.60.0125.0125	125	AX.FL.60L.0125.0125
150	6"	285	240	24	ü	252	60 mm(-40/+20)	130	AX.FL.60.0150.0130	130	AX.FL.60L.0150.0130
200	8"	340	295	26	22 x 12	430	60 mm(-40/+20)	150	AX.FL.60.0200.0150	150	AX.FL.60L.0200.0150
250	10"	405	355	29	26 x 12	660	60 mm(-40/+20)	165	AX.FL.60.0250.0165	165	AX.FL.60L.0250.0165

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AXIAL EXPANSION JOINT WITH WELD NECK CONNECTION



Model Type	Expansion Value	Definition
AX.WN.30	30 mm (-20 mm/+10 mm)	Axial Expansion Joint without inner sleeve, with Weld Neck Connection and 30 mm expansion capacity.
AX.WN.30L	30 mm (-20 mm/+10 mm)	Axial Expansion Joint with inner sleeve and Weld Neck Connection and 30 mm expansion capacity.
AX.WN.60	60 mm (-40 mm/+20 mm)	Axial Expansion Joint without inner sleeve, with Weld Neck Connection and 60 mm expansion capacity.
AX.WN.60L	60 mm (-40 mm/+20 mm)	Axial Expansion Joint with inner sleeve and Weld Neck Connection and 60 mm expansion capacity.

Connection Size		Dimensions			Bellow Effective Area cm ²	Expansion	AX.WN.30 TYPE		AX.WN.30L. TYPE	
DN	Inch	ØD	s	h			L	Product Code	L	Product Code
25	1"	33,70	3,20	50	18	30 mm (-20/+10)	180	AX.WN.30.0025.0180	180	AX.WN.30L.0025.0180
32	1 1/4"	42,40	3,20	50	18	30 mm (-20/+10)	180	AX.WN.30.0032.0180	180	AX.WN.30L.0032.0180
40	1 1/2"	48,30	3,20	50	22	30 mm (-20/+10)	190	AX.WN.30.0040.0190	190	AX.WN.30L.0040.0190
50	2"	60,30	3,60	50	36	30 mm (-20/+10)	190	AX.WN.30.0050.0190	190	AX.WN.30L.0050.0190
65	2 1/2"	76,10	3,60	50	58	30 mm (-20/+10)	190	AX.WN.30.0065.0190	190	AX.WN.30L.0065.0190
80	3"	88,90	4,00	50	78	30 mm (-20/+10)	190	AX.WN.30.0080.0190	190	AX.WN.30L.0080.0190
100	4"	#####	4,50	60	124	30 mm (-20/+10)	200	AX.WN.30.0100.0200	200	AX.WN.30L.0100.0200
125	5"	#####	5,00	60	180	30 mm (-20/+10)	200	AX.WN.30.0125.0200	200	AX.WN.30L.0125.0200
150	6"	#####	5,00	80	252	30 mm (-20/+10)	250	AX.WN.30.0150.0250	250	AX.WN.30L.0150.0250
200	8"	#####	6,30	80	430	30 mm (-20/+10)	270	AX.WN.30.0200.0270	270	AX.WN.30L.0200.0270
250	10"	#####	6,30	100	660	30 mm (-20/+10)	310	AX.WN.30.0250.0310	310	AX.WN.30L.0250.0310
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Connection Size		Dimensions			Bellow Effective Area cm ²	Expansion	AX.WN.60 TYPE		AX.WN.60L. TYPE	
DN	Inch	ØD	s	h			L	Product Code	L	Product Code
65	2 1/2"	76,10	3,60	50	58	60 mm (-40/+20)	240	AX.WN.60.0065.0240	240	AX.WN.60L.0065.0240
80	3"	88,90	4,00	50	78	60 mm (-40/+20)	250	AX.WN.60.0080.0250	250	AX.WN.60L.0080.0250
100	4"	#####	4,50	60	124	60 mm (-40/+20)	270	AX.WN.60.0100.0270	270	AX.WN.60L.0100.0270
125	5"	#####	5,00	60	180	60 mm (-40/+20)	270	AX.WN.60.0125.0270	270	AX.WN.60L.0125.0270
150	6"	#####	5,00	80	252	60 mm (-40/+20)	320	AX.WN.60.0150.0320	320	AX.WN.60L.0150.0320
200	8"	#####	6,30	80	430	60 mm (-40/+20)	340	AX.WN.60.0200.0340	340	AX.WN.60L.0200.0340
250	10"	#####	6,30	100	660	60 mm (-40/+20)	395	AX.WN.60.0250.0395	395	AX.WN.60L.0250.0395
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