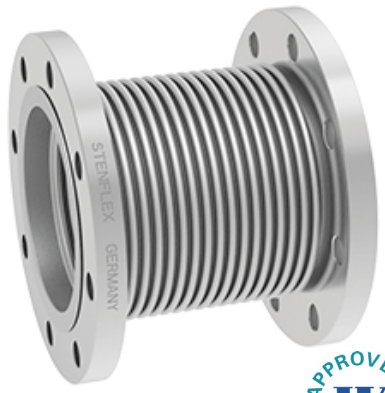
STENFLEX TYPE SF

EPSF-10

Axial compensator DN 15 – DN 3400



APPROVED WRAS MATERIAL

Specification

- Engineered Products & Solutions steel compensator EPSF-10
- Vacuum-proof, short-length axial compensator, consisting of a stainless steel bellows and rotating flanges

Steel bellows PN2,5 / PN6 / PN10 / PN16

- Multiple convolution bellows in various stainless steel grades
- One ply or multi-ply structure
- DN 15 – DN 500 with flared ends
- DN 600 – DN 3400 with pre-welded flared ends

Materials

- Stainless Steel
- Heat Resistant Steel
- Nickle based Alloy (Incoloy 825)

Material Grades*	Material number as per DIN EN	Temperature	Applications
Stainless Steel	1.4541 1.4404, 1.4571	-196 °C up to +550 °C +550 °C	Low temperature, acids, lyes, gases, fertilizers Media containing chloride, oil, soap, drinking water, food stuff, petrol
Heat-resistant Steel	1.4828 1.4878	+900 °C +800 °C	Hot gases, steam, air Hot gases, steam, air
Nickel-based Alloy	2.4858 (Incoloy 825)	+450 °C	Sulphuric acid, phosphoric acid, petrol, öl, gases

Flanges

- Rotating flanges
- Flange drilling for through bolts

Dimensions

Standard: DN 1200 - DN 3400 (PN 2,5)
DN 15 - DN 2000 (PN 6)
DN 15 - DN 1000 (PN 10)
DN 15 - DN 500 (PN 16)
All above according to EN 1092

Others: DIN EN, ANSI, BS etc.

Materials

Standard: 1.0038 (S235JR), 1.4541, 1.4404

Others: stainless steel, etc.

Corrosion protection

Standard: DN 32 - DN 250 electro- galvanized, DN 300 - DN 3400 anti-corrosion primed

Others: hot-dip galvanized, special varnish, special coating etc.

Applications

- For compensating axial movement
- For reducing tension, damping noise and oscillation in pipes and their system components, e.g.
  - Pumps
  - Motors
  - Machines
- For installation in:
  - Industrial applications
  - Gas and water supply
  - Exhaust systems
  - Heating installations
  - Drinking water systems
- To compensate for installation inaccuracies

Special designs

Other sizes (DN), lengths or pressure ratings on request.

Accessories

- Internal guide sleeve
- Protective tube
- Gas sealings for DVGW-application

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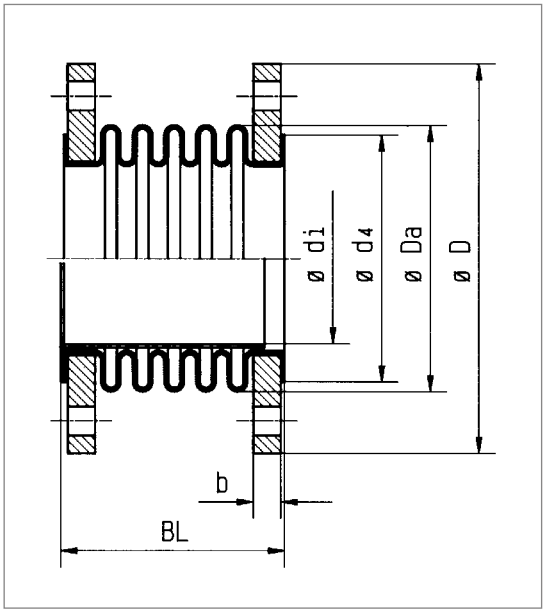

DN 15 - DN 3400

EPSF-10 Pressure rate PN16 standard program

		Δ Axtot Axial Movement	Cax Axial Spring Rate	A* Effective Bellows Cross Sectional Area	ø d4 Flared End	ø Da Bellows Outer	ø di Internal Guide Sleeve	PN Flange Connection	Ø D Flange Outer	b Flange Thickness	Weight Approx.
DN	BL (mm)	(mm)	N/mm	cm2	ø mm	ø mm	ø mm	EN 1092	ø mm	mm	Kg
15	108	17	21	7	45	38	18	16	95	14	1.5
20	108	17	21	7	58	38	18	16	105	16	2.1
25	125	26	49	16	54	54	25	16	115	16	2.4
32	135	26	49	16	54	54	32	16	140	18	4.0
40	135	30	111	25	68	66	38	16	150	18	4.5
50	155	36	177	34	75	79	49	16	165	18	5.5
65	165	40	199	54	95	96	63	16	185	18	7.4
80	175	46	148	78	110	115	76	16	200	20	8.4
100	180	46	175	115	140	137	96	16	220	20	10.1
125	200	50	79	173	165	168	123	16	250	22	13.2
150	230	50	160	243	200	197	148	16	285	24	17.3
200	230	38	219	422	254	253	198	16	340	26	23.1
250	245	38	624	620	310	302	249	16	405	29	33.3
300	220	22	863	995	364	388	310	16	460	32	44.0
300	320	44	432	995	364	388	310	16	460	32	49.0
350	225	21	946	1182	396	420	342	16	520	35	63.0
350	325	43	473	1182	396	420	342	16	520	35	68.0
400	230	21	1078	1514	452	471	393	16	580	38	80.0
400	330	43	539	1514	452	471	393	16	580	38	85.0
450	240	21	1210	1886	498	522	444	16	640	42	101.0
450	340	43	605	1886	498	522	444	16	640	42	108.0
500	245	21	1338	2290	548	572	494	16	715	46	140.0
500	345	42	669	2290	548	572	494	16	715	46	148.0

Table values refer to +20°C bellows material 1.4541, 1000 cycles. Please inquire for deviating values.