

EPSF-21

Lateral compensator DN 32 – DN 500



Specification

- Engineered Products & Solutions steel compensator EPSF-21
- Vacuum-proof lateral compensator consisting of a stainless steel bellows and welded flanges
- Flanges with tie rods to absorb reaction force

Steel bellows PN 16

- Multiple convolution bellows in various stainless steel grades
- One ply or multi-ply structure

Materials

- Stainless Steel

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.

Flanges

- Welded flanges with turned seal
- Flange drilling for through bolts

Dimensions

Standard: DN 32 - DN 500 (PN 16)
according to EN 1092

Others: DIN EN, ANSI, BS etc.

Connection dimensions see technical annex

Materials

Standard: 1.0038 (S235JR), 1.0460 (P250GH)

Corrosion protection

Standard: anti-corrosion primed

Others: special varnish, etc.

Accessories

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

Special designs

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

Tie rod restraints

- Outer restraints carried on spherical washers/conical seats

Materials

Standard: tie rods 8.8

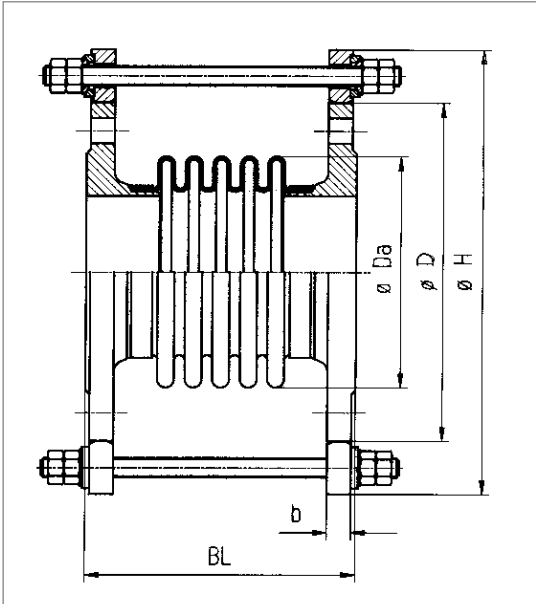
Corrosion protection

Standard: electrogalvanized

Applications

- For compensating lateral movement
- For reducing tension, damping noise and oscillation in pipes and their system components, e.g.
 - Pumps
 - Compressors
 - Motors
 - Turbines
 - Machines
- For installation in:
 - industrial applications
 - gas and water supply
 - exhaust systems
 - heating installations
- To compensate for installation inaccuracies

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DN 32 - DN 500

EPSF-21 Pressure rate PN16 standard program

		Δ Lattot Lateral Movement	Clat Lateral Spring Rate	Ffric Frictional Force Restraints	\varnothing Da Bellows Outer	PN Flange Connection	\varnothing D Flange Outer	H Flange Height	b Flange Thickness	Weight Approx.
DN	BL (mm)	(mm)	N/mm	N/bar	\varnothing mm	EN1092	\varnothing mm	mm	mm	Kg
32	150	8	28	4	54	16	140	220	18	4.9
40	175	10	125	5	66	16	150	230	18	5.4
50	205	14	157	6	79	16	165	245	18	6.5
65	210	14	237	9	96	16	185	265	18	7.6
80	225	13	278	12	115	16	200	280	20	9.7
100	235	14	302	18	137	16	220	300	20	10.9
125	265	14	156	35	168	16	250	370	22	19.0
150	290	14	313	45	197	16	285	405	22	22.6
200	310	9	761	73	253	16	340	460	24	33.0
250	335	8	2571	101	302	16	405	525	26	44.2
300	410	12	1145	131	386	16	460	584	28	71.0
350	415	11	1368	155	420	16	520	644	30	94.0
400	420	10	1995	197	471	16	580	704	32	118.0
450	420	9	2788	350	522	16	640	818	34	153.0
500	420	8	3746	425	572	16	715	893	36	193.0

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