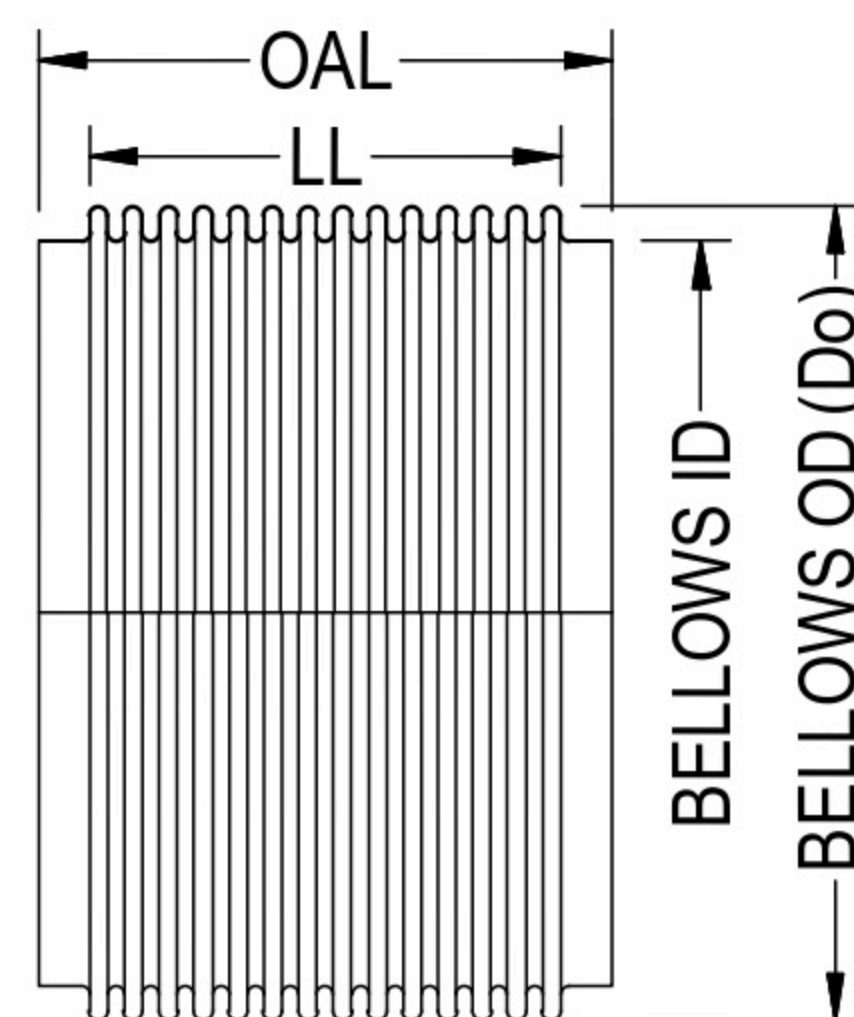




SINGLE PLY BELLOWS
DATA SHEETS



SINGLE PLY BELLOWS

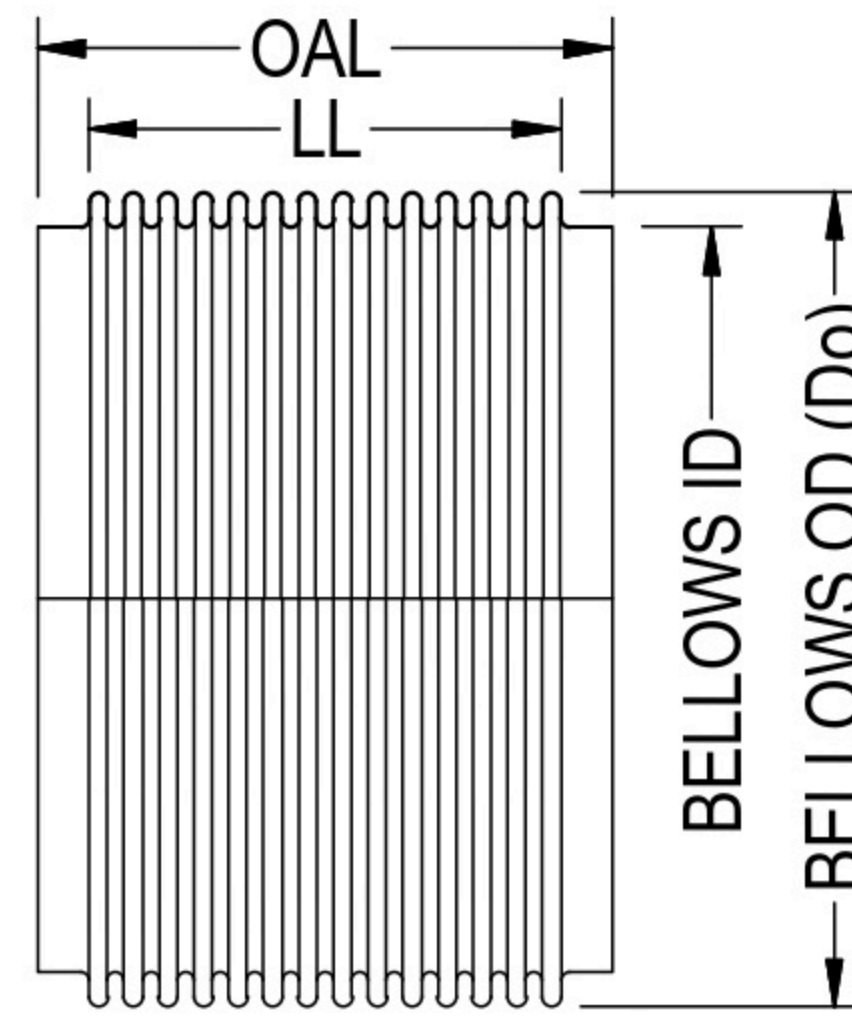


ISOMETRIC VIEW

PART NUMBER	PIPE SIZE	BELLOWS ID	BELLOWS OD (Do)	LIVE LENGTH (LL)	OVERALL LENGTH (OAL)	AXIAL SPRING RATE (LBF/IN.)	LATERAL SPRING RATE (LBF/IN.)	ANGULAR SPRING RATE (FT. LBS/DEG.)	AXIAL MOVEMENT (IN.)	LATERAL MOVEMENT (IN.)	ANGULAR MOVEMENT (DEG.)	MAX. ALLOWABLE PRESSURE (PSIG)
959-010-2005	1.5	2.14	2.72	2.00	3.10	444	1,043	0.50	0.449	0.129	16.50	55
959-010-2406	2	2.43	3.00	2.00	3.10	381	1,094	0.50	0.483	0.126	15.22	55
959-010-2412	2	2.43	3.00	6.00	3.10	498	162	0.70	0.848	0.636	20.32	40
959-010-2906	2.5	2.90	3.60	2.00	3.70	201	936	0.40	0.745	0.160	10.00	30
959-010-2912	2.5	2.90	3.75	6.00	3.70	162	84	0.30	1.699	1.058	3.00	15
959-010-3506	3	3.55	4.30	2.00	3.00	351	2,346	1.00	0.697	0.125	18.82	15
959-010-3512	3	3.55	4.50	6.00	7.00	178	135	0.50	1.786	0.924	5.00	15
959-010-4406	4	4.56	5.50	2.50	3.50	131	1,014	0.60	1.211	0.232	5.00	15
959-010-4412	4	4.56	5.36	5.50	6.25	165	242	0.70	1.804	0.681	3.00	20
959-010-4418	4	4.56	5.50	9.00	10.00	193	106	0.90	2.446	1.484	5.00	15
959-010-4545	4	4.56	5.30	2.00	3.00	1,351	12,570	6.00	0.410	0.058	8.43	75
959-010-4546	4	4.56	5.30	4.50	5.50	663	1,282	2.90	0.859	0.268	5.00	65
959-010-5305	5	5.30	6.00	2.50	3.50	424	3,463	2.50	0.707	0.111	12.41	25
959-010-5508	5	5.62	6.50	3.00	4.00	401	2,672	2.70	0.934	0.164	14.81	25
959-010-5512	5	5.62	6.50	5.50	6.75	479	959	3.20	1.255	0.391	5.00	45
959-010-5650	5	5.62	6.75	2.25	3.50	615	7,437	4.30	0.774	0.102	12.92	30
959-010-5651	5	5.62	6.70	5.00	6.25	349	902	2.40	1.525	0.429	23.28	15
959-010-6508	6	6.68	7.50	3.00	4.00	485	4,164	4.40	0.899	0.138	12.10	30
959-010-6512	6	6.58	7.50	5.50	6.50	207	602	1.90	1.839	0.493	1.00	25
959-010-6552	6	6.68	7.75	2.25	3.50	849	13,613	8.00	0.690	0.077	10.00	35
959-010-6553	6	6.68	7.75	5.00	6.25	420	1,475	4.00	1.463	0.352	19.66	15
959-010-6712	6	6.79	7.50	5.00	6.00	270	928	2.50	1.329	0.320	5.00	30

						 Bellows Systems CAGE CODE: 22727	BELLOWS SYSTEMS, INC. Houston, TX www.bellows-systems.com				
B	ADDED PART NO.	3/11/2024	UG				BELLOWS ELEMENT SINGLE PLY				
A	FOR REVIEW	3/6/2024	UG								
REV.	DESCRIPTION	DATE:	BY:	CHK'D:	APPD:						
THIS DRAWING AND ALL OF THE INFORMATION HEREIN ARE THE SOLE PROPERTY OF BELLOWS SYSTEMS, INC. AND MAY NOT BE REPRODUCED OR DISTRIBUTED WITHOUT THE EXPRESS WRITTEN CONSENT OF BELLOWS SYSTEMS, INC.				SHEET SIZE: 8.5" x 11"		DRAWN BY: U GUI ALI	DATE: 3/6/2024	SCALE: AS SHOWN	DRAWING NUMBER: 959-01X-XXXX	SHEET#: 1 OF 3	REV. B

SINGLE PLY BELLOWS

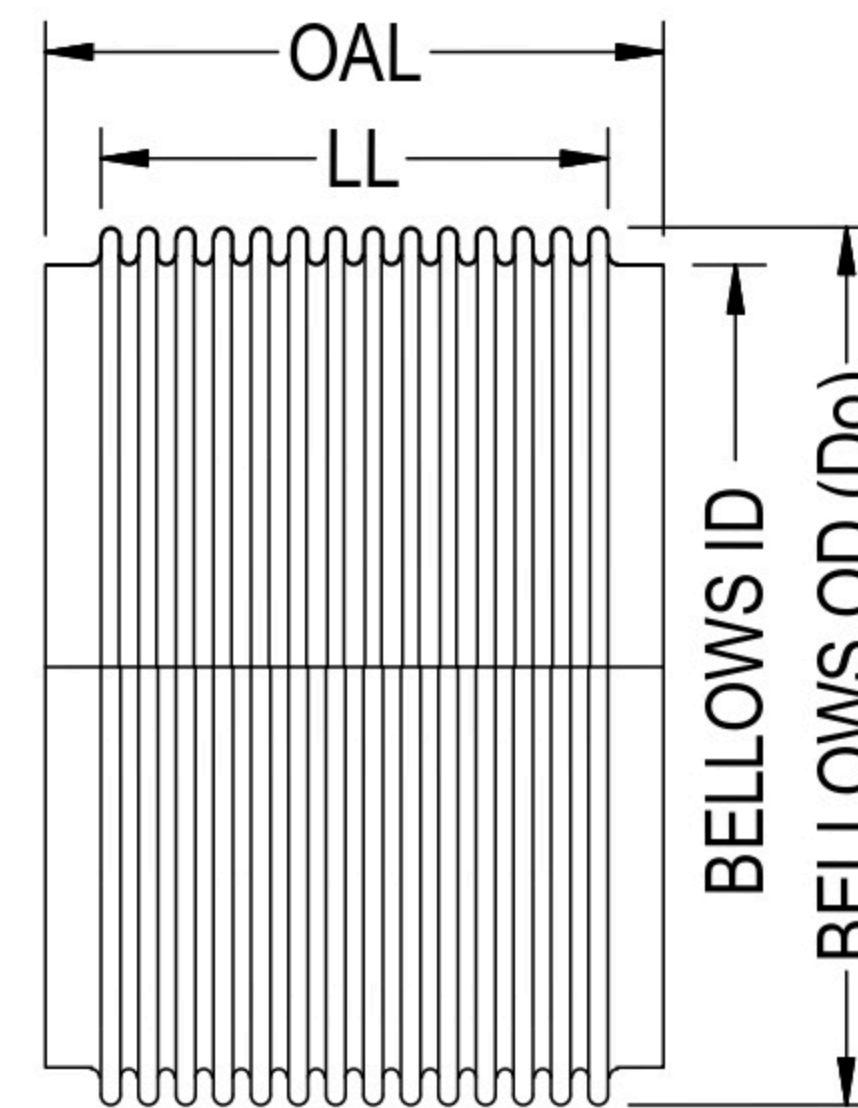


ISOMETRIC VIEW

PART NUMBER	PIPE SIZE	BELLOWS ID	BELLOWS OD (Do)	LIVE LENGTH (LL)	OVERALL LENGTH (OAL)	AXIAL SPRING RATE (LBF/IN.)	LATERAL SPRING RATE (LBF/IN.)	ANGULAR SPRING RATE (FT. LBS/DEG.)	AXIAL MOVEMENT (IN.)	LATERAL MOVEMENT (IN.)	ANGULAR MOVEMENT (DEG.)	MAX. ALLOWABLE PRESSURE (PSIG)
959-010-8508	8	8.64	9.80	4.13	5.13	201	1,905	3.10	1.941	0.303	5.00	15
959-010-8512	8	8.65	9.80	5.50	6.50	144	803	2.20	2.641	0.545	1.00	15
959-010-8675	8	8.68	10.05	4.00	5.00	301	3,153	4.80	1.892	0.281	15.00	15
959-011-1004	10	10.88	12.00	2.00	3.00	731	65,130	17.40	0.788	0.052	7.48	20
959-011-1012	10	10.00	11.00	5.50	6.75	259	1,701	5.20	1.992	0.359	5.00	20
959-011-1108	10	10.85	12.10	4.00	5.00	525	7,570	12.60	1.475	0.180	12.45	25
959-011-1112	10	10.85	12.00	5.50	6.75	190	1,587	4.50	2.524	0.418	5.00	15
959-011-1210	12	12.83	14.00	10.00	11.50	700	2,098	22.90	2.236	0.569	3.00	40
959-011-1212	12	12.00	13.75	5.00	6.50	306	3,701	9.20	2.498	0.347	5.00	15
959-011-1312	12	12.82	14.25	10.50	7.50	1,026	2,725	34.20	2.079	0.556	3.00	55
959-011-1318	12	12.82	14.00	8.00	9.50	434	2,102	14.20	2.329	0.477	3.00	25
959-011-1323	12	12.82	14.25	13.50	15.00	798	1,303	26.60	2.660	0.908	0.50	55
959-011-1404	14	14.15	15.90	1.25	2.75	1,240	213,296	50.90	0.728	0.027	5.46	15
959-011-1412	14	14.14	16.00	4.50	5.50	1,265	22,011	52.20	1.370	0.148	8.75	50
959-011-1423	14	14.14	15.50	13.00	15.00	1,012	2,117	40.40	2.398	0.720	1.00	50
959-011-1604	16	16.16	17.60	1.88	3.13	5,903	582,899	305.80	0.436	0.019	2.91	45
959-011-1605	16	16.16	17.60	2.00	3.25	4,741	465,458	245.60	0.512	0.022	3.40	45
959-011-1616	16	16.14	17.70	8.00	10.00	1,205	8,765	62.70	1.919	0.315	9.69	45
959-011-1623	16	16.14	17.75	13.50	15.50	352	985	18.40	4.298	1.171	3.00	15
959-011-1810	18	18.10	19.80	4.00	5.50	1,074	38,859	70.10	1.451	0.111	8.18	20
959-011-1818	18	18.10	19.70	10.00	11.25	1,119	6,493	72.60	2.299	0.421	5.00	45
959-011-1823	18	18.10	19.60	13.00	14.25	982	3,392	63.40	2.774	0.655	3.00	45

						 Bellows Systems CAGE CODE: 22727	BELLOWS SYSTEMS, INC.								
							Houston, TX www.bellows-systems.com								
							BELLOWS ELEMENT SINGLE PLY								
B	ADDED PART NO.	3/11/2024	UG												
A	FOR REVIEW	3/6/2024	UG												
REV.	DESCRIPTION	DATE:	BY:	CHK'D:	APPD:		THIS DRAWING AND ALL OF THE INFORMATION HEREIN ARE THE SOLE PROPERTY OF BELLOWS SYSTEMS, INC. AND MAY NOT BE REPRODUCED OR DISTRIBUTED WITHOUT THE EXPRESS WRITTEN CONSENT OF BELLOWS SYSTEMS, INC.		SHEET SIZE: 8.5" x 11"	DRAWN BY: U GUI ALI	DATE: 3/6/2024	SCALE: AS SHOWN	DRAWING NUMBER: 959-01X-XXXX	SHEET#: 2 OF 3	REV.: B

SINGLE PLY BELLOWS



ISOMETRIC VIEW

PART NUMBER	PIPE SIZE	BELLOWS ID	BELLOWS OD (Do)	LIVE LENGTH (LL)	OVERALL LENGTH (OAL)	AXIAL SPRING RATE (LBF/IN.)	LATERAL SPRING RATE (LBF/IN.)	ANGULAR SPRING RATE (FT. LBS/DEG.)	AXIAL MOVEMENT (IN.)	LATERAL MOVEMENT (IN.)	ANGULAR MOVEMENT (DEG.)	MAX. ALLOWABLE PRESSURE (PSIG)
959-011-2006	20	20.10	22.00	4.00	5.50	1,710	75,593	137.70	1.377	0.095	7.16	20
959-011-2012	20	20.16	22.00	4.50	5.75	935	33,527	75.50	1.727	0.134	8.59	20
959-011-2018	20	20.16	21.50	9.00	10.25	1,186	10,048	93.60	1.927	0.290	8.05	35
959-011-2023	20	20.16	21.75	13.50	14.75	1,002	3,946	80.00	2.938	0.650	3.00	35
959-011-2412	24	24.25	25.90	5.00	6.00	1,304	53,060	149.10	1.644	0.117	7.11	15
959-011-2418	24	24.25	26.00	12.00	13.50	950	7,063	109.10	3.220	0.528	5.00	30
959-011-2422	24	24.25	26.00	13.00	14.00	819	5,292	94.00	3.659	0.647	1.00	30
959-011-2436	24	24.25	26.00	20.00	22.00	659	1,766	75.60	4.938	1.339	5.00	15
959-011-2622	26	26.22	27.75	14.00	15.50	1,476	8,770	195.40	2.693	0.481	8.06	35
959-011-2630	26	26.22	27.75	18.00	19.50	1,122	4,117	148.50	3.545	0.807	9.98	25
959-011-2824	28	28.20	30.00	12.50	14.00	1,007	9,294	155.10	3.431	0.506	5.00	25
959-011-3006	30	30.18	31.75	2.00	3.50	4,256	1,309,418	742.00	0.641	0.016	2.34	25
959-011-3010	30	30.18	31.75	4.00	5.50	4,284	382,627	746.80	0.970	0.045	3.47	35
959-011-3016	30	30.18	32.00	8.00	9.50	1,652	40,862	290.30	2.218	0.200	7.27	25
959-011-3029	30	30.18	31.75	18.00	19.50	1,198	5,813	208.80	3.669	0.728	9.28	25
959-011-3605	36	36.25	37.25	2.50	3.50	25,955	7,083,765	6,373	0.312	0.008	0.97	20
959-011-3607	36	36.10	38.25	2.50	3.50	3,226	1,099,387	810.50	1.087	0.028	3.30	20
959-011-3612	36	36.10	38.00	6.00	7.25	2,209	137,171	551.40	1.844	0.106	5.34	25
959-011-3617	36	36.10	37.90	9.00	10.25	1,830	50,705	455.50	2.379	0.202	6.38	30
959-011-4007	40	40.37	42.25	2.5	3.50	5,214	2,071,838	1617.70	0.871	0.019	2.39	20

NOTES:

1. MATERIAL: ASTM A-240 GRADE 321.
2. DESIGN TEMPERATURE: 800°F.
3. ALL MOVEMENTS ARE RATED FOR 5000 CYCLES NON CONCURRENT

B	ADDED PART NO.	3/11/2024	UG		
A	FOR REVIEW	3/6/2024	UG		
REV.	DESCRIPTION	DATE:	BY:	CHK'D:	APPD:
THIS DRAWING AND ALL OF THE INFORMATION HEREIN ARE THE SOLE PROPERTY OF BELLOWES SYSTEMS, INC. AND MAY NOT BE REPRODUCED OR DISTRIBUTED WITHOUT THE EXPRESS WRITTEN CONSENT OF BELLOWES				SHEET SIZE: 8.5" x 11"	



Bellows Systems

CAGE CODE: 22727

U GULATI

DATE:

3/6/2024

SCALE:

AS SHOWN

BELLOWS SYSTEMS, INC.

Houston, TX
www.bellows-systems.com

BELLOWS ELEMENT
SINGLE PLY

DRAWING NUMBER: 959-01X-XXXX

SHEET#:
3 OF 3



Bellows
Systems



Bellows Systems Inc
10950 Brittmoore Park Dr,
Houston, TX 77041, United States

Sales
(800) 233-0623

For Sales Enquiries
sales@bellows-systems.com

www.bellows-systems.com

