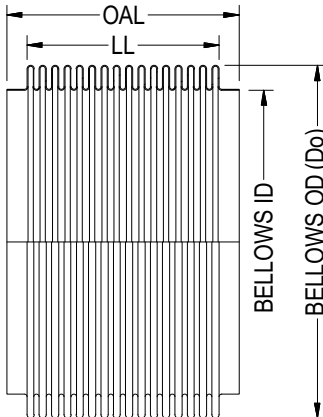




DOUBLE PLY BELLOWS DATA SHEETS



DOUBLE 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)
959-020-2005	1.5	2.17	3.10	2.00	3.00	139	334	0.20	0.84	0.34	30.42	55
959-020-2406	2	2.45	3.10	2.00	3.00	472	1,258	0.70	0.64	0.16	25.05	55
959-020-2412	2	2.45	3.10	6.00	7.00	188	58	0.30	1.75	1.28	24.82	40
959-020-2906	2.5	2.93	3.70	2.00	3.00	333	1,264	0.70	0.84	0.18	28.06	30
959-020-2912	2.5	2.93	3.70	6.00	7.25	131	58	0.30	2.34	1.44	9.13	15
959-020-3506	3	3.58	4.40	2.00	3.00	496	2,661	1.40	0.76	0.13	20.90	15
959-020-3512	3	3.58	4.40	6.00	7.00	132	85	0.40	2.55	1.31	7.81	15
959-020-4406	4	4.59	5.36	2.50	3.50	503	2,739	2.30	0.92	0.16	28.49	15
959-020-4412	4	4.59	5.36	5.50	6.25	229	655	1.00	2.00	0.75	20.94	20
959-020-4418	4	4.59	5.15	9.00	10.00	451	192	1.90	1.64	1.03	28.06	15
959-020-5305	5	5.33	6.00	2.50	3.50	1,043	7,173	6.10	0.63	0.10	12.43	25
959-020-5508	5	5.65	6.70	3.00	4.00	305	1,726	2.10	1.42	0.26	25.29	25
959-020-5512	5	5.65	6.55	5.50	6.75	409	1,516	2.80	1.77	0.55	27.79	45
959-020-6508	6	6.71	7.70	3.00	4.00	420	3,239	4.00	1.35	0.20	19.64	30
959-020-6512	6	6.71	7.63	5.50	6.50	453	1,093	4.20	1.81	0.48	24.63	25
959-020-6712	6	6.82	7.75	5.00	6.00	274	820	2.60	2.09	0.49	19.61	30
959-020-8508	8	8.67	10.10	4.13	5.13	136	971	2.20	1.93	0.51	5.44	15
959-020-8512	8	8.68	10.10	5.50	6.50	167	2,138	2.70	2.44	0.76	6.26	15

B	UPDATED 959-021-1004	7/16/2025	UG		
A	FOR REVIEW	3/7/2024	UG		
REV.	DESCRIPTION	DATE:	BY:	CHK'D:	APP'D:



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BELLOWS SYSTEMS, INC.

Houston, TX
www.bellows-systems.com

BELLOWS ELEMENT
DOUBLE PLY

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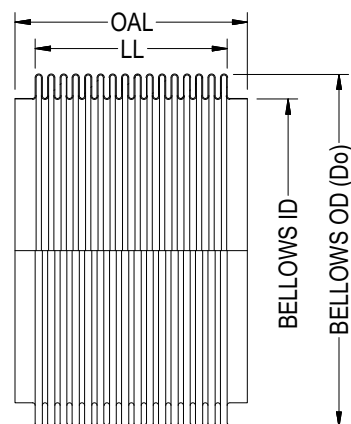
DATE: 3/7/2024

SCALE:
AS SHOWN

DRAWING NUMBER: 959-02X-XXXX

SHEET#:	REV
1 OF 3	B

DOUBLE 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)
959-021-1004	10	10.88	12.00	2.00	3.00	846	53,292	20.10	1.02	0.06	9.93	20
959-021-1012	10	10.03	11.15	5.50	6.75	402	6,262	8.20	2.39	0.42	21.86	20
959-021-1108	10	10.88	12.10	4.00	5.00	502	5,672	12.00	1.85	0.23	17.34	25
959-021-1112	10	10.88	12.00	5.50	6.75	435	2,659	10.30	2.38	0.39	20.36	15
959-021-1210	12	12.86	14.00	10.00	11.50	769	1,986	25.20	2.81	0.71	20.04	40
959-021-1212	12	12.03	13.85	5.00	6.50	157	1,375	4.80	2.54	0.56	4.27	15
959-021-1312	12	12.85	14.80	6.00	7.50	1,116	2,622	37.40	2.75	0.73	20.28	55
959-021-1318	12	12.85	14.00	8.00	9.50	417	4,136	13.70	3.01	0.62	15.89	25
959-021-1323	12	12.85	14.30	13.50	15.00	868	1,252	29.10	3.52	1.20	23.85	55
959-021-1404	14	14.18	16.30	1.25	2.75	392	50,715	16.50	1.51	0.05	11.44	15
959-021-1412	14	14.13	16.00	4.50	5.50	1,380	51,728	57.00	1.85	0.20	13.46	50
959-021-1423	14	14.17	15.75	13.00	15.00	703	1,326	28.60	3.93	1.17	23.75	50
959-021-1604	16	16.19	18.35	1.88	3.13	2,001	183,269	108.30	0.98	0.05	7.40	45
959-021-1616	16	16.17	17.75	8.00	10.00	1,275	16,310	66.70	2.50	0.41	15.45	45
959-021-1623	16	16.17	17.75	13.50	15.50	1,588	3,591	83.00	3.14	0.85	18.70	15
959-021-1810	18	18.13	20.20	4.00	5.50	287	29,534	19.10	2.02	0.26	8.56	20
959-021-1818	18	18.13	20.20	10.00	11.25	597	3,068	39.90	4.55	0.82	16.89	45
959-021-1823	18	18.13	20.20	13.00	14.25	437	1,355	29.20	5.95	1.41	8.84	45

B	UPDATED 959-021-1004	7/16/2025	UG		
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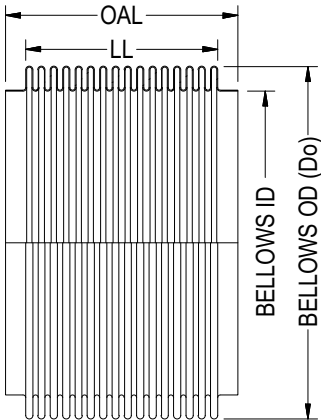
DATE: 3/7/2024

SCALE:
AS SHOWN

DRAWING NUMBER:	959-02X-XXXX
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SHEET#:	REV.
2 OF 3	B

DOUBLE PLY BELLOWS



ISOMETRIC VIEW
SCALE: 1 / 7

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)
959-021-2006	20	20.13	22.00	4.00	5.50	419	14,832	33.80	2.02	0.20	12.82	20
959-021-2012	20	20.19	22.25	4.50	5.75	1,450	126,411	118.70	2.08	0.16	10.78	20
959-021-2018	20	20.19	21.91	9.00	10.25	1,294	9,764	104.30	2.88	0.43	28.48	35
959-021-2023	20	20.19	21.75	13.50	14.75	1,163	3,975	93.00	3.59	0.79	16.62	35
959-021-2412	24	24.19	25.90	5.00	6.00	5,024	166,355	573.00	1.33	0.09	5.97	15
959-021-2418	24	24.19	26.00	12.00	13.50	1,086	6,753	124.80	3.94	0.65	15.50	30
959-021-2422	24	24.19	26.00	13.00	14.00	935	5,005	107.50	4.48	0.79	17.04	30
959-021-2436	24	24.19	25.75	20.00	22.00	2,309	5,201	262.70	3.53	0.96	14.06	15
959-021-2622	26	26.19	27.75	14.00	15.50	1,713	8,981	227.00	3.26	0.58	12.23	35
959-021-2630	26	26.25	27.75	18.00	19.50	1,300	4,189	172.30	4.25	0.96	14.71	25
959-021-2824	28	28.23	30.70	12.50	14.00	229	1,804	36.20	5.92	1.34	1.10	25
959-021-3010	30	30.21	31.75	4.00	5.50	9,905	767,987	1728.40	0.91	0.04	3.36	35
959-021-3016	30	30.21	32.00	8.00	9.50	1,878	38,822	330.40	2.70	0.24	9.39	25
959-021-3029	30	30.21	31.75	18.00	19.50	1,381	5,861	241.00	4.40	0.87	13.49	25
959-021-3607	36	36.13	38.25	2.50	3.50	3,617	949,403	909.60	1.24	0.03	4.04	20
959-021-3612	36	36.13	38.40	6.00	7.25	1,455	74,986	367.30	2.85	0.17	9.10	25
959-021-3617	36	36.13	37.97	9.00	10.25	3,721	87,148	928.60	2.43	0.20	7.27	30
959-021-4007	40	40.40	42.25	2.50	3.50	5,909	1,915,060	1834.70	1.05	0.02	2.89	20

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

B	UPDATED 959-021-1004	7/17/2025	UG		
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DATE:	SCALE:	DRAWING NUMBER:	SHEET#:	REV.
3/7/2024	AS SHOWN	959-02X-XXXX	3 OF 3	B



Bellows Systems Inc
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