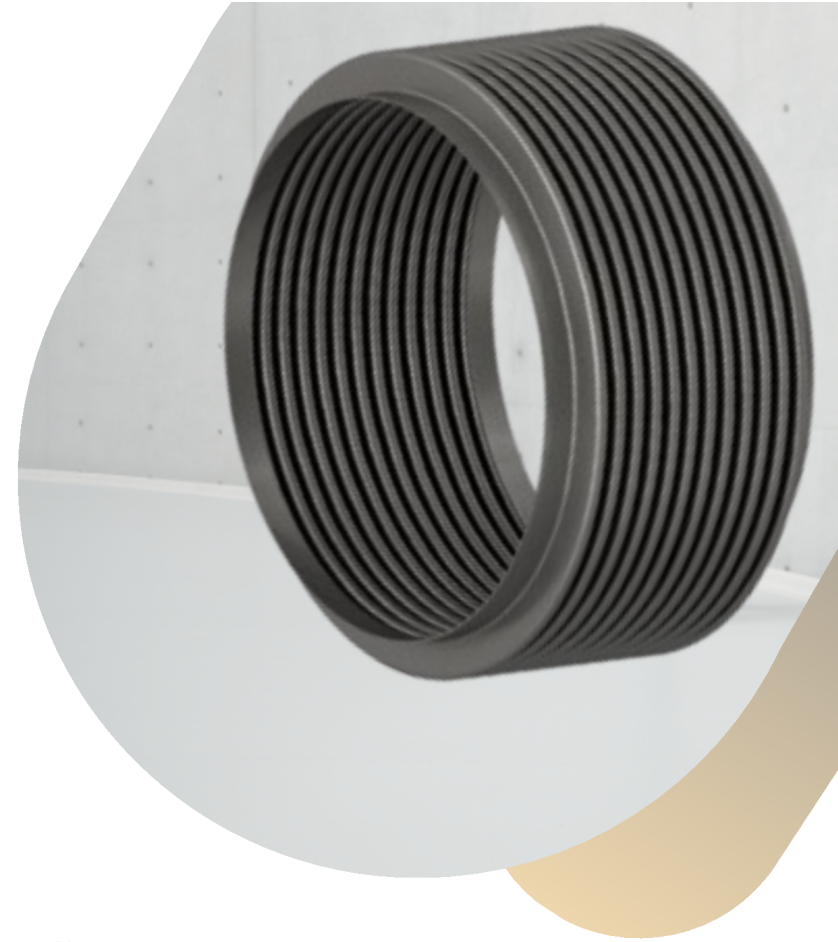
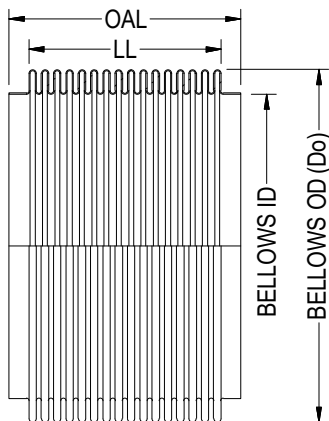




HIGH PRESSURE BELLOWS
DATA SHEETS



TRIPLE 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)
959-030-2005	1.5	2.14	2.70	2.00	3.00	3,507	7,082	3.70	0.31	0.09	12.10	265
959-030-2406	2	2.43	3.00	2.00	3.00	2,141	5,828	2.90	0.40	0.11	16.65	15
959-030-2412	2	2.43	3.10	6.00	7.00	1,611	517	2.20	0.83	0.63	3.00	210
959-030-2906	2.5	2.93	3.60	2.00	3.00	2,108	8,077	4.10	0.44	0.10	13.11	152
959-030-2912	2.5	2.93	3.60	6.00	7.25	1,757	805	3.40	0.95	0.60	3.00	230
959-030-3506	3	3.58	4.30	2.00	3.00	2,301	13,465	6.50	0.44	0.08	11.25	145
959-030-3512	3	3.58	4.40	6.00	7.00	979	698	2.80	1.30	0.68	1.00	145
959-030-4406	4	4.59	5.36	2.50	3.50	1,748	11,020	7.90	0.60	0.11	11.53	130
959-030-4412	4	4.59	5.36	5.50	6.25	872	1,189	3.90	1.26	0.48	0.50	135
959-030-4418	4	4.59	5.36	9.00	10.00	728	369	3.30	1.92	1.18	3.00	50
959-030-5305	5	5.33	6.00	2.50	3.50	2,774	22,329	16.20	0.49	0.08	8.56	150
959-030-5508	5	5.65	6.70	3.00	4.00	838	6,220	5.80	1.16	0.20	10.00	65
959-030-5512	5	5.65	6.50	5.50	6.75	784	1,635	5.30	1.47	0.45	1.00	100
959-030-6508	6	6.71	7.70	3.00	4.00	965	9,995	9.10	1.13	0.16	10.00	70
959-030-6512	6	6.71	7.70	5.50	6.50	591	1,842	5.60	1.93	0.50	3.00	55
959-030-6712	6	6.82	7.75	5.00	6.00	773	2,897	7.50	1.58	0.37	3.00	80
959-030-8508	8	8.674	10.10	4.13	5.13	345	3,323	5.50	1.70	0.42	3.00	30
959-030-8512	8	8.68	10.10	5.50	6.50	262	1,450	4.20	2.24	0.73	1.00	30

A	FOR REVIEW	3/8/2024	UG		
REV.	DESCRIPTION	DATE:	BY:	CHK'D:	APPD:



Bellows Systems

BELLows SYSTEMS, INC.

Houston, TX
www.bellows-systems.com

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TRIPLE PLY

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DRAWN BY:
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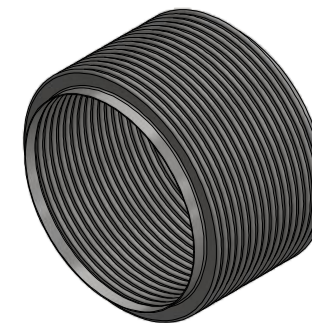
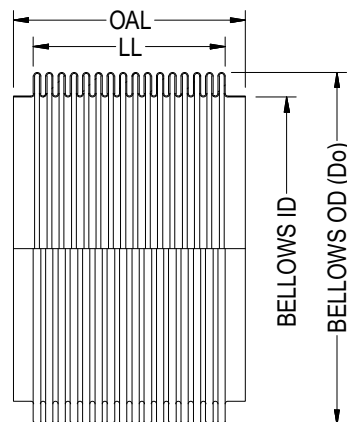
DATE: 3/8/2024

SCALE:
AS SHOWN

DRAWING NUMBER: 959-03X-XXXX

SHEET#:	REV.
1 OF 3	A

TRIPLE 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)
959-031-1004	10	10.88	12.00	2.00	3.00	2,466	120,666	58.70	0.72	0.05	6.86	70
959-031-1012	10	10.03	11.00	5.50	6.75	974	6,270	19.60	1.73	0.31	3.00	70
959-031-1108	10	10.88	12.10	4.00	5.00	796	12,185	19.10	1.73	0.22	5.00	40
959-031-1112	10	10.88	12.00	5.50	6.75	693	5,653	16.50	2.24	0.37	3.00	50
959-031-1210	12	12.86	14.00	10.00	11.50	1,347	4,139	44.20	2.47	0.63	1.00	100
959-031-1212	12	12.03	13.85	5.00	6.50	789	9,661	24.00	2.26	0.36	5.00	30
959-031-1312	12	12.85	14.30	10.50	7.50	1,809	5,022	60.60	2.54	0.68	3.00	95
959-031-1318	12	12.85	14.20	8.00	9.50	2,091	10,164	69.50	2.05	0.41	3.00	115
959-031-1323	12	12.85	14.30	13.50	15.00	1,407	2,401	47.10	3.29	1.12	1.00	70
959-031-1404	14	14.18	16.30	1.25	2.75	1,632	363,805	68.90	0.58	0.04	8.22	25
959-031-1412	14	14.13	16.00	4.50	5.50	2,200	41,070	90.80	1.72	0.18	11.59	65
959-031-1423	14	14.17	15.75	13.00	15.00	1,197	2,750	48.70	3.67	1.09	1.00	65
959-031-1604	16	16.19	18.35	1.88	3.13	2,612	355,400	142.00	0.80	0.05	7.88	35
959-031-1616	16	16.17	17.75	8.00	10.00	1,645	13,324	86.00	2.69	0.43	3.00	80
959-031-1623	16	16.17	17.75	13.50	15.50	2,608	6,831	136.40	2.86	0.77	1.00	135
959-031-1810	18	18.13	20.20	4.00	5.50	2,089	83,980	139.50	1.79	0.14	10.64	40
959-031-1818	18	18.13	20.20	10.00	11.25	947	6,588	63.20	4.32	0.78	1.00	40
959-031-1823	18	18.13	20.20	13.00	14.25	692	2,909	46.20	5.57	1.35	1.00	35

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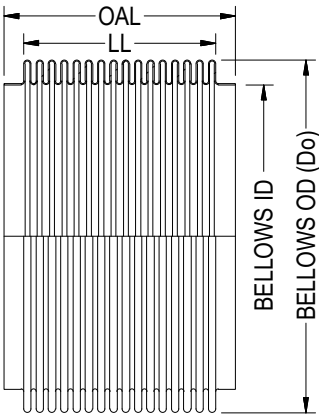
DATE: 3/8/2024

SCALE:
AS SHOWN

DRAWING NUMBER:	959-03X-XXXX
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SHEET#:	REV.
2 OF 3	A

TRIPLE 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)
959-031-2006	20	20.13	22.00	4.00	5.50	3,098	144,633	250.00	1.57	0.11	7.98	55
959-031-2012	20	20.19	22.25	4.50	5.75	2,299	88,630	188.00	1.97	0.15	9.94	40
959-031-2018	20	20.19	21.91	9.00	10.25	2,071	19,193	167.00	2.69	0.40	10.00	65
959-031-2023	20	20.19	21.75	13.50	14.75	1,873	7,580	150.00	3.32	0.73	1.00	95
959-031-2412	24	24.28	25.90	5.00	6.00	4,729	190,647	541.00	1.44	0.10	6.08	75
959-031-2418	24	24.28	26.00	12.00	13.50	1,739	13,395	200.00	3.70	0.60	3.00	60
959-031-2422	24	24.28	26.00	13.00	14.00	1,499	10,040	172.00	4.18	0.74	3.00	65
959-031-2436	24	24.28	25.75	20.00	22.00	3,492	8,903	397.30	3.43	0.93	1.00	150
959-031-2622	26	26.25	27.75	14.00	15.50	2,641	16,191	350.00	3.11	0.55	3.00	100
959-031-2630	26	26.25	27.75	18.00	19.50	1,963	7,435	260.20	4.10	0.93	0.13	105
959-031-2824	28	28.23	30.70	12.50	14.00	708	7,588	111.70	5.46	1.02	1.00	30
959-031-3010	30	30.19	31.75	4.00	5.50	7,698	716,520	1342.40	1.10	0.05	3.86	100
959-031-3016	30	30.21	32.00	8.00	9.50	3,000	77,127	527.60	2.53	0.23	8.06	60
959-031-3029	30	30.21	31.75	18.00	19.50	2,084	10,462	363.60	4.27	0.84	0.50	95
959-031-3607	36	36.13	38.25	2.50	3.50	5,733	2,058,476	1441.60	1.15	0.03	3.80	40
959-031-3612	36	36.13	38.40	6.00	7.25	2,295	161,543	579.40	2.69	0.17	8.47	35
959-031-3617	36	36.13	37.90	9.00	10.25	6,738	184,960	1678.50	2.09	0.18	5.58	110
959-031-4007	40	40.4	42.25	2.50	3.50	9,439	4,008,813	2930.80	1.00	0.02	2.74	35

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

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DATE:
3/8/2024

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959-03X-XXXX

SHEET#:
3 OF 3

REV.
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BELLOWS SYSTEMS, INC.
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BELLOWS ELEMENT
TRIPLE PLY



Bellows
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