

12" L/L SINGLE-PLY BELLOWS DATA

HASTELLOY-X

NOMINAL SIZE	BELLOWS I.D.	LIVE LENGTH	AXIAL COMP.	AXIAL SPRING RATE (LBS/INCH)	CYCLES	LATERAL OFFSET	LATERAL SPRING RATE (LBS/INCH)	CYCLES	MAX PRESSURE	MAX TEMP	PART NUMBER
4" TUBE	4.00"	12.00"	2.00"	59	100,000	1.50"	13	100,000	5 PSIG	1500°F	11-40120-X
4" PIPE	4.50"	12.00"	2.50"	65	54,751	1.50"	18	100,000	5 PSIG	1500°F	11-45120-X
5" TUBE	5.00"	12.00"	3.25"	98	10,114	1.50"	33	100,000	5 PSIG	1500°F	11-50120-X
5" PIPE	5.56"	12.00"	3.25"	106	9,864	1.50"	47	39,396	5 PSIG	1500°F	11-55120-X
6" TUBE	6.00"	12.00"	3.50"	98	10,009	1.50"	46	57,034	5 PSIG	1500°F	11-60120-X
6" PIPE	6.63"	12.00"	3.50"	108	9,303	1.50"	61	31,683	5 PSIG	1500°F	11-65120-X
8" TUBE	8.00"	12.00"	3.50"	130	8,458	1.50"	102	11,848	5 PSIG	1500°F	11-80120-X
8" PIPE	8.63"	12.00"	3.50"	140	8,184	1.50"	127	8,177	5 PSIG	1500°F	11-85120-X
10" TUBE	10.00"	12.00"	4.00"	158	9,322	1.25"	198	20,001	5 PSIG	1500°F	12-100120-X
10" PIPE	10.75"	12.00"	4.00"	172	8,626	1.25"	246	13,229	5 PSIG	1500°F	11-105120-X
12" TUBE	12.00"	12.00"	4.00"	192	8,223	1.25"	336	7,719	5 PSIG	1500°F	11-120120-X
12" PIPE	12.75"	12.00"	4.00"	204	8,020	1.00"	399	17,003	5 PSIG	1500°F	11-125120-X
14"	14.00"	12.00"	3.75"	223	10,529	1.00"	521	10,619	5 PSIG	1500°F	11-140120-X
16"	16.00"	12.00"	3.75"	254	10,020	.88"	763	10,221	5 PSIG	1500°F	11-160120-X
18"	18.00"	12.00"	3.75"	285	9,625	.75"	1,071	12,425	5 PSIG	1500°F	11-180120-X
20"	20.00"	12.00"	3.75"	316	9,310	.75"	1,451	7,418	5 PSIG	1500°F	11-200120-X
22"	22.00"	12.00"	3.75"	347	9,170	.63"	1,910	10,879	5 PSIG	1500°F	11-220120-X
24"	24.00"	12.00"	4.00"	446	12,984	.63"	3,026	12,654	5 PSIG	1500°F	11-240120-X
26"	26.00"	12.00"	4.00"	478	12,951	.63"	3,772	8,758	5 PSIG	1500°F	11-260120-X
28"	28.00"	12.00"	4.00"	514	12,609	.50"	4,667	18,834	5 PSIG	1500°F	11-280120-X
30"	30.00"	12.00"	4.00"	549	12,313	.50"	5,690	13,232	5 PSIG	1500°F	11-300120-X
32"	32.00"	12.00"	4.00"	585	12,054	.50"	6,854	9,606	5 PSIG	1500°F	11-320120-X
34"	34.00"	12.00"	4.00"	621	11,826	.50"	8,166	7,166	5 PSIG	1500°F	11-340120-X
36"	36.00"	12.00"	4.00"	656	11,667	.38"	9,633	22,217	2 PSIG	1500°F	11-360120-X
38"	38.00"	12.00"	4.00"	692	11,575	.38"	11,263	16,895	2 PSIG	1500°F	11-380120-X
40"	40.00"	12.00"	4.00"	727	11,493	.38"	13,067	13,112	2 PSIG	1500°F	11-400120-X
42"	42.00"	12.00"	4.00"	762	11,419	.38"	15,053	10,356	2 PSIG	1500°F	11-420120-X
44"	44.00"	12.00"	4.00"	798	11,351	.25"	17,230	69,474	2 PSIG	1500°F	11-440120-X
46"	46.00"	12.00"	4.00"	833	11,289	.25"	19,606	53,772	2 PSIG	1500°F	11-46090-X
48"	48.00"	12.00"	4.00"	868	11,232	.25"	22,191	42,371	2 PSIG	1500°F	11-48090-X

Movements listed are non-concurrent.

Triad engineers will provide an EJMA 9th Edition data sheet with concurrent movements specific to your application.

Cycle life data is theoretical based on EJMA 9th Edition formulas and is not guaranteed.

The cycle life will increase as the required movement is decreased.

Axial and lateral spring rates are based on the maximum allowable temperature shown.

The pressure capability and spring rates increase as the temperature requirement is decreased.