

9" 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"	9.00"	2.75"	76	8,804	1.25"	29	60,162	5 PSIG	1500°F	11-4090-X
4" PIPE	4.50"	9.00"	2.75"	84	7,901	1.25"	40	29,644	5 PSIG	1500°F	11-4590-X
5" TUBE	5.00"	9.00"	2.75"	113	8,710	1.25"	68	17,959	5 PSIG	1500°F	11-5090-X
5" PIPE	5.56"	9.00"	2.75"	122	8,488	1.25"	89	10,910	5 PSIG	1500°F	11-5590-X
6" TUBE	6.00"	9.00"	2.75"	134	7,547	1.25"	111	7,031	5 PSIG	1500°F	11-6090-X
6" PIPE	6.63"	9.00"	2.75"	144	7,455	1.00"	143	13,157	5 PSIG	1500°F	11-6590-X
8" TUBE	8.00"	9.00"	2.75"	173	6,789	.88"	243	9,655	5 PSIG	1500°F	11-8090-X
8" PIPE	8.63"	9.00"	2.75"	186	6,573	.88"	300	6,706	5 PSIG	1500°F	11-8590-X
10" TUBE	10.00"	9.00"	2.75"	214	13,544	.75"	477	13,669	5 PSIG	1500°F	11-10090-X
10" PIPE	10.75"	9.00"	2.75"	233	12,502	.75"	593	9,168	5 PSIG	1500°F	11-10590-X
12" TUBE	12.00"	9.00"	2.75"	260	11,896	.63"	809	12,437	5 PSIG	1500°F	11-12090-X
12" PIPE	12.75"	9.00"	2.75"	275	11,593	.63"	961	9,224	5 PSIG	1500°F	11-12590-X
14"	14.00"	9.00"	2.75"	394	10,830	.50"	1,674	16,536	5 PSIG	1500°F	11-14090-X
16"	16.00"	9.00"	2.75"	449	10,249	.50"	2,446	8,513	5 PSIG	1500°F	11-16090-X
18"	18.00"	9.00"	2.75"	504	9,801	.38"	3,424	19,543	5 PSIG	1500°F	11-18090-X
20"	20.00"	9.00"	2.75"	559	9,444	.38"	4,631	11,432	5 PSIG	1500°F	11-20090-X
22"	22.00"	9.00"	2.75"	614	9,153	.38"	6,092	7,187	5 PSIG	1500°F	11-22090-X
24"	24.00"	9.00"	3.00"	511	11,515	.25"	6,098	74,609	5 PSIG	1500°F	11-24090-X
26"	26.00"	9.00"	3.00"	553	11,184	.25"	7,669	46,493	5 PSIG	1500°F	11-26090-X
28"	28.00"	9.00"	3.00"	594	10,900	.25"	9,487	30,675	5 PSIG	1500°F	11-28090-X
30"	30.00"	9.00"	3.00"	635	10,655	.25"	11,571	21,164	5 PSIG	1500°F	11-30090-X
32"	32.00"	9.00"	3.00"	676	10,439	.25"	13,938	15,139	5 PSIG	1500°F	11-32090-X
34"	34.00"	9.00"	3.00"	717	10,248	.25"	16,606	11,155	5 PSIG	1500°F	11-34090-X
36"	36.00"	9.00"	3.00"	757	10,078	.25"	19,593	8,426	2 PSIG	1500°F	11-36090-X
38"	38.00"	9.00"	3.00"	922	11,575	.19"	26,698	30,750	2 PSIG	1500°F	11-38090-X
40"	40.00"	9.00"	3.00"	970	11,493	.19"	30,974	23,502	2 PSIG	1500°F	11-40090-X
42"	42.00"	9.00"	3.00"	1,017	11,419	.19"	35,682	18,319	2 PSIG	1500°F	11-42090-X
44"	44.00"	9.00"	3.00"	1,064	11,351	.19"	40,842	14,523	2 PSIG	1500°F	11-44090-X
46"	46.00"	9.00"	3.00"	1,111	11,289	.19"	46,475	11,685	2 PSIG	1500°F	11-46090-X
48"	48.00"	9.00"	3.00"	1,158	11,232	.19"	52,601	9,525	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.