

12" LENGTH 321SS SINGLE PLY BELLOWS DATA

NOMINAL SIZE	BELLOWS ID	LIVE LENGTH	AXIAL COMP.	AXIAL SPRING RATE	CYCLES	LATERAL OFFSET	LATERAL SPRING RATE	CYCLES	MAX PRESSURE	MAX TEMP
4" TUBE	4.00"	12.00"	2.00"	56	100,000	1.50"	12	100,000	5 PSIG	1200° F
4" PIPE	4.50"	12.00"	2.00"	62	65,128	1.50"	17	100,000	5 PSIG	1200° F
5" TUBE	5.00"	12.00"	3.25"	98	10,465	1.50"	33	100,000	5 PSIG	1200° F
5" PIPE	5.56"	12.00"	3.50"	100	8,609	1.50"	46	43,963	5 PSIG	1200° F
6" TUBE	6.00"	12.00"	3.50"	101	9,746	1.50"	47	55,502	5 PSIG	1200° F
6" PIPE	6.63"	12.00"	3.50"	108	9,623	1.50"	61	32,918	5 PSIG	1200° F
8" TUBE	8.00"	12.00"	3.50"	130	8,747	1.25"	102	31,382	5 PSIG	1200° F
8" PIPE	8.63"	12.00"	3.50"	147	7,294	1.25"	133	17,964	5 PSIG	1200° F
10" TUBE	10.00"	12.00"	4.00"	159	9,432	1.25"	200	20,281	5 PSIG	1200° F
10" PIPE	10.75"	12.00"	4.00"	171	9,119	1.25"	245	13,999	5 PSIG	1200° F
12" TUBE	12.00"	12.00"	4.00"	192	8,502	1.00"	336	24,214	5 PSIG	1200° F
12" PIPE	12.75"	12.00"	4.00"	204	8,292	1.00"	399	17,622	5 PSIG	1200° F
14"	14.00"	12.00"	4.50"	155	12,801	1.00"	370	30,931	5 PSIG	1200° F
16"	16.00"	12.00"	4.50"	176	12,061	1.00"	540	15,313	5 PSIG	1200° F
18"	18.00"	12.00"	4.50"	198	11,493	.88"	755	15,908	5 PSIG	1200° F
20"	20.00"	12.00"	4.50"	219	11,042	.75"	1,021	20,736	5 PSIG	1200° F
22"	22.00"	12.00"	4.50"	240	10,674	.75"	1,342	12,721	5 PSIG	1200° F
24"	24.00"	12.00"	4.50"	262	10,367	.63"	1,725	20,319	5 PSIG	1200° F
26"	26.00"	12.00"	4.50"	283	10,107	.63"	2,173	13,469	5 PSIG	1200° F
28"	28.00"	12.00"	4.50"	304	9,883	.50"	2,693	28,614	5 PSIG	1200° F
30"	30.00"	12.00"	4.50"	392	12,481	.50"	4,062	24,387	5 PSIG	1200° F
32"	32.00"	12.00"	4.50"	418	12,210	.50"	4,892	17,384	5 PSIG	1200° F
34"	34.00"	12.00"	4.50"	443	11,970	.50"	5,827	12,773	5 PSIG	1200° F
36"	36.00"	12.00"	4.50"	469	11,757	.50"	6,784	9,625	2 PSIG	1200° F
38"	38.00"	12.00"	4.50"	494	11,565	.38"	8,039	31,078	2 PSIG	1200° F
40"	40.00"	12.00"	4.50"	519	11,410	.38"	9,328	23,607	2 PSIG	1200° F
42"	42.00"	12.00"	4.50"	544	11,335	.38"	10,744	18,413	2 PSIG	1200° F
44"	44.00"	12.00"	4.50"	570	11,267	.38"	12,296	11,267	2 PSIG	1200° F
46"	46.00"	12.00"	4.50"	595	11,205	.38"	13,991	11,759	2 PSIG	1200° F
48"	48.00"	12.00"	4.50"	620	11,147	.38"	15,834	9,590	2 PSIG	1200° F

Movements listed are non-concurrent
 Spring rate units are lbs/in
 Calculations based on EJMA 9th Edition

Contact FS Products engineers for
 calculations based on your specific job
 requirements

Note: Axial and lateral spring rates are based on maximum allowable temperature shown