

# 12" LENGTH 321SS MULTI 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"	50	100,000	1.50"	11	100,000	5 PSIG	1200° F
4" PIPE	4.50"	12.00"	2.50"	55	100,000	1.50"	15	100,000	5 PSIG	1200° F
5" TUBE	5.00"	12.00"	3.25"	40	100,000	1.50"	13	100,000	5 PSIG	1200° F
5" PIPE	5.56"	12.00"	4.00"	43	100,000	1.50"	18	100,000	5 PSIG	1200° F
6" TUBE	6.00"	12.00"	4.50"	46	54,696	1.50"	21	100,000	5 PSIG	1200° F
6" PIPE	6.63"	12.00"	5.00"	49	29,910	1.50"	28	100,000	5 PSIG	1200° F
8" TUBE	8.00"	12.00"	5.50"	59	15,468	1.50"	46	100,000	5 PSIG	1200° F
8" PIPE	8.63"	12.00"	5.50"	64	13,804	1.50"	58	100,000	5 PSIG	1200° F
10" TUBE	10.00"	12.00"	5.50"	72	13,085	1.50"	86	70,900	5 PSIG	1200° F
10" PIPE	10.75"	12.00"	5.50"	80	10,773	1.50"	110	38,641	5 PSIG	1200° F
12" TUBE	12.00"	12.00"	5.50"	85	11,405	1.50"	144	23,482	5 PSIG	1200° F
12" PIPE	12.75"	12.00"	5.50"	91	11,126	1.50"	171	17,035	5 PSIG	1200° F
14"	14.00"	12.00"	5.50"	99	10,729	1.50"	223	10,577	5 PSIG	1200° F
16"	16.00"	12.00"	5.50"	113	10,225	1.25"	328	13,175	5 PSIG	1200° F
18"	18.00"	12.00"	5.50"	126	9,832	1.13"	461	12,187	5 PSIG	1200° F
20"	20.00"	12.00"	5.25"	171	18,120	1.00"	783	18,190	5 PSIG	1200° F
22"	22.00"	12.00"	5.25"	187	17,498	.88"	1,030	21,831	5 PSIG	1200° F
24"	24.00"	12.00"	5.25"	204	16,980	.75"	1,324	30,712	5 PSIG	1200° F
26"	26.00"	12.00"	5.25"	220	16,541	.75"	1,669	19,942	5 PSIG	1200° F
28"	28.00"	12.00"	5.25"	236	16,163	.75"	2,070	13,586	5 PSIG	1200° F
30"	30.00"	12.00"	5.25"	253	15,835	.63"	2,529	23,950	5 PSIG	1200° F
32"	32.00"	12.00"	5.25"	269	15,572	.63"	3,051	17,063	5 PSIG	1200° F
34"	34.00"	12.00"	5.25"	285	15,458	.50"	3,639	40,319	5 PSIG	1200° F
36"	36.00"	12.00"	5.25"	217	42,715	.50"	3,114	87,857	2 PSIG	1200° F
38"	38.00"	12.00"	5.25"	228	41,940	.50"	3,644	62,864	2 PSIG	1200° F
40"	40.00"	12.00"	5.25"	240	41,240	.50"	4,231	46,336	2 PSIG	1200° F
42"	42.00"	12.00"	5.25"	252	40,606	.50"	4,877	35,011	2 PSIG	1200° F
44"	44.00"	12.00"	5.25"	263	40,029	.50"	5,585	27,019	2 PSIG	1200° F
46"	46.00"	12.00"	5.25"	275	39,675	.38"	6,358	100,000	2 PSIG	1200° F
48"	48.00"	12.00"	5.25"	286	39,469	.38"	7,198	84,460	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