

# 13"-15" 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
6" TUBE	6.00"	13.00"	4.00"	98	8,012	2.00"	39	29,135	5 PSIG	1200° F
6" PIPE	6.63"	13.00"	4.25"	106	5,789	2.00"	51	17,435	5 PSIG	1200° F
8" TUBE	8.00"	13.50"	4.25"	122	6,321	1.88"	76	13,334	5 PSIG	1200° F
8" PIPE	8.63"	13.50"	4.25"	129	6,448	1.88"	93	9,678	5 PSIG	1200° F
10" TUBE	10.00"	15.00"	5.50"	136	6,202	1.88"	109	25,718	5 PSIG	1200° F
10" PIPE	10.75"	15.00"	5.50"	146	6,006	1.88"	133	17,604	5 PSIG	1200° F
12" TUBE	12.00"	15.00"	5.00"	162	8,963	1.75"	182	14,404	5 PSIG	1200° F
12" PIPE	12.75"	15.00"	5.00"	172	8,740	1.75"	216	10,644	5 PSIG	1200° F
14"	14.00"	15.00"	6.00"	133	9,366	1.75"	204	17,171	5 PSIG	1200° F
16"	16.00"	15.00"	6.00"	152	8,839	1.63"	297	12,614	5 PSIG	1200° F
18"	18.00"	15.00"	6.00"	170	8,434	1.50"	416	10,377	5 PSIG	1200° F
20"	20.00"	15.00"	6.00"	189	8,111	1.38"	562	9,401	5 PSIG	1200° F
22"	22.00"	15.00"	6.00"	207	7,847	1.25"	739	9,309	5 PSIG	1200° F
24"	24.00"	15.00"	6.75"	130	19,792	1.25"	564	26,378	5 PSIG	1200° F
26"	26.00"	15.00"	6.75"	140	19,111	1.13"	708	29,738	5 PSIG	1200° F
28"	28.00"	15.00"	6.75"	151	18,531	1.13"	876	20,080	5 PSIG	1200° F
30"	30.00"	15.00"	6.75"	161	18,030	1.06"	1,067	18,950	5 PSIG	1200° F
32"	32.00"	15.00"	6.75"	171	17,592	1.00"	1,285	18,190	5 PSIG	1200° F
34"	34.00"	15.00"	6.75"	182	17,207	.88"	1,530	26,128	5 PSIG	1200° F
36"	36.00"	15.00"	6.75"	192	16,864	.88"	1,804	19,350	5 PSIG	1200° F
38"	38.00"	15.00"	6.75"	203	16,557	.75"	2,109	32,167	5 PSIG	1200° F
40"	40.00"	15.00"	6.75"	216	16,281	.75"	2,447	24,423	5 PSIG	1200° F
42"	42.00"	15.00"	6.75"	223	16,030	.75"	2,818	18,925	5 PSIG	1200° F
44"	44.00"	15.00"	6.75"	233	15,081	.63"	3,226	38,071	5 PSIG	1200° F
46"	46.00"	15.00"	6.75"	244	15,592	.63"	3,670	29,853	5 PSIG	1200° F
48"	48.00"	15.00"	6.75"	254	15,399	.63"	4,153	23,787	5 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