

Stock Bellows Data List

Stock List Rev: 06/29/18

See Mini-Flex "Metal Bellows Design Guide" for column heading details and related information. Dimensions are in inches. Data is subject to change without notice

1	2	3	4	5	6	7	8	9	10	11	12	13	Notes
Stock Number	Conv. Inside Diameter	Conv. Outside Diameter	Wall	Neck 1 & 2 Outside Diameter	Neck Length	Conv. Free Length	Maximum Deflection Compression	Spring Rate lbs./in.	Eff. Area sq.in.	Squirm Rating PSI	Burst Rating PSI	No. Conv.	
SS-97-40-145	.081	.154	.004	.102 .098	.100	.805	.105	145	.011	TBD	7500	47	
SS-97-40-145R	.089	.141	.004	.102 .098	.100	2.380	NA	NA	.0104	TBD	7500	47	Flexible hose application
SS-125-46-66	.105	.230	.0046	.126	.300	.910	.148	66	.022	400	6700	32	
SS-125-46-80	.108	.226	.0046	.126	.300	.800	.120	80	.022	440	6500	28	
SS-125-46-168	.108	.226	.0046	.126	.080	.400	.060	168	.022	1000	6500	14	
SS-125-46-210	.105	.226	.0046	.127	.280	.280	.043	210	.022	TBD	5200	10	
I600-125-60-380	.101	.224	.0060	.127	.300	.460	.053	380	.020	3100	6600	16	Inconel 600
PBA-125-50-68	.104	.229	.0050	.127	.100	.800	.130	68	.022	480	3400	28	Phosphor bronze
SS-159-26-180	.148	.254	.0026	.161	.040	.195	.024	180	.032	800	2900	5	
SS-159-33-40	.144	.248	.0032	.161	.300	1.34	.200	40	.030	180	3000	35	
SS-159-36-52	.140	.252	.0036	.161	.130	1.300	.210	52	.030	200	3800	35	
SS-159-33-69	.140	.248	.0036	.161	.130	1.040	.170	69	.030	330	3000	26	
SS-159-36-77	.144	.275	.0036	.161	.250	.590	.100	77	.035	660	3040	14	
SS-159-36-125	.142	.252	.0036	.161	.290	.560	.090	125	.030	1000	3400	15	

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SS- 159-36-250	.143	.250	.0036	.161	.130	.270	.045	250	.030	1900	3800	7	
SS- 159-36-320	.144	.250	.0036	.161	.030	.240	.038	320	.031	1900	3400	6	
SS-159-60-117	.134	.260	.0060	.161	.300	1.220	.185	125	.030	450	6300	35	
SS-159-60-135	.137	.297	.0060	.161	.250	.805	.170	135	.037	900	6000	19	
SS-159-60-212	.135	.279	.0060	.161	.350	.660	.100	212	.034	900	6300	16	
SS-159-60-232	.138	.285	.0060	.161	.250	.530	.082	232	.035	1800	6100	14	
SS-159-60-240	.140	.279	.0060	.161	.350	.550	.090	240	.035	1800	6300	14	
SS-159-60-245	.136	.260	.0060	.161	.100	.760	.100	245	.0308	1700	6300	22	
SS-159-60-270	.137	.278	.0060	.161	.250	.520	.080	270	.034	1900	6100	14	
SS-159-60-300	.134	.254	.0060	.161	.070	.720	.080	300	.029	2000	6300	21	
SS-159-60-320	.137	.295	.0060	.161	.075	.340	.065	320	.036	TBD	5500	8	
SS-159-60-500	.134	.252	.0060	.161	.350	.450	.055	500	.029	3400	6300	14	
SS-159-60-600	.134	.252	.0060	.161	.120	.310	.041	750	.029	TBD	6300	9	
SS-159-80-340	.132	.285	.0080	.162	.250	.780	.105	340	.034	1800	8000	20	
SS-159-80-357	.126	.254	.0080	.162	.350	1.200	.150	357	.028	1240	8800	35	
SS-159-80-410													

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	.126	.254	.0080	.161	.140	1.080	.105	410	.028	1800	8200	31	
SS-159-80-624	.126	.254	.0080	.161	.080	.700	.085	624	.028	TBD	8200	20	
SS-159-80-780	.126	.254	.0080	.161	.300	.490	.065	780	.028	TBD	8200	14	
SS-159-80-1200	.125	.259	.0080	.208	.070	.400	.035	1200	.029	TBD	10,000	11	
SS-159-80-2360	.129	.255	.0080	.161	.060	.160	.018	2500	.029	6000	9200	5	
BC-159-33-42	.148	.253	.0033	.161	.300	1.080	.190	42	.032	240	2250	26	Beryllium copper
BC-159-60-132	.132	.253	.0060	.161	.120	1.160	.165	132	.029	600	4500	35	Beryllium copper
BC-159-60-175	.137	.278	.0060	.161	.250	.535	.090	175	.034	1500	4400	14	Beryllium copper
I625-159-60-560	.134	.252	.0060	.161	.350	.460	.063	560	.029	5000	9400	14	Inconel 625
I718-159-58-300	.135	.250	.0058	.161	.070	.715	.080	310	.029	2640	7200	21	Inconel 718
I718-159-58-501	.134	.252	.0058	.161	.140	.450	.060	500	.029	5300	7400	14	Inconel 718
I718-159-72-280	.128	.254	.0072	.161	.350	1.230	.175	280	.028	1300	9800	35	Inconel 718
I718-159-72-336	.134	.292	.0072	.161	.250	.580	.098	336	.036	2700	8800	14	Inconel 718
I718-159-72-425	.132	.255	.0072	.161	.100	.760	.105	425	.030	3100	9300	22	Inconel 718
I718-159-72-428													Inconel 718

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	.133	.276	.0072	.161	.250	.535	.088	428	.033	3500	9300	14	
I718-159-72-1060	.129	.252	.0072	.161	.150	.410	.039	1060	.028	TBD	9600	12	Inconel 718
I718-159-72-1235	.131	.248	.0072	.161	.070	.310	.040	1235	.028	2500	9600	9	Inconel 718
I718-159-72-2300	.130	.252	.0072	.161	.040	.155	.025	2340	.029	TBD	11000	5	Inconel 718
IX-159-60-600	.134	.252	.0058	.159	.150	.410	.057	600	.029	TBD	7500	12	Inconel X-750
IX-159-58-740	.133	.250	.0058	.161	.070	.330	.045	740	.029	TBD	7000	9	Inconel X-750
PB-159-33-35	.145	.254	.0033	.161	.100	1.040	.150	42	.0295	150	1800	26	Phosphor bronze
PB-159-33-140	.147	.250	.0033	.161	.130	.280	.045	140	.031	600	1950	7	Phosphor bronze
SS-189-50-68	.172	.325	.0050	.190	.250	1.02	.220	68	.049	400	4000	26	
SS-189-50-100	.171	.317	.0050	.189	.250	.660	.140	100	.047	800	3700	17	
SS-189-50-137	.169	.317	.0050	.189	.250	.500	.090	137	.046	1000	3300	13	
SS-189-50-150	.171	.332	.0050	.189	.100	.390	.080	150	.050	1100	3700	10	
SS-189-50-230	.170	.320	.0050	.190	.050	.300	.065	230	.047	1400	3800	8	
SS-189-50-300	.171	.332	.0050	.190 .299	.050	.200	.040	300	.050	1500	4100	5	
SS-189-50-490	.171	.323	.0050	.190	.100	.150	.034	490	.048	TBD	3800	4	

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SS-250-40-25	.237	.430	.0040	.252	.250	1.080	.310	25	.087	TBD	2800	23	
SS-250-40-38	.237	.380	.0040	.252 .325	.150 .060	1.200	.280	38	.074	140	2900	32.5	
SS-250-40-43	.238	.430	.0040	.252	.250	.510	.150	43	.087	470	2300	11	
SS-250-40-47	.234	.375	.0040	.252	.120	1.120	.240	47	.073	160	2300	32	
SS-250-40-47-1	.234	.375	.0040	.252	.120	1.200	.300	47	.073	155	2300	32	
SS-250-40-60	.234	.375	.0040	.252	.110	.890	.164	60	.073	350	2340	25	
SS-250-40-71	.239	.413	.0040	.323	.060	.390	.115	65	.083	500	2300	10	
SS-250-40-78	.239	.411	.0040	.252	.110	.410	.105	78	.083	600	2300	10	
SS-250-40-94	.235	.380	.0040	.252	.040	.530	.100	94	.075	800	2850	16	
SS-250-40-150	.239	.378	.0040	.252	.120	.340	.081	150	.075	900	2800	9	
SS-250-40-193	.238	.378	.0040	.252	.120	.325	.075	193	.074	1100	2800	9	
SS-250-40-200	.239	.380	.0040	.252	.100	.250	.054	240	.076	1100	2300	6	
SS-250-50-45	.235	.430	.0050	.252 .327	.150 .060	.990	.265	45	.086	350	2800	23.5	
SS-250-50-110	.232	.375	.0050	.252	.340	1.100	.210	110	.073	450	3300	32	
SS-250-50-164	.232	.403	.0050	.252	.050	.400	.090	164	.080	950	3000	11	
SS-250-50-238	.232	.374	.0050	.252	.120	.390	.085	238	.072	1100	3000	11	

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SS-250-50-243	.236	.377	.0050	.252 .373	.120 .090	.380	.070	243	.074	1300	2580	11	
SS-250-50-295	.237	.378	.0050	.252	.120	.310	.057	295	.074	1160	2700	9	
SS-250-60-56	.236	.435	.006	.253	.090	1.000	.225	56	.088	200	3800	23	
SS-250-60-137	.230	.375	.0060	.252	.340	1.090	.210	137	.072	550	3800	32	
SS-250-60-250	.235	.440	.0060	.253	.120	.390	.100	250	.090	TBD	3800	6	
SS-250-60-265	.230	.404	.0060	.253	.120	.425	.090	265	.079	TBD	3800	11	
SS-250-60-420	.231	.372	.0060	.253	.045	.385	.070	420	.071	TBD	3650	11	
SS-250-60-505	.234	.377	.0060	.253	.120	.310	.065	505	.073	2300	3700	9	
SS-250-100-225	.222	.448	.0100	.253	.300	1.390	.200	225	.088	TBD	6600	25	
SS-250-100-520B	.218	.403	.0100	.252	.300	1.270	.170	425	.076	1800	6000	26	
SS-250-100-550	.223	.390	.0100	.254	.300	1.280	.150	550	.074	TBD	7200	26	
SS-250-100-2000	.213	.375	.0100	.253	.250	.500	.045	2000	.066	7800	4000	10	Change; ID was .206 Squirm was 6800
SS-250-100-2350	.225	.404	.0100	.253	.250	.255	.040	2350	.078	TBD	7500	5	
BC-250-40-14	.238	.430	.0042	.253	.250	1.140	.380	14	.088	70	2100	23	Beryllium copper
BC-250-40-18	.238	.430	.0042	.253	.070	.800	.250	18	.088	190	2100	17	Beryllium copper

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BC-250-40-27	.233	.375	.0042	.252	.040	.945	.180	58	.071		2500	27	Beryllium copper
BC-250-40-28	.238	.430	.0042	.253	.250	.520	.160	27	.088	300	2100	11	Beryllium copper
BC-250-40-38	.234	.375	.0042	.252	.250	1.140	.270	38	.071	140	2500	32	Beryllium copper
BC-250-40-55	.234	.375	.0042	.252	.250	.840	.208	45	.073	280	2000	23	Beryllium copper
BC-250-40-65	.236	.375	.0042	.252	.250	.560	.130	65	.073	600	2500	15	Beryllium copper
BC-250-40-165	.237	.377	.0042	.252	.050	.240	.055	165	.074	750	3300	7	Beryllium copper
I718-250-100-2320	.223	.400	.0100	.253	.250	.260	.043	2320	.077	6300	9300	5	Inconel 718
IX-250-60-200	.230	.375	.0060	.252	.110	1.090	.210	200	.072	800	5500	32	Inconel X-750
IX-250-60-1150	.232	.375	.0060	.252	.120	.170	.030	1250	.072	TBD	5000	5	Inconel X-750
SS-320-30-14	.308	.512	.0032	.320	.140	1.32	.425	14	.132	30	1700	24	
SS-320-30-18	.305	.473	.0032	.320	.140	1.21	.340	18	.118	60	1450	25	
SS-320-30-32	.308	.494	.0032	.320	.070	.780	.215	34	.125	240	1400	15	
SS-320-30-33	.307	.493	.0032	.320	.140	.620	.190	33	.125	200	1400	14	
SS-320-30-34	.308	.495	.0032	.462	.070	.820	.250	30	.127	140	1400	15	
SS-320-30-68	.308	.484	.0032	.320	.140	.440	.120	68	.123	350	1400	8	

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SS-320-30-74	.308	.484	.0032	.320	.140	.350	.095	74	.123	370	1400	7	
SS-320-30-181	.310	.486	.0032	.320	.060	.155	.037	171	.123	500	1630	3	
SS-320-80-250	.299	.520	.0080	.464 .469	.070	.760	.165	250	.131	TBD	5400	15	
SS-320-80-270	.295	.515	.0080	.321	.140	.960	.205	260	.129	1050	4350	17	
I625-320-60-280	.295	.450	.0060	.321	.060	.880	.160	280	.109	1750	4200	20	Inconel 625
I625-320-60-317	.302	.474	.0060	.321	.150	.560	.135	317	.119	1500	6000	14	Inconel 625
I625-320-60-750	.302	.485	.0060	.321	.060	.200	.058	750	.121	2100	4000	4	Inconel 625
I625-320-60-1000	.302	.483	.0060	.321	.060	.153	.033	1000	.121	1800	4000	3	Inconel 625
I718-320-80-115	.300	.540	.0080	.321	.160	1.160	.310	115	.138	TBD	4600	21	Inconel 718
I718-320-80-189	.294	.510	.0080	.321	.150	1.030	.230	189	.126	950	5200	21	Inconel 718
I718-320-110-490	.286	.508	.0110	.322	.150	1.350	.230	490	.124	1500	7500	21	Inconel 718
I718-320-110-790	.283	.510	.0110	.322	.148 .115	.840	.146	790	.123	3800	8000	13	Inconel 718
IX-320-60-320	.306	.474	.0060	.321	.120	.580	.130	300	.119	1800	4200	14	Inconel X-750
IX-320-60-625	.304	.476	.0060	.322	.120	.230	.050	625	.119	TBD	4300	6	Inconel X-750

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N200-320-60-250	.302	.470	.0060	.320	.150	.540	.060	275	.117	1000	1700	14	Nickel 200 [Grade A]
SS-375-35-23	.365	.555	.0035	.548	.050	1.250	.362	23	.166	120	1700	24	
SS-375-35-28	.361	.557	.0035	.504	.055	1.030	.180	28	.165	160	1370	23	
SS-375-35-30	.362	.571	.0036	.377	.120	.760	.235	30	.171	160	1350	14	
SS-375-35-31	.362	.551	.0035	.377	.120	1.240	.350	25	.164	75	1500	25	
SS-375-35-38	.362	.571	.0035	.377 .500	.070	.630	.180	38	.171	150	1500	12	
SS-375-35-54	.360	.538	.0035	.377	.110	.760	.215	52	.161	280	1200	16	
SS-375-45-23	.364	.607	.0045	.377	.100	1.11	.235	23	.185	120	2120	18	3/1/17
SS-375-45-26	.366	.627	.0045	.377	.100	.830	.160	26	.194	175	2060	13	3/1/17
SS-375-45-50	.359	.552	.0045	.496 .506	.060 ext .060 Int	1.165	.304	50	.163	210	1800	24.5	
SS-375-45-175	.360	.530	.0045	.377 .475	.090 .065	.500	.127	175	.155	900	1800	11	
SS-375-45-185	.368	.560	.0045	.502	.035	.295	.080	185	.169	900	2020	5	
SS-375-56-46	.362	.607	.0056	.378	.100	1.075	.215	46	.184	250	2700	18	3/1/17
SS-375-56-52	.364	.627	.0056	.378	.100	.830	.145	52	.193	350	2550	13	3/1/17
SS-375-57-80	.360	.623	.0057	.377	.120	.730	.220	80	.190	400	2300	12	
SS-375-56-270													

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	.357	.553	.0056	.501	.040	.365	.070	270	.164	1080	2200	9	
SS-375-80-250	.363	.572	.0080	.377	.110	.780	.180	250	.171	1250	6200	16	
SS-375-80-336	.355	.565	.0080	.378	.110	.630	.150	336	.166	1500	4800	13	
SS-375-80-458	.356	.535	.0080	.378	.110	.720	.128	458	.158	2000	4100	16	
SS-375-80-490	.356	.540	.0080	.377	.150	.675	.108	490	.158	2050	4600	15	
SS-375-80-1350	.355	.565	.0080	.378	.100	.145	.026	1350	.166	1800	4200	3	
B-375-45-28	.362	.560	.0045	.551	.050	1.180	.307	28	.167	120	1100	24	Brass
B-375-50-58	.357	.515	.0045	.377	.125	1.180	.070	58	.150	40	600	25	Brass
B-375-45-98	.363	.557	.0045	.377	.120	.360	.086	98	.166	250	1080	8	Brass
I718-375-57-217	.354	.548	.0057	.377	.100	.490	.170	217	.161	1500	3150	11	Inconel 718
I718-375-75-700	.347	.563	.0075	.377	.250	.420	.095	700	.163	2600	5000	7	Inconel 718
SS-439-40-360	.424	.603	.0040	.439	.090	.170	.038	360	.207	N/A	1250	3	
SS-439-60-60	.425	.725	.0060	.441	.140	.980	.190	60	.260	340	1950	14	
SS-439-60-64	.425	.670	.0060	.441	.140	1.410	.300	64	.235	260	2000	22	

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1	2	3	4	5	6	7	8	9	10	11	12	13	Notes
Stock Number	Conv. Inside Diameter	Conv. Outside Diameter	Wall	Neck 1 & 2 Outside Diameter	Neck Length	Conv. Free Length	Maximum Deflection Compression	Spring Rate lbs./in.	Eff. Area sq.in.	Squirm Rating PSI	Burst Rating PSI	No. Conv.	
SS-439-60-65	.419	.725	.0060	.439	.140	.820	.240	65	.256	340	2000	12	
SS-439-60-80	.422	.685	.0060	.441	.140	1.08	.290	80	.241	TBD	1820	16	
SS-439-60-135	.420	.676	.0060	.440	.050	.630	.168	135	.236	580	2600	10	
SS-439-60-228	.416	.637	.0060	.439	.140	.590	.135	228	.217	900	1800	10	
SS-439-60-265	.415	.686	.0060	.439	.140	.370	.095	265	.238	TBD	2200	6	
SS-439-60-450	.411	.600	.0060	.439	.100	.540	.090	450	.201	TBD	1500	9	
SS-439-60-1140	.419	.637	.0060	.439	.100	.125	.023	1140	.221	N/A	2000	2	
SS-439-120-440	.406	.735	.0120	.440	.120	.915	.135	440	.256	1300	5000	14	
SS-439-120-2000	.401	.680	.0120	.440	.120	.180	.030	3330	.229	N/A	4000	3	
I718-439-56-47	.423	.672	.0056	.441	.140	1.590	.320	47	.235	230	3100	22	Inconel 718
I718-439-56-58	.423	.683	.0056	.441	.140	1.220	.245	58	.241	TBD	2800	16	Inconel 718
I718-439-56-125	.420	.670	.0056	.441	.050	.700	.235	125	.233	720	3400	10	Inconel 718
I718-439-56-130	.420	.681	.0056	.441	.050	.650	.220	130	.238	760	2800	9	Inconel 718
I718-439-56-134	.420	.670	.0056	.441	.050	.630	.205	134	.233	860	3400	9	Inconel 718
I718-439-56-160	.422	.688	.0056	.439	.140	.440	.135	160	.240	700	2500	6	Inconel 718

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1	2	3	4	5	6	7	8	9	10	11	12	13	Notes
Stock Number	Conv. Inside Diameter	Conv. Outside Diameter	Wall	Neck 1 & 2 Outside Diameter	Neck Length	Conv. Free Length	Maximum Deflection Compression	Spring Rate lbs./in.	Eff. Area sq.in.	Squirm Rating PSI	Burst Rating PSI	No. Conv.	
I718-439-56-170	.422	.640	.0056	.439	.165	.610	.170	170	.222	950	2500	10	Inconel 718
I718-439-56-200	.416	.637	.0056	.439	.065	.595	.158	194	.217	1000	2500	10	Inconel 718
I718-439-56-210	.422	.665	.0056	.439	.140	.410	.120	210	.232	800	2600	6	Inconel 718
I718-439-56-260	.420	.665	.0056	.439	.150	.340	.100	260	.231	800	2500	5	Inconel 718
I718-439-75-120	.418	.718	.0075	.441	.140	1.015	.335	120	.253	740	3800	14	Inconel 718
I718-439-75-140	.416	.715	.0075	.439	.140	.870	.280	140	.253	840	3900	12	Inconel 718
I718-439-75-180	.416	.680	.0075	.439	.150	.910	.280	180	.236	1000	3400	13	Inconel 718
I718-439-75-564	.410	.632	.0075	.439	.140	.500	.120	564	.215	2200	3400	8	Inconel 718
SS-500-35-16	.493	.798	.0035	.502	.300	1.140	.320	16	.327	140	1000	14	
SS-500-35-202	.489	.723	.0035	.502	.075	.13	.035	202	.288	NA	960	2	
SS-500-50-18	.493	.845	.005	.502	.340	1.320	.400	18	.351	120	1450	15	
SS-500-50-20	.492	.870	.0050	.502	.340	1.250	.390	20	.364	90	1450	14	
SS-500-50-52	.481	.730	.0050	.690 .675	.100	1.060	.230	52	.288	TBD	1450	19	
SS-500-50-61	.482	.728	.0050	.502	.340	1.200	.325	61	.289	200	1400	22	
SS-500-50-75	.487	.733	.0050	.502	.340	.940	.230	75	.292	340	1400	13	

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1	2	3	4	5	6	7	8	9	10	11	12	13	Notes
Stock Number	Conv. Inside Diameter	Conv. Outside Diameter	Wall	Neck 1 & 2 Outside Diameter	Neck Length	Conv. Free Length	Maximum Deflection Compression	Spring Rate lbs./in.	Eff. Area sq.in.	Squirm Rating PSI	Burst Rating PSI	No. Conv.	
SS-500-50-80	.487	.733	.0050	.636	Ext. .070	1.010	.265	80	.292	350	1400	12.5	
SS-500-50-88	.487	.755	.0050	.502	.300	.750	.190	88	.300	330	1400	10	
SS-500-50-91	.483	.725	.0050	.636	Ext. .070	.790	.225	91	.288	400	1800	13	
SS-500-50-95	.491	.798	.0050	.502	.080	.355	.085	95	.326	250	1420	5	
SS-500-50-120	.492	.756	.0050	.752	.060	.500	.135	120	.306	400	1400	6	
SS-500-50-155	.483	.720	.0050	.503 .643	.050 .060	.630	.150	155	.283	470	1700	9.5	
SS-500-50-160	.487	.708	.0050	.502	.340	.620	.150	160	.280	600	1400	9	
SS-500-50-162	.491	.798	.0050	.502	.080	.215	.047	162	.326	250	1420	3	
SS-500-50-176	.487	.754	.0050	.502	.300	.360	.090	176	.302	360	1400	5	
SS-500-50-265	.487	.755	.0050	.502	.090	.210	.050	265	.303	320	1400	3	
SS-500-50-275	.490	.710	.0050	.502 .642	.050	.290	.062	275	.282	670	1700	5	
SS-500-50-288	.487	.710	.0050	.502 .642	.055	.340	.075	260	.281	640	1700	5	
SS-500-50-375	.487	.728	.0050	.502	.340	.170	.050	375	.289	TBD	1400	3	
BC-500-42-14	.491	.800	.0042	.502	.300	1.270	.470	14	.327	140	1250	14	Beryllium Copper
BC-500-40-70	.486	.735	.0042	.502	.050	.375	.115	70	.295	240	1540	6	Beryllium Copper
BC-500-50-25				.502	.190								Beryllium Copper

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1	2	3	4	5	6	7	8	9	10	11	12	13	Notes
Stock Number	Conv. Inside Diameter	Conv. Outside Diameter	Wall	Neck 1 & 2 Outside Diameter	Neck Length	Conv. Free Length	Maximum Deflection Compression	Spring Rate lbs./in.	Eff. Area sq.in.	Squirm Rating PSI	Burst Rating PSI	No. Conv.	
	.487	.795	.0050	.750	.070	1.100	.375	25	.323	90	1300	13	
BC-500-50-170	.494	.710	.0050	.502	.080								Beryllium Copper
				.642	.080	.340	.070	170	.285	450	1040	5	
N200-500-50-360	.490	.755	.0050	.502	.090	.200	.040	360	.304	260	1300	3	Nickel 200 (Grade A)
SS-750-36-22	.741	1.145	.0036	.753	.250	1.285	.420	22	.698	80	820	11	
SS-750-36-24	.739	1.072	.0036	.753	.250	1.515	.490	24	.643	100	840	14	
SS-750-36-70	.735	1.014	.0036	.753	.120	.695	.187	70	.600	1500	900	7	
SS-750-42-24	.740	1.145	.0042	.753	.250	1.510	.455	24	.697	100	900	13	
SS-750-42-27	.735	1.098	.0042	.753	.250	1.670	.500	27	.661	85	850	15	
SS-750-42-31	.734	1.070	.0042	.753	.250	1.515	.450	31	.639	140	960	14	
SS-750-42-32	.740	1.145	.0042	.753	.250	1.250	.380	32	.697	80	900	11	
SS-750-42-50	.740	1.145	.0042	.753	.250	.810	.235	50	.697	170	900	7	
SS-750-42-160	.733	1.011	.0042	.753	.065	.450	.100	165	.596	275	1400	5	
				.933									
SS-750-65-50	.728	1.123	.0065	.753	.300	1.625	.476	50	.672	165	1200	15	
SS-750-65-61	.725	1.100	.0065	.753	.300	1.560	.458	62	.654	170	1200	15	
SS-750-65-71	.728	1.145	.0065	.753	.250	1.210	.350	71	.689	170	1400	11	

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1	2	3	4	5	6	7	8	9	10	11	12	13	Notes
Stock Number	Conv. Inside Diameter	Conv. Outside Diameter	Wall	Neck 1 & 2 Outside Diameter	Neck Length	Conv. Free Length	Maximum Deflection Compression	Spring Rate lbs./in.	Eff. Area sq.in.	Squirm Rating PSI	Burst Rating PSI	No. Conv.	
SS-750-65-90	.724	1.075	.0065	.753	.200	1.400	.385	90	.635	250	1600	14	
SS-750-65-97	.720	1.011	.0065	.753	.250	1.600	.380	115	.589	240	1400	19	
SS-750-65-125	.725	1.135	.0065	.753	.080	.800	.230	125	.679	350	1250	7	
SS-750-65-165	.725	1.070	.0065	.753	.080	.800	.215	165	.632	450	1700	8	
SS-750-65-220	.722	1.013	.0065	.753	.300	.840	.150	220	.590	TBD	1400	10	
SS-750-65-310	.724	1.080	.0065	.753	.200	.400	.103	310	.639	500	1800	4	
SS-750-65-910	.709	.925	.0065	.753	.350 1.750	.400	.055	910	.520	1300	1300	7	
SS-750-120-320	.715	1.150	.0120	.753	.200	1.180	.280	320	.682	750	2650	11	
SS-750-120-410	.717	1.155	.0120	.753	.250	.850	.215	410	.687	800	3000	8	
BC-750-35-11	.739	1.141	.0035	.753	.300	1.750	.655	11	.694	20	500	14	Beryllium Copper
BC-750-35-13	.740	1.098	.0035	.753	.300	1.730	.640	13	.663	30	550	15	Beryllium Copper
BC-750-35-39	.742	1.148	.0035	.753	.300	.585	.206	39	.701	70	550	5	Beryllium Copper
BC-750-35-51	.741	1.110	.0035	.753	.300	.565	.196	51	.672	85	675	5	Beryllium Copper
I718-750-47-36	.737	1.135	.0047	.754	.300	1.400	.420	36	.688	TBD	1450	11	Inconel 718
I718-750-47-60	.737	1.098	.0047	.753	.100	.970	.360	60	.661	300	1520	8	Inconel 718

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1	2	3	4	5	6	7	8	9	10	11	12	13	Notes
Stock Number	Conv. Inside Diameter	Conv. Outside Diameter	Wall	Neck 1 & 2 Outside Diameter	Neck Length	Conv. Free Length	Maximum Deflection Compression	Spring Rate lbs./in.	Eff. Area sq.in.	Squirm Rating PSI	Burst Rating PSI	No. Conv.	
SS-1000-32-17	.985	1.405	.0032	1.006	.300	1.540	.505	17	1.121	35	400	13	
SS-1000-32-22	.987	1.635	.0032	1.006	.300	.570	.240	22	1.350	TBD	450	4	
SS-1000-32-25	.985	1.285	.0032	1.006	.300	1.600	.480	25	1.012	60	450	16	
SS-1000-32-30	.985	1.640	.0032	1.006	.300	.415	.180	30	1.353	TBD	450	3	
SS-1000-32-51	.985	1.285	.0032	1.006	.300	1.080	.335	40	1.012	90	500	11	
SS-1000-32-70	.985	1.290	.0032	1.006	.050	.570	.140	70	1.016	TBD	600	6	
SS-1000-50-20	.985	1.620	.0050	1.006	.300	1.140	.440	20	1.332	50	750	8	
SS-1000-50-38	.985	1.640	.0050	1.006	.300	.550	.225	42	1.353	50	750	4	
SS-1000-50-44	.981	1.405	.0050	1.006	.300	1.500	.490	35	1.118	90	800	13	
SS-1000-100-100	.972	1.645	.0100	1.006	.200	1.050	.370	100	1.344	250	1800	7	
SS-1000-100-112	.972	1.645	.0100	1.003 1.011	.100	.900	.317	112	1.344	250	1600	6	
SS-1000-100-220	.964	1.418	.0100	1.003 1.011	.300	1.610	.370	220	1.114	480	1350	12	
SS-1000-100-330	.964	1.418	.0100	1.003 1.011	.300	1.020	.220	330	1.114	650	1350	8	
BC-1000-40-12	.985	1.410	.0040	1.005	.300	1.550	.600	12	1.126	20	520	13	Beryllium Copper
BC-1000-40-12-													Beryllium Copper

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Stock Number	Conv. Inside Diameter	Conv. Outside Diameter	Wall	Neck 1 & 2 Outside Diameter	Neck Length	Conv. Free Length	Maximum Deflection Compression	Spring Rate lbs./in.	Eff. Area sq.in.	Squirm Rating PSI	Burst Rating PSI	No. Conv.	
1	.985	1.410	.0040	1.005	.300	1.750	.750	12	1.126	TBD	520	13	
BC-1000-40-22	.987	1.370	.0040	1.005	.300	1.110	.420	22	1.090	75	575	9	Beryllium Copper
I718-1000-100-175	.967	1.428	.0100	1.006 1.010	.320	1.595	.450	175	1.126	550	1720	12	Inconel 718