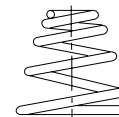


CONICAL COMPRESSION SPRINGS

RESSORTS DE COMPRESSION CONIQUES



Stock sizes in stainless steel

SPEC conical springs are cone shaped compression springs designed to provide a near constant spring rate and a solid height lower than a normal spring. Each spring features a variable pitch to achieve the constant spring rate and coils which nest during deflection to provide a solid height approximately equal to two wire diameters.

All springs are manufactured from stainless steel for use in a multitude of environments.

Material

Stainless steel Type 302 per ASTM A313 or AMS 5688 spring temper. (Chemical and physical only.)

Stainless steel springs are not recommended for applications where the temperature exceeds 500°F (260°C)

Certificate of chemical analysis available at additional charge.

Finish

Standard finish is that of the normal wire.

Direction of Helix

Right hand.

Ends

Squared ends not ground.

Spring Rate

The spring rate is linear due to the variable pitch.

Coils

Springs are designed to permit active coils to nest within each other. This provides a solid height of approximately two wire diameters.

Solid Height

Due to coil nesting, the solid height is approximately equal to two wire diameters.

Dimensions standard en acier inoxydable

Les ressorts coniques SPEC sont des ressorts de compression destinés à offrir une élasticité constante et une hauteur emboîtée plus basse que celles d'une raideur constante. Chaque ressort a un pas variable qui permet d'obtenir le taux d'élasticité constant et des spires qui s'emboîtent pendant la flexion pour donner une hauteur emboîtée à peu près égale à deux diamètres de fil.

Tous les ressorts sont fabriqués en acier inoxydable pour être utilisés dans une multitude d'environnements.

Matériaux

Trempe de ressort type 302 par ASTM A313 ou AMS5688. (Chimique et physique seulement).

L'utilisation de ressorts en acier inoxydable n'est pas préconisée pour des applications où la température dépasse 260°C.

Certificat d'analyse chimique disponible contre supplément.

Finition

La finition standard est celle du fil normal.

Enroulement

A droite.

Extrémités

Equarries et non meulées.

Raideur

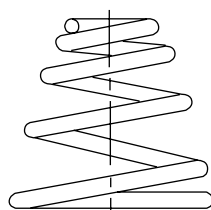
La raideur est linéaire en raison du pas variable.

Spires

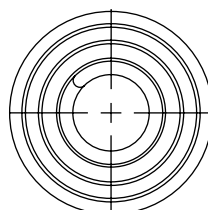
Les ressorts sont conçus pour permettre aux spires actives de s'emboîter les unes dans les autres. Cela donne une hauteur emboîtée d'environ deux diamètres de fil.

Hauteur a spires jointives

En raison de l'emboîtement des spires, la hauteur a spires jointives est à peu près égale à deux diamètres de fil.



SIDE VIEW



TOP VIEW

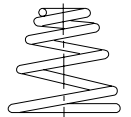
CONICAL COMPRESSION SPRINGS

STAINLESS STEEL

Part No.	O.D. Large End mm	O.D. Small End mm	Wire Diameter mm	Free Length Approx. mm	Load at 50% of Free Length N	Load at Sold Approx. N	Spring Rate N/mm	Price Group	
A360-029-025	9.14	3.18	0.74	6.35	15.35	23.53	4.83	C	
A420-029-037	10.67	3.96	0.74	9.53	11.12	18.82	2.34	C	
A420-029-031		4.75		7.92	10.05	16.37	2.54	C	
A420-029-025		5.54		6.35	9.07	13.97	2.87	C	
A420-032-031		3.96	0.81	7.92	16.15	25.66	4.07	C	
A420-032-025		4.75		6.35	14.19	21.08	4.46	C	
A420-035-025		4.75		6.35	22.64	32.60	7.14	C	
A480-029-062	12.19	4.75	0.74	15.88	9.56	17.35	1.20	C	
A480-029-050		5.54		12.70	8.58	15.12	1.35	C	
A480-029-037		6.35		9.53	7.07	12.01	1.49	C	
A480-029-031		7.14		7.92	6.81	11.08	1.71	C	
A480-032-062		3.96	0.81	15.88	15.21	27.27	1.91	C	
A480-032-050		4.75		12.70	12.81	22.33	2.02	C	
A480-032-037		5.54		9.53	11.39	18.86	2.39	C	
A480-032-031		6.35		7.92	10.54	16.81	2.66	C	
A480-035-037		4.75	0.89	9.53	17.44	28.33	3.66	C	
A480-035-031		5.54		7.92	15.48	23.97	3.90	C	
A480-038-031		4.75		0.97	7.92	22.33	33.80	5.63	C
A480-038-025		5.54			6.35	21.13	29.40	6.66	C
A600-026-125		15.24	7.92	0.66	31.75	4.45	8.54	0.282	C
A600-026-100			8.71		25.40	3.74	7.03	0.292	C
A600-026-075	9.53		19.05		3.25	6.05	0.338	C	
A600-029-125	6.35		0.74		31.75	6.94	13.21	0.44	C
A600-029-100	7.14				25.40	6.18	11.61	0.49	C
A600-029-075	8.71				19.05	5.25	9.74	0.55	C
A600-029-062	9.53			15.88	4.98	9.03	0.63	C	
A600-032-075	7.14		0.81	19.05	8.01	14.68	0.84	C	
A600-032-062	8.71			15.88	7.29	13.12	0.92	C	
A600-032-050	9.53			12.70	6.81	11.88	1.07	C	
A600-035-075	5.54			0.89	19.05	12.10	21.93	1.27	C
A600-035-062	7.14		15.88		10.72	19.04	1.35	C	

CONICAL COMPRESSION SPRINGS

STAINLESS STEEL



Part No.	O.D. Large End mm	O.D. Small End mm	Wire Diameter mm	Free Length Approx. mm	Load at 50% of Free Length N	Load at Sold Approx. N	Spring Rate N/mm	Price Group	
A600-035-050	15.24	7.92	0.89	12.70	9.61	16.55	1.51	C	
A600-038-062		6.35		15.88	15.88	27.89	2.00	C	
A600-038-050		7.14	0.97	12.70	14.32	24.24	2.26	C	
A600-038-037		7.92		9.53	11.65	18.59	2.45	C	
A600-040-062		5.54	1.02	15.88	20.28	35.36	2.55	C	
A600-040-050		6.35		12.70	18.10	30.38	2.85	C	
A600-040-037		7.92	1.07	9.53	15.83	24.95	3.32	C	
A600-042-050		5.54		12.70	22.82	37.94	3.59	C	
A600-042-037		7.14	1.14	9.53	19.35	30.02	4.06	C	
A600-045-037		6.35		9.53	27.09	41.14	5.69	C	
A720-035-125	18.29	8.71	0.89	31.75	9.07	17.17	0.57	D	
A720-035-100		9.53		25.40	8.01	14.86	0.63	D	
A720-035-075		11.13		19.05	7.21	13.08	0.76	D	
A720-038-125		7.14	0.97	31.75	13.30	24.95	0.84	D	
A720-038-100		8.71		25.40	11.74	21.71	0.93	D	
A720-038-075		9.53		19.05	9.74	17.53	1.02	D	
A720-038-062		11.13	1.02	15.88	9.34	16.41	1.18	D	
A720-040-100		7.14		25.40	14.72	27.04	1.16	D	
A720-040-075		8.71		19.05	12.28	21.88	1.29	D	
A720-040-062		9.53	1.07	15.88	10.90	18.99	1.37	D	
A720-040-050		11.13		12.70	10.54	17.70	1.66	D	
A720-042-100		7.14		25.40	18.64	34.12	1.47	D	
A720-042-075		8.71	1.14	19.05	15.30	27.18	1.61	D	
A720-042-062		9.53		15.88	14.46	25.00	1.82	D	
A720-045-075		7.14		19.05	21.48	37.76	2.25	D	
A720-045-062		8.71	1.24	15.88	19.35	33.09	2.44	D	
A720-045-050		9.53		12.70	17.30	28.33	2.72	D	
A720-049-062		7.14		15.88	28.73	48.48	3.62	D	
A720-049-050		8.71	1.40	12.70	25.49	40.97	4.01	D	
A720-049-037		9.53		9.53	21.53	31.80	4.52	D	
A720-055-050		7.14		12.70	45.01	70.19	7.09	D	
A720-055-037		7.92	9.53	37.10	52.40	7.79	D		
A850-042-150		21.59	8.71	1.07	38.10	13.70	25.89	0.72	D
A850-042-125			9.53		31.75	12.01	22.42	0.76	D
A850-042-100			11.13		25.40	10.45	19.17	0.82	D
A850-042-075			14.22	19.05	10.50	18.64	1.10	D	
A850-045-150			8.71	1.14	38.10	18.64	35.05	0.98	D
A850-045-125			9.53		31.75	16.68	30.96	1.05	D
A850-045-100	11.13		25.40		14.59	26.55	1.15	D	
A850-045-075	12.70		19.05	13.34	23.44	1.40	D		
A850-049-125	7.92		1.24	31.75	25.26	46.57	1.59	D	
A850-049-075	11.13			19.05	18.95	32.92	1.99	D	
A850-049-062	12.70			15.88	17.97	30.34	2.26	D	
A850-055-100	7.14		1.40	25.40	37.81	67.34	2.98	D	
A850-055-075	8.71			19.05	31.94	54.49	3.35	D	
A850-055-062	11.13			15.88	29.27	48.22	3.69	D	
A850-059-075	7.92		1.50	19.05	44.48	74.95	4.67	D	
A850-059-062	9.53			15.88	39.41	63.92	4.97	D	
A850-063-062	7.92			1.60	15.88	54.35	86.78	6.84	D
A850-063-050	9.53		12.70		49.33	73.84	7.76	D	
A850-067-050	9.53		1.70		12.70	66.05	96.70	10.41	D
A975-049-150	24.77		11.13	1.24	38.10	17.26	32.29	0.91	D
A975-049-125			12.70		31.75	15.83	29.18	1.00	D
A975-049-100			14.22		25.40	14.63	26.38	1.15	D
A975-049-075			15.88		19.05	13.03	22.64	1.37	D
A975-055-150			9.53	1.40	38.10	30.60	56.76	1.61	D
A975-055-125			11.13		31.75	27.09	49.37	1.71	D
A975-055-100			12.70		25.40	24.02	42.75	1.89	D
A975-055-075			14.22		19.05	21.48	36.65	2.25	D
A975-059-125			8.71	1.50	31.75	37.67	68.23	2.37	D
A975-059-100		11.13	25.40		32.92	58.09	2.59	D	
A975-059-075		12.70	19.05		28.65	48.26	3.01	D	
A975-063-100		8.71	1.60		25.40	44.57	77.88	3.51	D
A975-063-075		11.13		19.05	38.21	63.56	4.01	D	
A975-067-075		9.53		1.70	19.05	50.89	83.53	5.34	D
A975-067-062		11.13			15.88	45.68	71.79	5.75	D
A975-072-075		9.53	1.83	19.05	71.66	115.78	7.53	D	
A975-072-062		11.13		15.88	66.05	101.64	8.32	D	
A975-074-062		11.13		1.88	15.88	74.95	114.36	9.44	D

