

AAA TECHNOLOGY AND SPECIALTIES CO., INC.

HANGER SIZE AND SERIES SELECTION CHART

LOAD TABLE IN KILOGRAMS FOR SPRING HANGER SELECTION

WORKING RANGE MILLIMETERS					ROD DIAMETER																						SPRING DEFLECTION MILLIMETERS							
					1/2"					5/8"				3/4"				1"		1 1/4"		1 1/2"		1 3/4"		2"						2 1/4"		2 1/2"
E110	E100	E98	E268	E82	SPRING HANGER SIZE																						E82	E268	E98	E100	E110			
0	0	0	0	0	000	00	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22					
					3.2	8.6	20	29	37	47.6	64	85.7	114	152	204	272	354	463	612.3	816.5	1089	1470	2041	2722	3620	4817	6395.7	8504.9	11342	0	0	0	0	0
					3.2	9.1	21	30	38	49.4	66.7	89.4	119	159	213	283	369	482	637.8	850.5	1134	1531	2126	2835	3771	5018	6662.4	8859.1	11815					
					3.6	10	22	31	40	51.7	69.4	93	124	165	221	295	383	501	663.6	884.5	1179	1592	2211	2948	3921	5219	6928.6	9213.8	12287					
					4.1	11	23	32	41	53.5	72.1	96.6	129	171	230	306	398	521	689	918.5	1225	1653	2297	3062	4072	5420	7195.3	9568.1	12760					
0	0	0	0	0	4.5	12	24	34	43	55.8	74.8	100	133	178	238	318	413	540	714.4	952.5	1270	1715	2381	3175	4223	5620	7461.6	9922.3	13233	6.4	12.7	25.4	38.1	50.8
					5	13	24	34	44	57.6	77.1	103	138	184	247	329	428	559	739.8	986.6	1315	1776	2467	3289	4374	5821	7728.3	10277	13705					
					5.4	14	25	36	46	59.4	79.8	107	143	191	255	340	442	578	765.7	1021	1361	1837	2551	3402	4525	6021	7994.6	10631	14177					
50.8	38.1	25.4	12.7	6.4	5.4	14	26	37	48	61.7	82.6	111	148	197	264	352	457	598	791.1	1055	1406	1898	2637	3515	4676	6222	8261.3	10986	14650					
					6.4	15	27	38	49	63.5	85.3	114	152	203	272	363	472	617	816.5	1089	1451	1960	2722	3629	4826	6423	8527.5	11340	15123	12.7	25.4	50.8	76.2	101.6
					6.4	16	28	39	50	65.3	88	118	157	210	281	374	487	636	841.9	1123	1497	2021	2807	3742	4977	6624	8794.2	11694	15595					
					6.8	17	29	40	52	67.6	90.7	122	162	216	289	386	501	655	867.7	1157	1542	2082	2892	3856	5128	6824	9060.5	12049	16068					
101.6	76.2	50.8	25.4	12.7	7.3	18	30	42	54	69.4	93.4	125	167	222	298	397	516	675	893.1	1191	1588	2143	2977	3969	5279	7025	9327.2	12403	16541					
					7.7	19	31	43	55	71.7	96.2	129	171	229	306	408	531	694	918.5	1225	1633	2204	3062	4082	5430	7226	9593.5	12757	17013	19.1	38.1	76.2	114.3	152.4
					8.2	20	31	44	57	73.5	98.4	132	176	235	315	420	546	714	943.9	1259	1678	2266	3147	4196	5581	7427	9860.2	13112	17486					
					8.6	20	32	45	58	75.3	101	136	181	241	323	431	560	733	969.8	1293	1724	2327	3232	4309	5731	7627	10126	13466	17958					
152.4	114.3	76.2	38.1	19.1	9.1	21	33	46	60	77.6	104	139	186	248	332	442	575	752	995.2	1327	1769	2388	3317	4423	5882	7828	10393	13821	18431					
					9.5	22	34	48	61	79.4	107	143	191	254	340	454	590	771	1021	1361	1814	2449	3402	4536	6033	8029	10659	14175	18903	25.4	50.8	101.6	152.4	203.2
					9.5	23	35	49	63	81.2	109	147	195	260	349	465	605	791	1046	1395	1860	2511	3487	4649	6184	8230	10926	14529	19376					
203.2	152.4	101.6	50.8	25.4	10	24	36	50	64	83.5	112	150	200	267	357	476	619	810	1072	1429	1905	2572	3572	4763	6334	8430	11192	14884	19849					
					10	25	37	51	66	85.3	115	154	205	273	366	488	634	829	1097	1463	1950	2633	3657	4876	6485	8631	11459	15238	20321					
					11	25	38	53	68	87.5	117	157	210	279	374	499	649	848	1123	1497	1996	2694	3742	4990	6636	8831	11725	15592	20794	31.8	63.5	127.0	190.5	254.0
					11	26	38	54	69	89.4	120	161	215	286	383	510	664	868	1148	1531	2041	2756	3827	5103	6787	9032	11992	15946	21266					
254.0	190.5	127.0	63.5	31.8	12	27	39	55	70	91.2	122	164	219	292	391	522	678	887	1174	1565	2087	2817	3912	5216	6938	9233	12258	16301	21739					
					12	28	40	56	72	93.4	125	168	224	298	400	533	693	906	1199	1599	2132	2878	3998	5330	7089	9434	12525	16655	22212					
					13	29	41	57	73	95.3	128	171	229	305	408	544	708	925	1225	1633	2177	2939	4082	5443	7239	9634	12791	17010	22684	38.1	76.2	152.4	228.6	304.8
					13	30	42	59	75	97.1	131	175	234	311	417	556	723	945	1250	1667	2223	3001	4168	5557	7390	9835	13058	17364	23157					
					13	31	43	59	77	99.3	133	179	238	318	425	567	737	964	1276	1701	2268	3062	4252	5670	7541	10036	13324	17719	23629					
					14	32	44	61	78	101	136	182	243	324	434	578	752	983	1301	1735	2313	3123	4338	5783	7692	10234	13591	18073	24102					
					14	33	44	62	80	103	139	186	248	330	442	590	767	1002	1327	1769	2359	3184	4423	5897	7843	10437	13857	18427	24575	44.5	88.9	177.8	266.7	355.6
					000	00	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22					
					SPRING HANGER SIZE																													
					SPRING RATE - KGS / MM																													
				E82		0.54	0.76	0.97	1.26	1.68	2.26	3.00	4.00	5.36	7.14	9.3	12.1	16.1	21.4	28.6	38.6	53.6	71.4	95.0	126.4	167.9	223.2	297.7	E82					
				E268	0.12	0.27	0.27	0.38	0.48	0.63	0.84	1.13	1.50	2.00	2.68	3.57	4.6	6.1	8.0	10.7	14.3	19.3	26.8	35.7	47.5	63.2	83.9	111.6	148.8		E268			
				E98	0.06	0.14	0.14	0.19	0.24	0.31	0.42	0.56	0.75	1.00	1.34	1.79	2.3	3.0	4.0	5.4	7.1	9.6	13.4	17.9	23.8	31.6	42.0	55.8	74.4			E98		
				E100			0.09	0.13	0.16	0.21	0.28	0.38	0.50	0.67	0.89	1.19	1.5	2.0	2.7	3.6	4.8	6.4	8.9	11.9	15.8	21.1	28.0	37.2	49.6				E100	
E110							0.07	0.09	0.12	0.16	0.21	0.28	0.38	0.50	0.67	0.89	1.2	1.5	2.0	2.7	3.6	4.8	6.7	8.9	11.9	15.8	21.0	27.9	37.2					E110

AAA TECHNOLOGY AND SPECIALTIES CO., INC.

HANGER SIZE AND SERIES SELECTION CHART

LOAD TABLE IN NEWTONS FOR SPRING HANGER SELECTION

WORKING RANGE MILLIMETERS					ROD DIAMETER																						SPRING DEFLECTION MILLIMETERS																										
					1/2"					5/8"					3/4"				1"		1 1/4"		1 1/2"	1 3/4"	2"	2 1/4"						2 1/2"	2 3/4"	3"																			
E110	E100	E98	E268	E82	SPRING HANGER SIZE																						E82	E268	E98	E100	E110																						
0	0	0	0	0	000	00	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	E82	E268	E98	E100	E110																			
					31	85	200	280	360	467	627	841	1121	1495	2002	2669	3470	4537	6005	8007	10676	14412	20017	26689	35497	47240	62720	83404	111228	0	0	0	0	0																			
					31	89	209	294	374	485	654	876	1170	1557	2086	2780	3616	4728	6254	8340	11121	15013	20853	27801	36978	49211	65335	86878	115863																								
					36	98	218	302	391	507	681	912	1214	1619	2171	2891	3759	4915	6508	8674	11565	15613	21685	28913	38455	51177	67947	90357	120498																								
					40	107	227	316	405	525	707	947	1263	1681	2251	3003	3906	5107	6757	9008	12010	16214	22521	30025	39936	53147	70562	93831	125133																								
0	0	0	0	0	44	116	236	329	423	547	734	983	1308	1744	2335	3114	4048	5293	7006	9341	12455	16814	23353	31138	41413	55113	73173	97305	129768	6.4	12.7	25.4	38.1	50.8																			
					49	125	240	338	436	565	756	1014	1357	1806	2420	3225	4195	5485	7255	9675	12900	17415	24189	32250	42894	57084	75789	100779	134399																								
					53	133	249	351	449	583	783	1050	1401	1868	2504	3336	4337	5671	7509	10008	13345	18015	25021	33362	44371	59050	78400	104257	139034																								
50.8	38.1	25.4	12.7	6.4	53	138	258	360	467	605	810	1085	1450	1931	2584	3447	4484	5863	7758	10342	13789	18616	25858	34474	45852	61021	81015	107731	143669																								
					62	151	267	374	480	623	836	1121	1495	1993	2669	3559	4626	6050	8007	10676	14234	19216	26689	35586	47329	62987	83627	111206	148304	12.7	25.4	50.8	76.2	101.6																			
					62	156	276	387	494	641	863	1157	1544	2055	2753	3670	4773	6241	8256	11009	14679	19817	27526	36698	48810	64957	86242	114680	152939																								
					67	169	285	396	512	663	890	1192	1588	2117	2838	3781	4915	6428	8509	11343	15124	20417	28357	37810	50287	66923	88853	118158	157574																								
101.6	76.2	50.8	25.4	12.7	71	178	294	409	525	681	916	1228	1637	2180	2918	3892	5062	6619	8759	11677	15569	21018	28922	51768	68894	91469	121632	162209																									
					76	182	302	423	543	703	943	1263	1681	2242	3003	4003	5204	6806	9008	12010	16014	21618	30025	40034	53245	70860	94080	125106	166844	19.1	38.1	76.2	114.3	152.4																			
					80	191	307	431	556	721	965	1294	1730	2304	3087	4115	5351	6997	9257	12344	16458	22219	30862	41146	54726	72831	96695	128580	171474																								
					85	200	316	445	569	738	992	1330	1775	2366	3172	4226	5494	7184	9510	12677	16903	22819	31694	42258	56203	74797	99307	132059	176110																								
152.4	114.3	76.2	38.1	19.1	89	209	325	454	587	761	1019	1366	1824	2429	3252	4337	5640	7375	9759	13011	17348	23420	32530	43370	57685	76767	101922	135533	180745																								
					93	218	334	467	601	778	1045	1401	1868	2491	3336	4448	5783	7562	10008	13345	17793	24020	33362	44482	59161	78734	104533	139007	185380	25.4	50.8	101.6	152.4	203.2																			
					93	222	343	480	614	796	1072	1437	1917	2553	3421	4559	5929	7753	10258	13678	18238	24621	34198	45594	60643	80704	107149	142481	190015																								
					98	236	351	489	632	818	1099	1472	1962	2616	3505	4671	6072	7940	10511	14012	18683	25221	35030	46706	62119	82670	109760	145959	194650																								
203.2	152.4	101.6	50.8	25.4	102	245	360	503	645	836	1125	1508	2011	2678	3585	4782	6219	8131	10760	14346	19127	25822	35866	47818	63601	84641	112375	149434	199285																								
					107	249	369	516	663	859	1152	1544	2055	2740	3670	4893	6361	8318	11009	14679	19572	26422	36698	48930	65077	86607	114987	152908	203920	31.8	63.5	127.0	190.5	254.0																			
					111	258	374	525	676	876	1174	1575	2104	2802	3754	5004	6508	8509	11258	15013	20017	27023	37534	50042	66559	88577	117602	156382	208550																								
					116	267	383	538	689	894	1201	1610	2148	2865	3839	5115	6650	8696	11512	15346	20462	27623	38366	51155	68036	90544	120213	159860	213185																								
254.0	190.5	127.0	63.5	31.8	120	276	391	547	707	916	1228	1646	2197	2927	3919	5227	6797	8888	11761	15680	20907	28224	39202	52267	69517	92514	122829	163334	217821																								
					125	285	400	560	721	934	1254	1681	2242	2989	4003	5338	6939	9074	12010	16014	21351	28824	40034	53379	70994	94480	125440	166808	222456	38.1	76.2	152.4	228.6	304.8																			
					129	294	409	574	734	952	1281	1717	2291	3051	4088	5449	7086	9266	12259	16347	21796	29425	40870	54491	72475	96451	128055	170282	227091																								
					129	302	418	583	752	974	1308	1753	2335	3114	4172	5560	7228	9452	12513	16681	22241	30025	41702	55603	73952	98417	130667	173761	231726																								
					133	311	427	596	765	992	1334	1788	2384	3176	4252	5671	7375	9644	12762	17014	22686	30626	42538	56715	75433	1E+05	133282	177235	236361																								
					138	320	436	609	783	1014	1361	1824	2429	3238	4337	5783	7517	9831	13011	17348	23131	31227	43370	57827	76910	1E+05	135893	180709	240996	44.5	88.9	177.8	266.7	355.6																			
					000	00	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22																								
					SPRING HANGER SIZE																																																
					SPRING RATE - N / MM																																																
				E82		5.30	7.41	9.51	12.31	16.51	22.12	29.42	39.23	52.54	70.05	91.1	119.1	157.6	210.2	280.2	378.3	525.4	700.5	931.7	1239.9	1646.2	2189.1	2919.4	E82																								
				E268	1.20	2.65	2.65	3.70	4.75	6.15	8.26	11.06	14.71	19.61	26.27	35.03	45.5	59.5	78.8	105.1	140.1	189.1	262.7	350.3	465.8	619.9	823.1	1094.5	1459.7	E268																							
				E98	0.60	1.33	1.33	1.85	2.38	3.08	4.13	5.53	7.36	9.81	13.13	17.51	22.8	29.8	39.4	52.5	70.1	94.6	131.3	175.1	232.9	310.0	411.5	547.3	729.9	E98																							
				E100		0.88	1.23	1.58	2.05	2.75	3.69	4.90	6.54	8.76	11.68	15.2	19.8	26.3	35.0	46.7	63.0	87.6	116.8	155.3	206.6	274.4	364.8	486.6	E100																								
E110						0.66	0.93	1.19	1.54	2.06	2.76	3.68	4.90	6.57	8.76	11.4	14.9	19.7	26.3	35.0	47.3	65.7	87.6	116.5	155.0	205.8	273.6	364.9																									