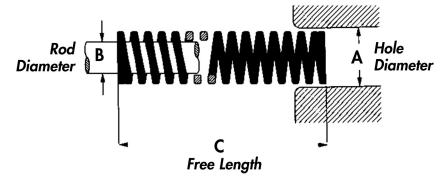




EXTRA HEAVY LOAD

Vacuum degassed,
valve spring quality alloy steel



Sizes: 10 to 25 mm, Rectangular Wire Construction

Colour: Yellow

Hole Dia. mm	Rod Dia. mm	Free Length mm	CATALOGUE NUMBER	RATE Deka- Newtons (daN) Required to Deflect 1 mm	LOAD - DEFLECTION TABLE							
					Total Deflection Recommended for Long Life (17% of C)		Total Deflection Recommended for Average Life (20% of C)		Maximum Operating Deflection (25% of C)		Total Travel to Solid	
					Load daN	Deflection mm	Load daN	Deflection mm	Load daN	Deflection mm	Load daN	Deflection mm
10	5	25	9 - 0604 - 360	3.25	13.8	4.3	16.3	5.0	20.3	6.3	29.3	9
		32	9 - 0605 - 360	2.51	13.7	5.4	16.1	6.4	20.1	8.0	25.1	10
		38	9 - 0606 - 360	2.09	13.5	6.5	15.9	7.6	19.9	9.5	27.2	13
		44	9 - 0607 - 360	1.79	13.4	7.5	15.8	8.8	19.7	11	26.9	15
		51	9 - 0608 - 360	1.50	13.0	8.7	15.3	10	19.1	13	25.5	17
		64	9 - 0610 - 360	1.20	13.1	11	15.4	13	19.2	16	25.2	21
		76	9 - 0612 - 360	1.00	12.9	13	15.2	15	19.0	19	26.0	26
12.5	6.3	305	9 - 0648 - 360	0.24	12.4	52	14.6	61	18.3	76	25.4	106
		25	9 - 0804 - 360	5.84	24.8	4.3	29.2	5.0	36.5	6.3	52.6	9
		32	9 - 0805 - 360	4.44	24.2	5.4	28.4	6.4	35.5	8.0	48.8	11
		38	9 - 0806 - 360	3.60	23.3	6.5	27.4	7.6	34.2	9.5	46.8	13
		44	9 - 0807 - 360	3.09	23.1	7.5	27.2	8.8	34.0	11	46.4	15
		51	9 - 0808 - 360	2.70	23.4	8.7	27.5	10	34.4	13	48.6	18
		64	9 - 0810 - 360	2.16	23.5	11	27.6	13	34.6	16	47.5	22
16	8	76	9 - 0812 - 360	1.78	23.0	13	27.1	15	33.8	19	48.1	27
		89	9 - 0814 - 360	1.52	23.0	15	27.1	18	33.8	22	50.2	33
		305	9 - 0848 - 360	0.43	22.3	52	26.2	61	32.8	76	48.2	112
		25	9 - 1004 - 360	12.6	53.3	4.3	62.8	5.0	78.4	6.3	113	9
		32	9 - 1005 - 360	9.28	50.5	5.4	59.4	6.4	74.2	8.0	102	11
		38	9 - 1006 - 360	7.49	48.4	6.5	56.9	7.6	71.2	9.5	97.4	13
		44	9 - 1007 - 360	6.30	47.1	7.5	55.4	8.8	69.3	11	94.5	15
20	10	51	9 - 1008 - 360	5.51	47.8	8.7	56.2	10	70.3	13	99.2	18
		64	9 - 1010 - 360	4.29	46.7	11	54.9	13	68.6	16	94.4	22
		76	9 - 1012 - 360	3.53	45.6	13	53.7	15	67.1	19	91.8	27
		89	9 - 1014 - 360	2.98	45.1	15	53.0	18	66.3	22	92.4	31
		102	9 - 1016 - 360	2.61	45.3	17	53.2	20	66.6	26	94.0	36
		305	9 - 1048 - 360	0.85	44.3	52	52.1	61	65.2	76	94.0	110
		25	9 - 1204 - 360	29.3	125	4.3	147	5.0	183	6.3	234	8
25	12.5	32	9 - 1205 - 360	22.4	122	5.4	143	6.4	179	8.0	224	10
		38	9 - 1206 - 360	17.7	114	6.5	135	7.6	168	9.5	212	12
		44	9 - 1207 - 360	14.9	111	7.5	131	8.8	164	11	209	14
		51	9 - 1208 - 360	12.8	111	8.7	131	10	163	13	205	16
		64	9 - 1210 - 360	9.90	108	11	127	13	158	16	208	21
		76	9 - 1212 - 360	8.17	106	13	124	15	155	19	204	25
		89	9 - 1214 - 360	6.95	105	15	124	18	155	22	209	30
25	12.5	102	9 - 1216 - 360	6.06	105	17	124	20	155	26	206	34
		115	9 - 1218 - 360	5.30	104	20	122	23	152	29	201	38
		127	9 - 1220 - 360	4.76	103	22	121	25	151	32	205	43
		140	9 - 1222 - 360	4.30	102	24	120	28	151	35	202	47
		152	9 - 1224 - 360	3.90	101	26	119	30	148	38	199	51
		305	9 - 1248 - 360	2.12	110	52	129	61	162	76	223	105
		32	9 - 1605 - 360	35.4	193	5.4	227	6.4	283	8.0	354	10
25	12.5	38	9 - 1606 - 360	28.0	181	6.5	213	7.6	266	9.5	336	12
		44	9 - 1607 - 360	23.2	173	7.5	204	8.8	255	11	325	14
		51	9 - 1608 - 360	19.8	171	8.7	202	10	252	13	316	16
		64	9 - 1610 - 360	15.4	167	11	197	13	246	16	323	21
		76	9 - 1612 - 360	12.5	162	13	190	15	238	19	313	25
		89	9 - 1614 - 360	10.6	160	15	188	18	235	22	306	29
		102	9 - 1616 - 360	9.12	158	17	186	20	233	26	310	34
25	12.5	115	9 - 1618 - 360	8.11	159	20	187	23	233	29	316	39
		127	9 - 1620 - 360	7.21	156	22	183	25	229	32	310	43
		140	9 - 1622 - 360	6.55	156	24	183	28	229	35	314	48
		152	9 - 1624 - 360	6.01	155	26	183	30	228	38	319	53
		178	9 - 1628 - 360	5.13	155	30	183	36	228	45	318	62
		203	9 - 1632 - 360	4.47	154	35	181	41	227	51	313	70
		305	9 - 1648 - 360	2.96	153	52	181	61	226	76	320	108

1 daN = 1.02kg 1 mm = .0394 in.

Hole Dia. mm	Rod Dia. mm	Free Length mm	CATALOGUE NUMBER	RATE Deka- Newtons (daN) Required to Deflect 1 mm	LOAD - DEFLECTION TABLE							
					Total Deflection Recommended for Long Life (17% of C)		Total Deflection Recommended for Average Life (20% of C)		Maximum Operating Deflection (25% of C)		Total Travel to Solid	
					Load daN	Deflection mm	Load daN	Deflection mm	Load daN	Deflection mm	Load daN	Deflection mm
32	16	38	9 - 2006 - 360	48.9	316	6.5	372	7.6	464	9.5	538	11
		44	9 - 2007 - 360	40.5	303	7.5	356	8.8	445	11	526	13
		51	9 - 2008 - 360	34.6	300	8.7	352	10	441	13	518	15
		64	9 - 2010 - 360	26.7	291	11	342	13	427	16	534	20
		76	9 - 2012 - 360	21.6	279	13	328	15	410	19	518	24
		89	9 - 2014 - 360	18.2	276	15	325	18	406	22	529	29
		102	9 - 2016 - 360	15.6	271	17	319	20	398	26	515	33
		115	9 - 2018 - 360	13.6	267	20	314	23	392	29	491	36
		127	9 - 2020 - 360	12.2	264	22	310	25	388	32	501	41
		140	9 - 2022 - 360	11.2	266	24	313	28	391	35	525	47
		152	9 - 2024 - 360	10.1	262	26	308	30	385	38	507	50
		178	9 - 2028 - 360	8.58	260	30	305	36	382	45	506	59
		203	9 - 2032 - 360	7.50	259	35	305	41	381	51	510	68
		254	9 - 2040 - 360	5.98	258	43	304	51	380	64	508	85
		305	9 - 2048 - 360	4.96	257	52	303	61	378	76	511	103
40	20	51	9 - 2408 - 360	56.0	485	8.7	571	10	714	13	840	15
		64	9 - 2410 - 360	42.2	459	11	540	13	674	16	801	19
		76	9 - 2412 - 360	33.8	437	13	514	15	643	19	812	24
		89	9 - 2414 - 360	28.2	427	15	503	18	628	22	790	28
		102	9 - 2416 - 360	24.4	424	17	499	20	623	26	807	33
		115	9 - 2418 - 360	21.4	418	20	491	23	614	29	791	37
		127	9 - 2420 - 360	19.0	410	22	483	25	603	32	779	41
		140	9 - 2422 - 360	17.1	407	24	479	28	599	35	787	46
		152	9 - 2424 - 360	15.6	402	26	473	30	591	38	778	50
		178	9 - 2428 - 360	13.2	398	30	468	36	585	45	763	58
		203	9 - 2432 - 360	11.4	393	35	462	41	578	51	763	67
		254	9 - 2440 - 360	9.06	391	43	460	51	575	64	770	85
		305	9 - 2448 - 360	7.52	390	52	459	61	573	76	767	102
50	25	64	9 - 3210 - 360	72.4	788	11	927	13	1158	16	1375	19
		76	9 - 3212 - 360	57.3	740	13	871	15	1088	19	1317	23
		89	9 - 3214 - 360	47.4	717	15	844	18	1055	22	1280	27
		102	9 - 3216 - 360	40.4	701	17	825	20	1031	26	1254	31
		115	9 - 3218 - 360	35.3	689	20	811	23	1014	29	1234	35
		127	9 - 3220 - 360	31.3	675	22	794	25	992	32	1219	39
		140	9 - 3222 - 360	28.1	669	24	787	28	984	35	1237	44
		152	9 - 3224 - 360	23.9	618	26	727	30	908	38	1123	47
		178	9 - 3228 - 360	21.5	650	30	765	36	956	45	1203	56
		203	9 - 3232 - 360	18.6	641	35	754	41	943	51	1189	64
		254	9 - 3240 - 360	14.6	631	43	743	51	929	64	1170	80
		305	9 - 3248 - 360	12.1	626	52	736	61	920	76	1170	97

1 daN = 1.02kg 1 mm = .0394 in.

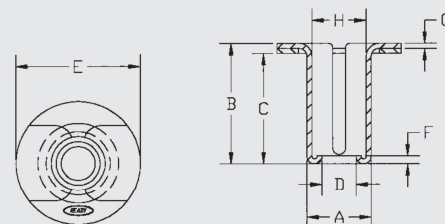
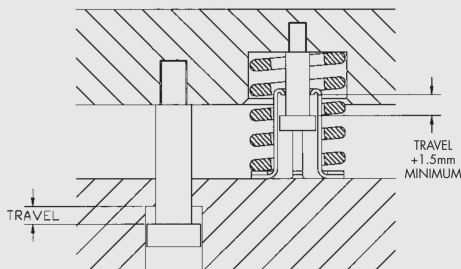


Spring Retainers

- all steel construction, zinc-plated finish
- compatible with 20 and 25 mm diameter spring rods
- use with any length that allows clearance

DANLY Spring Retainers locate and provide a light pre-load to each spring. This allows for easy assembly and disassembly of strippers in a die even while in the press. Broken springs can easily be replaced without long downtime.

Shoulder bolts or spools must be used in conjunction with the DANLY Spring Retainer.



DIMENSIONS IN mm								
CATALOGUE NUMBER	A	B	C	D	E	F	G	H
9-0615-16	20	48	45	10	37	4	1.3	15.8
9-0815-16	25	48	44	13.5	49	3	2	21.5
9-0823-16	25	73	70	13.5	49	3	2	21.5