

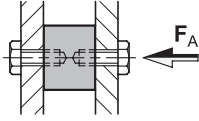
Resilience Characteristics

Vibration Isolation Mounts GN 351 / GN 451

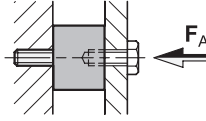
GN 351 / GN 451

Resilience characteristics for 40 Shore under axial and static load

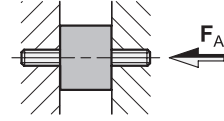
Type EE



Type ES



Type SS



Dimensions in: millimeters / inches

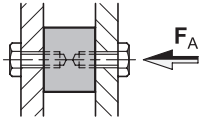
d ₁	h	Type EE			Type ES			Type SS		
		Spring rate ≈	Max. load F _A	Max. travel	Spring rate ≈	Max. load F _A	Max. travel	Spring rate ≈	Max. load F _A	Max. travel
6 0.24	7 0.28	-	-	-	24.5 N/mm 139 lbf/in	43 N 9 lbf	1.75 0.07	21.75 N/mm 124 lbf/in	38 N 9 lbf	1.75 0.07
8 0.31	8 0.31	25 N/mm 143 lbf/in	50 N 11 lbf	2	25 N/mm 143 lbf/in	50 N 11 lbf	2 0.08	25 N/mm 143 lbf/in	50 N 11 lbf	2 0.08
8 0.31	13 0.51	13 N/mm 74 lbf/in	43 N 10 lbf	3.25 0.13	12 N/mm 69 lbf/in	38 N 9 lbf	3.25 0.13	10 N/mm 57 lbf/in	32 N 7 lbf	3.25 0.13
10 0.39	10 0.39	28 N/mm 160 lbf/in	56 N 12 lbf	2 0.08	30 N/mm 171 lbf/in	75 N 17 lbf	2.5 0.10	30 N/mm 171 lbf/in	75 N 17 lbf	2.5 0.10
10 0.39	15 0.59	17 N/mm 97 lbf/in	65 N 15 lbf	3.75 0.15	17 N/mm 97 lbf/in	65 N 15 lbf	3.75 0.15	17 N/mm 97 lbf/in	65 N 15 lbf	3.75 0.15
10 0.39	20 0.79	15 N/mm 86 lbf/in	73 N 16 lbf	5 0.20	12 N/mm 69 lbf/in	59 N 13 lbf	5 0.20	11 N/mm 63 lbf/in	57 N 13 lbf	5 0.20
15 0.59	8 0.31	-	-	-	-	-	-	251 N/mm 1433 lbf/in	502 N 112 lbf	2 0.08
15 0.59	10 0.39	83 N/mm 474 lbf/in	195 N 44 lbf	2 0.08	84 N/mm 480 lbf/in	210 N 47 lbf	2.5 0.10	84 N/mm 480 lbf/in	210 N 47 lbf	2.5 0.10
15 0.59	15 0.59	41 N/mm 234 lbf/in	155 N 35 lbf	3.75 0.15	41 N/mm 234 lbf/in	155 N 35 lbf	3.75 0.15	41 N/mm 234 lbf/in	155 N 35 lbf	3.75 0.15
15 0.59	20 0.79	30 N/mm 171 lbf/in	150 N 34 lbf	5 0.20	30 N/mm 171 lbf/in	150 N 34 lbf	5 0.20	30 N/mm 171 lbf/in	150 N 34 lbf	5 0.20
15 0.59	25 0.98	-	-	-	21 N/mm 120 lbf/in	130 N 29 lbf	6.25 0.25	20 N/mm 114 lbf/in	125 N 28 lbf	6.25 0.25
15 0.59	30 1.18	-	-	-	19.5 N/mm 111 lbf/in	147 N 33 lbf	7.5 0.30	-	-	-
16 0.63	15 0.59	120 N/mm 685 lbf/in	420 N 94 lbf	3.75 0.15	-	-	-	-	-	-
16 0.63	20 0.79	38 N/mm 217 lbf/in	190 N 42 lbf	5 0.20	-	-	-	-	-	-
20 0.79	8.5 0.33	-	-	-	-	-	-	799 N/mm 4562 lbf/in	1798 N 404 lbf	2.25 0.09
20 0.79	15 0.59	120 N/mm 685 lbf/in	175 N 39 lbf	1.5 0.06	86 N/mm 491 lbf/in	320 N 72 lbf	3.75 0.15	86 N/mm 491 lbf/in	320 N 72 lbf	3.75 0.15
20 0.79	20 0.79	44 N/mm 251 lbf/in	220 N 50 lbf	5 0.20	44 N/mm 251 lbf/in	220 N 50 lbf	5 0.20	44 N/mm 251 lbf/in	220 N 50 lbf	5 0.20
20 0.79	25 0.98	42 N/mm 240 lbf/in	265 N 60 lbf	6.25 0.25	42 N/mm 240 lbf/in	265 N 60 lbf	6.25 0.25	42 N/mm 240 lbf/in	265 N 60 lbf	6.25 0.25
20 0.79	30 1.18	-	-	-	38 N/mm 217 lbf/in	285 N 64 lbf	7.5 0.30	38 N/mm 217 lbf/in	285 N 64 lbf	7.5 0.30
25 0.98	10 0.39	-	-	-	-	-	-	1136 N/mm 6486 lbf/in	2840 N 638 lbf	2.5 0.10
25 0.98	15 0.59	-	-	-	230 N/mm 1313 lbf/in	860 N 193 lbf	3.75 0.15	230 N/mm 1313 lbf/in	860 N 193 lbf	3.75 0.15
25 0.98	20 0.79	78 N/mm 445 lbf/in	390 N 88 lbf	5 0.20	78 N/mm 445 lbf/in	390 N 88 lbf	5 0.20	78 N/mm 445 lbf/in	390 N 88 lbf	5 0.20
25 0.98	25 0.98	71 N/mm 405 lbf/in	440 N 99 lbf	6.25 0.25	-	-	-	51 N/mm 291 lbf/in	320 N 72 lbf	6.25 0.25
25 0.98	30 1.18	58 N/mm 331 lbf/in	430 N 97 lbf	7.5 0.30	58 N/mm 331 lbf/in	430 N 97 lbf	7.5 0.30	58 N/mm 331 lbf/in	430 N 97 lbf	7.5 0.30
30 1.18	15 0.59	-	-	-	263 N/mm 1501 lbf/in	985 N 221 lbf	3.75 0.15	263 N/mm 1501 lbf/in	985 N 221 lbf	3.75 0.15
30 1.18	20 0.79	1100 N/mm 6282 lbf/in	770 N 173 lbf	0.7 0.03	155 N/mm 885 lbf/in	770 N 173 lbf	5 0.20	155 N/mm 885 lbf/in	770 N 173 lbf	5 0.20
30 1.18	25 0.98	1650 N/mm 9421 lbf/in	3300 N 741 lbf	2 0.08	121 N/mm 690 lbf/in	758 N 170 lbf	6.25 0.25	109.5 N/mm 625 lbf/in	684 N 153 lbf	6.25 0.25



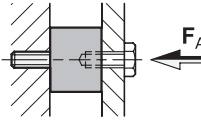
GN 351 / GN 451

Resilience characteristics for 40 Shore under axial and static load

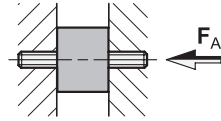
Type EE



Type ES



Type SS

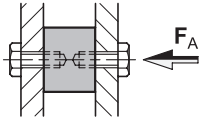


d_1	h	Spring rate ≈	Max. load F_A	Max. travel	Spring rate ≈	Max. load F_A	Max. travel	Spring rate ≈	Max. load F_A	Max. travel
30 1.18	30 1.18	67 N/mm 383 lbf/in	500 N 112 lbf	7.5 0.30	65 N/mm 371 lbf/in	500 N 112 lbf	7.5 0.30	65 N/mm 371 lbf/in	500 N 112 lbf	7.5 0.30
30 1.18	40 1.57	63 N/mm 360 lbf/in	630 N 142 lbf	10 0.39	63 N/mm 360 lbf/in	630 N 142 lbf	10 0.39	63 N/mm 360 lbf/in	630 N 142 lbf	10 0.39
40 1.57	20 0.79	1040 N/mm 5939 lbf/in	2400 N 540 lbf	2.25 0.09	360 N/mm 2056 lbf/in	1800 N 405 lbf	5 0.20	360 N/mm 2056 lbf/in	1800 N 405 lbf	5 0.20
40 1.57	25 0.98	-	-	-	-	-	-	219 N/mm 1250 lbf/in	1367 N 307 lbf	6.25 0.25
40 1.57	28 1.10	-	-	-	251.5 N/mm 1436 lbf/in	1761 N 395 lbf	7 0.28	-	-	-
40 1.57	30 1.18	150 N/mm 857 lbf/in	1140 N 256 lbf	7.5 0.30	150 N/mm 857 lbf/in	1140 N 256 lbf	7.5 0.30	150 N/mm 857 lbf/in	1140 N 256 lbf	7.5 0.30
40 1.57	35 1.38	-	-	-	155.5 N/mm 887 lbf/in	1362 N 306 lbf	8.75 0.34	-	-	-
40 1.57	40 1.57	105 N/mm 600 lbf/in	1050 N 236 lbf	10 0.39	105 N/mm 600 lbf/in	1060 N 238 lbf	10 0.39	105 N/mm 600 lbf/in	1060 N 238 lbf	10 0.39
40 1.57	45 1.77	-	-	-	-	-	-	97.25 N/mm 555 lbf/in	1094 N 245 lbf	11.25 0.44
50 1.97	20 0.79	-	-	-	606 N/mm 3460 lbf/in	3030 N 681 lbf	5 0.20	606 N/mm 3460 lbf/in	3030 N 681 lbf	5 0.20
50 1.97	25 0.98	-	-	-	550.5 N/mm 3143 lbf/in	3440 N 773 lbf	6.25 0.25	521.5 N/mm 2977 lbf/in	3260 N 732 lbf	6.25 0.25
50 1.97	30 1.18	270 N/mm 1542 lbf/in	2010 N 452 lbf	7.5 0.30	270 N/mm 1542 lbf/in	2010 N 452 lbf	7.5 0.30	270 N/mm 1542 lbf/in	2010 N 452 lbf	7.5 0.30
50 1.97	35 1.38	302 N/mm 1724 lbf/in	2640 N 593 lbf	8.75 0.34	230 N/mm 1313 lbf/in	2013 N 452 lbf	8.75 0.34	225 N/mm 1284 lbf/in	1972 N 443 lbf	8.75 0.34
50 1.97	40 1.57	148 N/mm 845 lbf/in	1480 N 333 lbf	10 0.39	148 N/mm 845 lbf/in	1480 N 333 lbf	10 0.39	148 N/mm 845 lbf/in	1480 N 333 lbf	10 0.39
50 1.97	45 1.77	-	-	-	144 N/mm 822 lbf/in	1624 N 365 lbf	11.25 0.44	153 N/mm 873 lbf/in	1720 N 386 lbf	11.25 0.44
50 1.97	50 1.97	120 N/mm 685 lbf/in	1500 N 337 lbf	12.5 0.49	120 N/mm 685 lbf/in	1500 N 337 lbf	12.5 0.49	120 N/mm 685 lbf/in	1500 N 337 lbf	12.5 0.49
60 2.36	30 1.18	403 N/mm 2301 lbf/in	3020 N 679 lbf	7.5 0.30	403 N/mm 2301 lbf/in	3020 N 679 lbf	7.5 0.30	403 N/mm 2301 lbf/in	3020 N 679 lbf	7.5 0.30
60 2.36	35 1.38	-	-	-	356.5 N/mm 2036 lbf/in	3120 N 701 lbf	8.75 0.34	-	-	-
60 2.36	40 1.57	252 N/mm 1438 lbf/in	2520 N 567 lbf	10 0.39	252 N/mm 1438 lbf/in	2520 N 567 lbf	10 0.39	252 N/mm 1438 lbf/in	2520 N 567 lbf	10 0.39
60 2.36	50 1.97	200 N/mm 1142 lbf/in	2740 N 616 lbf	13.75 0.54	210 N/mm 1199 lbf/in	2890 N 650 lbf	13.75 0.54	190 N/mm 1084 lbf/in	2620 N 589 lbf	13.75 0.54
70 2.76	30 1.18	3200 N/mm 18272 lbf/in	11200 N 2518 lbf	3.5 0.14	860 N/mm 4911 lbf/in	6020 N 1353 lbf	7 0.28	340 N/mm 1942 lbf/in	6000 N 1349 lbf	7 0.28
70 2.76	35 1.38	521 N/mm 2975 lbf/in	4560 N 1025 lbf	8.75 0.34	-	-	-	625 N/mm 3568 lbf/in	5470 N 1229 lbf	8.75 0.34
70 2.76	45 1.77	340 N/mm 1942 lbf/in	3810 N 857 lbf	11.25 0.44	340 N/mm 1942 lbf/in	3810 N 857 lbf	11.25 0.44	340 N/mm 1942 lbf/in	3810 N 857 lbf	11.25 0.44
70 2.76	50 1.97	302 N/mm 1724 lbf/in	3780 N 849 lbf	12.5 0.49	305.5 N/mm 1744 lbf/in	3820 N 858 lbf	12.5 0.49	-	-	-
70 2.76	70 2.76	-	-	-	192.5 N/mm 1099 lbf/in	3370 N 757 lbf	17.5 0.69	-	-	-
75 2.95	25 0.98	-	-	-	1760 N/mm 10049 lbf/in	11000 N 2473 lbf	6.25 0.25	1760 N/mm 10049 lbf/in	11000 N 2473 lbf	6.25 0.25
75 2.95	30 1.18	2940 N/mm 16789 lbf/in	9700 N 2181 lbf	3.25 0.13	-	-	-	-	-	-

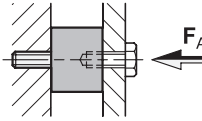
GN 351 / GN 451

Resilience characteristics for 40 Shore under axial and static load

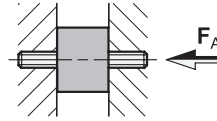
Type EE



Type ES



Type SS

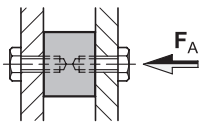


d_1	h	Spring rate ≈	Max. load F_A	Max. travel	Spring rate ≈	Max. load F_A	Max. travel	Spring rate ≈	Max. load F_A	Max. travel
75 2.95	40 1.57	491 N/mm 2798 lbf/in	4910 N 1104 lbf	10 0.39	63 N/mm 360 lbf/in	4910 N 1104 lbf	10 0.39	63 N/mm 360 lbf/in	4910 N 1104 lbf	10 0.39
75 2.95	45 1.77	-	-	-	360 N/mm 2056 lbf/in	4830 N 1085 lbf	11.25 0.44	360 N/mm 2056 lbf/in	-	-
75 2.95	50 1.97	405.5 N/mm 2315 lbf/in	5070 N 1139 lbf	12.5 0.49	337 N/mm 1924 lbf/in	4210 N 946 lbf	12.5 0.49	383 N/mm 2186 lbf/in	4790 N 1076 lbf	12.5 0.49
75 2.95	55 2.17	250 N/mm 1428 lbf/in	3470 N 780 lbf	13.75 0.54	250 N/mm 1428 lbf/in	3470 N 780 lbf	13.75 0.54	250 N/mm 1428 lbf/in	3470 N 780 lbf	13.75 0.54
100 3.94	40 1.57	1310 N/mm 7481 lbf/in	10500 N 2360 lbf	8 0.31	1399 N/mm 7988 lbf/in	13990 N 3145 lbf	10 0.39	1399 N/mm 7988 lbf/in	13990 N 3145 lbf	10 0.39
100 3.94	55 2.17	530 N/mm 3027 lbf/in	7320 N 1646 lbf	13.75 0.54	530 N/mm 3027 lbf/in	7320 N 1646 lbf	13.75 0.54	530 N/mm 3027 lbf/in	7320 N 1646 lbf	13.75 0.54
100 3.94	60 2.36	590.5 N/mm 3371 lbf/in	8860 N 1991 lbf	15 0.59	684 N/mm 3905 lbf/in	10260 N 2306 lbf	15 0.59	550 N/mm 3140 lbf/in	8250 N 1854 lbf	15 0.59
100 3.94	75 2.95	415 N/mm 2370 lbf/in	7790 N 1751 lbf	18.75 0.74	415 N/mm 2370 lbf/in	7790 N 1751 lbf	18.75 0.74	415 N/mm 2370 lbf/in	7790 N 1751 lbf	18.75 0.74
125 4.92	55 2.17	1320 N/mm 7538 lbf/in	18200 N 4092 lbf	13.75 0.54	1273 N/mm 7269 lbf/in	17500 N 3934 lbf	13.75 0.54	1250 N/mm 7138 lbf/in	17250 N 3878 lbf	13.75 0.54
125 4.92	75 2.95	710 N/mm 4054 lbf/in	13300 N 2990 lbf	18.75 0.74	677 N/mm 3865 lbf/in	12700 N 2855 lbf	18.75 0.74	650 N/mm 3712 lbf/in	12200 N 2743 lbf	18.75 0.74

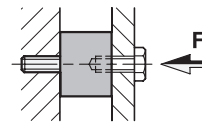
GN 351 / GN 451

Resilience characteristics for 55 Shore under axial and static load

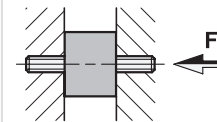
Type EE



Type ES



Type SS



d_1	h	Spring rate ≈	Max. load F_A	Max. travel	Spring rate ≈	Max. load F_A	Max. travel	Spring rate ≈	Max. load F_A	Max. travel
6 0.24	7 0.28	-	-	-	43 N/mm 234 lbf/in	72 N 16 lbf	1.75 0.07	26 N/mm 148 lbf/in	45 N 10 lbf	1.75 0.07
8 0.31	8 0.31	43 N/mm 246 lbf/in	85 N 19 lbf	2 0.08	43 N/mm 246 lbf/in	85 N 19 lbf	2 0.08	43 N/mm 246 lbf/in	85 N 19 lbf	2 0.08
8 0.31	13 0.51	23 N/mm 131 lbf/in	75 N 17 lbf	3.25 0.13	21 N/mm 120 lbf/in	69 N 16 lbf	3.25 0.13	19 N/mm 108 lbf/in	63 N 14 lbf	3.25 0.13
10 0.39	10 0.39	35 N/mm 200 lbf/in	70 N 16 lbf	2 0.08	40 N/mm 228 lbf/in	100 N 23 lbf	2.5 0.10	40 N/mm 228 lbf/in	100 N 23 lbf	2.5 0.10
10 0.39	15 0.59	27 N/mm 154 lbf/in	100 N 23 lbf	3.75 0.15	27 N/mm 154 lbf/in	100 N 23 lbf	3.75 0.15	27 N/mm 154 lbf/in	100 N 23 lbf	3.75 0.15
10 0.39	20 0.79	22 N/mm 126 lbf/in	110 N 25 lbf	5 0.20	20 N/mm 114 lbf/in	99 N 22 lbf	5 0.20	18 N/mm 103 lbf/in	93 N 21 lbf	5 0.20
15 0.59	8 0.31	-	-	-	-	-	-	368 N/mm 2101 lbf/in	735 N 165 lbf	2 0.08
15 0.59	10 0.39	155 N/mm 885 lbf/in	315 N 71 lbf	2 0.08	130 N/mm 742 lbf/in	325 N 73 lbf	2.5 0.10	130 N/mm 742 lbf/in	325 N 73 lbf	2.5 0.10
15 0.59	15 0.59	75 N/mm 428 lbf/in	280 N 63 lbf	3.75 0.15	75 N/mm 428 lbf/in	280 N 63 lbf	3.75 0.15	75 N/mm 428 lbf/in	280 N 63 lbf	3.75 0.15
15 0.59	20 0.79	47 N/mm 268 lbf/in	235 N 53 lbf	5 0.20	47 N/mm 268 lbf/in	235 N 53 lbf	5 0.20	47 N/mm 268 lbf/in	235 N 53 lbf	5 0.20



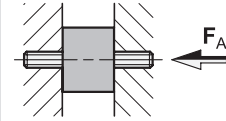
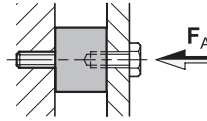
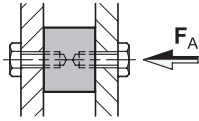
GN 351 / GN 451

Type EE

Type ES

Type SS

Resilience characteristics for 55 Shore under axial and static load

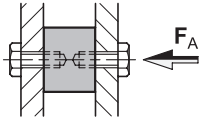


d_1	h	Spring rate ≈	Max. load F_A	Max. travel	Spring rate ≈	Max. load F_A	Max. travel	Spring rate ≈	Max. load F_A	Max. travel
15 0.59	25 0.98	-	-	-	37 N/mm 211 lbf/in	235 N 53 lbf	6.25 0.25	37 N/mm 211 lbf/in	235 N 53 lbf	6.25 0.25
15 0.59	30 1.18	-	-	-	29 N/mm 165 lbf/in	216 N 48 lbf	7.5 0.30	-	-	-
16 0.63	15 0.59	136 N/mm 776 lbf/in	511 N 114 lbf	3.75 0.15	-	-	-	-	-	-
16 0.63	20 0.79	70 N/mm 400 lbf/in	348 N 78 lbf	5 0.20	-	-	-	-	-	-
20 0.79	8.5 0.33	-	-	-	-	-	-	1179 N/mm 6732 lbf/in	3780 N 849 lbf	2 0.08
20 0.79	15 0.59	150 N/mm 857 lbf/in	230 N 52 lbf	1.5 0.06	130 N/mm 742 lbf/in	480 N 108 lbf	3.75 0.15	130 N/mm 742 lbf/in	480 N 108 lbf	3.75 0.15
20 0.79	20 0.79	86 N/mm 491 lbf/in	430 N 97 lbf	5 0.20	86 N/mm 491 lbf/in	430 N 97 lbf	5 0.20	86 N/mm 491 lbf/in	430 N 97 lbf	5 0.20
20 0.79	25 0.98	69 N/mm 394 lbf/in	435 N 98 lbf	6.25 0.25	69 N/mm 394 lbf/in	435 N 98 lbf	6.25 0.25	69 N/mm 394 lbf/in	435 N 98 lbf	6.25 0.25
20 0.79	30 1.18	-	-	-	56 N/mm 320 lbf/in	420 N 94 lbf	7.5 0.30	56 N/mm 320 lbf/in	415 N 93 lbf	7.5 0.30
25 0.98	10 0.39	-	-	-	-	-	-	2592 N/mm 14800 lbf/in	6481 N 1456 lbf	2.5 0.10
25 0.98	15 0.59	-	-	-	285 N/mm 1627 lbf/in	1070 N 241 lbf	3.75 0.15	285 N/mm 1627 lbf/in	1070 N 241 lbf	3.75 0.15
25 0.98	20 0.79	124 N/mm 708 lbf/in	620 N 139 lbf	5 0.20	124 N/mm 708 lbf/in	620 N 139 lbf	5 0.20	124 N/mm 708 lbf/in	620 N 139 lbf	5 0.20
25 0.98	25 0.98	85 N/mm 485 lbf/in	530 N 119 lbf	6.25 0.25	-	-	-	107 N/mm 610 lbf/in	670 N 150 lbf	6.25 0.25
25 0.98	30 1.18	70 N/mm 400 lbf/in	525 N 118 lbf	7.5 0.30	70 N/mm 400 lbf/in	525 N 118 lbf	7.5 0.30	70 N/mm 400 lbf/in	525 N 118 lbf	7.5 0.30
30 1.18	15 0.59	-	-	-	555 N/mm 3169 lbf/in	2080 N 468 lbf	3.75 0.15	555 N/mm 3169 lbf/in	2080 N 468 lbf	3.75 0.15
30 1.18	20 0.79	1520 N/mm 8680 lbf/in	1060 N 238 lbf	0.7 0.03	215 N/mm 1228 lbf/in	1070 N 241 lbf	5 0.20	198 N/mm 1130 lbf/in	990 N 222 lbf	5 0.20
30 1.18	25 0.98	203 N/mm 1159 lbf/in	1268 N 285 lbf	6.25 0.25	204 N/mm 1164 lbf/in	1278 N 287 lbf	6.25 0.25	183 N/mm 1044 lbf/in	1141 N 256 lbf	6.25 0.25
30 1.18	30 1.18	140 N/mm 799 lbf/in	1055 N 237 lbf	7.5 0.30	140 N/mm 799 lbf/in	1055 N 237 lbf	7.5 0.30	140 N/mm 799 lbf/in	1050 N 236 lbf	7.5 0.30
30 1.18	40 1.57	93 N/mm 531 lbf/in	930 N 209 lbf	10 0.39	93 N/mm 531 lbf/in	930 N 209 lbf	10 0.39	93 N/mm 531 lbf/in	930 N 209 lbf	10 0.39
40 1.57	20 0.79	530 N/mm 3027 lbf/in	2650 N 596 lbf	5 0.20	485 N/mm 2770 lbf/in	2430 N 546 lbf	5 0.20	485 N/mm 2770 lbf/in	2430 N 546 lbf	5 0.20
40 1.57	25 0.98	-	-	-	-	-	-	368 N/mm 2101 lbf/in	2300 N 517 lbf	6.25 0.25
40 1.57	28 1.10	-	-	-	329 N/mm 1878 lbf/in	2430 N 517 lbf	7 0.28	-	-	-
40 1.57	30 1.18	210 N/mm 1199 lbf/in	1575 N 354 lbf	7.5 0.30	210 N/mm 1199 lbf/in	1570 N 353 lbf	7.5 0.30	210 N/mm 1199 lbf/in	1570 N 353 lbf	7.5 0.30
40 1.57	35 1.38	-	-	-	253 N/mm 1444 lbf/in	2210 N 496 lbf	8.75 0.34	-	-	-
40 1.57	40 1.57	140 N/mm 799 lbf/in	1400 N 315 lbf	10 0.39	140 N/mm 799 lbf/in	1400 N 315 lbf	10 0.39	140 N/mm 799 lbf/in	1400 N 315 lbf	10 0.39
40 1.57	45 1.77	-	-	-	-	-	-	148 N/mm 845 lbf/in	1670 N 375 lbf	11.25 0.44
50 1.97	20 0.79	-	-	-	820 N/mm 4683 lbf/in	4100 N 922 lbf	5 0.20	820 N/mm 4683 lbf/in	4100 N 922 lbf	5 0.20

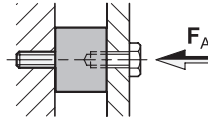
GN 351 / GN 451

Resilience characteristics for 55 Shore under axial and static load

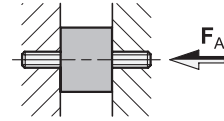
Type EE



Type ES



Type SS



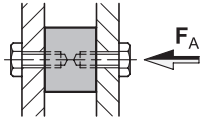
d_1	h	Spring rate ≈	Max. load F_A	Max. travel	Spring rate ≈	Max. load F_A	Max. travel	Spring rate ≈	Max. load F_A	Max. travel
50 1.97	25 0.98	-	-	-	930 N/mm 5310 lbf/in	5810 N 1306 lbf	6.25 0.25	611 N/mm 3488 lbf/in	3820 N 858 lbf	6.25 0.25
50 1.97	30 1.18	440 N/mm 2513 lbf/in	3300 N 742 lbf	7.5 0.30	440 N/mm 2513 lbf/in	3300 N 742 lbf	7.5 0.30	440 N/mm 2513 lbf/in	3300 N 742 lbf	7.5 0.30
50 1.97	35 1.38	291 N/mm 1661 lbf/in	2545 N 572 lbf	8.75 0.34	376 N/mm 2147 lbf/in	3290 N 739 lbf	8.75 0.34	328 N/mm 1872 lbf/in	2870 N 645 lbf	8.75 0.34
50 1.97	40 1.57	213 N/mm 1216 lbf/in	2130 N 479 lbf	10 0.39	213 N/mm 1216 lbf/in	2130 N 479 lbf	10 0.39	213 N/mm 1216 lbf/in	2130 N 479 lbf	10 0.39
50 1.97	45 1.77	-	-	-	219 N/mm 1250 lbf/in	2464 N 553 lbf	11.25 0.44	269 N/mm 1536 lbf/in	3030 N 681 lbf	11.25 0.44
50 1.97	50 1.97	175 N/mm 999 lbf/in	2190 N 492 lbf	12.5 0.49	175 N/mm 999 lbf/in	2190 N 492 lbf	12.5 0.49	175 N/mm 999 lbf/in	2190 N 492 lbf	12.5 0.49
60 2.36	30 1.18	555 N/mm 3169 lbf/in	4170 N 937 lbf	7.5 0.30	555 N/mm 3169 lbf/in	4170 N 937 lbf	7.5 0.30	555 N/mm 3169 lbf/in	4170 N 937 lbf	7.5 0.30
60 2.36	35 1.38	-	-	-	545 N/mm 3112 lbf/in	4770 N 1072 lbf	8.75 0.34	-	-	-
60 2.36	40 1.57	360 N/mm 2056 lbf/in	3610 N 812 lbf	10 0.39	360 N/mm 2056 lbf/in	3610 N 812 lbf	10 0.39	360 N/mm 2056 lbf/in	3610 N 812 lbf	10 0.39
60 2.36	50 1.97	275 N/mm 1570 lbf/in	3410 N 767 lbf	12.5 0.49	275 N/mm 1570 lbf/in	3410 N 767 lbf	12.5 0.49	275 N/mm 1570 lbf/in	3410 N 767 lbf	12.5 0.49
70 2.76	30 1.18	1225 N/mm 6995 lbf/in	4900 N 1102 lbf	4 0.16	1140 N/mm 6510 lbf/in	8570 N 1927 lbf	7.5 0.30	1140 N/mm 6510 lbf/in	8570 N 1927 lbf	7.5 0.30
70 2.76	35 1.38	1072 N/mm 6121 lbf/in	9380 N 2108 lbf	8.75 0.34	-	-	-	1200 N/mm 6852 lbf/in	10500 N 2360 lbf	8.75 0.34
70 2.76	45 1.77	635 N/mm 3626 lbf/in	7130 N 1603 lbf	11.25 0.44	635 N/mm 3626 lbf/in	7130 N 1603 lbf	11.25 0.44	635 N/mm 3626 lbf/in	7130 N 1603 lbf	11.25 0.44
70 2.76	50 1.97	497 N/mm 2837 lbf/in	6210 N 1396 lbf	12.5 0.49	475 N/mm 2712 lbf/in	5940 N 1335 lbf	12.5 0.49	-	-	-
70 2.76	70 2.76	-	-	-	293 N/mm 1673 lbf/in	5120 N 1151 lbf	17.5 0.69	-	-	-
75 2.95	25 0.98	-	-	-	2075 N/mm 11849 lbf/in	12970 N 2916 lbf	6.25 0.25	2075 N/mm 11849 lbf/in	12970 N 2916 lbf	6.25 0.25
75 2.95	30 1.18	3298 N/mm 18832 lbf/in	9895 N 2224 lbf	3 0.12	-	-	-	-	-	-
75 2.95	40 1.57	697 N/mm 3979 lbf/in	6970 N 1567 lbf	10 0.39	697 N/mm 3979 lbf/in	6970 N 1567 lbf	10 0.39	697 N/mm 3979 lbf/in	6970 N 1567 lbf	10 0.39
75 2.95	45 1.77	-	-	-	627 N/mm 3580 lbf/in	7050 N 1584 lbf	11.25 0.44	-	-	-
75 2.95	50 1.97	577 N/mm 3294 lbf/in	7210 N 1620 lbf	12.5 0.49	556 N/mm 3174 lbf/in	6950 N 1562 lbf	12.5 0.49	585 N/mm 3340 lbf/in	7310 N 1643 lbf	12.5 0.49
75 2.95	55 2.17	545 N/mm 3112 lbf/in	7510 N 1688 lbf	13.75 0.54	545 N/mm 3112 lbf/in	7510 N 1688 lbf	13.75 0.54	545 N/mm 3112 lbf/in	7510 N 1688 lbf	13.75 0.54
100 3.94	40 1.57	1925 N/mm 10993 lbf/in	15400 N 3462 lbf	8 0.31	2000 N/mm 11421 lbf/in	20000 N 4496 lbf	10 0.39	2000 N/mm 11421 lbf/in	20000 N 4496 lbf	10 0.39
100 3.94	55 2.17	950 N/mm 5425 lbf/in	13080 N 2941 lbf	13.75 0.54	950 N/mm 5425 lbf/in	13080 N 2941 lbf	13.75 0.54	950 N/mm 5425 lbf/in	13080 N 2941 lbf	13.75 0.54
100 3.94	60 2.36	898 N/mm 5127 lbf/in	13470 N 3028 lbf	15 0.59	961 N/mm 5487 lbf/in	14420 N 3241 lbf	15 0.59	1273 N/mm 7269 lbf/in	19090 N 4291 lbf	15 0.59
100 3.94	75 2.95	515 N/mm 2941 lbf/in	9640 N 2167 lbf	18.75 0.74	515 N/mm 2941 lbf/in	9640 N 2167 lbf	18.75 0.74	515 N/mm 2941 lbf/in	9640 N 2167 lbf	18.75 0.74
125 4.92	55 2.17	1400 N/mm 7995 lbf/in	19260 N 4330 lbf	13.75 0.54	1400 N/mm 7995 lbf/in	19260 N 4330 lbf	13.75 0.54	1400 N/mm 7995 lbf/in	19260 N 4330 lbf	13.75 0.54
125 4.92	75 2.95	1035 N/mm 5910 lbf/in	19440 N 4370 lbf	18.75 0.74	1035 N/mm 5910 lbf/in	19440 N 4370 lbf	18.75 0.74	1035 N/mm 5910 lbf/in	19440 N 4370 lbf	18.75 0.74



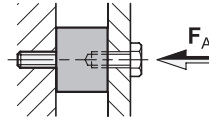
GN 351 / GN 451

Resilience characteristics for 70 Shore under axial and static load

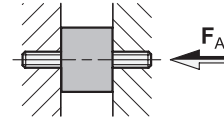
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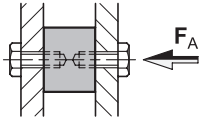


d_1	h	Spring rate ≈	Max. load F_A	Max. travel	Spring rate ≈	Max. load F_A	Max. travel	Spring rate ≈	Max. load F_A	Max. travel
6 0.24	7 0.28	-	-	-	80 N/mm 457 lbf/in	140 N 31 lbf	1.75 0.07	63 N/mm 359 lbf/in	110 N 24 lbf	1.75 0.07
8 0.31	8 0.31	75 N/mm 428 lbf/in	150 N 34 lbf	2 0.08	75 N/mm 428 lbf/in	150 N 34 lbf	2 0.08	75 N/mm 428 lbf/in	150 N 34 lbf	2 0.08
8 0.31	13 0.51	47 N/mm 268 lbf/in	150 N 34 lbf	3.25 0.13	45 N/mm 257 lbf/in	145 N 33 lbf	3.25 0.13	41 N/mm 234 lbf/in	130 N 29 lbf	3.25 0.13
10 0.39	10 0.39	83 N/mm 474 lbf/in	165 N 37 lbf	2 0.08	80 N/mm 457 lbf/in	200 N 45 lbf	2.5 0.10	80 N/mm 457 lbf/in	200 N 45 lbf	2.5 0.10
10 0.39	15 0.59	40 N/mm 228 lbf/in	150 N 34 lbf	3.75 0.15	40 N/mm 228 lbf/in	150 N 34 lbf	3.75 0.15	40 N/mm 228 lbf/in	56 N 13 lbf	1.4 0.06
10 0.39	20 0.79	20 N/mm 114 lbf/in	100 N 23 lbf	5 0.20	19 N/mm 108 lbf/in	96 N 22 lbf	5 0.20	18 N/mm 103 lbf/in	88 N 20 lbf	5 0.20
15 0.59	8 0.31	-	-	-	-	-	-	855 N/mm 4882 lbf/in	1710 N 384 lbf	2 0.08
15 0.59	10 0.39	290 N/mm 1656 lbf/in	580 N 130 lbf	2 0.08	290 N/mm 1656 lbf/in	715 N 161 lbf	2.5 0.10	290 N/mm 1656 lbf/in	715 N 161 lbf	2.5 0.10
15 0.59	15 0.59	137 N/mm 782 lbf/in	515 N 116 lbf	3.75 0.15	137 N/mm 782 lbf/in	515 N 116 lbf	3.75 0.15	137 N/mm 782 lbf/in	515 N 116 lbf	3.75 0.15
15 0.59	20 0.79	94 N/mm 537 lbf/in	470 N 106 lbf	5 0.20	94 N/mm 537 lbf/in	470 N 106 lbf	5 0.20	94 N/mm 537 lbf/in	470 N 106 lbf	5 0.20
15 0.59	25 0.98	-	-	-	81 N/mm 463 lbf/in	505 N 114 lbf	6.25 0.25	80 N/mm 457 lbf/in	500 N 112 lbf	6.25 0.25
15 0.59	30 1.18	-	-	-	62 N/mm 354 lbf/in	466 N 104 lbf	7.5 0.30	-	-	-
16 0.63	15 0.59	731 N/mm 4174 lbf/in	2740 N 615 lbf	3.75 0.15	-	-	-	-	-	-
16 0.63	20 0.79	133 N/mm 759 lbf/in	665 N 149 lbf	5 0.20	-	-	-	-	-	-
20 0.79	8.5 0.33	-	-	-	-	-	-	2665 N/mm 15217 lbf/in	5330 N 1198 lbf	2 0.08
20 0.79	15 0.59	365 N/mm 2084 lbf/in	550 N 124 lbf	1.5 0.06	280 N/mm 1599 lbf/in	1040 N 234 lbf	3.75 0.15	280 N/mm 1599 lbf/in	1040 N 234 lbf	3.75 0.15
20 0.79	20 0.79	191 N/mm 1090 lbf/in	955 N 215 lbf	5 0.20	191 N/mm 1090 lbf/in	955 N 215 lbf	5 0.20	191 N/mm 1090 lbf/in	955 N 215 lbf	5 0.20
20 0.79	25 0.98	160 N/mm 914 lbf/in	1010 N 227 lbf	6.25 0.25	160 N/mm 914 lbf/in	1010 N 227 lbf	6.25 0.25	160 N/mm 914 lbf/in	1010 N 227 lbf	6.25 0.25
20 0.79	30 1.18	-	-	-	160 N/mm 914 lbf/in	1210 N 272 lbf	7.5 0.30	130 N/mm 742 lbf/in	980 N 220 lbf	7.5 0.30
25 0.98	10 0.39	-	-	-	-	-	-	4204 N/mm 24005 lbf/in	10511 N 2362 lbf	2.5 0.10
25 0.98	15 0.59	-	-	-	715 N/mm 4083 lbf/in	2690 N 605 lbf	3.75 0.15	715 N/mm 4083 lbf/in	2690 N 605 lbf	3.75 0.15
25 0.98	20 0.79	305 N/mm 1742 lbf/in	1535 N 345 lbf	5 0.20	305 N/mm 1742 lbf/in	1530 N 344 lbf	5 0.20	305 N/mm 1742 lbf/in	1530 N 344 lbf	5 0.20
25 0.98	25 0.98	220 N/mm 1256 lbf/in	1370 N 308 lbf	6.25 0.25	-	-	-	220 N/mm 1256 lbf/in	1374 N 308 lbf	6.25 0.25
25 0.98	30 1.18	160 N/mm 914 lbf/in	1210 N 272 lbf	7.5 0.30	160 N/mm 914 lbf/in	1210 N 272 lbf	7.5 0.30	160 N/mm 914 lbf/in	1210 N 272 lbf	7.5 0.30
30 1.18	15 0.59	-	-	-	880 N/mm 5025 lbf/in	3300 N 742 lbf	3.75 0.15	880 N/mm 5025 lbf/in	3300 N 742 lbf	3.75 0.15
30 1.18	20 0.79	3230 N/mm 18445 lbf/in	2260 N 508 lbf	0.7 0.03	450 N/mm 2570 lbf/in	2260 N 508 lbf	5 0.20	452 N/mm 2580 lbf/in	2260 N 508 lbf	5 0.20
30 1.18	25 0.98	1069 N/mm 6104 lbf/in	5880 N 1321 lbf	5.5 0.22	1498 N/mm 8553 lbf/in	9360 N 2104 lbf	6.25 0.25	278 N/mm 1587 lbf/in	1735 N 390 lbf	6.25 0.25

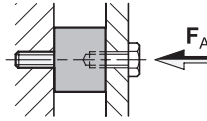
GN 351 / GN 451

Resilience characteristics for 70 Shore under axial and static load

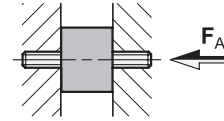
Type EE



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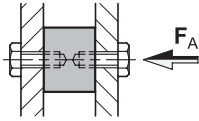
d_1	h	Spring rate ≈	Max. load F_A	Max. travel	Spring rate ≈	Max. load F_A	Max. travel	Spring rate ≈	Max. load F_A	Max. travel
30 1.18	30 1.18	260 N/mm 1485 lbf/in	1690 N 380 lbf	7.5 0.30	260 N/mm 1485 lbf/in	490 N 110 lbf	2 0.08	260 N/mm 1485 lbf/in	490 N 110 lbf	2 0.08
30 1.18	40 1.57	200 N/mm 1142 lbf/in	2000 N 450 lbf	10 0.39	200 N/mm 1142 lbf/in	2000 N 450 lbf	10 0.39	200 N/mm 1142 lbf/in	2000 N 450 lbf	10 0.39
40 1.57	20 0.79	2820 N/mm 16104 lbf/in	6200 N 1394 lbf	2.25 0.09	890 N/mm 5082 lbf/in	4450 N 1000 lbf	5 0.20	890 N/mm 5082 lbf/in	4450 N 1000 lbf	5 0.20
40 1.57	25 0.98	-	-	-	-	-	-	688 N/mm 3928 lbf/in	4300 N 966 lbf	6.25 0.25
40 1.57	28 1.10	-	-	-	706 N/mm 4031 lbf/in	4940 N 1110 lbf	7 0.28	-	-	-
40 1.57	30 1.18	455 N/mm 2598 lbf/in	3420 N 769 lbf	7.5 0.30	455 N/mm 2598 lbf/in	3420 N 769 lbf	7.5 0.30	455 N/mm 2598 lbf/in	3420 N 769 lbf	7.5 0.30
40 1.57	35 1.38	-	-	-	419 N/mm 2392 lbf/in	3670 N 825 lbf	8.75 0.34	-	-	-
40 1.57	40 1.57	319 N/mm 1821 lbf/in	3190 N 717 lbf	10 0.39	319 N/mm 1821 lbf/in	3190 N 717 lbf	10 0.39	319 N/mm 1821 lbf/in	3190 N 717 lbf	10 0.39
40 1.57	45 1.77	-	-	-	-	-	-	257 N/mm 1467 lbf/in	2890 N 649 lbf	11.25 0.44
50 1.97	20 0.79	-	-	-	1850 N/mm 10564 lbf/in	9240 N 2077 lbf	5 0.20	1850 N/mm 10564 lbf/in	9240 N 2077 lbf	5 0.20
50 1.97	25 0.98	-	-	-	2094 N/mm 11957 lbf/in	13090 N 2942 lbf	6.25 0.25	1195 N/mm 6823 lbf/in	7470 N 1679 lbf	6.25 0.25
50 1.97	30 1.18	725 N/mm 4140 lbf/in	5450 N 1225 lbf	7.5 0.30	725 N/mm 4140 lbf/in	5450 N 1225 lbf	7.5 0.30	725 N/mm 4140 lbf/in	5450 N 1225 lbf	7.5 0.30
50 1.97	35 1.38	850 N/mm 4853 lbf/in	7440 N 1672 lbf	8.75 0.34	659 N/mm 3762 lbf/in	5770 N 1297 lbf	8.75 0.34	699 N/mm 3991 lbf/in	6120 N 1375 lbf	8.75 0.34
50 1.97	40 1.57	494 N/mm 2820 lbf/in	4940 N 1111 lbf	10 0.39	494 N/mm 2820 lbf/in	4940 N 1111 lbf	10 0.39	494 N/mm 2820 lbf/in	4940 N 1111 lbf	10 0.39
50 1.97	45 1.77	-	-	-	446 N/mm 2546 lbf/in	5020 N 1128 lbf	11.25 0.44	430 N/mm 2455 lbf/in	4840 N 1088 lbf	11.25 0.44
50 1.97	50 1.97	420 N/mm 2398 lbf/in	4750 N 1068 lbf	11.25 0.44	380 N/mm 2170 lbf/in	4750 N 1068 lbf	12.5 0.49	380 N/mm 2170 lbf/in	4750 N 1068 lbf	12.5 0.49
60 2.36	30 1.18	1217 N/mm 6949 lbf/in	9130 N 2053 lbf	7.5 0.30	1217 N/mm 6949 lbf/in	9130 N 2053 lbf	7.5 0.30	1217 N/mm 6949 lbf/in	9130 N 2053 lbf	7.5 0.30
60 2.36	35 1.38	-	-	-	1043 N/mm 5955 lbf/in	9130 N 2053 lbf	8.75 0.34	-	-	-
60 2.36	40 1.57	695 N/mm 3969 lbf/in	6950 N 1562 lbf	10 0.39	695 N/mm 3969 lbf/in	6950 N 1562 lbf	10 0.39	695 N/mm 3969 lbf/in	6950 N 1562 lbf	10 0.39
60 2.36	50 1.97	712 N/mm 4065 lbf/in	7125 N 1602 lbf	10 0.39	525 N/mm 2998 lbf/in	6570 N 1477 lbf	12.5 0.49	525 N/mm 2998 lbf/in	6570 N 1477 lbf	12.5 0.49
70 2.76	30 1.18	2420 N/mm 13819 lbf/in	7250 N 1630 lbf	3 0.12	3380 N/mm 19301 lbf/in	24010 N 5398 lbf	7 0.28	3380 N/mm 19301 lbf/in	24010 N 5398 lbf	7 0.28
70 2.76	35 1.38	3138 N/mm 17918 lbf/in	25100 N 5642 lbf	8 0.31	-	-	-	1943 N/mm 11094 lbf/in	17000 N 3821 lbf	8.75 0.34
70 2.76	45 1.77	1170 N/mm 6681 lbf/in	13210 N 2970 lbf	11.25 0.44	1170 N/mm 6681 lbf/in	13210 N 2970 lbf	11.25 0.44	1170 N/mm 6681 lbf/in	13210 N 2970 lbf	11.25 0.44
70 2.76	50 1.97	830 N/mm 4739 lbf/in	10370 N 2331 lbf	12.5 0.49	878 N/mm 5013 lbf/in	10980 N 2468 lbf	12.5 0.49	-	-	-
70 2.76	70 2.76	-	-	-	599 N/mm 3420 lbf/in	10480 N 2355 lbf	17.5 0.69	-	-	-
75 2.95	25 0.98	-	-	-	4000 N/mm 22842 lbf/in	25000 N 5620 lbf	6.25 0.25	4000 N/mm 22842 lbf/in	25000 N 5620 lbf	6.25 0.25
75 2.95	30 1.18	5000 N/mm 28553 lbf/in	25000 N 5620 lbf	5 0.20	-	-	-	-	-	-



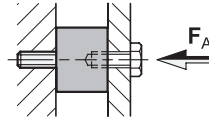
GN 351 / GN 451

Resilience characteristics for 70 Shore under axial and static load

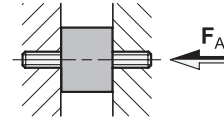
Type EE



Type ES



Type SS

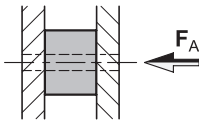


d_1	h	Spring rate \approx	Max. load F_A	Max. travel	Spring rate \approx	Max. load F_A	Max. travel	Spring rate \approx	Max. load F_A	Max. travel
75 2.95	40 1.57	1538 N/mm 8782 lbf/in	15380 N 3458 lbf	10 0.39	1538 N/mm 8782 lbf/in	15380 N 3458 lbf	10 0.39	1538 N/mm 8782 lbf/in	15380 N 3458 lbf	10 0.39
75 2.95	45 1.77	-	-	-	1379 N/mm 7874 lbf/in	15510 N 3486 lbf	11.25 0.44	-	-	-
75 2.95	50 1.97	1087 N/mm 6206 lbf/in	13590 N 3055 lbf	12.5 0.49	1059 N/mm 6047 lbf/in	13240 N 2976 lbf	12.5 0.49	950 N/mm 5424 lbf/in	11880 N 2670 lbf	12.5 0.49
75 2.95	55 2.17	817 N/mm 4665 lbf/in	11240 N 2527 lbf	13.75 0.54	815 N/mm 4653 lbf/in	11240 N 2527 lbf	13.75 0.54	815 N/mm 4653 lbf/in	11240 N 2527 lbf	13.75 0.54
100 3.94	40 1.57	2900 N/mm 16560 lbf/in	29000 N 6519 lbf	10 0.39	2900 N/mm 16560 lbf/in	29000 N 6519 lbf	10 0.39	2900 N/mm 16560 lbf/in	29000 N 6519 lbf	10 0.39
100 3.94	55 2.17	1760 N/mm 10050 lbf/in	24260 N 5454 lbf	13.75 0.54	1760 N/mm 10050 lbf/in	24260 N 5454 lbf	13.75 0.54	1760 N/mm 10050 lbf/in	24260 N 5454 lbf	13.75 0.54
100 3.94	60 2.36	1543 N/mm 8810 lbf/in	23140 N 5202 lbf	15 0.59	1620 N/mm 9250 lbf/in	24300 N 5462 lbf	15 0.59	1800 N/mm 10278 lbf/in	27000 N 6069 lbf	15 0.59
100 3.94	75 2.95	1190 N/mm 6795 lbf/in	22350 N 5024 lbf	18.75 0.74	1190 N/mm 6795 lbf/in	22350 N 5024 lbf	18.75 0.74	1190 N/mm 6795 lbf/in	22350 N 5024 lbf	18.75 0.74
125 4.92	55 2.17	3185 N/mm 18188 lbf/in	25000 N 5620 lbf	7.85 0.31	3010 N/mm 17189 lbf/in	23610 N 5308 lbf	7.85 0.31	3010 N/mm 17189 lbf/in	23610 N 5308 lbf	7.75 0.31
125 4.92	75 2.95	1270 N/mm 7252 lbf/in	23750 N 5339 lbf	18.75 0.74	1290 N/mm 7367 lbf/in	24200 N 5440 lbf	18.75 0.74	1160 N/mm 6624 lbf/in	21790 N 4899 lbf	18.75 0.74

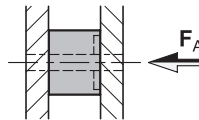
GN 351 / GN 451

Resilience characteristics for 40 Shore under axial and static load

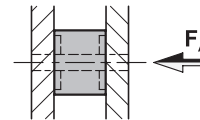
Type B



Type D



Type DD

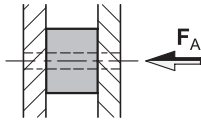


d_1	h	Spring rate \approx	Max. load F_A	Max. travel	Spring rate \approx	Max. load F_A	Max. travel	Spring rate \approx	Max. load F_A	Max. travel
15 0.59	12 0.47	32 N/mm 182 lbf/in	97 N 21 lbf	3 0.12	-	-	-	-	-	-
15 0.59	15 0.59	26 N/mm 148 lbf/in	100 N 22 lbf	3.75 0.15	-	-	-	-	-	-
15 0.59	20 0.79	19 N/mm 108 lbf/in	95 N 21 lbf	5 0.20	-	-	-	-	-	-
15 0.59	25 0.98	-	-	-	-	-	-	19 N/mm 108 lbf/in	120 N 26 lbf	6.25 0.25
20 0.79	15 0.59	47 N/mm 268 lbf/in	95 N 40 lbf	3.75 0.15	53 N/mm 302 lbf/in	202 N 45 lbf	3.75 0.15	-	-	-
20 0.79	20 0.79	30 N/mm 171 lbf/in	153 N 34 lbf	5 0.20	-	-	-	-	-	-
20 0.79	25 0.98	26 N/mm 148 lbf/in	167 N 37 lbf	6.25 0.25	-	-	-	37 N/mm 211 lbf/in	235 N 52 lbf	6.25 0.25
20 0.79	30 1.18	24 N/mm 137 lbf/in	182 N 40 lbf	7.5 0.30	-	-	-	-	-	-
25 0.98	25 0.98	42 N/mm 239 lbf/in	263 N 59 lbf	6.25 0.25	-	-	-	-	-	-

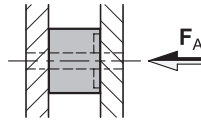
GN 351 / GN 451

Resilience characteristics for 40 Shore under axial and static load

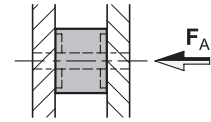
Type B



Type D



Type DD



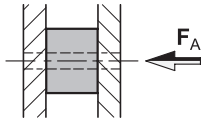
d₁	h	Spring rate ≈	Max. load F _A	Max. travel	Spring rate ≈	Max. load F _A	Max. travel	Spring rate ≈	Max. load F _A	Max. travel
25 0.98	30 1.18	36 N/mm 205 lbf/in	274 N 61 lbf	7.5 0.30	-	-	-	-	-	-
25 0.98	40 1.57	27 N/mm 154 lbf/in	274 N 61 lbf	10 0.39	-	-	-	-	-	-
30 1.18	15 0.59	-	-	-	-	-	-	141 N/mm 805 lbf/in	530 N 119 lbf	3.75 0.15
30 1.18	20 0.79	78 N/mm 445 lbf/in	390 N 87 lbf	5 0.20	-	-	-	-	-	-
30 1.18	30 1.18	50 N/mm 285 lbf/in	380 N 85 lbf	7 0.28	54 N/mm 308 lbf/in	407 N 91 lbf	7.5 0.30	-	-	-
30 1.18	40 1.57	37 N/mm 211 lbf/in	375 N 84 lbf	10 0.39	-	-	-	-	-	-
35 1.38	15 0.59	-	-	-	-	-	-	264 N/mm 1507 lbf/in	990 N 222 lbf	3.75 0.15
35 1.38	20 0.79	-	-	-	-	-	-	180 N/mm 1027 lbf/in	902 N 202 lbf	5 0.20
40 1.57	10 0.39	-	-	-	453 N/mm 2586 lbf/in	1134 N 255 lbf	2.5 0.10	-	-	-
40 1.57	20 0.79	185 N/mm 1056 lbf/in	928 N 208 lbf	5 0.20	196 N/mm 1119 lbf/in	983 N 220 lbf	5 0.20	265 N/mm 1513 lbf/in	1326 N 298 lbf	5 0.20
40 1.57	28 1.10	-	-	-	-	-	-	140 N/mm 799 lbf/in	980 N 220 lbf	7 0.28
40 1.57	30 1.18	108 N/mm 616 lbf/in	811 N 182 lbf	7.5 0.30	118 N/mm 673 lbf/in	889 N 199 lbf	7.5 0.30	117 N/mm 668 lbf/in	878 N 198 lbf	7.5 0.30
40 1.57	35 1.38	-	-	-	-	-	-	104 N/mm 593 lbf/in	915 N 205 lbf	8.75 0.34
40 1.57	40 1.57	77 N/mm 439 lbf/in	770 N 173 lbf	10 0.39	-	-	-	91 N/mm 519 lbf/in	910 N 204 lbf	10 0.39
40 1.57	50 1.97	62 N/mm 354 lbf/in	784 N 176 lbf	12.5 0.49	-	-	-	-	-	-
50 1.97	15 0.59	-	-	-	-	-	-	629 N/mm 3591 lbf/in	2360 N 530 lbf	3.75 0.15
50 1.97	20 0.79	-	-	-	-	-	-	414 N/mm 2364 lbf/in	2074 N 466 lbf	5 0.20
50 1.97	25 0.98	-	-	-	-	-	-	340 N/mm 1941 lbf/in	2310 N 519 lbf	6.25 0.25
50 1.97	30 1.18	191 N/mm 1090 lbf/in	1438 N 323 lbf	7.5 0.30	-	-	-	186 N/mm 1062 lbf/in	1395 N 313 lbf	7.5 0.30
50 1.97	40 1.57	153 N/mm 873 lbf/in	1530 N 344 lbf	10 0.39	139 N/mm 793 lbf/in	1392 N 312 lbf	10 0.39	135 N/mm 770 lbf/in	1352 N 304 lbf	10 0.39
50 1.97	50 0.59	104 N/mm 593 lbf/in	1305 N 293 lbf	12.5 0.49	-	-	-	96 N/mm 548 lbf/in	1205 N 270 lbf	12.5 0.49
60 2.36	13 0.51	-	-	-	-	-	-	1643 N/mm 9381 lbf/in	5340 N 1199 lbf	3.25 0.13
60 2.36	20 0.79	-	-	-	568 N/mm 3243 lbf/in	2840 N 638 lbf	5 0.20	-	-	-
60 2.36	30 1.18	296 N/mm 1690 lbf/in	2225 N 500 lbf	7.5 0.30	298 N/mm 1701 lbf/in	2239 N 502 lbf	7.5 0.30	342 N/mm 1952 lbf/in	2570 N 577 lbf	7.5 0.30
60 2.36	50 0.59	-	-	-	244 N/mm 1393 lbf/in	2840 N 638 lbf	12.5 0.49	160 N/mm 913 lbf/in	2010 N 451 lbf	12.5 0.49
60 2.36	60 2.36	129 N/mm 736 lbf/in	1936 N 435 lbf	15 0.59	-	-	-	-	-	-
75 2.95	30 1.18	-	-	-	-	-	-	633 N/mm 3614 lbf/in	4750 N 1068 lbf	7.5 0.30
75 2.95	55 2.17	-	-	-	-	-	-	251 N/mm 1433 lbf/in	3460 N 777 lbf	13.75 0.54



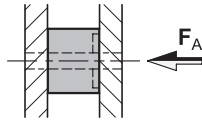
GN 351 / GN 451

Resilience characteristics for 40 Shore under axial and static load

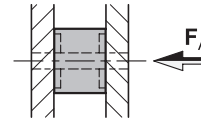
Type B



Type D



Type DD

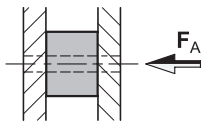


d ₁	h	Type B			Type D			Type DD		
		Spring rate ≈	Max. load F _A	Max. travel	Spring rate ≈	Max. load F _A	Max. travel	Spring rate ≈	Max. load F _A	Max. travel
80 3.15	30 1.18	550 N/mm 3140 lbf/in	4130 N 928 lbf	7.5 0.30	665 N/mm 3797 lbf/in	4990 N 1121 lbf	7.5 0.30	-	-	-
80 3.15	35 1.38	-	-	-	870 N/mm 4967 lbf/in	8700 N 1956 lbf	10 0.39	-	-	-
80 3.15	40 1.57	401 N/mm 2289 lbf/in	4010 N 901 lbf	10 0.39	582 N/mm 3323 lbf/in	4370 N 982 lbf	7.5 0.30	-	-	-
80 3.15	50 0.59	293 N/mm 1673 lbf/in	3670 N 824 lbf	12.5 0.49	-	-	-	-	-	-
80 3.15	80 3.15	184 N/mm 1050 lbf/in	3680 N 827 lbf	20 0.79	-	-	-	-	-	-
100 3.94	25 0.98	-	-	-	1548 N/mm 8839 lbf/in	9680 N 2176 lbf	6.25 0.25	-	-	-
100 3.94	30 1.18	1036 N/mm 5915 lbf/in	7770 N 1746 lbf	7.5 0.30	-	-	-	-	-	-
100 3.94	40 1.57	604 N/mm 3448 lbf/in	6040 N 1358 lbf	10 0.39	861 N/mm 4916 lbf/in	8610 N 1935 lbf	10 0.39	-	-	-
100 3.94	50 0.59	-	-	-	-	-	-	559 N/mm 3191 lbf/in	6990 N 1570 lbf	12.5 0.49
100 3.94	60 2.36	-	-	-	-	-	-	484 N/mm 2763 lbf/in	7260 N 1632 lbf	15 0.59
100 3.94	80 3.15	299 N/mm 1707 lbf/in	5990 N 1347 lbf	20 0.79	-	-	-	-	-	-

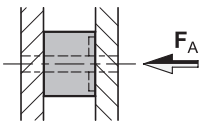
GN 351 / GN 451

Resilience characteristics for 55 Shore under axial and static load

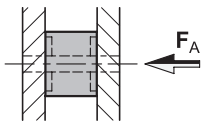
Type B



Type D



Type DD

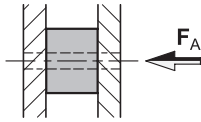


d ₁	h	Type B			Type D			Type DD		
		Spring rate ≈	Max. load F _A	Max. travel	Spring rate ≈	Max. load F _A	Max. travel	Spring rate ≈	Max. load F _A	Max. travel
15 0.59	12 0.47	58 N/mm 331 lbf/in	174 N 39 lbf	3 0.12	-	-	-	-	-	-
15 0.59	15 0.59	44 N/mm 251 lbf/in	165 N 37 lbf	3.75 0.15	-	-	-	-	-	-
15 0.59	20 0.79	28 N/mm 159 lbf/in	140 N 31 lbf	5 0.20	-	-	-	-	-	-
15 0.59	25 0.98	-	-	-	-	-	-	31 N/mm 177 lbf/in	194 N 43 lbf	6.25 0.25
20 0.79	15 0.59	76 N/mm 433 lbf/in	285 N 64 lbf	3.75 0.15	90 N/mm 513 lbf/in	338 N 87 lbf	3.75 0.15	-	-	-
20 0.79	20 0.79	58 N/mm 331 lbf/in	293 N 65 lbf	5 0.20	-	-	-	-	-	-
20 0.79	25 0.98	51 N/mm 291 lbf/in	320 N 71 lbf	6.25 0.25	-	-	-	57 N/mm 325 lbf/in	360 N 80 lbf	6.25 0.25
20 0.79	30 1.18	41 N/mm 234 lbf/in	310 N 69 lbf	7.5 0.30	-	-	-	-	-	-
25 0.98	15 0.59	154 N/mm 879 lbf/in	579 N 130 lbf	3.75 0.15	-	-	-	-	-	-

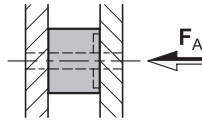
GN 351 / GN 451

Resilience characteristics for 55 Shore under axial and static load

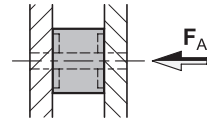
Type B



Type D



Type DD



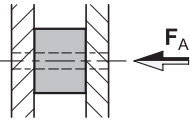
d ₁	h	Type B			Type D			Type DD		
		Spring rate ≈	Max. load F _A	Max. travel	Spring rate ≈	Max. load F _A	Max. travel	Spring rate ≈	Max. load F _A	Max. travel
25 0.98	20 0.79	96 N/mm 548 lbf/in	482 N 108 lbf	5 0.20	102 N/mm 582 lbf/in	511 N 114 lbf	5 0.20	142 N/mm 810 lbf/in	710 N 159 lbf	5 0.20
25 0.98	25 0.98	75 N/mm 428 lbf/in	470 N 105 lbf	6.25 0.25	-	-	-	-	-	-
25 0.98	30 1.18	60 N/mm 342 lbf/in	455 N 102 lbf	7.5 0.30	-	-	-	-	-	-
25 0.98	40 1.57	49 N/mm 279 lbf/in	493 N 110 lbf	10 0.39	-	-	-	-	-	-
30 1.18	15 0.59	-	-	-	-	-	-	218 N/mm 1244 lbf/in	825 N 185 lbf	3.77 0.15
30 1.18	20 0.79	162 N/mm 925 lbf/in	810 N 182 lbf	5 0.20	-	-	-	-	-	-
30 1.18	30 1.18	84 N/mm 479 lbf/in	630 N 141 lbf	7.5 0.30	88 N/mm 502 lbf/in	665 N 149 lbf	7.5 0.30	-	-	-
30 1.18	40 1.57	65 N/mm 371 lbf/in	650 N 146 lbf	10 0.39	-	-	-	-	-	-
35 1.38	15 0.59	-	-	-	-	-	-	481 N/mm 2746 lbf/in	1806 N 406 lbf	3.75 0.15
35 1.38	20 0.79	-	-	-	-	-	-	298 N/mm 1701 lbf/in	1491 N 335 lbf	5 0.20
40 1.57	10 0.39	-	-	-	840 N/mm 4796 lbf/in	2100 N 472 lbf	2.5 0.10	-	-	-
40 1.57	20 0.79	276 N/mm 1576 lbf/in	1380 N 310 lbf	5 0.20	316 N/mm 1804 lbf/in	1580 N 355 lbf	5 0.20	399 N/mm 2278 lbf/in	1995 N 448 lbf	5 0.20
40 1.57	28 1.10	-	-	-	-	-	-	231 N/mm 1319 lbf/in	1620 N 364 lbf	7 0.28
40 1.57	30 1.18	184 N/mm 1050 lbf/in	1380 N 310 lbf	7.5 0.30	215 N/mm 1227 lbf/in	1616 N 363 lbf	7.5 0.30	200 N/mm 1142 lbf/in	1500 N 337 lbf	7.5 0.30
40 1.57	35 1.38	-	-	-	-	-	-	170 N/mm 970 lbf/in	1495 N 336 lbf	8.75 0.34
40 1.57	40 1.57	127.5 N/mm 728 lbf/in	1275 N 286 lbf	10 0.39	-	-	-	134 N/mm 765 lbf/in	1340 N 301 lbf	10 0.39
40 1.57	50 1.97	104 N/mm 593 lbf/in	1300 N 292 lbf	12.5 0.49	-	-	-	-	-	-
50 1.97	15 0.59	-	-	-	-	-	-	1050 N/mm 5995 lbf/in	3940 N 885 lbf	3.75 0.15
50 1.97	20 0.79	-	-	-	-	-	-	654 N/mm 3734 lbf/in	3270 N 735 lbf	5 0.20
50 1.97	25 0.98	-	-	-	-	-	-	579 N/mm 3306 lbf/in	3620 N 814 lbf	6.25 0.25
50 1.97	30 1.18	322 N/mm 1838 lbf/in	2420 N 544 lbf	7.5 0.30	-	-	-	305 N/mm 1741 lbf/in	2293 N 515 lbf	7.5 0.30
50 1.97	40 1.57	208 N/mm 1187 lbf/in	2086 N 469 lbf	10 0.39	230 N/mm 1313 lbf/in	2304 N 518 lbf	10 0.39	236 N/mm 1347 lbf/in	2365 N 531 lbf	10 0.39
50 1.97	50 1.97	172 N/mm 982 lbf/in	2155 N 484 lbf	12.5 0.49	-	-	-	171 N/mm 976 lbf/in	2143 N 481 lbf	12.5 0.49
60 2.36	13 0.51	-	-	-	-	-	-	2661 N/mm 15194 lbf/in	8650 N 1943 lbf	3.25 0.13
60 2.36	20 0.79	-	-	-	882 N/mm 5036 lbf/in	4410 N 991 lbf	5 0.20	-	-	-
60 2.36	30 1.18	465 N/mm 2655 lbf/in	3490 N 784 lbf	7.5 0.30	549 N/mm 3134 lbf/in	4120 N 926 lbf	7.5 0.30	542 N/mm 3094 lbf/in	4070 N 915 lbf	7.5 0.30
60 2.36	50 1.97	-	-	-	285 N/mm 1627 lbf/in	3570 N 802 lbf	12.5 0.49	253 N/mm 1444 lbf/in	3170 N 713 lbf	12.5 0.49
60 2.36	60 2.36	227 N/mm 1296 lbf/in	3410 N 766 lbf	15 0.59	-	-	-	-	-	-



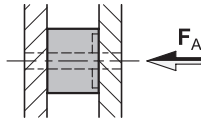
GN 351 / GN 451

Resilience characteristics for 55 Shore under axial and static load

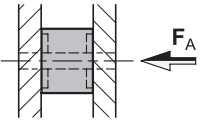
Type B



Type D



Type DD

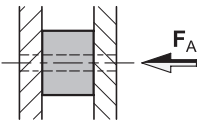


d_1	h	Spring rate \approx	Max. load F_A	Max. travel	Spring rate \approx	Max. load F_A	Max. travel	Spring rate \approx	Max. load F_A	Max. travel
75 2.95	30 1.18	-	-	-	-	-	-	1089 N/mm 6218 lbf/in	8170 N 1835 lbf	7.5 0.30
75 2.95	55 2.17	-	-	-	-	-	-	429 N/mm 2449 lbf/in	5910 N 1327 lbf	13.75 0.54
80 3.15	30 1.18	913 N/mm 5213 lbf/in	6850 N 1538 lbf	7.5 0.30	1017 N/mm 5807 lbf/in	7630 N 1714 lbf	7.5 0.30	-	-	-
80 3.15	35 1.38	-	-	-	868 N/mm 4956 lbf/in	7600 N 1708 lbf	8.75 0.34	-	-	-
80 3.15	40 1.57	648 N/mm 3700 lbf/in	6480 N 1456 lbf	10 0.39	604 N/mm 3448 lbf/in	6040 N 1358 lbf	10 0.39	-	-	-
80 3.15	50 1.97	506 N/mm 2889 lbf/in	6330 N 1422 lbf	12.5 0.49	-	-	-	-	-	-
80 3.15	80 3.15	278 N/mm 1587 lbf/in	5570 N 1251 lbf	20 0.79	-	-	-	-	-	-
100 3.94	25 0.98	-	-	-	2224 N/mm 12699 lbf/in	13900 N 3123 lbf	6.25 0.25	-	-	-
100 3.94	30 1.18	1953 N/mm 11151 lbf/in	14650 N 3293 lbf	7.5 0.30	-	-	-	-	-	-
100 3.94	40 1.57	1237 N/mm 7063 lbf/in	12370 N 2780 lbf	10 0.39	1336 N/mm 7628 lbf/in	13360 N 3003 lbf	10 0.39	-	-	-
100 3.94	50 1.97	-	-	-	-	-	-	948 N/mm 5413 lbf/in	11850 N 2663 lbf	12.5 0.49
100 3.94	60 2.36	-	-	-	-	-	-	780 N/mm 4453 lbf/in	11710 N 2631 lbf	15 0.59
100 3.94	80 3.15	324 N/mm 1850 lbf/in	6480 N 1456 lbf	20 0.79	-	-	-	-	-	-

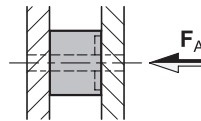
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Resilience characteristics for 70 Shore under axial and static load

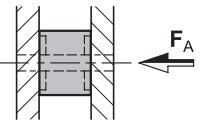
Type B



Type D



Type DD

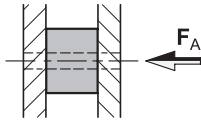


d_1	h	Spring rate \approx	Max. load F_A	Max. travel	Spring rate \approx	Max. load F_A	Max. travel	Spring rate \approx	Max. load F_A	Max. travel
15 0.59	12 0.47	102 N/mm 582 lbf/in	306 N 68 lbf	3 0.12	-	-	-	-	-	-
15 0.59	15 0.59	78 N/mm 445 lbf/in	296 N 66 lbf	3.75 0.15	-	-	-	-	-	-
15 0.59	20 0.79	54 N/mm 308 lbf/in	272 N 61 lbf	5 0.20	-	-	-	-	-	-
15 0.59	25 0.98	-	-	-	-	-	-	64 N/mm 365 lbf/in	400 N 89 lbf	6.25 0.25
20 0.79	15 0.59	140 N/mm 799 lbf/in	525 N 118 lbf	3.75 0.15	171 N/mm 976 lbf/in	643 N 144 lbf	3.75 0.15	-	-	-
20 0.79	20 0.79	102 N/mm 582 lbf/in	510 N 114 lbf	5 0.20	-	-	-	-	-	-
20 0.79	25 0.98	77 N/mm 439 lbf/in	482 N 108 lbf	6.25 0.25	-	-	-	103 N/mm 588 lbf/in	645 N 145 lbf	6.25 0.25
20 0.79	30 1.18	60 N/mm 342 lbf/in	456 N 102 lbf	7.5 0.30	-	-	-	-	-	-

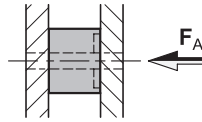
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Resilience characteristics for 70 Shore under axial and static load

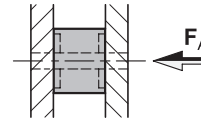
Type B



Type D



Type DD



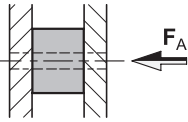
d₁	h	Spring rate ≈	Max. load F _A	Max. travel	Spring rate ≈	Max. load F _A	Max. travel	Spring rate ≈	Max. load F _A	Max. travel
25 0.98	15 0.59	225 N/mm 1284 lbf/in	847 N 190 lbf	3.75 0.15	-	-	-	-	-	-
25 0.98	20 0.79	142 N/mm 810 lbf/in	711 N 159 lbf	5 0.20	181 N/mm 1033 lbf/in	908 N 204 lbf	5 0.20	280 N/mm 1598 lbf/in	1400 N 314 lbf	5 0.20
25 0.98	25 0.98	123 N/mm 702 lbf/in	773 N 173 lbf	6.25 0.25	-	-	-	-	-	-
25 0.98	30 1.18	102 N/mm 582 lbf/in	770 N 173 lbf	7.5 0.30	-	-	-	-	-	-
25 0.98	40 1.57	76 N/mm 433 lbf/in	768 N 172 lbf	10 0.39	-	-	-	-	-	-
30 1.18	15 0.59	-	-	-	-	-	-	693 N/mm 3957 lbf/in	2600 N 584 lbf	3.75 0.15
30 1.18	20 0.79	238 N/mm 1359 lbf/in	1192 N 268 lbf	5 0.20	-	-	-	-	-	-
30 1.18	30 1.18	142 N/mm 810 lbf/in	1065 N 239 lbf	7.5 0.30	184 N/mm 1050 lbf/in	1387 N 311 lbf	7.5 0.30	-	-	-
30 1.18	40 1.57	110 N/mm 628 lbf/in	1102 N 247 lbf	10 0.39	-	-	-	-	-	-
35 1.38	15 0.59	-	-	-	-	-	-	757 N/mm 4322 lbf/in	2840 N 638 lbf	3.75 0.15
35 1.38	20 0.79	-	-	-	-	-	-	700 N/mm 3997 lbf/in	3500 N 786 lbf	5 0.20
40 1.57	10 0.39	-	-	-	1636 N/mm 9341 lbf/in	4090 N 919 lbf	2.5 0.10	-	-	-
40 1.57	20 0.79	439 N/mm 2506 lbf/in	2197 N 493 lbf	5 0.20	740 N/mm 4225 lbf/in	3700 N 831 lbf	5 0.20	916 N/mm 5230 lbf/in	4580 N 1029 lbf	5 0.20
40 1.57	28 1.10	-	-	-	-	-	-	384 N/mm 2192 lbf/in	2690 N 604 lbf	7 0.28
40 1.57	30 1.18	382 N/mm 2181 lbf/in	2870 N 645 lbf	7.5 0.30	376 N/mm 2147 lbf/in	2820 N 634 lbf	7.5 0.30	117 N/mm 668 lbf/in	878 N 197 lbf	7.5 0.30
40 1.57	35 1.38	-	-	-	-	-	-	305 N/mm 1741 lbf/in	2670 N 600 lbf	8.75 0.34
40 1.57	40 1.57	230 N/mm 1313 lbf/in	2303 N 517 lbf	10 0.39	-	-	-	312 N/mm 1781 lbf/in	3120 N 701 lbf	10 0.39
40 1.57	50 1.97	166 N/mm 947 lbf/in	2083 N 468 lbf	12.5 0.49	-	-	-	-	-	-
50 1.97	15 0.59	-	-	-	-	-	-	2472 N/mm 14115 lbf/in	9270 N 2083 lbf	3.75 0.15
50 1.97	20 0.79	-	-	-	-	-	-	1032 N/mm 5892 lbf/in	5160 N 1160 lbf	5 0.20
50 1.97	25 0.98	-	-	-	-	-	-	905 N/mm 5167 lbf/in	5660 N 1272 lbf	6.25 0.25
50 1.97	30 1.18	530 N/mm 3029 lbf/in	3980 N 895 lbf	7.5 0.30	-	-	-	593 N/mm 3386 lbf/in	4450 N 1000 lbf	7.5 0.30
50 1.97	40 1.57	340 N/mm 1941 lbf/in	3400 N 764 lbf	10 0.39	486 N/mm 14309 lbf/in	4860 N 1092 lbf	10 0.39	458 N/mm 2615 lbf/in	4580 N 1029 lbf	10 0.39
50 1.97	50 1.97	295 N/mm 1684 lbf/in	3690 N 829 lbf	12.5 0.49	-	-	-	326 N/mm 1513 lbf/in	3320 N 746 lbf	12.5 0.49
60 2.36	13 0.51	-	-	-	-	-	-	4609 N/mm 26318 lbf/in	14980 N 3367 lbf	3.25 0.13
60 2.36	20 0.79	-	-	-	1620 N/mm 9250 lbf/in	8100 N 1820 lbf	5 0.20	-	-	-
60 2.36	30 1.18	870 N/mm 4967 lbf/in	6530 N 1467 lbf	7.5 0.30	1009 N/mm 5761 lbf/in	7570 N 1702 lbf	7.5 0.30	928 N/mm 5299 lbf/in	6960 N 1564 lbf	7.5 0.30
60 2.36	50 1.97	-	-	-	591 N/mm 3374 lbf/in	7391 N 1660 lbf	12.5 0.49	446 N/mm 2546 lbf/in	5580 N 1253 lbf	12.5 0.49



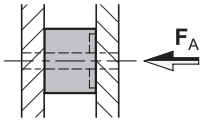
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Resilience characteristics for 70 Shore under axial and static load

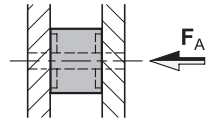
Type B



Type D



Type DD



d ₁	h	Type B			Type D			Type DD		
		Spring rate ≈	Max. load F _A	Max. travel	Spring rate ≈	Max. load F _A	Max. travel	Spring rate ≈	Max. load F _A	Max. travel
60 2.36	60 2.36	396 N/mm 2261 lbf/in	5950 N 1337 lbf	15 0.59	-	-	-	-	-	-
75 2.95	30 1.18	-	-	-	-	-	-	1892 N/mm 10803 lbf/in	14190 N 3190 lbf	7.5 0.30
75 2.95	55 2.17	-	-	-	-	-	-	2381 N/mm 13595 lbf/in	8930 N 2007 lbf	3.75 0.15
80 3.15	30 1.18	1461 N/mm 8342 lbf/in	10960 N 2462 lbf	7.5 0.30	1757 N/mm 10032 lbf/in	13180 N 2961 lbf	7.5 0.30	-	-	-
80 3.15	35 1.38	-	-	-	1368 N/mm 7811 lbf/in	11970 N 2691 lbf	8.75 0.34	-	-	-
80 3.15	40 1.57	1020 N/mm 5824 lbf/in	10200 N 2293 lbf	10 0.39	1103 N/mm 6298 lbf/in	11030 N 2479 lbf	10 0.39	-	-	-
80 3.15	50 1.97	864 N/mm 4933 lbf/in	10810 N 2430 lbf	12.5 0.49	-	-	-	-	-	-
80 3.15	80 3.15	478 N/mm 2729 lbf/in	9560 N 2149 lbf	20 0.79	-	-	-	-	-	-
100 3.94	25 0.98	-	-	-	2350 N/mm 13418 lbf/in	14690 N 3302 lbf	6.25 0.25	-	-	-
100 3.94	30 1.18	3098 N/mm 17690 lbf/in	23240 N 5224 lbf	7.5 0.30	-	-	-	-	-	-
100 3.94	40 1.57	1497 N/mm 8548 lbf/in	14970 N 3363 lbf	10 0.39	2553 N/mm 14578 lbf/in	25530 N 5737 lbf	10 0.39	-	-	-
100 3.94	50 1.97	-	-	-	-	-	-	1484 N/mm 8473 lbf/in	18560 N 4170 lbf	12.5 0.49
100 3.94	60 2.36	-	-	-	-	-	-	1406 N/mm 8028 lbf/in	21090 N 4740 lbf	15 0.59
100 3.94	80 3.15	789 N/mm 4505 lbf/in	15790 N 3550 lbf	20 0.79	-	-	-	-	-	-