

## INTERLOCK GARTER SPRINGS

### Stock sizes in stainless steel

Garter springs are extension springs with the ends fastened together to form a ring. They are primarily used to maintain controlled pressure of a radial lip seal on a shaft and to compensate for lip wear, changes in volume or stiffness of the elastomer caused by the fluid, and the effect of temperature changes and time. Other uses include small motor belts and electrical connectors.

SPEC garter springs are engineered and manufactured to provide a consistent and reliable product. They feature high initial tension to provide constant load and a special tapered end to assure a strong connection and a continuous near uniform body diameter.

### Applications

- Oil Seals • Lip Seals • Small Motor Belts
- Electrical Connectors

### Lengths

SPEC garter springs are available in a variety of standard lengths which can be trimmed and assembled to meet your required inside diameter. Simply trim the non-tapered end to your needed length and assemble by screwing the tapered end into the non-tapered end as shown in figure G1.

### Material

Stainless steel – plain finish.

Type 302 per ASTM A313 or AMS 5688 spring temper. (Chemical and physical only.) Certificate of chemical analysis available at additional charge.

### Tolerances

Body O.D.  $\pm 0.13$

Load at 4.75mm extension  $\pm 10\%$

### Ends

Springs are sold in unassembled lengths with interlock ends.

### KEY TO MEASUREMENTS

$D_o$  = Outside diameter

$d$  = Wire diameter

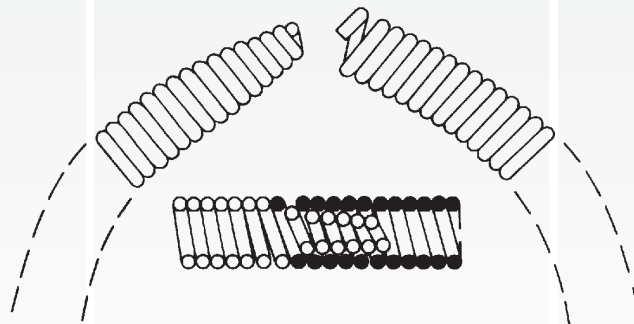
$D_1$  = Internal diameter when assembled

$L_1$  = Approximate active length

$L_2$  = Loaded length

$F_1$  = Force at loaded length

$D_2$  = Maximum expanded internal diameter



**INTERLOCK GARTER SPRINGS**

Part Number	Do (mm)	d (mm)	D <sub>1</sub> (mm)	L <sub>1</sub> (mm)	L <sub>2</sub> (mm)	F <sub>1</sub> (N)	D <sub>2</sub> (mm)
G040-008-0813-S	1.02	0.20	65.53	206.50	209.68	0.70	79.83
G050-009-0170-S	1.27	0.23	13.56	43.33	49.00	1.53	16.29
G050-009-0249-S	1.27	0.23	19.94	63.35	72.47	1.32	25.56
G050-010-0370-S	1.27	0.25	29.72	94.16	101.50	1.53	35.97
G050-010-0695-S	1.27	0.25	56.01	176.76	184.73	1.81	65.03
G050-011-0492-S	1.27	0.28	39.55	125.12	133.02	1.88	46.25
G062-008-0078-S	1.57	0.20	6.12	19.86	26.16	0.70	8.26
G062-010-0168-S	1.57	0.25	13.36	42.77	50.27	1.53	17.63
G062-010-0350-S	1.57	0.25	28.04	88.90	93.65	0.91	37.30
G062-010-0700-S	1.57	0.25	56.34	177.80	182.55	0.80	76.06
G062-010-1400-S	1.57	0.25	112.93	355.60	360.35	0.75	152.45
G062-011-0249-S	1.57	0.28	19.91	63.35	74.04	1.33	26.88
G062-011-0350-S	1.57	0.28	28.02	88.90	93.65	1.20	36.70
G062-011-0366-S	1.57	0.28	29.36	93.12	103.96	1.62	38.55
G062-011-0700-S	1.57	0.28	56.31	177.80	182.55	1.01	75.02
G062-011-1400-S	1.57	0.28	112.90	355.60	360.35	0.92	151.60
G062-012-0350-S	1.57	0.30	27.99	88.90	93.65	1.71	34.33
G062-012-0538-S	1.57	0.30	43.26	136.86	146.43	1.95	53.48
G062-012-0694-S	1.57	0.30	55.85	176.43	188.01	2.18	68.04
G062-012-0700-S	1.57	0.30	56.29	177.80	182.55	1.41	70.26
G062-012-1074-S	1.57	0.30	86.59	272.97	291.57	3.34	97.22
G062-012-1400-S	1.57	0.30	112.88	355.60	360.35	1.26	142.18
G062-013-0820-S	1.57	0.33	66.04	208.51	220.40	2.64	77.90
G062-013-0952-S	1.57	0.33	76.71	242.01	255.60	2.92	89.38
G062-015-1281-S	1.57	0.38	103.20	325.40	337.95	4.17	111.45
G078-010-0107-S	1.98	0.25	8.41	27.20	35.92	0.90	11.35
G078-011-0217-S	1.98	0.28	17.30	55.22	65.02	1.25	23.35
G078-012-0350-S	1.98	0.30	27.99	88.90	93.65	2.07	35.44
G078-012-0700-S	1.98	0.30	56.29	177.80	182.55	1.93	72.90
G078-012-1400-S	1.98	0.30	112.88	355.60	360.35	1.87	147.75
G078-013-0324-S	1.98	0.33	25.88	82.35	89.94	1.95	34.51
G078-014-0350-S	1.98	0.36	27.94	88.90	93.65	3.40	32.22
G078-014-0700-S	1.98	0.36	56.24	177.80	182.55	3.09	66.47
G078-014-0869-S	1.98	0.36	69.90	220.73	232.28	2.64	87.52
G078-014-1400-S	1.98	0.36	112.83	355.60	360.35	2.93	134.98
G078-015-0491-S	1.98	0.38	39.37	124.89	136.04	3.34	48.19
G078-015-0700-S	1.98	0.38	56.24	177.88	189.43	3.61	67.15
G078-015-1390-S	1.98	0.38	112.06	353.26	367.54	3.34	134.47
G080-016-1413-S	2.03	0.41	113.89	359.08	372.97	3.89	134.27
G080-016-1663-S	2.03	0.41	134.09	422.53	438.28	3.89	158.16
G094-014-0350-S	2.39	0.36	27.94	88.90	93.65	2.26	37.71
G094-014-0700-S	2.39	0.36	56.24	177.80	182.55	2.10	75.92
G094-014-1400-S	2.39	0.36	112.83	355.60	360.35	2.03	152.32
G094-016-0350-S	2.39	0.41	27.89	88.90	93.65	2.96	35.29
G094-016-0700-S	2.39	0.41	56.18	177.80	182.55	2.62	73.05
G094-016-1400-S	2.39	0.41	112.78	355.60	360.35	2.45	148.48
G094-017-1279-S	2.39	0.43	103.02	325.02	340.82	3.61	129.62
G094-017-1443-S	2.39	0.43	116.31	366.75	384.71	4.03	143.87
G094-018-1589-S	2.39	0.46	128.07	403.76	420.52	4.31	155.76
G094-018-2065-S	2.39	0.46	166.50	524.51	541.25	5.35	194.16
G109-016-0350-S	2.77	0.41	27.89	88.90	93.65	2.44	37.65
G109-016-0700-S	2.77	0.41	56.18	177.80	182.55	2.24	75.85
G109-016-1400-S	2.77	0.41	112.78	355.60	360.35	2.14	152.25
G109-018-0350-S	2.77	0.46	27.84	88.90	93.65	3.14	36.44
G109-018-0700-S	2.77	0.46	56.13	177.80	182.55	2.75	75.74
G109-018-1400-S	2.77	0.46	112.73	355.60	360.35	2.57	152.18
G125-020-0700-S	3.18	0.51	55.98	177.80	182.55	5.05	70.32
G125-020-1400-S	3.18	0.51	112.57	355.60	360.35	4.47	146.71
G125-020-1587-S	3.18	0.51	127.81	403.12	422.12	4.31	172.43
G125-020-1959-S	3.18	0.51	157.94	497.76	512.37	3.41	213.22
G125-020-2600-S	3.18	0.51	209.60	660.40	665.15	4.20	277.62
G125-024-2167-S	3.18	0.61	174.63	550.55	565.05	7.58	208.09
G188-024-0700-S	4.76	0.61	55.98	177.80	182.55	3.50	75.58
G188-024-1400-S	4.76	0.61	112.57	355.60	360.35	3.36	151.97
G188-024-2600-S	4.76	0.61	209.60	660.40	665.15	3.30	282.96
G250-024-0700-S	6.35	0.61	55.98	177.80	182.55	3.16	75.58
G250-024-1400-S	6.35	0.61	112.57	355.60	360.35	3.11	151.97
G250-024-2600-S	6.35	0.61	209.60	660.40	665.15	3.08	282.96

