

**Registered office:**

Caleb Components Limited  
Block 6 Grazebrook Industrial Park  
Peartree Lane, Dudley  
West Midlands  
DY2 0XW  
England

**Tel:** 0044 (0)1384 453955

**Fax:** 0044 (0)1384 257423

**Email:** [sales@calebcomponents.com](mailto:sales@calebcomponents.com)

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Supplier of high quality standard & bespoke  
Non-Threaded Fasteners

## Disc Springs / Belleville Washers

Disc Springs, also known as Belleville Washers are conical shaped washers. They have the unique advantage of offering a high force in a confined space compared with that of a coiled type Compression Spring.

Added to this, they have great flexibility in that the Discs can be used in various configurations and therefore offer unique Spring Stacks according to your requirements.

Here at Caleb Components, we offer the following type of Disc Springs:

- Standard DIN 2093 Disc Springs / Belleville Washers
- Ball Bearing Pre-load Disc Springs
- Heavy Duty Disc Springs / Conical Washers
- Disc Spring Stacks
- Non-standard Disc Springs – full technical advice available

We can also offer Disc Springs in materials such as:

- Carbon Spring Steel
- Stainless Steel 301 / 302
- FV520B Stainless Steel (For larger Disc Springs)
- Inconel 718 / Inconel X750

Please find on the pages below, the standard sizes of DIN 2093 Disc Springs we can offer. If you can't find the size you're looking for, please don't hesitate to contact us so we can help you find what you need.

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# Disc Springs / Belleville Washers

The standard sizes for Disc Springs DIN 2093

Product Code	O/D (mm)	I/D (mm)	Thickness (mm)	Overall Height (mm)
CDS83203	8.0	3.20	0.30	0.55
CDS83204	8.0	3.20	0.40	0.60
CDS83205	8.0	3.20	0.50	0.70
CDS84202	8.0	4.20	0.20	0.45
CDS84203	8.0	4.20	0.30	0.55
CDS84204	8.0	4.20	0.40	0.60
CDS103203	10.0	3.20	0.30	0.65
CDS103204	10.0	3.20	0.40	0.70
CDS103205	10.0	3.20	0.50	0.75
CDS104204	10.0	4.20	0.40	0.70
CDS104205	10.0	4.20	0.50	0.75
CDS1052025	10.0	5.20	0.25	0.55
CDS105204	10.0	5.20	0.40	0.70
CDS105205	10.0	5.20	0.50	0.75
CDS124204	12.0	4.20	0.40	0.80
CDS124205	12.0	4.20	0.50	0.85
CDS125205	12.0	5.20	0.50	0.90
CDS125206	12.0	5.20	0.60	0.95
CDS126205	12.0	6.20	0.50	0.85
CDS126206	12.0	6.20	0.60	0.95
CDS12562035	12.5	6.20	0.35	0.80
CDS1256205	12.5	6.20	0.50	0.85
CDS1256206	12.5	6.20	0.60	0.95
CDS1256207	12.5	6.20	0.70	1.00
CDS125621	12.5	6.20	1.00	1.20
CDS147205	14.0	7.20	0.50	0.90
CDS147208	14.0	7.20	0.80	1.10
CDS156205	15.0	6.20	0.50	1.00
CDS156206	15.0	6.20	0.60	1.05
CDS156207	15.0	6.20	0.70	1.10
CDS158207	15.0	8.20	0.70	1.10
CDS158208	15.0	8.20	0.80	1.20
CDS168204	16.0	8.20	0.40	0.90
CDS168206	16.0	8.20	0.60	1.05
CDS168207	16.0	8.20	0.70	1.15
CDS168208	16.0	8.20	0.80	1.20
CDS168209	16.0	8.20	0.90	1.25
CDS186204	18.0	6.20	0.40	1.00
CDS186206	18.0	6.20	0.60	1.20
CDS186207	18.0	6.20	0.70	1.25
CDS186208	18.0	6.20	0.80	1.30
CDS188205	18.0	8.20	0.50	1.10
CDS188207	18.0	8.20	0.70	1.25
CDS188208	18.0	8.20	0.80	1.30
CDS18821	18.0	8.20	1.00	1.40
CDS1892045	18.0	9.20	0.45	1.05
CD189207	18.0	9.20	0.70	1.20
CDS18921	18.0	9.20	1.00	1.40
CDS208208	20.0	8.20	0.80	1.40
CDS208209	20.0	8.20	0.90	1.45
CDS20821	20.0	8.20	1.00	1.55
CDS2010204	20.0	10.20	0.40	0.90
CDS2010205	20.0	10.20	0.50	1.15
CDS2010208	20.0	10.20	0.80	1.35
CDS2010209	20.0	10.20	0.90	1.45

Product Code	O/D (mm)	I/D (mm)	Thickness (mm)	Overall Height (mm)
CDS201021	20.0	10.20	1.00	1.55
CDS2010211	20.0	10.20	1.10	1.55
CDS20102125	20.0	10.20	1.25	1.75
CDS2010215	20.0	10.20	1.50	1.80
CDS22511208	22.5	11.20	0.80	1.45
CDS2251121	22.5	11.20	1.00	1.65
CDS225112125	22.5	11.20	1.25	1.75
CDS238207	23.0	8.20	0.70	1.50
CDS238208	23.0	8.20	0.80	1.55
CDS238209	23.0	8.20	0.90	1.60
CDS23821	23.0	8.20	1.00	1.70
CDS2310209	23.0	10.20	0.90	1.65
CDS231021	23.0	10.20	1.00	1.70
CDS23102125	23.0	10.20	1.25	1.90
CDS231221	23.0	12.20	1.00	1.60
CDS23122125	23.0	12.20	1.25	1.85
CDS2312215	23.0	12.20	1.50	2.00
CDS2512207	25.0	12.20	0.70	1.60
CDS2512209	25.0	12.20	0.90	1.60
CDS251221	25.0	12.20	1.00	1.80
CDS25122125	25.0	12.20	1.25	1.95
CDS2512215	25.0	12.20	1.50	2.05
CDS2810208	28.0	10.20	0.80	1.75
CDS281021	28.0	10.20	1.00	1.90
CDS28102125	28.0	10.20	1.25	2.05
CDS2810215	28.0	10.20	1.50	2.20
CDS281221	28.0	12.20	1.00	1.95
CDS28122125	28.0	12.20	1.25	2.10
CDS2812215	28.0	12.20	1.50	2.25
CDS2814208	28.0	14.20	0.80	1.80
CDS281421	28.0	14.20	1.00	1.80
CDS28142125	28.0	14.20	1.25	2.10
CDS2814215	28.0	14.20	1.50	2.15
CDS3151221	31.5	12.20	1.00	2.10
CDS315122125	31.5	12.20	1.25	2.20
CDS31512215	31.5	12.20	1.50	2.35
CDS31516308	31.5	16.30	0.80	1.85
CDS315163125	31.5	16.30	1.25	2.15
CDS31516315	31.5	16.30	1.50	2.40
CDS315163175	31.5	16.30	1.75	2.45
CDS3151632	31.5	16.30	2.00	2.75
CDS3412221	34.0	12.20	1.00	2.25
CDS34122125	34.0	12.20	1.25	2.35
CDS3412215	34.0	12.20	1.50	2.50
CDS3416315	34.0	16.30	1.50	2.55
CDS341632	34.0	16.30	2.00	2.85
CDS35518309	35.5	18.30	0.90	2.09
CDS355183125	35.5	18.30	1.25	2.25
CDS3551832	35.5	18.30	2.00	2.80
CDS40142125	40.0	14.20	1.25	2.65
CDS4014215	40.0	14.20	1.50	2.75
CDS40142175	40.0	14.20	1.75	3.05
CDS4016315	40.0	16.30	1.50	2.55
CDS40163175	40.0	16.30	1.75	3.10
CDS401632	40.0	16.30	2.00	3.10

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Product Code	O/D (mm)	I/D (mm)	Thickness (mm)	Overall Height (mm)
CDS402041	40.0	20.40	1.00	2.30
CDS4020415	40.0	20.40	1.50	2.65
CDS402042	40.0	20.40	2.00	3.10
CDS40204225	40.0	20.40	2.25	3.15
CDS4020425	40.0	20.40	2.50	3.45
CDS45224125	45.0	22.40	1.25	2.85
CDS45224175	45.0	22.40	1.75	3.05
CDS4522425	45.0	22.40	2.50	3.50
CDS50183125	50.0	18.30	1.25	2.85
CDS5018315	50.0	18.30	1.50	3.30
CDS501832	50.0	18.30	2.00	3.50
CDS502042	50.0	20.40	2.00	3.50
CDS5020425	50.0	20.40	2.50	3.85
CDS50254125	50.0	25.40	1.25	2.85
CDS5025415	50.0	25.40	1.50	3.10
CDS502542	50.0	25.40	2.00	3.40
CDS5025425	50.0	25.40	2.50	3.90
CDS502543	50.0	25.40	3.00	4.10
CDS5628515	56.0	28.50	1.50	3.45
CDS562852	56.0	28.50	2.00	3.60
CDS5628525	56.0	28.50	2.50	4.20
CDS562853	56.0	28.50	3.00	4.30
CDS602052	60.0	20.50	2.00	4.10
CDS6020525	60.0	20.50	2.50	4.30
CDS602053	60.0	20.50	3.00	4.70
CDS6030525	60.0	30.50	2.50	4.30
CDS603053	60.0	30.50	3.00	4.70
CDS6030535	60.0	30.50	3.50	5.00
CDS633118	63.0	31.00	1.80	4.15
CDS633125	63.0	31.00	2.50	4.25
CDS63313	63.0	31.00	3.00	4.80
CDS633135	63.0	31.00	3.50	4.90
CDS7030525	70.0	30.50	2.50	4.90
CDS703053	70.0	30.50	3.00	5.10
CDS703553	70.0	35.50	3.00	5.10
CDS703554	70.0	35.50	4.00	5.80
CDS704054	70.0	40.50	4.00	5.60
CDS704055	70.0	40.50	5.00	6.20
CDS71362	71.0	36.00	2.00	4.60
CDS713625	71.0	36.00	2.50	4.50
CDS71364	71.0	36.00	4.00	5.60
CDS80313	80.0	31.00	3.00	5.50
CDS80314	80.0	31.00	4.00	6.10
CDS80363	80.0	36.00	3.00	5.70
CDS80364	80.0	36.00	4.00	6.20
CDS8041225	80.0	41.00	2.25	5.20
CDS80413	80.0	41.00	3.00	5.30
CDS80414	80.0	41.00	4.00	6.20
CDS80415	80.0	41.00	5.00	6.70
CDS904625	90.0	46.00	2.50	5.70
CDS904635	90.0	46.00	3.50	6.00
CDS90465	90.0	46.00	5.00	7.00
CDS100414	100.0	41.00	4.00	7.20
CDS100415	100.0	41.00	5.00	7.75

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Product Code	O/D (mm)	I/D (mm)	Thickness (mm)	Overall Height (mm)
CDS1005127	100.0	51.00	2.70	6.20
CDS1005135	100.0	51.00	3.50	6.30
CDS100514	100.0	51.00	4.00	7.00
CDS100515	100.0	51.00	5.00	7.80
CDS100516	100.0	51.00	6.00	8.20
CDS100517	100.0	51.00	7.00	9.20
CDS112573	112.0	57.00	3.00	6.90
CDS112574	112.0	57.00	4.00	7.20
CDS112576	112.0	57.00	6.00	8.50
CDS125514	125.0	51.00	4.00	8.50
CDS125515	125.0	51.00	5.00	8.90
CDS125516	125.0	51.00	6.00	9.40
CDS125615	125.0	61.00	5.00	9.00
CDS125616	125.0	61.00	6.00	9.60
CDS125618	125.0	61.00	8.00	10.90
CDS125645	125.0	64.00	5.00	10.90
CDS125646	125.0	64.00	6.00	9.60
CDS125647	125.0	64.00	7.00	10.00
CDS125648	125.0	64.00	8.00	10.60
CDS125716	125.0	71.00	6.00	9.30
CDS125718	125.0	71.00	8.00	10.40
CDS1257110	125.0	71.00	10.00	11.80
CDS1407238	140.0	72.00	3.80	8.70
CDS140725	140.0	72.00	5.00	9.00
CDS140728	140.0	72.00	8.00	11.20
CDS150615	150.0	61.00	5.00	10.30
CDS150616	150.0	61.00	6.00	10.80
CDS150716	150.0	71.00	6.00	10.80
CDS150718	150.0	71.00	8.00	12.00
CDS150818	150.0	81.00	8.00	11.70
CDS1508110	150.0	81.00	10.00	13.00
CDS160826	160.0	82.00	6.00	10.50
CDS1608210	160.0	82.00	10.00	13.50
CDS180926	180.0	92.00	6.00	11.10
CDS1809210	180.0	92.00	10.00	14.00
CDS1809213	180.0	92.00	13.00	16.50
CDS200828	200.0	82.00	8.00	14.20
CDS2008210	200.0	82.00	10.00	15.50
CDS2008212	200.0	82.00	12.00	16.60
CDS2009210	200.0	92.00	10.00	15.60
CDS2009212	200.0	92.00	12.00	16.80
CDS2009214	200.0	92.00	14.00	18.10
CDS2001028	200.0	102.00	8.00	13.60
CDS20010210	200.0	102.00	10.00	15.60
CDS20010212	200.0	102.00	12.00	16.20
CDS20010214	200.0	102.00	14.00	18.20
CDS20011212	200.0	112.00	12.00	16.20
CDS20011214	200.0	112.00	14.00	17.50
CDS20011216	200.0	112.00	16.00	18.80

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