

Single Components

Pressure springs DF

Description

Special pressure springs for cushioned suspension of suction pads. The pressure springs are available for all bolts.

Application

- soft touchdown on workpieces
- even load distribution



DF-L50 ... DF-165

Article number

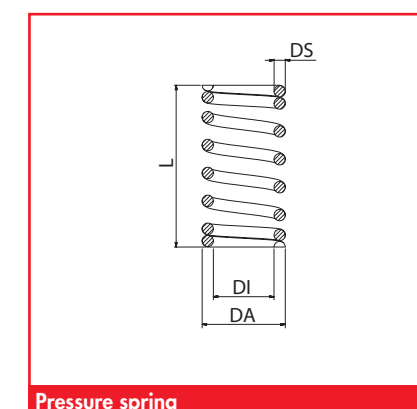
| Type | Pressure spring for bolt-Ø 8mm | Pressure spring for bolt-Ø 12mm | Pressure spring for bolt-Ø 16mm | Pressure spring for bolt-Ø 20mm | Pressure spring for bolt-Ø 30mm |
|----------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| DF-L50-DI10-DS0,7 | 6.21.4.0241 | | | | |
| DF-L50-DI9-DS1 | 6.21.4.0234 | | | | |
| DF-L60-DI13-DS0,9 | | 6.21.4.0024 | | | |
| DF-L60-DI13-DS1,4 | | 6.21.4.0023 | | | |
| DF-L60-DI13-DS2 | | 6.21.4.0240 | | | |
| DF-L70-DI17-DS1,5 | | | 6.21.4.0025 | | |
| DF-L70-DI17-DS2 | | | 6.21.4.0026 | | |
| DF-L70-DI17-DS2,5 | | | 6.21.4.0027 | | |
| DF-L70-DI17-DS3 | | | 6.21.4.0028 | | |
| DF-L70-DI17-DS3,5 | | | 6.21.4.0029 | | |
| DF-L70-DI17-DS4 | | | 6.21.4.0030 | | |
| DF-L70-DI17-DS4,5 | | | 6.21.4.0031 | | |
| DF-L80-DI21-DS2 | | | | 6.21.4.0033 | |
| DF-L80-DI21-DS2,5 | | | | 6.21.4.0034 | |
| DF-L80-DI21-DS3 | | | | 6.21.4.0035 | |
| DF-L80-DI21-DS3,5 | | | | 6.21.4.0036 | |
| DF-L80-DI21-DS4 | | | | 6.21.4.0037 | |
| DF-L80-DI21-DS4,5 | | | | 6.21.4.0038 | |
| DF-L80-DI21-DS5 | | | | 6.21.4.0039 | |
| DF-L80-DI21-DS5,5 | | | | 6.21.4.0040 | |
| DF-L80-DI21-DS6 | | | | 6.21.4.0041 | |
| DF-L80-DI21-DS6,5 | | | | 6.21.4.0042 | |
| DF-L80-DI21-DS8 | | | | 6.21.4.0044 | |
| DF-L80-DI21-DA50-EL | | | | 6.21.4.0092 | |
| DF-L80-DI21-DA80-EL | | | | 6.21.4.0083 | |
| DF-L100-DI32-DS5 | | | | | 6.21.4.0065 |
| DF-L102-DI33-DS6 | | | | | 6.21.4.0243 |
| DF-L110-DI33-DS8 | | | | | 6.21.4.0242 |
| DF-L100-DI31-DA80-EL | | | | | 6.21.4.0069 |

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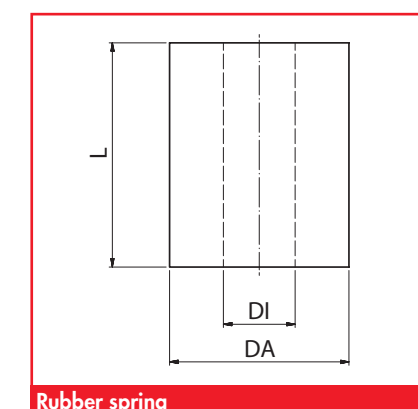
Simply move more.

Single Components

Pressure spring DF



Pressure spring



Rubber spring

Dimensions and technical data

| Type | Spring length L (mm) | Outer-Ø DA (mm) | Inner-Ø DI (mm) | Wire strength DS (mm) | max. Spring force (N) | max. Spring way (mm) | Spring rate (N/mm) | Weight (kg) |
|----------------------|----------------------|-----------------|-----------------|-----------------------|-----------------------|----------------------|--------------------|-------------|
| DF-L50-DI9-DS0,7 | 50 | 11,4 | 10 | 0,7 | 9,3 | 35 | 0,265 | 0,001 |
| DF-L50-DI9-DS1 | 50 | 11 | 9 | 1,0 | 34 | 35 | 0,921 | 0,002 |
| DF-L60-DI13-DS0,9 | 60 | 14,8 | 13 | 0,9 | 22 | 50 | 0,43 | 0,003 |
| DF-L60-DI13-DS1,4 | 60 | 15,8 | 13 | 1,4 | 71 | 41 | 1,74 | 0,007 |
| DF-L60-DI13-DS2 | 60 | 17 | 13 | 2 | 175 | 43 | 4,02 | 0,011 |
| DF-L70-DI17-DS1,5 | 70 | 23 | 17 | 1,5 | 70 | 54 | 1,30 | 0,009 |
| DF-L70-DI17-DS2 | 70 | 21 | 17 | 2 | 160 | 49 | 3,30 | 0,011 |
| DF-L70-DI17-DS2,5 | 70 | 22 | 17 | 2,5 | 330 | 45 | 7,33 | 0,018 |
| DF-L70-DI17-DS3 | 70 | 23 | 17 | 3 | 520 | 38 | 13,7 | 0,035 |
| DF-L70-DI17-DS3,5 | 70 | 24 | 17 | 3,5 | 690 | 31 | 22,3 | 0,057 |
| DF-L70-DI17-DS4 | 70 | 25 | 17 | 4 | 1.010 | 28 | 36,0 | 0,068 |
| DF-L70-DI17-DS4,5 | 70 | 26 | 17 | 4,5 | 1.300 | 24 | 54,2 | 0,086 |
| DF-L80-DI21-DS2 | 80 | 25 | 21 | 2 | 160 | 51 | 3,14 | 0,015 |
| DF-L80-DI21-DS2,5 | 80 | 26 | 21 | 2,5 | 190 | 47 | 4,04 | 0,030 |
| DF-L80-DI21-DS3 | 80 | 27 | 21 | 3 | 350 | 38 | 9,21 | 0,044 |
| DF-L80-DI21-DS3,5 | 80 | 28 | 21 | 3,5 | 480 | 31 | 15,5 | 0,062 |
| DF-L80-DI21-DS4 | 80 | 29 | 21 | 4 | 670 | 30 | 22,3 | 0,075 |
| DF-L80-DI21-DS4,5 | 80 | 30 | 21 | 4,5 | 900 | 23 | 19,1 | 0,098 |
| DF-L80-DI21-DS5 | 80 | 31 | 21 | 5 | 1.170 | 19 | 61,6 | 0,146 |
| DF-L80-DI21-DS5,5 | 80 | 32 | 21 | 5,5 | 1.450 | 17 | 85,3 | 0,270 |
| DF-L80-DI21-DS6 | 80 | 33 | 21 | 6 | 1.740 | 15 | 116,0 | 0,325 |
| DF-L80-DI21-DS6,5 | 80 | 34 | 21 | 6,5 | 2.070 | 13 | 159,2 | 0,374 |
| DF-L80-DI21-DS8 | 80 | 37 | 21 | 8 | 3.170 | 8 | 396,2 | 0,510 |
| DF-L80-DI21-DA50-EL | 80 | 50 | 21 | --- | 6.000 | 30 | 200 | 0,650 |
| DF-L80-DI21-DA80-EL | 80 | 80 | 21 | --- | 12.000 | 30 | 400 | 0,520 |
| DF-L100-DI32-DS5 | 94 | 42 | 32 | 5 | 817 | 55 | 15,0 | 0,384 |
| DF-L100-DI33-DS6 | 102 | 45 | 33 | 6 | 740 | 30 | 24,3 | 0,526 |
| DF-L100-DI33-DS8 | 110 | 49 | 33 | 8 | 3.000 | 34 | 74 | 0,685 |
| DF-L100-DI31-DA80-EL | 100 | 80 | 31 | --- | 18.000 | 40 | 450 | 0,750 |

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