

Round Wire Coil Springs : DVUR



Deflection 45%/I.D. Referenced

Closed Ends (Both Ends Not Ground*)
I.D.D \varnothing 8 or less $\pm 0.6\text{mm}$
 $\pm 0.1\text{mm}$
 \varnothing 10 or More $\pm 0.8\text{mm}$
 $\pm 0.1\text{mm}$

Closed Ends (Both Ends Ground)
Free length L 50 or less $\pm 1\text{mm}$
above 60 $\pm 2\text{mm}$

■ Spring constant

| Type | DVUR | DVUF | DVUL | DVUM |
|-------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| 5 | N/mm 0.29 {kgf/mm} {0.03} | N/mm 0.49 {kgf/mm} {0.05} | N/mm 0.98 {kgf/mm} {0.10} | N/mm 2.94 {kgf/mm} {0.30} |
| 6 | | | | |
| 8 | | | | |
| 6 | | | | |
| 10 | | | | |
| 12 | | | | |
| 16 | | | | |
| Fmax. | F=Lx60% | F=Lx45% | F=Lx40% | F=Lx35% |

● DVUR: Fmax. (Allowable Deflection) = Lx60% Spring Constant 0.29N/mm {0.03kgf/mm}

| Part Number | | Outer Diameter D ₁ | Wire Diameter d | F Max. | N(kgf) max. | Reference | | |
|-------------|-------|----------------------------------|--------------------|-------------|--------------|-----------|--------------|-----------------------|
| Type | D - L | | | | | Pitch | Solid Length | Total Number of Rolls |
| DVUR - 5 | 15 | 5.9 | 0.45 | 9 | 2.65 {0.27} | 1.7 | 5.0 | 10 |
| | 20 | | | 12 | 3.53 {0.36} | | | |
| | 25 | 6.0 | 0.50 | 15 | 4.41 {0.45} | 1.9 | 7.5 | 14 |
| | 30 | | | 18 | 5.29 {0.54} | | | |
| | 35 | 6.1 | 0.55 | 21 | 6.17 {0.63} | 2.3 | 9.6 | 16.5 |
| | 40 | | | 24 | 7.06 {0.72} | | | |
| | 45 | 6.2 | 0.60 | 27 | 7.94 {0.81} | 2.1 | 13.8 | 22 |
| 50 | 30 | | | 8.82 {0.90} | | | | |
| DVUR - 6 | 15 | 7.0 | 0.50 | 9 | 2.65 {0.27} | 1.9 | 5.0 | 9 |
| | 20 | 7.1 | 0.55 | 12 | 3.53 {0.36} | 2.0 | 6.6 | 11 |
| | 25 | | | 15 | 4.41 {0.45} | 2.5 | | |
| | 30 | 7.2 | 0.60 | 18 | 5.29 {0.54} | 3.0 | 9.0 | 14 |
| | 35 | | | 21 | 6.17 {0.63} | 2.7 | | |
| | 40 | 7.3 | 0.65 | 24 | 7.06 {0.72} | 3.0 | 13.3 | 19.5 |
| | 45 | | | 27 | 7.94 {0.81} | 2.4 | | |
| | 50 | 7.4 | 0.70 | 30 | 8.82 {0.90} | 2.7 | 18.2 | 25 |
| 55 | 33 | | | 9.70 {0.99} | 2.3 | | | |
| 60 | 36 | 10.59 {1.08} | 2.5 | | | | | |
| DVUR - 8 | 20 | 9.3 | 0.65 | 12 | 3.53 {0.36} | 2.4 | 6.8 | 9.5 |
| | 25 | | | 15 | 4.41 {0.45} | 2.9 | | |
| | 30 | 9.4 | 0.70 | 18 | 5.29 {0.54} | 2.7 | 9.1 | 12 |
| | 35 | | | 21 | 6.17 {0.63} | 3.2 | | |
| | 40 | 9.6 | 0.80 | 24 | 7.06 {0.72} | 3.6 | 16.8 | 20 |
| | 45 | | | 27 | 7.94 {0.81} | 2.4 | | |
| | 50 | 9.8 | 0.90 | 30 | 8.82 {0.90} | 2.6 | 28.8 | 31 |
| | 55 | | | 33 | 9.70 {0.99} | 2.9 | | |
| | 60 | 36 | 10.58 {1.08} | 3.2 | | | | |
| | 65 | 39 | 11.47 {1.17} | 2.2 | | | | |
| 70 | 42 | 12.36 {1.26} | 2.3 | | | | | |
| 80 | 48 | 14.12 {1.44} | 2.7 | | | | | |
| DVUR - 10 | 20 | 11.4 | 0.70 | 12 | 3.53 {0.36} | 3.3 | 5.6 | 7 |
| | 25 | 11.5 | 0.75 | 15 | 4.41 {0.45} | 3.1 | 7.5 | 9 |
| | 30 | 11.6 | 0.80 | 18 | 5.29 {0.54} | 2.7 | 10.4 | 12 |
| | 35 | | | 21 | 6.17 {0.63} | 3.2 | | |
| | 40 | 11.8 | 0.90 | 24 | 7.06 {0.72} | 3.6 | 16.2 | 17 |
| | 45 | | | 27 | 7.94 {0.81} | 2.8 | | |
| | 50 | 12.0 | 1.00 | 30 | 8.82 {0.90} | 3.1 | 26.0 | 25 |
| | 55 | | | 33 | 9.70 {0.99} | 3.4 | | |
| | 60 | 36 | 10.58 {1.08} | 3.8 | | | | |
| | 65 | 39 | 11.47 {1.17} | 4.1 | | | | |
| 70 | 42 | 12.60 {1.26} | 2.9 | | | | | |
| 80 | 48 | 14.12 {1.44} | 3.3 | | | | | |
| DVUR - 12 | 25 | 13.6 | 0.80 | 15 | 4.41 {0.45} | 3.6 | 7.2 | 8 |
| | 30 | | | 18 | 5.29 {0.54} | 4.3 | | |
| | 35 | 13.8 | 0.90 | 21 | 6.17 {0.63} | 3.3 | 11.3 | 11.5 |
| | 40 | | | 24 | 7.06 {0.72} | 3.8 | | |
| | 45 | 14.0 | 1.00 | 27 | 7.94 {0.81} | 4.3 | 17.0 | 16 |
| | 50 | | | 30 | 8.82 {0.90} | 3.3 | | |
| | 55 | 14.2 | 1.10 | 33 | 9.70 {0.99} | 3.7 | 25.3 | 22 |
| | 60 | | | 36 | 10.58 {1.08} | 4.0 | | |
| | 65 | 39 | 11.47 {1.17} | 4.3 | | | | |
| | 70 | 42 | 12.35 {1.26} | 3.3 | | | | |
| 80 | 48 | 14.11 {1.44} | 3.8 | | | | | |
| 90 | 54 | 15.88 {1.62} | 4.3 | | | | | |
| DVUR - 16 | 35 | 18.0 | 1.00 | 21 | 6.17 {0.63} | 4.7 | 9.5 | 8.5 |
| | 40 | | | 24 | 7.06 {0.72} | 5.3 | | |
| | 45 | 18.2 | 1.10 | 27 | 7.94 {0.81} | 4.5 | 13.2 | 11 |
| | 50 | | | 30 | 8.82 {0.90} | 5.0 | | |
| | 55 | 18.4 | 1.20 | 33 | 9.70 {0.99} | 5.5 | 18.0 | 14 |
| | 60 | | | 36 | 10.58 {1.08} | 6.0 | | |
| | 65 | 39 | 11.47 {1.17} | 5.0 | | | | |
| | 70 | 42 | 12.35 {1.26} | 5.4 | | | | |
| | 80 | 48 | 14.11 {1.44} | 6.2 | | | | |
| | 90 | 54 | 15.88 {1.62} | 6.9 | | | | |
| 100 | 60 | 17.64 {1.80} | 7.7 | | | | | |

- The values of solid length are for reference only. There may be some variations depending on the lot.
- Both ends are ground for all sizes.
- Usage Count: 1 Million Times

ORDERING GUIDE



DVUR 10 - 40

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