



## Disc spring for critical applications Steel 50 Cr V4 Werkstoffnr. 1.8159 Phosphated 50X18,3X2,0MM

Article number	36450.518.020
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Brand	-
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UBB	950357384425
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UNSPSC	31161811
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EAN	8715492762511
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PKG. of 10	Full Box Only
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### Technical Parameters

Diameter	18.3 mm
d <sub>e</sub>	50
d <sub>i</sub>	18.3
Material	Steel
Material technical	50 Cr V4 Werkstoffnr. 1.8159
Outer diameter	50
Surface treatment	Phosphated

#### Info

Warning:  
electroplating of these products may cause hydrogen embrittlement. Disc springs are mostly used in critical applications with safety first. Similar applications can be found in for example safety torque limiter clutches, hinge stiffeners and applications of constant roll pressure. Because of the right combination c.q. stacking of the disc

### Standards

springs the elasticity and/or deflection can be dosed accurately. The technical specifications of these disc springs meet the highest expectations with reference to the static and dynamic load. They exceed the requirements of DIN 2093. Material group 1:  $t \leq 1,25$  from steel Ck 67. Material group 2:  $1,25 \leq t \leq 6,0$  from steel 50 Cr V4. Material group 3:  $6,0 < t \leq 14,0$  from steel 50 Cr V4. Fatigue fractures can be largely prevented because the disc springs of material group 2 and 3 have machined edges.  $F$  = spring force in Newton at a deflection  $s \approx 0,75 h_0$  ( $h_0 = L_0 - t$ ). For the calculation of disc springs, see DIN 2092. Extensive technical data available on request.

## Technical Specification

di (H12)	18.3
D (mm)	18.3
F	4567
l0	3.5
t	2
Thickness	2

## Technical Drawing

