

REAR SPRING – LOWERED 30MM UPRATED Rover SD1

Part Number: GRS141UR



Spring Type: Round Wire Compression

Designed to: EN 13906-1:2002
Tolerance standard: DIN 2095

Material

EN 10270-1 Drawn
Youngs Mod (E): 29877588 Lbf/in²
Rigidity Mod (G): 11820502 Lbf/in²
Density: 0.2836 Lbf/in³
Unprestress: 0-45 %
Prestress: 45-56 %

End type: Closed and unground 1 end ground
Dead coils: 1.500
Tip thickness: 100.000 %
End fixation: Not available

Design Parameters

Wire diameter: 0.5310 in
Inside diameter: 4.567 in 116mm
Total coils: 6.047 (calculated)
Spring rate: 195.000 Lbf/in
Free length: 9.645 in 245mm

Quality Parts and Accessories for



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Stress Data

	Lower Tensile	Solid	% Tensile
SL	NO DATA		1
SM	163892	61 O	17 U
DM	163892	61 O	17 U
SH	187098	53 P	15 U
DH	187098	53 P	15 U

Operating Data

Length (in)	1
Load (Lbf)	7.952
Deflection (in)	1.693
Stress (Lbf/in ²)	28625
Stress % Solid	29
Load Tol. Grade 1 ± (Lbf)	25.915
Load Tol. Grade 2 ± (Lbf)	41.134
Load Tol. Grade 3 ± (Lbf)	65.815
O.D. Expansion (in)	0.01414

Calculated Data

Solid length	3.742	in
Min. length (static)	4.317	in
Min. length (dynamic)	4.605	in
Solid load	1151.13	Lbf
Solid stress	99811.7	Lbf/in ²
Stress factor	1.141	
Active coils	4.547	
Spring index	9.601	
Helix angle	6.516	Deg
Buckling possible	Not applicable	
Buckling definite	Not applicable	
Spring pitch	1.829	in
Mean coil diameter	5.098	in
Outside diameter	5.629	in
Wire length	97.329	in
Weight/100	611.255	Lb
Natural frequency	3850.74	RPM

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