

Developed for:

A Customer
 ., Alberta ., Canada

Developed by:

Victory Spring Ltd.
 3810 - 51 Ave
 Edmonton, Alberta ., Canada
 Phone: 780-442-4020
 Email: sales@victoryspring.ca

Cylindrical Compression Spring, Round Wire

Part # **Material** ASTM A228 Music Wire

Description



End Type Closed/Not Ground **Condition** Not Preset/Not Peened **Autoadjusted Inactive Coils**
Grade Precision **Buckling Constraints** End fixation not known **Coiling Direction** Optional

Wire Diameter [in]	0.1050	Arbor Diameter [in]	0.7912	Active Coils	7.480
Wire Dia. Tol. (+/-) [in]	0.0010	Coil ID [in]	0.9150	Total Coils	9.480
Wire Length [in]	30.5313	Coil Mean Diameter [in]	1.0200	Dead Coils	0.0000
Wire Weight [lb]	0.07508	Coil OD [in]	1.1250	Pitch [in]	0.3590
Minimum Tensile Strength (MTS) [psi]	268573	Coil Dia. Tol. (+/-) [in]	0.0200	Pitch Angle [deg]	6.3916
Spring Rate [lbf/in]	22.0122	Shaft OD [in]		Free Length Tol. (+/-) [in]	0.1549
Spring Index	9.7143	Minimum Coil ID [in]	0.8950	Allowable Solid Length [in]	
Natural Frequency [Hz]	190	Expanded Coil OD [in]	1.1546	Travel (L1-L2) [in]	
		Hole Diameter [in]		Estimated Cycle Life:	
Wire Available Yes		Next Smaller Wire Size 0.1040		Next Larger Wire Size 0.1060	

	Free	Cycle Load 1	Cycle Load 2	Other Load	At Solid	At Buckle
Load [lbf]	0				41.814	
Load Tolerance (+/-) [lbf]	0					
Length [in]	3.0000				1.1004	
Deflection [in]	0				1.8996	
% of Max. Deflection	0				100	
Corrected Stress [psi]	0				107835	
Corrected % of MTS	0				40.2	
Uncorrected Stress [psi]	0				93820	
Uncorrected % of MTS	0				34.9329	
Expanded Coil OD [in]					1.1546	

Design Status:



