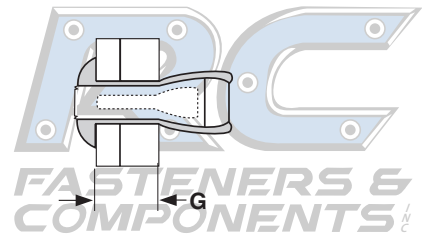
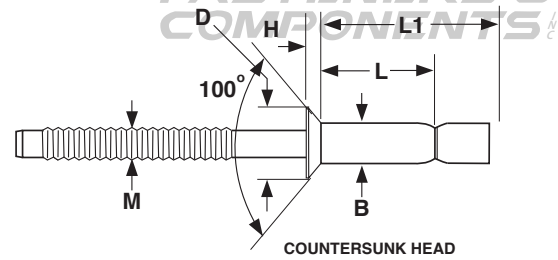
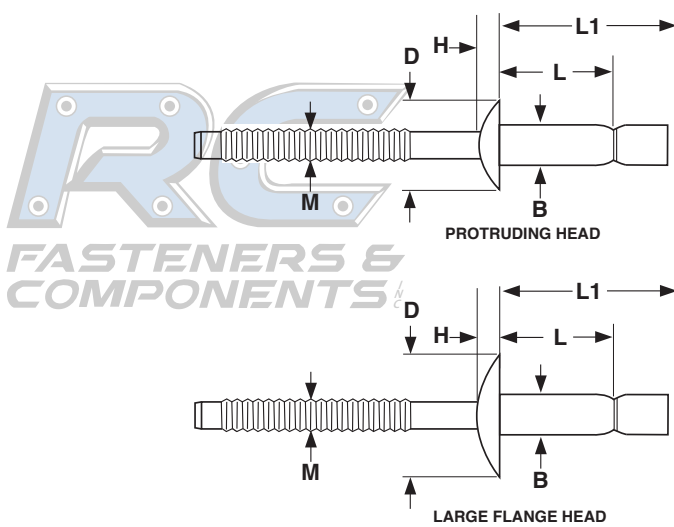


# MONOBOLT®/STRUCTURAL PROTRUDING, LARGE FLANGE & COUNTERSUNK HEADS



MONOBOLT® STRUCTURAL RIVETS													Avdel*	
Nominal Rivet Diameter	Hole Size		Drill Number	M Mandrel Diameter	B Rivet Diameter	Protruding Head		Large Flange Head		Countersunk Head		Grip Range	L Rivet Length	L1 Rivet Length (Incl. Mandrel Head)
	Max	Min				Head Diameter	Head Thickness	Head Diameter	Head Thickness	Head Diameter	Head Thickness			
						Nom	Nom	Nom	Nom	Nom	Nom			
3/16	.201	.191	#11	.118	.187	.375	.085	.515	.100	.335	.070	.062-.270	.416	.727
												.125-.331	.486	.800
												.214-.420	.537	.855
1/4	.276	.261	17/64	.157	.257	.500	.112	-	-	.405	.079	.080-.375	.556	.924
												.125-.475	.660	1.028
												.350-.625	.810	1.174

<b>Description</b>	A two-piece blind fastener consisting of (1) a mandrel with a flared, hollowed-out head and a serrated stem; and (2) a self contained tubular body with a head which has one of several shapes. The protruding head has a dome shape; the large-flange has a similar shape and is 30-40% wider than the protruding head; the countersunk head has a cone shaped bearing surface with a head angle of approximately 100°.
<b>Applications/Advantages</b>	This structural rivet has greater tensile strength, greater shear strength and is more resistant to vibration than a standard break-stem blind rivet. The way the mandrel expands radially when pulling through the rivet body enables it to completely fill holes that are out-of-round, and when the mandrel breaks it leaves a flush finish with the top of the rivet giving it greater weather-resistance than a standard blind rivet.
<b>Material</b>	<i>Aluminum Rivet:</i> 5056 Aluminum; <i>Aluminum Mandrel:</i> 7178 Aluminum <i>Steel Rivet:</i> Low carbon steel; <i>Steel Mandrel:</i> Carbon steel <i>Stainless Steel Rivet:</i> 300 series stainless; <i>Stainless Steel Mandrel:</i> 300 series stainless
<b>Shear Strength</b>	<i>Aluminum Rivet/Aluminum Mandrel:</i> 3/16" Diam- 675 lbs., minimum; 1/4" Diam- 1350 lbs., minimum <i>Steel Rivet/Steel Mandrel:</i> 3/16" Diam- 1500 lbs., minimum; 1/4" Diam- 2750 lbs., minimum <i>Stainless Steel Rivet/Stainless Steel Mandrel:</i> 3/16" Diam- 1450 lbs., minimum; 1/4" Diam- 2650 lbs., minimum
<b>Tensile Strength</b>	<i>Aluminum Rivet/Aluminum Mandrel:</i> 3/16" Diam- 600 lbs., minimum; 1/4" Diam- 1000 lbs., minimum <i>Steel Rivet/Steel Mandrel:</i> 3/16" Diam- 1350 lbs., minimum; 1/4" Diam- 2400 lbs., minimum <i>Stainless Steel Rivet/Stainless Steel Mandrel:</i> 3/16" Diam- 1150 lbs., minimum; 1/4" Diam- 2350 lbs., minimum
<b>Mandrel Push Out</b>	<i>Aluminum Rivet/Aluminum Mandrel:</i> 3/16" Diam- 50 lbs.; 1/4" Diam- 100 lbs. <i>Steel Rivet/Steel Mandrel:</i> 3/16" Diam- 300 lbs.; 1/4" Diam- 500 lbs. <i>Stainless Steel Rivet/Stainless Steel Mandrel:</i> 3/16" Diam- 100 lbs.; 1/4" Diam- 250 lbs.

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