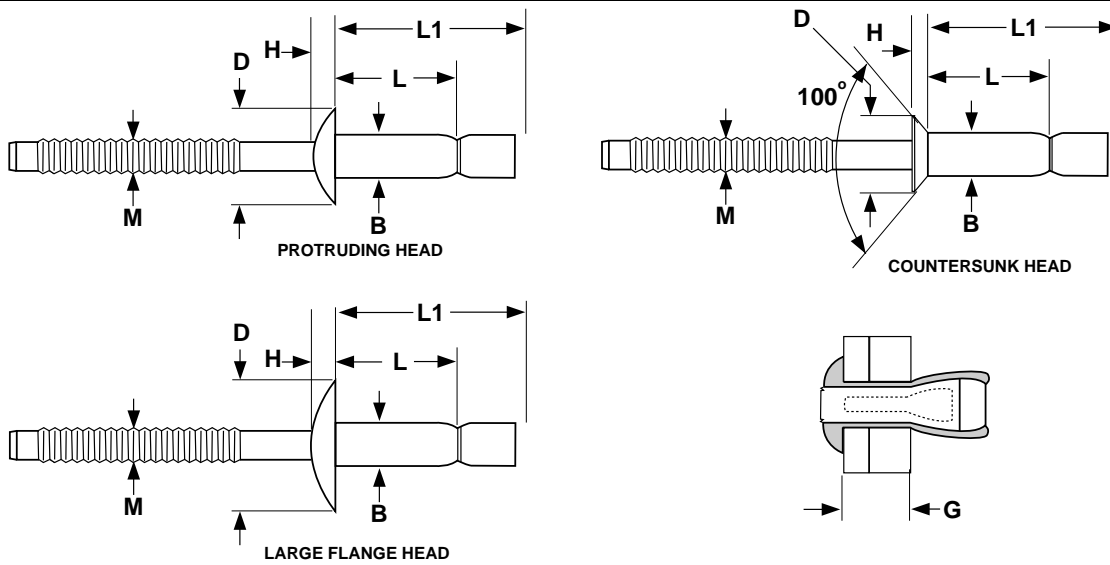


Protruding, Large Flange  
& Countersunk Heads

Monobolt® / Structural

Rivets



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

<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>	<b>Aluminum Rivet:</b> 5056 Aluminum; <b>Aluminum Mandrel:</b> 7178 Aluminum <b>Steel Rivet:</b> Low carbon steel; <b>Steel Mandrel:</b> Carbon steel <b>Stainless Steel Rivet:</b> 300 series stainless; <b>Stainless Steel Mandrel:</b> 300 series stainless
<b>Shear Strength</b>	<b>Aluminum Rivet/Aluminum Mandrel:</b> 3/16" Diam- 675 lbs., minimum; 1/4" Diam- 1350 lbs., minimum <b>Steel Rivet/Steel Mandrel:</b> 3/16" Diam- 1500 lbs., minimum; 1/4" Diam- 2750 lbs., minimum <b>Stainless Steel Rivet/Stainless Steel Mandrel:</b> 3/16" Diam- 1450 lbs., minimum; 1/4" Diam- 2650 lbs., minimum
<b>Tensile Strength</b>	<b>Aluminum Rivet/Aluminum Mandrel:</b> 3/16" Diam- 600 lbs., minimum; 1/4" Diam- 1000 lbs., minimum <b>Steel Rivet/Steel Mandrel:</b> 3/16" Diam- 1350 lbs., minimum; 1/4" Diam- 2400 lbs., minimum <b>Stainless Steel Rivet/Stainless Steel Mandrel:</b> 3/16" Diam- 1150 lbs., minimum; 1/4" Diam- 2350 lbs., minimum
<b>Mandrel Push Out</b>	<b>Aluminum Rivet/Aluminum Mandrel:</b> 3/16" Diam- 50 lbs.; 1/4" Diam- 100 lbs. <b>Steel Rivet/Steel Mandrel:</b> 3/16" Diam- 300 lbs.; 1/4" Diam- 500 lbs. <b>Stainless Steel Rivet/Stainless Steel Mandrel:</b> 3/16" Diam- 100 lbs.; 1/4" Diam- 250 lbs.

\*Avdel Cherry Textron is the original writer of Monobolt® specifications.