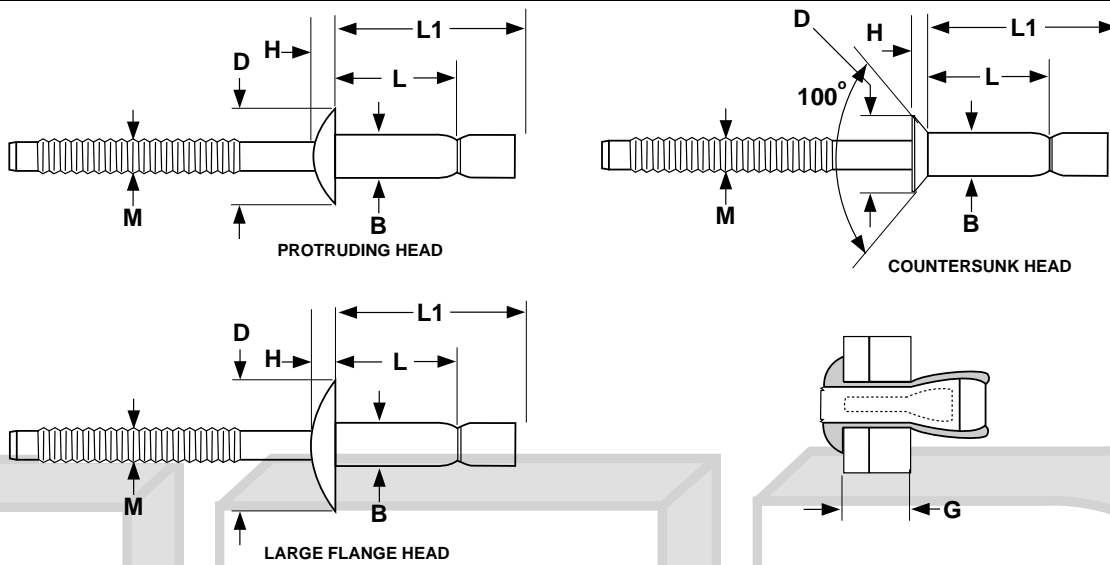


Protruding, Large Flange
& Countersunk Heads

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	Rivet Length	Rivet Length (Incl. Mandrel Head)
	Max	Min		Mandrel Diameter	Rivet Diameter	Head Diameter	Head Thickness	Head Diameter	Head Thickness	Head Diameter	Head Thickness			
				Nom	Nom	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

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

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