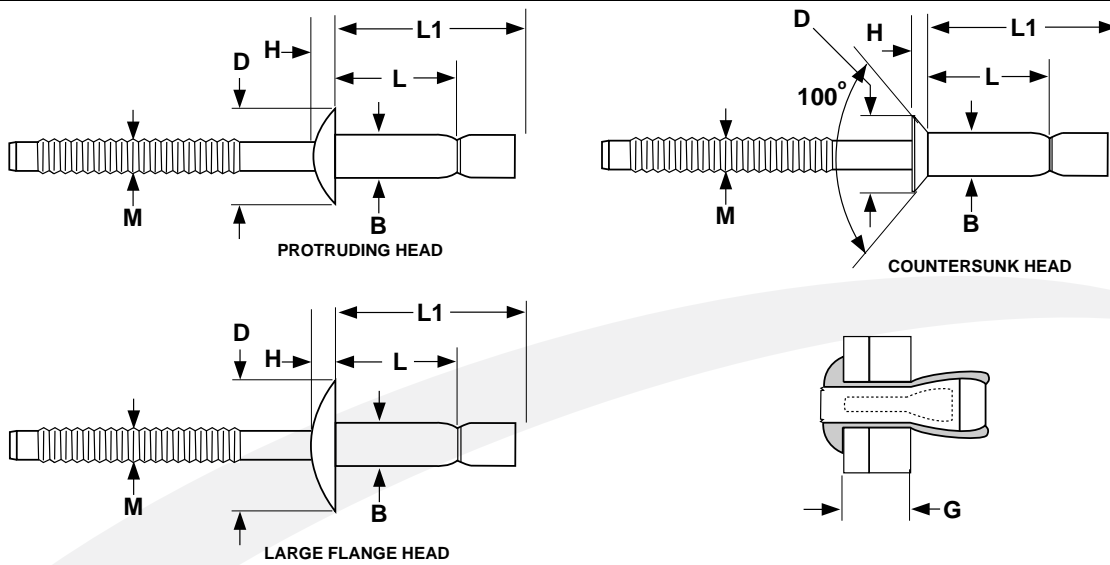


Protruding, Large Flange & Countersunk Heads

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	.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.