



# LARGE FLANGE BREAK-STEM BLIND RIVETS

Nominal Rivet Diameter	Rivet Shank Diameter		Head Diameter		Head Height	Mandrel Diameter	Mandrel Protrusion	Blind Side Protrusion
	Max	Min	Max	Min	Max	Nom	Min	Max
1/8	0.128	0.122	.390	.360	.065	0.076	1.00	L + 0.120
3/16	0.191	0.183	.650	.600	.092	0.114	1.06	L + 0.160

<b>Description</b>	A blind fastener which has a self-contained mandrel which permits the formation of an upset on the blind end of the rivet and expansion of the rivet shank during rivet setting to join the component parts of an assembly. The mandrel is pulled into or against the rivet body, breaking at or near the junction of the mandrel shank and its upset end. The large flange head has twice the under-head bearing surface of comparably sized dome head rivets.
<b>Applications/ Advantages</b>	Large flange rivets are preferred where extra brittle or soft materials are being assembled to a rigid surface.
<b>Material</b>	Rivet: Aluminum--Aluminum Alloy 5050, 5052, 5056 or 5154. Steel-- Low carbon steel, plated zinc. Mandrel: <i>Aluminum</i> -- Aluminum Alloy 7178, 5056 or 2024. <i>Steel</i> -- Carbon steel 1006 or equivalent. May be furnished plain or with a protective coating, at the option of the manufacturer.
<b>Shear Strength (Min)</b>	Aluminum Rivet/Aluminum Mandrel-- 1/8: 120 lbs.; 3/16: 260 lbs. Aluminum Rivet/Steel Mandrel-- 1/8: 170 lbs.; 3/16: 380 lbs. Steel Rivet/Steel Mandrel-- 3/16: 540 lbs.
<b>Tensile Strength (Min)</b>	Aluminum Rivet/Aluminum Mandrel-- 1/8: 150 lbs.; 3/16: 320 lbs. Aluminum Rivet/Steel Mandrel-- 1/8: 220 lbs.; 3/16: 500 lbs. Steel Rivet/Steel Mandrel-- 3/16: 680 lbs.
<b>Mandrel Break Load</b>	Aluminum Rivet/Aluminum Mandrel-- 1/8: 400 lbs. max, 250 lbs. min; 3/16: 825 lbs. max, 625 lbs. min. Aluminum Rivet/Steel Mandrel-- 1/8: 600 lbs. max, 400 lbs. min; 3/16: 1050 lbs. max, 750 lbs. min. Steel Rivet/Steel Mandrel-- 3/16: 1450 lbs. max, 1150 lbs. min.