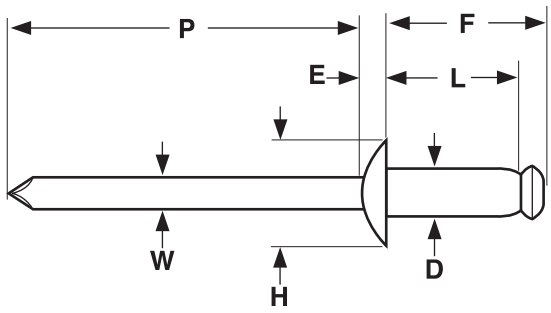
Aluminum Rivet/ Steel Mandrel

Dome Head Blind Rivet



Steel Body/Steel Mandrel Dome Head Break-Stem Blind Rivets

SAE J-1200

Nominal Rivet Diameter	D		H		E	W	P	F	Ultimate Shear Load	Ultimate Tensile Load	Mandrel Break Load	
	Rivet Shank Diameter		Head Diameter		Head Height	Mandrel Diameter	Mandrel Protrusion	Blind Side Protrusion				
	Max	Min	Max	Min	Max	Nom	Min	Max	Min, lb.	Min, lb.	Max	Min
3/32	0.096	0.090	0.198	0.178	0.032	0.057	1.00	L + 0.100	90	120	275	175
1/8	0.128	0.122	0.262	0.238	0.040	0.076	1.00	L + 0.120	170	220	600	400
5/32	0.159	0.153	0.328	0.296	0.050	0.095	1.06	L + 0.140	260	350	850	600
3/16	0.191	0.183	0.394	0.356	0.060	0.114	1.06	L + 0.160	380	500	1050	750
1/4	0.255	0.246	0.525	0.475	0.080	0.151	1.25	L + 0.180	700	920	1850	1450

Description	An aluminum blind fastener which has a self-contained steel 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 steel mandrel is pulled into or against the rivet body, breaking at or near the junction of the mandrel shank and its upset end. The head of the body is slightly rounded and twice as wide as the body diameter.
Applications/ Advantages	Dome head is the most commonly specified head style because of its low profile and neat, finished appearance. The steel mandrel gives this style rivet greater tensile and shear values than aluminum rivets with aluminum mandrels. They should be used when fastening materials with similar mechanical and physical properties.
Material	***Rivet:*** Aluminum Alloy 5056 or 5154 or equivalent alloy. Rivets have no additional finish except for sizes #42 & 44 which are also available painted white. Note: Some manufacturers use aluminum alloy 5052 which is acceptable but will lower the shear, tensile and mandrel break load standards to those of aluminum rivets with aluminum mandrels. ***Mandrel:*** Carbon steel 1006 or equivalent. May be furnished plain or with a protective coating, at the option of the manufacturer.
Shear Strength	Rivets shall have ultimate shear loads not less than the minimum ultimate shear loads specified for the applicable size given in the above table.
Tensile Strength	Rivets shall have ultimate tensile loads not less than the minimum ultimate tensile loads specified for the applicable size given in the above table.
Mandrel Break Load	While the rivet is being set, the axially applied load necessary to break the mandrel shall be within the limits specified for the applicable rivet size given in the above table.

Aluminum Rivet/ Steel Mandrel

Part Number Comparison - Aluminum Rivet/Steel Mandrel, Dome Head

Fastener Superstore	Huck/ Automatic	Pop®	Marson/ Creative	Star	Celus®	Cherry	Gesipa®
218344	-	-	-	-	-	-	-
218359	ABS32	AD32BS	AB3-2	-	-	BSP-32	GSMD32A
218373	ABS34	AD34BS	AB3-4	-	-	BSP-34	GSMD34A
218380	ABS41	AD41BS	AB4-1	4-1ASD	-	BSP-41	GSMD41A
218393	ABS42	AD42BS	AB4-2	4-2ASD	A/S 42D	BSP-42	GSMD42A
218414	ABS43	AD43BS	AB4-3	4-3ASD	A/S 43D	BSP-43	GSMD43A
218429	ABS44	AD44BS	AB4-4	4-4ASD	A/S 44D	BSP-44	GSMD44A
218445	ABS45	AD45BS	AB4-5	4-5ASD	-	BSP-45	GSMD45A
218454	ABS46	AD46BS	AB4-6	4-6ASD	A/S 46D	BSP-46	GSMD46A
218474	ABS48	AD48BS	AB4-8	4-8ASD	-	BSP-48	GSMD48A
373258	ABS410	AD410BS	AB4-10	-	A/S 410D	BSP-410	-
218537	ABS52	AD52BS	AB5-2	5-2ASD	A/S 52D	BSP-52	GSMD52A
218544	ABS53	AD53BS	AB5-3	5-3ASD	-	-	GSMD53A
218553	ABS54	AD54BS	AB5-4	5-4ASD	A/S 54D	BSP-54	GSMD54A
218562	ABS56	AD56BS	AB5-6	5-6ASD	A/S 56D	BSP-56	GSMD56A
218571	ABS58	AD58BS	AB5-8	-	-	BSP-58	GSMD58A
218498	ABS510	-	-	-	-	BSP-510	-
218508	-	-	-	-	-	-	-
218528	-	-	-	-	-	-	-
218645	ABS62	AD62BS	AB6-2	6-2ASD	A/S 62D	BSP-62	GSMD62A
322959	-	-	-	-	-	-	-
218678	ABS64	AD64BS	AB6-4	6-4ASD	A/S 64D	BSP-64	GSMD64A
218698	ABS66	AD66BS	AB6-6	6-6ASD	A/S 66D	BSP-66	GSMD66A
218715	ABS68	AD68BS	AB6-8	6-8ASD	A/S 68D	BSP-68	GSMD68A
218582	ABS610	AD610BS	AB6-10	6-10ASD	A/S610D	BSP-610	GSMD610A
218605	ABS612	AD612BS	AB6-12	6-12ASD	-	BSP-612	GSMD612A
218618	ABS614	AD614BS	-	-	-	BSP-614	GSMD614A
218629	ABS616	AD616BS	AB6-16	-	-	BSP-616	GSMD616A
218632	ABS618	-	-	-	-	-	-
218652	-	-	-	-	-	-	-
218669	-	-	-	-	-	-	-
373139	-	-	-	-	-	BSP-82	-
218742	ABS84	AD84BS	AB8-4	-	-	BSP-84	GSMD84A
218757	ABS86	AD86BS	AB8-6	-	-	BSP-86	GSMD86A
218764	ABS88	AD88BS	AB8-8	-	-	BSP-88	GSMD88A
218733	ABS810	AD810BS	AB8-10	-	-	BSP-810	GSMD810A
322968	ABS812	AD812BS	AB8-12	-	-	BSP-812	GSMD812A
373120	ABS814	-	-	-	A/S 814D	BSP-814	-
322979	-	AD816BS	-	-	-	BSP-816	GSMD816A