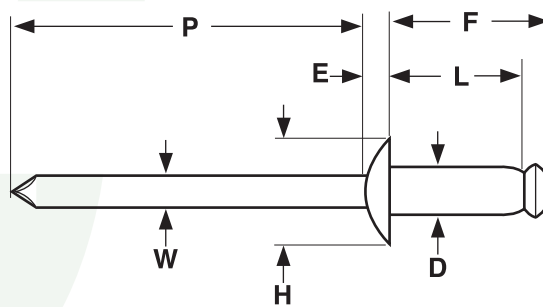


## RIVETS

## BLIND, DOME HEAD

Steel Rivet  
Steel Mandrel

## STEEL BODY/STEEL MANDREL DOME HEAD BREAK-STEM BLIND RIVETS

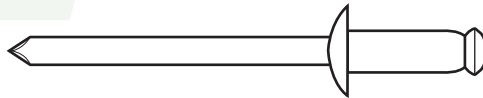
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Nominal Rivet Diameter	D	H	E	W	P	F	Ultimate Shear Load	Ultimate Tensile Load	Mandrel Break Load	
	Rivet Body Diameter	Head Diameter	Head Height	Mandrel Diameter	Mandrel Protrusion	Blind Side Protrusion				
	Ref	Ref	Max	Nom	Min	Max	Min, lb.	Min, lb.	Max	Min
3/32	0.092	0.198	0.028	0.057	1.00	L + 0.100	130	170	360	260
1/8	0.122	0.262	0.036	0.076	1.00	L + 0.120	260	310	800	600
5/32	0.153	0.328	0.043	0.095	1.04	L + 0.140	370	470	1000	750
3/16	0.183	0.394	0.053	0.114	1.04	L + 0.160	540	680	1450	1150
1/4	0.249	0.525	0.069	0.151	1.04	L + 0.180	1000	1240	2350	1950

<b>Description</b>	A steel 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.
<b>Applications/Advantages</b>	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.
<b>Material</b>	<i>Rivet:</i> Low carbon steel. Rivets have no additional finish except for the #42 size which is also available painted white. <i>Mandrel:</i> Carbon steel 1006 or equivalent. May be furnished plain or with a protective coating, at the option of the manufacturer.
<b>Shear Strength</b>	Rivets shall have ultimate shear loads not less than the minimum ultimate shear loads specified for the applicable size given in the above table.
<b>Tensile Strength</b>	Rivets shall have ultimate tensile loads not less than the minimum ultimate tensile loads specified for the applicable size given in the above table.
<b>Mandrel Break Load</b>	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.

# Steel Rivet Steel Mandrel

# BLIND, DOME HEAD



PART NUMBER COMPARISON - DOME HEAD STEEL RIVET/STEEL MANDREL							
Catalog Part Number	Huck-Automatic	Pop®	Marson/Creative	Star	Celus®	Cherry	Gesipa®
SDS32	SBS32	SD32BS	SB3-2	-	S/S32D	SSP-32	GSMD32S
SDS34	SBS34	SD34BS	SB3-4	-	S/S34D	SSP-34	GSMD34S
SDS41	SBS41	SD41BS	SB4-1	4-1SSD	S/S41D	SSP-41	GSMD41S
SDS42	SBS42	SD42BS	SB4-2	4-2SSD	S/S42D	SSP-42	GSMD42S
SDS43	SBS43	SD43BS	SB4-3	4-3SSD	S/S43D	SSP-43	GSMD43S
SDS44	SBS44	SD44BS	SB4-4	4-4SSD	S/S44D	SSP-44	GSMD44S
SDS45	SBS45	SD45BS	SB4-5	4-5SSD	S/S45D	SSP-45	GSMD45S
SDS46	SBS46	SD46BS	SB4-6	4-6SSD	S/S46D	SSP-46	GSMD46S
SDS48	SBS48	SD48BS	SB4-8	4-8SSD	S/S48D	SSP-48	GSMD48S
SDS410	SBS410	-	SB4-10	-	S/S410D	-	-
SDS52	SBS52	SD52BS	SB5-2	5-2SSD	S/S52D	SSP-52	GSMD52S
SDS53	SBS53	SD53BS	SB5-3	5-3SSD	S/S53D	-	GSMD53S
SDS54	SBS54	SD54BS	SB5-4	5-4SSD	S/S54D	SSP-54	GSMD54S
SDS56	SBS56	SD56BS	SB5-6	5-6SSD	S/S56D	SSP-56	GSMD56S
SDS58	SBS58	-	SB5-8	5-8SSD	S/S58D	SSP-58	GSMD58S
SDS510	SBS510	-	-	-	S/S510D	SSP-510	-
SDS62	SBS62	SD62BS	SB6-2	6-2SSD	S/S62D	SSP-62	GSMD62S
SDS63	SBS63	-	-	-	S/S63D	-	-
SDS64	SBS64	SD64BS	SB6-4	6-4SSD	S/S64D	SSP-64	GSMD64S
SDS66	SBS66	SD66BS	SB6-6	6-6SSD	S/S66D	SSP-66	GSMD66S
SDS68	SBS68	SD68BS	SB6-8	6-8SSD	S/S68D	SSP-68	GSMD68S
SDS610	SBS610	SD610BS	SB6-10	6-10SSD	S/S610D	SSP-610	GSMD610S
SDS612	SBS612	SD612BS	SB6-12	-	S/S612D	SSP-612	GSMD612S
SDS614	SBS614	-	-	-	S/S614D	SSP-614	-
SDS616	-	SD616BS	SB6-16	-	S/S616D	SSP-616	GSMD616S
SDS82	-	-	-	-	-	SSP-82	-
SDS84	SBS84	SD84BS	SB8-4	-	S/S 84D	SSP-84	GSMD84S
SDS86	SBS86	SD86BS	SB8-6	-	S/S 86D	SSP-86	GSMD86S
SDS88	SBS88	SD88BS	SB8-8	-	S/S 88D	SSP-88	GSMD88S
SDS810	SBS810	SD810BS	SB8-10	-	S/S810D	SSP-810	GSMD810S
SDS812	SBS812	SD812BS	SB8-12	-	S/S812D	SSP-812	GSMD812S

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Gesipa® is a registered trademark of Gesipa Fasteners USA, Inc.

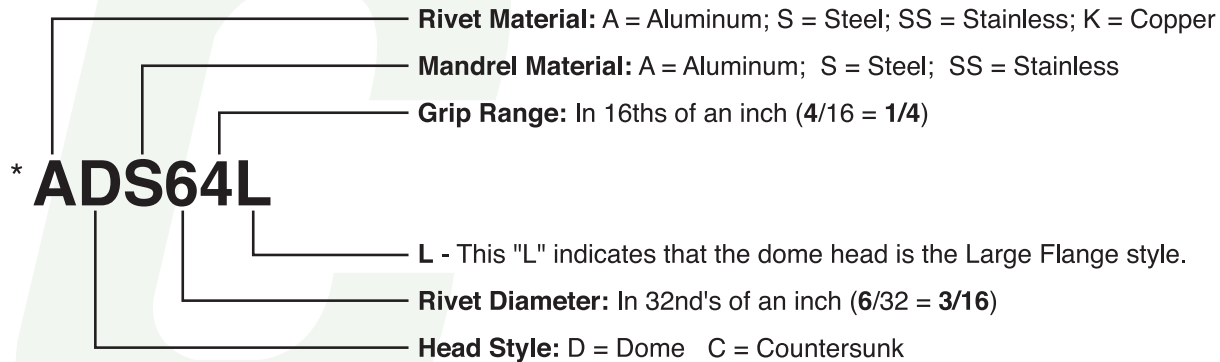
Pop® is a registered trademark of Stanley Engineered Fastening.

Kanebridge's rivets are not necessarily manufactured by or connected with the producers of Gesipa® or Pop® rivets.

## RIVETS

# DOME & LARGE FLANGE

## Part Number Key & Application Data



\*Kanebridge Part Number

### Notes on Rivet Selection

**Strength** - The tensile and shear strengths required for an application must be determined and a rivet selected that meets those requirements.

**Materials** - Choose a rivet that is made of a metal with similar mechanical and physical properties as the materials being joined. This is especially critical in assemblies where higher temperatures and/or corrosive elements are present. Metal compatibility helps reduce the risks of galvanic corrosion and material fatigue.

**Grip Range** - Measure the total thickness of the materials being fastened. This is known as the "rivet grip". The grip ranges of the most commonly available rivets are listed in the table below. Sufficient rivet length is necessary for proper formation of the secondary head on the blind side of the assembly. Multi-grip rivets have wider grip ranges than standard break-stem blind rivets.

### APPLICATION DATA FOR STANDARD BREAK-STEM BLIND RIVETS -- PROTRUDING HEADS

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Rivet Number	Grip Range	Body Length	Recommended Hole Size		Drill Size	Rivet Number	Grip Range	Body Length	Recommended Hole Size		Drill Size
		Ref	Max	Ref				Max			
31	.020-.062	.187	0.100		#41	62	.031-.125	.300	0.196		#11
32	.031-.125	.225									
33	.087-.187	.312									
34	.126-.250	.375									
40	.010-.030	.150	0.133		#30	66	.251-.375	.550			
41	.031-.062	.188									
42	.063-.125	.250									
43	.126-.187	.313									
44	.188-.250	.375									
45	.251-.312	.438									
46	.313-.375	.500									
48	.376-.500	.625									
410	.501-.625	.750	0.164		#20	68	.376-.500	.675			
52	.031-.125	.275									
53	.126-.187	.338									
54	.188-.250	.400									
56	.251-.375	.525									
58	.376-.500	.650									
510	.501-.625	.800									
512	.626-.750	.925									
516	.876-1.000	1.175									
									82	.031-.125	.350
						84	.126-.250	.475			
						86	.251-.375	.600			
						88	.376-.500	.725			
						810	.501-.625	.850			
						812	.626-.750	.975			
						814	.751-.875	1.100			
						816	.876-1.000	1.225			