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SHIVAM ENTERPRISES



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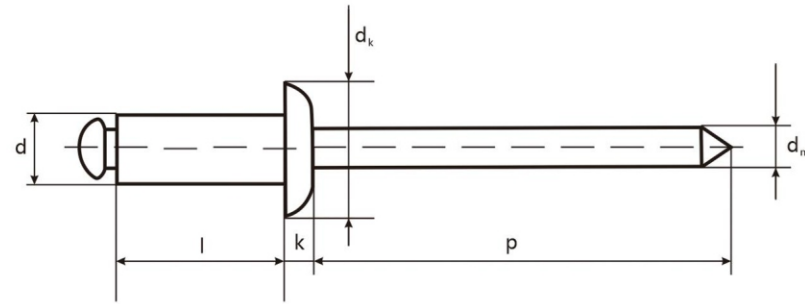
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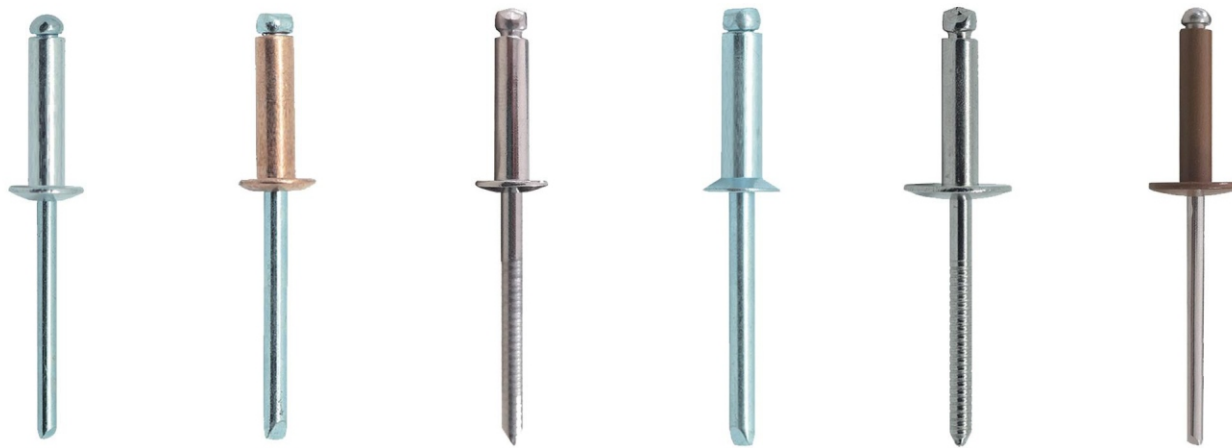
Other Rivets



Open End Blind Rivets



The most common type of blind rivet, which are a good solution to fasten components with a properly prepared hole and well identified material thickness. They are offered in a variety of materials which provide specific benefits such as joint strength, material compatibility, corrosion resistance and cost.



Applications

- Building
- Construction
- Automotive
- Furniture
- Leather Production

Materials

- Aluminum/Steel
- Steel/Steel
- Stainless Steel/Stainless Steel
- Aluminum/Aluminum
- Aluminum/Stainless Steel

d	l	d _k	k	d _m	p _{min}	Tensile	Shear
2.4 ^{+0.08} _{-0.1}	3						
	4						
	6	Dome	Dome			ALU/ST	
	8	5.0 ^{+0.0} _{-0.7}	0.55 ^{+0.15} _{-0.15}	1.55 ^{+0.05} _{-0.05}	25	350N	300N
	10					ST/ST	
	12					700N	500N
	16						
3.2 ^{+0.08} _{-0.1}	4					ALU/ST	
	6	6.5 ^{+0.0} _{-0.7}	0.8 ^{+0.2} _{-0.2}			700N	500N
	8						
	10	CSK	CSK			ST/ST	
	12	6.0 ^{+0.0} _{-0.4}	0.9 ^{+0.05} _{-0.05}	1.8 ^{+0.05} _{-0.05}	27	1200N	1100N
	14						
	16						
4.0 ^{+0.08} _{-0.1}	18	Flange	Flange			SS/SS	
	20	9.4 ^{+0.4} _{-0.4}	1.8 ^{+0.2} _{-0.2}			2500N	1900N
	25						
	6					ALU/ST	
	8	8.0 ^{+0.0} _{-1.0}	1.0 ^{+0.3} _{-0.3}			1200N	850N
	10						
	12	CSK	CSK			ST/ST	
4.8 ^{+0.08} _{-0.1}	14	7.5 ^{+0.0} _{-0.5}	1.0 ^{+0.05} _{-0.05}	2.1 ^{+0.1} _{-0.1}	27	2200N	1700N
	16						
	18	Flange	Flange			SS/SS	
	20	12.0 ^{+0.5} _{-0.5}	2.2 ^{+0.0} _{-0.4}			3500N	2700N
	25						
	8					ALU/ST	
	10	9.5 ^{+0.0} _{-1.0}	1.1 ^{+0.3} _{-0.3}			1700N	1200N
6.4 ^{+0.08} _{-0.15}	12						
	14	CSK	CSK			ST/ST	
	16	9.0 ^{+0.0} _{-0.5}	1.1 ^{+0.1} _{-0.1}	2.7 ^{+0.1} _{-0.1}	27	3100N	2900N
	18						
	20	Flange	Flange			SS/SS	
	22	15 ^{+1.0} _{-1.0}	2.3 ^{+0.2} _{-0.2}			5000N	4000N
	25						
6.4 ^{+0.08} _{-0.15}	28						
	30						
	10					ALU/ST	
	12	13 ^{+0.0} _{-1.5}	1.8 ^{+0.4} _{-0.4}			3100N	2200N
	14						
	16	CSK	CSK			ST/ST	
	18	12 ^{+0.0} _{-0.7}	1.6 ^{+0.1} _{-0.1}	3.8 ^{+0.1} _{-0.1}	28	5700N	4900N
6.4 ^{+0.08} _{-0.15}	20						
	22						
	25	Flange	Flange			SS/SS	
	28	18 ^{+1.0} _{-1.0}	3.0 ^{+0.2} _{-0.2}			9300N	7500N
	30						
	35						

Closed End Blind Rivets

A type of tubular rivet with a mandrel through the center, which are commonly used to secure and completely seal the hole of a joint. Closed end blind rivets can prevent the passage of vapor or liquid through the set rivet and provide 100% mandrel retention.

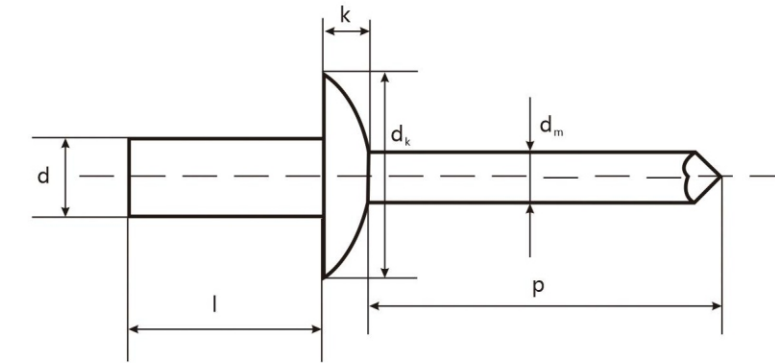


Applications

- Containers
- Coach Work
- Air Conditioning
- Ship Building Industry

Materials

- Aluminum/Steel
- Steel/Steel
- Stainless Steel/Stainless Steel
- Aluminum/Aluminum
- Aluminum/Stainless Steel
- Cooper/Steel



d	l	d _k	k	d _m	P _{Min}	Tensile	Shear	
3.2 ^{+0.08} _{-0.15}	6	6.0 ^{+0.2} _{-0.2}	1.2 ^{+0.1} _{-0.1}	1.75 ^{+0.1} _{-0.1}	25	ALU/ST		
	8					1450N	1100N	
	10					SS/SS		
	12.5					2200N	2000N	
4.0 ^{+0.08} _{-0.15}	6	8.0 ^{+0.4} _{-0.4}	1.5 ^{+0.2} _{-0.2}	2.15 ^{+0.1} _{-0.1}	27	ALU/ST		
	8					2000N	1600N	
	10							
	12.5							
	14.5					SS/SS	3500N	3000N
	16							
	18							
	21							
	25							
4.8 ^{+0.08} _{-0.15}	8	9.6 ^{+0.4} _{-0.4}	1.8 ^{+0.2} _{-0.2}	2.6 ^{+0.2} _{-0.2}	27	ALU/ST		
	10					3100N	2200N	
	12.5							
	14.5							
	16					SS/SS	4400N	4000N
	18							
	21							
	25							
6.4 ^{+0.08} _{-0.15}	12.5	12 ^{+0.4} _{-0.4}	2.5 ^{+0.2} _{-0.2}	3.5 ^{+0.2} _{-0.2}	27	ALU/ST		
	14.5					4900N	4000N	
	16					SS/SS	8000N	6000N
	18							
	21							
	25							



Multigrip Blind Rivets

Designed for applications where materials of different thickness would generally require rivets in multiple sizes. Multi-grip rivets feature a wide grip range, so one rivet can often take the place of 2 or 3 rivets thus reducing inventory and guess work. They also accommodate oversized holes and are vibration and moisture resistant.

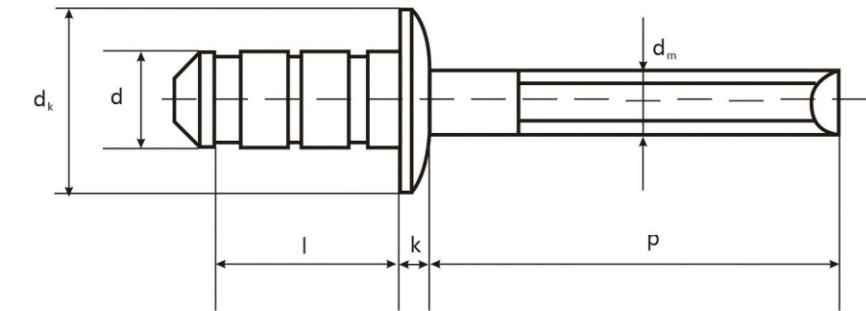


Applications

- Automotive
- Furniture Industry
- Plastics

Materials

- Aluminum/Steel
- Steel/Steel
- Stainless Steel/Stainless Steel
- Aluminum/Aluminum
- Aluminum/Stainless Steel

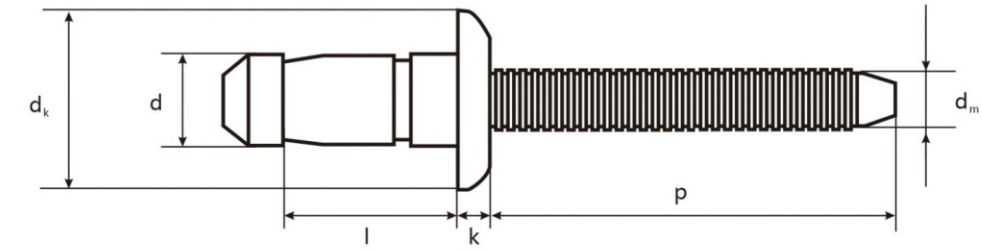


d	l	Grip Range	d _k	k	d _m	p _{min}	Tensile	Shear
3.2 ^{+0.08}	6	1.0-3.5	5.8 ^{+0.3}	1.2 ^{+0.1}	1.8 ^{+0.05}	28 ^{+1.0}	ALU/ST	
	8	1.5-5.0					850N	650N
	10	2.5-6.0					ST/ST	
	12	3.0-8.0					1200N	1000N
	14	3.5-9.5					SS/SS	
	16	4.0-11.5					2000N	1700N
4.0 ^{+0.08}	8	1.0-3.5	8.0 ^{+0.3}	1.6 ^{+0.1}	2.15 ^{+0.05}	2.8 ^{+1.0}	ALU/ST	
	10	1.5-5.0					1500N	950N
	12	2.0-7.0					ST/ST	
	14	2.5-9.0					2000N	1500N
	16	3.5-11.0					SS/SS	
	18	5.5-12.5					3400N	2700N
4.8 ^{+0.08}	20	7.5-14.5	9.5 ^{+0.3}	1.8 ^{+0.2}	2.65 ^{+0.05}	2.8 ^{+1.0}	ALU/ST	
	10	1.5-4.5					2900N	2400N
	12	2.0-6.5					ST/ST	
	14	3.0-8.5					3600N	3300N
	16	4.0-10.5					SS/SS	
	18	5.0-12.5					4500N	4000N
6.4 ^{+0.08}	20	7.0-14.5	12.5 ^{+0.5}	2.5 ^{+0.2}	3.65 ^{+0.05}	30 ^{+1.0}	ALU/ST	
	22	9.0-16.5					4000N	3800N
	25	11.0-19.0					ST/ST	
	27	13.0-21.0					4000N	3800N
	30	16.0-24.0					SS/SS	
	12	1.0-6.0					7500N	6000N



Unigrip Blind Rivets

Ideal choice for jointing flexible materials such as metal sheets and plastic materials, which have many benefits like superior mechanical properties, high-strength and vibration-resistance joint, deformed dumbbell-shape tail to decentralize the surface pressure of riveted components.



d	l	Grip Range	d _k	k	d _m	p _{min}	Tensile	Shear
3.2	7	1.0-3.0	6.0 ^{+0.2}	1.3 ^{+0.1}	2.0 ^{+0.05}	30 ^{+1.0}	ST/ST 1300N 1700N	
	10	3.0-5.0					SS/SS 1600N 2000N	
	12	5.0-7.0						
4.0	8.00	1.0-3.0	7.8 ^{+0.3}	1.6 ^{+0.1}	2.5 ^{+0.05}	30 ^{+1.0}	ST/ST 2800N 3500N	
	10.00	3.0-5.0					SS/SS 4000N 5200N	
	12.00	5.0-7.0						
4.8	10	1.5-3.5	9.3 ^{+0.3}	2.0 ^{+0.1}	3.1 ^{+0.05}	30 ^{+1.0}	ST/ST 3800N 4200N	
	12	3.5-6.0					SS/SS 4500N 5500N	
	14	6.0-8.5						
	16	8.5-10.0						
6.4	12	1.5-4.5	13 ^{+0.4}	2.5 ^{+0.2}	4.15 ^{+0.05}	33 ^{+1.0}	ST/ST 5400N 8000N	
	14	3.0-6.5					SS/SS 8300N 13700N	
	16	5.0-8.5						
	19	8.0-11.5						

Applications

- Automotive
- Truck Building
- Construction
- Coach Work

Materials

- Steel/Steel
- Stainless Steel/Stainless Steel



Hemlock Rivets

Hemlock Rivets offer high strength with a large blind-side footprint for use in thin sheet or brittle material applications. High clamp-up and excellent mandrel retention ensures a vibration resistant joint.

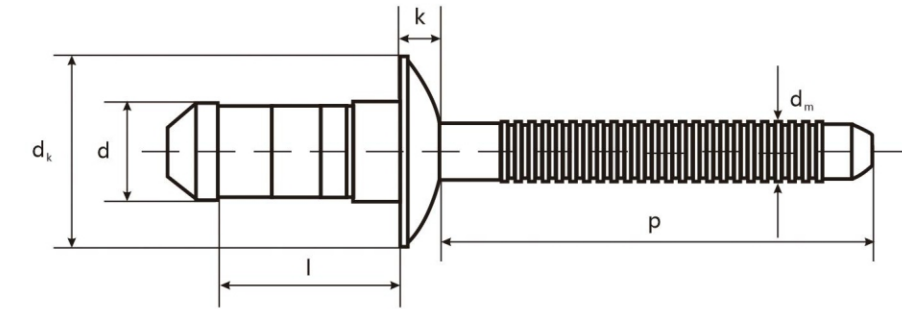


Applications

- Automotive
- Warehouse racking
- Ladders

Materials

- Steel/Steel
- Stainless Steel/Stainless Steel
- Aluminum / Aluminum



d	l	Grip Range	d _k	k	d _m	p _{min}	Tensile
4.8 ^{+0.08} _{-0.15}	9	1.5-3.5	Dome	Dome	3.1 ^{+0.1} _{-0.1}	30mm	ST/ST 3500N
	11.5	3.5-6.0	9.5 ^{+0.30} _{-0.30}	2.4 ^{+0.2} _{-0.2}			
	14	6.0-8.5	Flange	Flange			SS/SS 4900N
	16.5	8.5-11	14 ^{+0.30} _{-0.30}	2.8 ^{+0.2} _{-0.2}			
	19	11.0-13.5					
6.4 ^{+0.08} _{-0.15}	10.5	2.0-4.5	Dome	Dome	4.0 ^{+0.1} _{-0.1}	30mm	ST/ST 6400N
	12.5	3.5-6.5	13 ^{+0.35} _{-0.35}	3.2 ^{+0.2} _{-0.2}			
	14.5	5.5-8.5					
	16.5	7.5-10.5	CSK	CSK			SS/SS 8300N
	18.5	9.5-12.5	10 ^{+0.2} _{-0.2}	2.4 ^{+0.1} _{-0.1}			
	20.5	11.0-14.0					AL/AL 2800N
	22.5	13.0-16.0	Flange	Flange			
	24.5	14.5-18.0	16 ^{+0.4} _{-0.4}	3.6 ^{+0.2} _{-0.2}			
7.8 ^{+0.08} _{-0.15}	26.5	16.5-20.0			5.1 ^{+0.1} _{-0.1}	30mm	ST/ST 9100N
	13.5	4.0-7.0	Dome	Dome			
	16.5	7.0-10.0	17.5 ^{+0.5} _{-0.5}	4.0 ^{+0.2} _{-0.2}			SS/SS 12500N
	19.5	9.0-12.0					
	22.5	12.0-15.0					



Trifold Rivets

Designed for the assembly of soft, brittle or thin materials. The trifold formation on the blind side applies the rivet's clamping force over an increased area, reducing the risk of cracking the parent material and compensating for irregular or oversized holes.

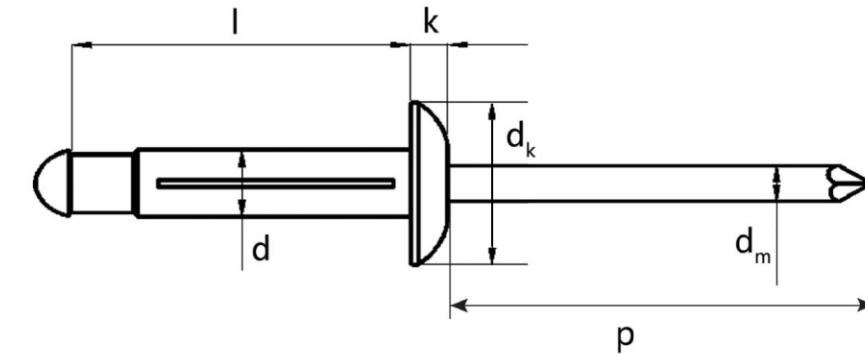


Applications

- Plastic
- Soft Material
- Insulation
- Plaster Boards

Materials

- Body: 5052 Aluminum
- Mandrel: 5056 Aluminum



Dia	l	Grip Range	d	d _k	k	d _m	p _{min}	Tensile	Shear
3.2	14	0.5-4.0	3.1 ^{+0.1} _{-0.1}	Dome	Dome	1.9 ^{+0.1} _{-0.1}	27	400N	500N
	16	0.5-6.0		6.4 ^{+0.4} _{-0.4}	1.1 ^{+0.2} _{-0.2}				
	18	1.0-8.0		Flange	Flange				
	20	2.0-10.5		9.8 ^{+0.3} _{-0.3}	1.5 ^{+0.2} _{-0.2}				
4.0	14	1.0-3.0	4.0 ^{+0.1} _{-0.1}	Dome	Dome	2.3 ^{+0.15} _{-0.15}	27	700N	600N
	16	1.0-5.0		8.0 ^{+0.4} _{-0.4}	1.5 ^{+0.2} _{-0.2}				
	18.8	1.5-7.5		Flange	Flange				
	20.8	1.5-9.5		12 ^{+0.5} _{-0.5}	1.8 ^{+0.2} _{-0.2}				
	25	2.0-13.0							
4.8	16	1.0-4.0	4.8 ^{+0.1} _{-0.1}	Dome	Dome	2.85 ^{+0.15} _{-0.15}	27	1100N	800N
	18	1.0-6.0		9.6 ^{+0.5} _{-0.5}	1.8 ^{+0.2} _{-0.2}				
	20.5	1.0-9.0		Flange	Flange				
	25	1.5-12.5		16 ^{+0.5} _{-0.5}	2.1 ^{+0.4} _{-0.4}				
5.0	16	1.0-4.0	4.9 ^{+0.1} _{-0.1}	Dome	Dome	2.85 ^{+0.15} _{-0.15}	27	1300N	1100N
	18	1.0-6.0		9.6 ^{+0.5} _{-0.5}	1.8 ^{+0.2} _{-0.2}				
	20	1.0-8.5		Flange	Flange				
	25	1.5-12.5		16 ^{+0.5} _{-0.5}	2.1 ^{+0.3} _{-0.3}				
6.4	23	1.5-6.5	6.4 ^{+0.1} _{-0.1}	Dome	Dome	3.80 ^{+0.15} _{-0.15}	31	2500N	2000N
	26	5.0-9.5		13.6 ^{+0.5} _{-0.5}	3.0 ^{+0.3} _{-0.3}				
	30	7.5-13.5							



Waterproof Bulbtite Rivets

When installed, the body of Bulbtite rivets folds into three separate legs, forming a large bearing surface on the blindside. This bearing head evenly distributes rivet's high clamp force in soft, thin, or brittle materials, while providing high pull-through resistance. With a wide grip range, a single Bulbtite rivet can be used across a greater variation of material thicknesses.

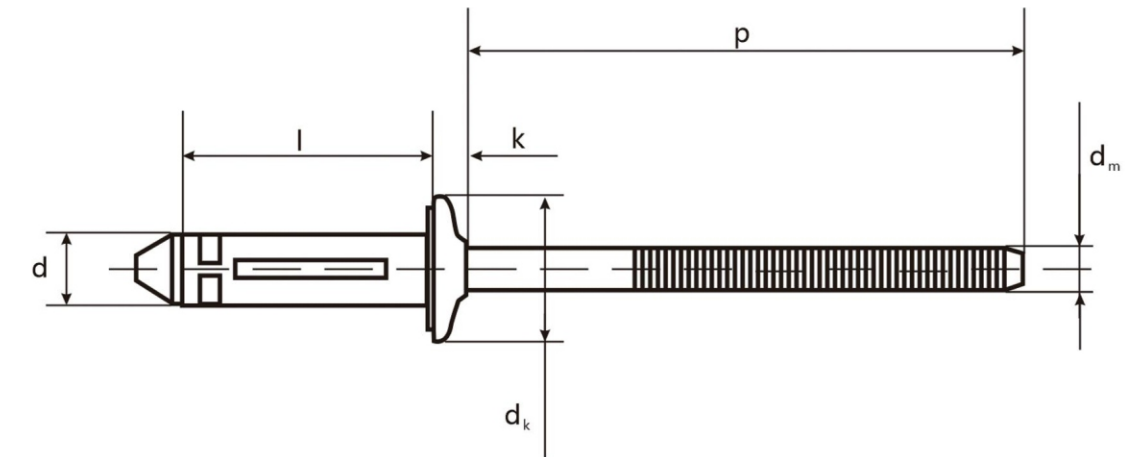


Applications

- Construction
- Domestic Application
- Truck

Materials

- Body: Aluminum 5056
- Mandrel: Aluminum 7A03
- Washer: EPDM



Dia	l	Grip Range	d	d _k	k	d _m	p _{min}	Tensile	Shear
5.2	17.5	1.3-4.8	5.1 ^{+0.1} _{-0.1}	11.5 ^{+0.2} _{-0.2}	3.4 ^{+0.1} _{-0.1}	2.85 ^{+0.05} _{-0.05}	30	2000N	3000N
	19.1	1.6-6.4							
	22.2	4.7-9.5							
	25.4	7.9-12.7							
	28.6	11.1-15.9							
	31.8	14.3-19.1							
6.4	20.2	1.6-6.4	6.2 ^{+0.15} _{-0.15}	Dome 14.3 ^{+0.2} _{-0.2}	Dome 4.0 ^{+0.1} _{-0.1}	3.9 ^{+0.1} _{-0.1}	30	2500N	4200N
	23.4	3.2-9.5		Flange 15.7 ^{+0.2} _{-0.2}	Flange 4.4 ^{+0.1} _{-0.1}				
	26.5	6.4-12.7							
	29.7	9.5-15.9							
7.5	16	1.1-9.5	7.5 ^{+0.1} _{-0.1}	Dome 15.7 ^{+0.2} _{-0.2}	Dome 4.4 ^{+0.1} _{-0.1}	4.3 ^{+0.1} _{-0.1}	28	4900N	6200N
	18	6.4-15.9		Flange 19 ^{+0.5} _{-0.5}	Flange 4.5 ^{+0.3} _{-0.3}				
	28	9.5-19.1							

Monobolt Rivets

A type of multi-grip, structural breakstem fasteners with external locking mechanisms for quick & easy inspections. They are high strength, excellent hole fill fasteners that provide substantial gap closing capabilities.

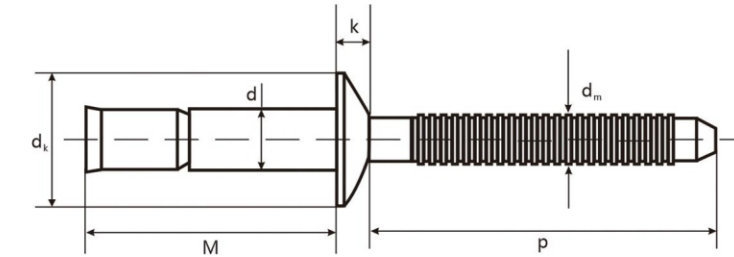


Applications

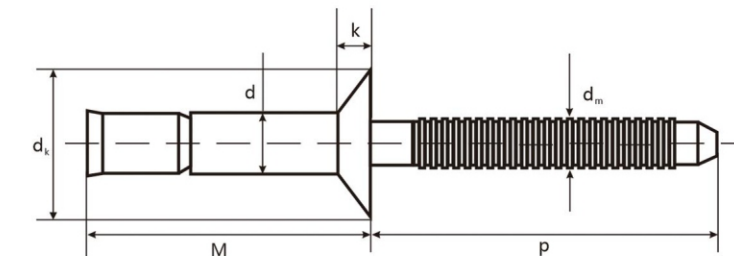
- Automotive
- Containers
- Cabinets and enclosures
- Commercial vehicles
- Heating and ventilating

Materials

- Steel/Steel
- Stainless Steel/Stainless Steel
- Aluminum / Aluminum



Size	M max	Grip Range	d	d _k	k	d _m	p	Tensile	Shear
4. 8x10	18. 2	1. 6-6. 9	4.8 ^{+0.08} _{-0.1}	9.8 ^{+0.3} _{-0.3}	2.0 ^{+0.1} _{-0.1}	3.05 ^{+0.05} _{-0.05}	27-28	ALU/ALU 2000N	2400N
4. 8x14	24. 6	1. 6-11						ST/ST 4100N	5800N
								SS/SS 5000N	6400N
6. 4x14	25. 3	2. 1-9. 5	6.4 ^{+0.08} _{-0.15}	13.2 ^{+0.3} _{-0.3}	2.8 ^{+0.1} _{-0.1}	4.05 ^{+0.05} _{-0.05}	31-32	ALU/ALU 3700N	5600N
6. 4x19	35. 6	2. 0-15. 8						ST/ST 8200N	10500N
								SS/SS 9000N	11000N
9. 8x21	36. 2	3. 04-15. 8	6.4 ^{+0.08} _{-0.15}	19.0 ^{+1.0} _{-1.0}	4.0 ^{+0.1} _{-0.1}	6.05 ^{+0.05} _{-0.05}	40-41	ALU/ALU 8500N	11500N
								ST/ST 17500N	26300N



Size	M max	Grip Range	d	d _k	k	d _m	p	Tensile	Shear
4. 8x12	20	3. 2-8. 4	4.8 ^{+0.08} _{-0.1}	8.9 ^{+0.1} _{-0.1}	2.0 ^{+0.1} _{-0.1}	3.05 ^{+0.05} _{-0.05}	27-28	ALU/ALU 2000N	2400N
4. 8x16	26. 5	3. 2-12. 2						ST/ST 4100N	5800N
								SS/SS 5000N	6400N
6. 4x16	28. 3	3. 2-12. 1	6.4 ^{+0.08} _{-0.15}	10.4 ^{+0.1} _{-0.1}	2.8 ^{+0.1} _{-0.1}	4.05 ^{+0.05} _{-0.05}	31-32	ALU/ALU 3700N	5600N
6. 4x22	36. 3	3. 2-16						ST/ST 8200N	10500N
								SS/SS 9000N	11000N



Interlock Rivets

A multi-grip structural breakstem fastener with excellent hole fill to give a fully sealed joint. The Interlock rivet can close large gaps and prevent sheet movement whilst the high shear and tensile strength enable the use of fewer Interlock rivets per assembly.

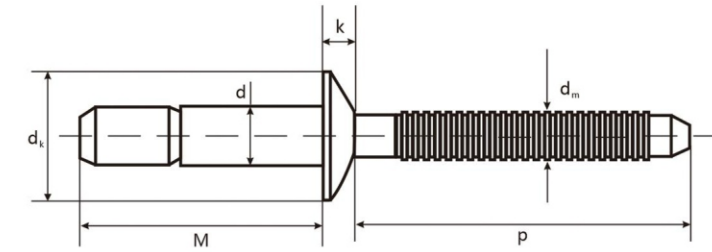


Applications

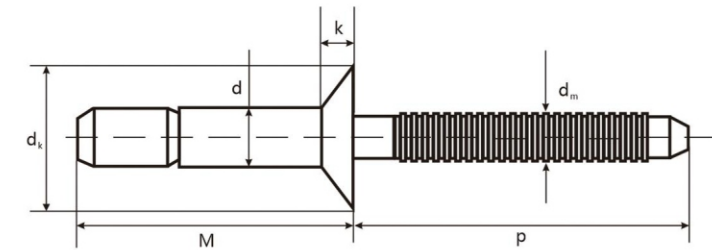
- Automotive
- Containers
- Cabinets and enclosures
- Commercial vehicles
- Heating and ventilating

Materials

- Steel/Steel
- Stainless Steel/Stainless Steel
- Aluminum / Aluminum



Size	M max	Grip Range	d	d _k	k	d _m	p	Tensile	Shear
4. 8x10	18. 2	1. 6-6. 9	4.8 ^{+0.08} _{-0.1}	Dome 9.8 ^{+0.4} _{-0.4}	Dome 2.4 ^{+0.1} _{-0.1}	3.05 ^{+0.05} _{-0.05}	27-28	ALU/ALU 2000N	2600N
				Flange 14 ^{+0.4} _{-0.4}	Flange 2.6 ^{+0.1} _{-0.1}			ST/ST 4400N	5800N
4. 8x14	24. 6	1. 6-11	4.8 ^{+0.08} _{-0.1}	Dome 13 ^{+0.5} _{-0.5}	Dome 2.9 ^{+0.2} _{-0.2}	4.05 ^{+0.05} _{-0.05}	31-32	ALU/ALU 3600N	5800N
				Flange 17 ^{+1.0} _{-1.0}	Flange 3.3 ^{+0.2} _{-0.2}			ST/ST 8200N	11000N
6. 4x20	35. 6	2. 0-15. 9	6.4 ^{+0.08} _{-0.15}	Dome 19 ^{+0.5} _{-0.5}	Dome 4.3 ^{+0.2} _{-0.2}	6.15 ^{+0.05} _{-0.05}	40-42	ALU/ALU 8000N	13000N
				Flange 17 ^{+1.0} _{-1.0}	Flange 3.3 ^{+0.2} _{-0.2}			ST/ST 17500N	26500N



Size	M max	Grip Range	d	d _k	k	d _m	p	Tensile	Shear
4. 8x12	20. 2	3. 2-8. 4	4.8 ^{+0.08} _{-0.1}	Dome 9.1 ^{+0.1} _{-0.1}	Dome 2.05 ^{+0.1} _{-0.1}	3.05 ^{+0.05} _{-0.05}	27-28	ALU/ALU 2000N	2600N
				Flange 14 ^{+0.4} _{-0.4}	Flange 2.6 ^{+0.1} _{-0.1}			ST/ST 4400N	5800N
4. 8x16	26. 5	3. 2-12. 7	4.8 ^{+0.08} _{-0.1}	Dome 11.2 ^{+0.2} _{-0.2}	Dome 2.2 ^{+0.1} _{-0.1}	4.05 ^{+0.05} _{-0.05}	31-32	ALU/ALU 3600N	5800N
				Flange 17 ^{+1.0} _{-1.0}	Flange 3.3 ^{+0.2} _{-0.2}			ST/ST 8200N	11000N
6. 4x22	36. 5	4. 3-18. 4	6.4 ^{+0.08} _{-0.15}	Dome 16 ^{+0.5} _{-0.5}	Dome 3.7 ^{+0.1} _{-0.1}	6.15 ^{+0.05} _{-0.05}	40-42	ALU/ALU 8000N	13000N
				Flange 17 ^{+1.0} _{-1.0}	Flange 3.3 ^{+0.2} _{-0.2}			ST/ST 15500N	25500N

