

Vogelsang Rollpins® are stocked in Inch (1/16" to 1"), & Metric (1MM to 50MM), in a variety of materials, specifications & finishes.



Vogelsang Rollpins® are hollow cylinders slit longitudinally over their entire length to permit compression during insertion, thus giving them their unique self-locking qualities. Chamfered edges facilitate insertion without disrupting the hole diameter or tolerance in any way. They are formed from special spring steel of high elasticity, resilience and wear resistance. These fasteners simplify product design, increase product reliability, reduce production costs and rejection losses.

Standard materials are high carbon spring steel or martensitic chromium steel (AISI 420) which are heat treated to achieve optimum shear strength. Rollpins® are also available in work hardened 18-8 nickel chromium steel. Standard finish for steel pins is plain and oiled. Plated pins and special materials are available on request.

Advantages:

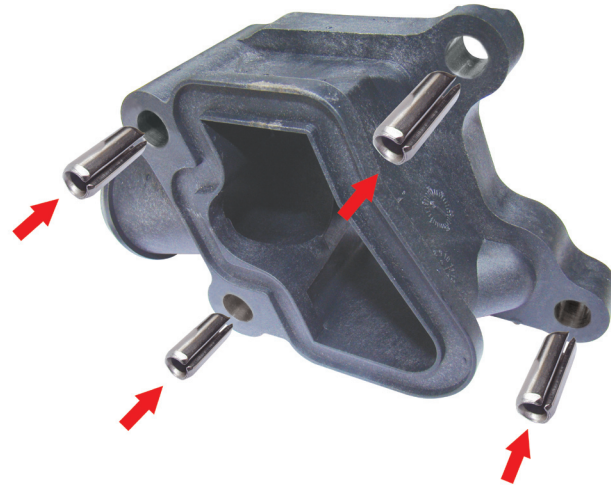
- Low cost replacement for fasteners
- Universal
- Easily Installed
- Self-Locking
- Greater Fastening Security
- Durable
- Economical

Features:

- SPC Control
- Lot Control
- Package/Bulk
- Special Lengths
- Plain & oiled standard finish
- Standard materials are heat treated
- Plated pins & special materials available

Applications:

Vogelsang Rollpins® are used in an extensive array of applications. They regularly function as fasteners, hinge pins, stop pins, assembly pins and in a myriad of other roles. Vogelsang Rollpins® are tried and true, all-purpose non-threaded tension fasteners that can be used in stampings, castings, forgings, sintered metals, hard rubber and plastics.

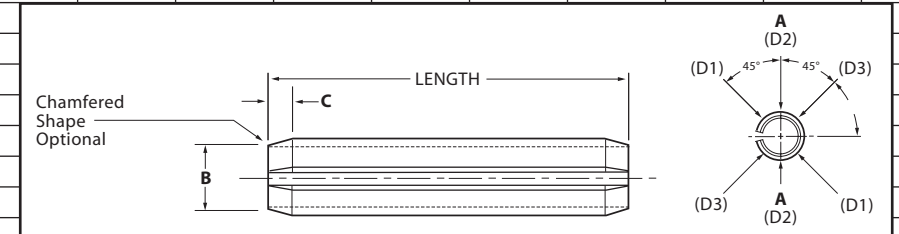


Diameter Nominal	A		B	C		Wall Thickness (Nominal)	Recommended Hole Size		Minimum Double Shear Strength Pounds	
	Minimum 1/3 (D1+D2+D3)	Maximum (Go Ring Gage)	Max.	Min.	Max.		Min	Max	Carbon Steel & 420	300 Ni Chrome
1/16	.062	.066	.059	.007	.028	.012	.062	.065	430	250
5/64	.078	.083	.075	.008	.032	.018	.078	.081	800	460
3/32	.094	.099	.091	.008	.038	.022	.094	.097	1,150	670
1/8	.125	.131	.122	.008	.044	.028	.125	.129	1,875	1,090
5/32	.156	.162	.151	.010	.048	.032	.156	.160	2,750	1,600
3/16	.187	.194	.182	.011	.055	.040	.187	.192	4,150	2,425
7/32	.219	.226	.214	.011	.065	.048	.219	.224	5,850	3,400
1/4	.250	.258	.245	.012	.065	.048	.250	.256	7,050	4,100
5/16	.312	.321	.306	.014	.080	.062	.312	.318	10,800	6,300
3/8	.375	.385	.368	.016	.095	.077	.375	.382	16,300	9,500
7/16	.437	.448	.430	.017	.095	.077	.437	.445	19,800	11,500
1/2	.500	.513	.485	.025	.110	.094	.500	.510	27,100	15,800
5/8*	.625	.640	.608	.030	.125	.125	.625	.636	X	X
3/4*	.750	.769	.730	.030	.150	.150	.750	.764	X	X

* Made to Vogelsang standards

Length	Diameter														
	.062	.078	.094	.125	.156	.187	.219	.250	.312	.375	.437	.500	.625	.750	
1/8															
3/16	X	X	X												
1/4	X	X	X												
5/16	X	X	X												
3/8	X	X	X	X											
7/16	X	X	X	X	X										
1/2	X	X	X	X	X	X	X	X							
9/16	X	X	X	X	X	X	X	X							
5/8	X	X	X	X	X	X	X	X							
11/16	X	X	X	X	X	X	X	X							
3/4	X	X	X	X	X	X	X	X	X	X					
13/16	X	X	X	X	X	X	X	X	X						
7/8	X	X	X	X	X	X	X	X	X						
15/16	X	X	X	X	X	X	X	X	X	X					
1	X	X	X	X	X	X	X	X	X	X	X				
1 1/8		X	X	X	X	X	X	X	X	X	X				
1 1/4		X	X	X	X	X	X	X	X	X	X	X			
1 3/8		X	X	X	X	X	X	X	X	X	X	X			
1 1/2		X	X	X	X	X	X	X	X	X	X	X			
1 5/8				X	X	X	X	X	X	X	X	X			
1 3/4				X	X	X	X	X	X	X	X	X			
1 7/8				X	X	X	X	X	X	X	X	X			
2				X	X	X	X	X	X	X	X	X	X	X	
2 1/4					X	X	X	X	X	X	X	X	X	X	
2 1/2					X	X	X	X	X	X	X	X	X	X	
2 3/4							X	X	X	X	X	X	X	X	
3							X	X	X	X	X	X	X	X	
3 1/4								X	X	X	X	X	X	X	
3 1/2								X	X	X	X	X	X	X	
3 3/4									X	X	X	X	X	X	
4									X	X	X	X	X	X	
4 1/4										X	X	X	X	X	
4 1/2											X	X	X	X	
4 3/4												X	X	X	
5													X	X	
5 1/4														X	
5 1/2														X	
5 3/4														X	
6														X	

See back page for Technical Data, Length Tolerances & Straightness Tolerances



Technical Data			
SPECIFICATION	MATERIAL		
ASME/ANSI B.18.8.2 MIL-P-10971 NAS56 MS 171401-171900 Alloy SAE 6150H	CARBON STEEL Plain Carbon SAE1070-1090 AISI C1070-C1090	MARTENSITIC CHROMIUM STEEL Chrome Stainless SAE 51420 AISI Type 420	NICKEL CHROMIUM STEEL Nickel Stainless SAE 30302/30304 AISI Type 304
HARDNESS			
SCALE Rockwell "C"	1070-1090 46-53 Alloy 6150	420 43-52	302/304 Work Hard
FINISH			
STANDARD Options Mechanical Zinc Other Types on request	Plain/Oiled Clear Phosphate Zinc Iron, Black Oxide, Others on request	Plain Passivated	Plain Passivated

Warranty for pins provided by Vogelsang is limited to replacement or credit for purchase price. No additional warranty is expressed or implied. Pins plated by others are not returnable.

Length Tolerances	
NOMINAL PIN LENGTH	LENGTH TOLERANCE
3/16 to 1" Inc	± 0.015"
Over 1" to 2"	± 0.020"
Over 2" to 3"	± 0.025"
OVER 3" to 4"	± 0.030"
Over 4"	± 0.035"

Straightness Tolerances		
Nominal Pin Length	Gage Length	Straightness Diameter Allowance
	± 0.005	
Up to 1" Inc	1.000	0.007
Over 1" to 2" Inc	2.000	0.010
Over 2"	3.000	0.013

Vogelsang stocks thousands of other products too!
Vogelsang also stocks **Coil Pins** (light/medium/heavy) and **Tension Bushings** in Inch and Metric sizes, all pre-packaged and ready for same-day shipment through **QuickShip**. Along with stock **Rollpins®**, **Coil Pins** and **Tension Bushings**, Vogelsang offers a multitude of other standard and custom products in Inch and Metric sizes.

Stock Vogelsang Metric Rollpins® available in Heavy & Light Duty

Metric Slotted Pins come in both a Heavy Duty ISO 8752 (former DIN 1481) and a Light Duty ISO 13337 (former DIN 7346). Metric spring pins by their design are stronger than the rolled formed pins. Made to exacting tolerances, Vogelsang's metric pins are engineered to fit standard metric holes, and facilitate proper insertion into many worldwide applications such as agricultural, off-road, wind power, automotive, mining, railway, hydraulic, and material handling to name just a few.

Call 800-526-2376 or visit VogelsangFastener.com for more information or to receive other product catalogs



VFS
VOGELSANG FASTENER SOLUTIONS

RollPins® Product Catalog

Slotted Tension Pin

- Universal
- Time saving
- Economical

Vogelsang Rollpins® replace a wide variety of different fasteners, can be installed in a single operation, and are made in one piece and are easily removable.

MASTER STOCKING DISTRIBUTOR



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