TOTAL CABINET HARDWARE SOLUTIONS HINGES CATCHES GAS SPRINGS HANDLES INDUSTRIAL AND MEDICAL





H.A. Guden Co., Inc. www.guden.com • 800 3-HINGES

Supplying Hinges and

Building on over four generations of hinge expertise,



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Tap Into A Full Selection of Ready-to-Ship Products

To meet all your hardware needs, we stock an enormous supply of products in a wide variety of materials and finishes. And with our automated inventory management and product replenishment systems, we can accommodate demanding schedules and delivery requirements.

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With our ISO 9001 compliant system, you know that our quality will always be at its highest. It's your assurance that our products will meet your exact specifications.

Hardware for Industry

we support all your cabinet, lid, and door solutions.



The Personal Service You Deserve

From online web help to expert telephone support, from e-mail to fax response, a Guden representative will always be available to help you.

Do you have a project that requires custom hardware assistance? Please provide us with a drawing of the custom

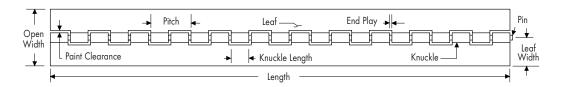


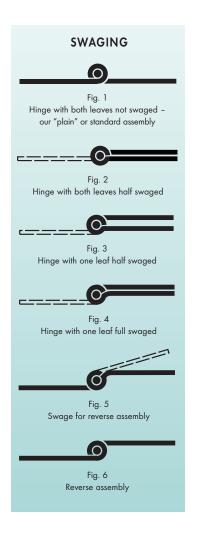
hardware you are looking for and one of our friendly and knowledgeable customer service representatives will contact you as quickly as possible. We will review your drawing and supply the part to print or supply a Guden stock product that may meet your requirements.



H.A. Guden Co., Inc.

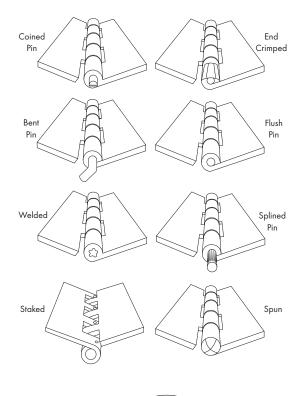
HINGE TERMINOLOGY

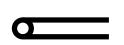




PIN

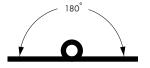
The pin or rod that holds hinge leaves together may be furnished in several ways depending on the application. Some pins are easily removed; others are permanently mounted. Several variations are illustrated here.





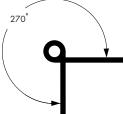
Closed

Leaves are parallel, together and at the 0° position.



Flat

Leaves are parallel, and at the 180° position.



Open (or Back Angle)

Leaves are opened through the maximum arc, usually about 270°. This varies from series to series and can be adjusted for special applications.



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Guden's continuous hinges are available in approximately 140 stock sizes, see chart below. Custom lengths are available.



STAINLESS, STEEL, AND ALUMINUM

Available in stainless steel leaf & pin, steel leaf & pin, aluminum with aluminum pin and aluminum with stainless steel pin, and in some cases a steel leaf with brass pin.

Leaf		Knuckle							Ope	n Widi	h _				
Thickness	Pin Dia.	Length	Length	.50	.75	1.00	1.06	1.25	1.50	2.00	2.50	3.00	4.00	5.00	6.00
.025	.062	.25	72		•	•		•	•						
		.50	72	•	•										
.032	.062	.50	72		•	•	•	•	•						
	.091	.25	72		•		•	•	•						
.035	.086	.25	72		•		•	•	•	•					
.040	.091	.50	72				•	•	•	•	•	•			
	.091	.625	72.5				•	•	•	•					
.050	.120	.50	72				•	•	•	•	•	•	•		
		.625	85				•	•	•	•	•	•			
.060	.120	.50	84				•	•	•	•	•	•	•		
		.625	85				•	•	•	•	•	•	•		
		.75	72				•	•	•	•	•	•	•		
		1.00	84				•	•	•	•	•	•	•		
	.187	.625	72.5						•	•	•	•	•		
		1.00	84				•	•	•	•	•	•	•		
		2.00	84				•	•	•	•	•	•			
.072	.187	.50	84				•	•	•	•	•	•	•		
.075	.187	2.00	84							•	•	•	•		
	.250	1.00	72							•	•	•	•	•	
		2.00	84							•	•	•	•	•	•
.090	.187	2.00	72							•	•	•	•	•	•
	.250	1.00	72							•	•	•	•		
		2.00	84							•	•	•	•	•	•
.120	.250	2.00	72							•	•	•	•	•	•
	.375	2.00	84							•	•	•	•	•	•
.179	5.00	2.00	96									•		•	
.250	.625	1.50	72									•		•	



TYPE 316 STAINLESS STEEL

Leaf		Knuckle		Open Width							
Thickness	Pin Dia.	Length	Length	1.06	1.25	1.50	2.00	2.50	3.00		
.040	.091	.50	72	•	•	•	•				
.060	.120	.50	72			•		•			

STEEL / ELECTROGALVANIZED

Leaf		Knuckle		Open Width						
Thickness	Pin Dia.	Length	Length	1.06	1.25	1.50	2.00	2.50	3.00	
.042	.091	.50	72			•	•			
.060	.120	.50	72			•			•	

POLISHED STAINLESS WITH HOLES - ON 2" CENTERS

Leaf						Hole Dia		Hole Dia			
Thickness	Pin Dia.	Length	Length				1.50	2.00	2.50	3.00	#6 ctsk
.040	.091	.50	72	•	•	•	•	•			•
.060	.120	.50	72				•	•		•	•

PREPLATED STEEL HINGES WITH HOLES - ON 2" CENTERS

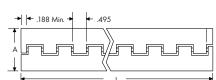
Leaf		Knuckle		Op			Hole Dia	0	pen Widt		Hole Dia
Thickness	Pin Dia.	Length	Length	1.06				2.00	2.50	3.00	#6 ctsk
.040	.091	.50	72	•	•	•	•	•			•

MILITARY CONTINUOUS HINGES

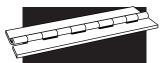
MS-20001 SERIES CONTINUOUS HINGES; TYPE 2024-T3511 EXTRUDED ALUMINUM

Specify	For
Р	Anodized per Mil-A-8625, Type II
С	Alodine per Mil-C-5541
Α	Aluminum Alloy 7075-T 73511



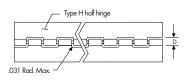


	Α	B - Leaf	Thickness	С
Dash No.	Open Width	Maximum	Minimum	Pin Diameter
-2	1.062	.056	.044	.090
-3	1.250	.056	.044	.090
-4	1.500	.056	.044	.090
-5	1.750	.056	.044	.090
-6	2.000	.056	.044	.090
-8	2.000	.076	.064	.180
-9	2.500	.056	.044	.090
-10	2.750	.056	.044	.090
-12	3.375	.115	.103	.090
-14	3.719	.163	.149	.129
-16	3.938	.210	.196	.180

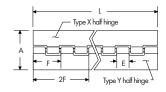


CONTINUOUS HINGES

MILITARY CONTINUOUS HINGES (CONT.)







MS-20257 SERIES CONTINUOUS HINGES

	Dash No. Alum. Alloy		A		B .eaf kness	C Ho Dian	ole	D Slo Dep	ot	E	F	Pin Dia.
Unano- dized	Ano- dized	Cor. Res. Steel	Open Width	Alum. Alloy.	Cor. Res. Steel	Alum. Alloy.	Cor. Res. Steel	Alum. Alloy.	Cor. Res. Steel	Loop	Pitch	Cor. Res. Steel
1	P1	C1	.75	.032	.031	.066	.066	.169	.166	.490	1.000	.063
2	P2	C2	1.06	.040	.037	.093	.093	.220	.211	.490	1.000	.090
3	Р3	C3	1.25	.040	.050	.093	.121	.220	.278	.490	1.000	.118
4	P4	C4	1.50	.040	.062	.093	.121	.220	.314	.490	1.000	.118
5	P5	C5	2.00	.051	.062	.093	.183	.253	.376	.490	1.000	.180
6	P6	C6	2.00	.064	.062	.183	.183	.382	.376	1.990	4.047	.180

MS-20253* AND A-A-55486 HINGE PINS FOR MS-20257 AND MS-20001 SERIES CONTINUOUS HINGES

Dash No.											
Cadmium plated	Passivated	Diameter									
-P1	-1	.062									
-P2	-2	.089									
-P3	-3	.11 <i>7</i>									
-P4	-4	.179									
-P5	-5	.129									



- Notes: 1. Use cadmium plated, corrosion resistant steel with aluminum alloy hinge.
 - 2. Use passivated corrosion resistant steel pin with corrosion resistant steel hinge.
 - 3. Normally supplied 72" long, i.e., MS-20253-72.00.
 - 4. Add L to the end of the part number to denote solid film lubricant.

MS-35000 & A-A-55000 SERIES CONTINUOUS HINGES

	Leaf		Pin						Ope	n Widt					
Length	Thickness	Knuckle	Diameter	.75	1.00	1.06	1.25	1.50	2.00	2.50	3.00	3.50	4.00	5.00	6.00
72	.032	0.5	.063	•	•	•	•	•							
	.040	0.5	.091			•	•	•	•						
72.50	.040	.62	.091			•	•	•	•						
	.050	.62	.125			•		•	•	•					
85	.060	.62	.125			•		•	•	•					
84	.060	1.00	.125			•		•	•	•					
			.187			•		•	•	•					
		2.00	.187			•		•	•	•					
	.075	2.00	.187						•	•	•	•			
			.250						•	•	•	•	•		
	.090	2.00	.250								•	•	•	•	
			.312										•	•	•
			.375										•	•	•
	.125	2.00	.312										•	•	
			.375										•	•	•

Materials are available in aluminum, brass leaf & copper pin, stainless steel leaf & pin, plain steel leaf & pin, and plain steel leaf, cadmium plated & brass pin. For A-A-55000 stainless steel leaf & pin materials will be supplied with passivated leaves.



STAINLESS STEEL - SERIES 7000, 8000

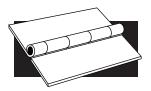
	Leaf	Pin				Open	Width			
Length	Thickness	Diameter	1.06	1.50	2.00	2.50	3.00	4.00	5.00	6.00
1.00	.035	.035	•							
1.50	.035	.086		•						
	.050	.120								
2.00	.060	.120			•					
	.078	.187			•					
2.50	.060	1.20				•				
	.078	.187				•				
3.00	.060	.120					•			
	.078	.18 <i>7</i>					•			
	.090	.187					•			
	.090	2.50					•			
	.120	2.50					•			
4.00	.078	.187						•		
	.120	.250						•		
	.120	.375						•		
5.00	.120	.250							•	
6.00	.120	.250								•
	.165	.375								•





PLAIN STEEL - SERIES 3000, 4000, 5000, 6000

	Leaf	Pin					C	pen Wi	dth				
Length	Thickness	Diameter	.75	1.06	1.31	1.50	2.00	2.50	3.00	3.83	4.00	5.00	6.00
.75	.035	.086	•										
1.00	.035	.086		•									
1.25	.035	.086		•									
1.50	.035	.086		•		•							
	.050	.120			•	•							
	.055	.120				•							
2.00	.035	.086		•		•	•						
	.060	.120				•	•						
	.078	.187					•						
2.50	.060	.120				•		•					
	.075	.187						•					
	.078	.187						•					
	.120	.250						•					
3.00	.060	.120							•				
	.078	.187							•				
	.090	.250							•				
	.120	.250							•				
4.00	.078	.187									•		
	.090	.250								•			
	.120	.250									•		
5.00	.120	.250										•	
6.00	.120	.250											•
	.187	.500											•



BUTT HINGES

TYPE 316 STAINLESS STEEL — SERIES 2000

	Leaf	Pin	Оре	en Wi	dth
Length	Thickness	Diameter	2.00	3.00	4.00
2.00	.075	1.87	•		
3.00	.090	1.87		•	
3.00	.120	2.50		•	
4.00	.120	2.50			•

ALUMINUM - SERIES 9000

	Leaf	Pin			Open	Width	1	
Length	Thickness	Diameter	1.06	1.50	2.00	2.50	3.00	4.00
1.00	.040	.080	•					
1.50	.050	.120		•				
2.00	.060	.120			•			
	.078	.187			•			
2.50	.060	.120				•		
	.078	.187				•		
3.00	.060	.120					•	
	.078	.187					•	
	.090	.250					•	
	.120	.250					•	
4.00	.120	.250						•

WELD-ON HINGES



Weld-On Hinges are well suited for flush construction.



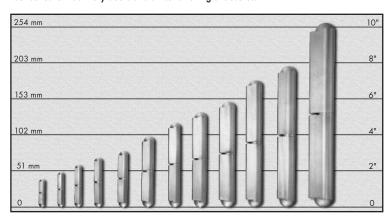
Weld-On Hinges work well in over-lapping construction.



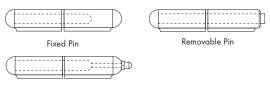
Weld-On Hinges are well suited in gate construction.

The Guden Weld-On Hinge is an attractive alternative for your hinge needs. It offers continuous, smooth operation and eliminates the need for unsightly fasteners and leaves.

The Weld-On Hinge is ideal for a wide range of applications, everything from electrical and tool boxes to machinery doors and air conditioning enclosures.

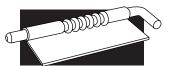


Available in steel w/steel pin, steel w/brass pin, steel w/steel pin grease fitting, steel w/brass pin grease fitting, steel w/steel loose pin, and stainless and aluminum w/STS pin. Available in lengths from 1.58-10.27 and heights from 0.37-1.46.



Fixed Pin with Grease Fitting

SPECIALTY HINGES



A smooth, almost seamless cabinet surface is now possible with Guden concealed hinges. The radius of the moveable leaf swings the door out and clear of the cabinet frame. Two standard sizes are ready for welded assembly, or can be custom drilled for screw or bolt assembly. Custom sizes are also available.

CONCEALED HINGES

Length	Thickness	Holes	
.80	.075	No	No
1.25	.090	No	Yes

Available in:

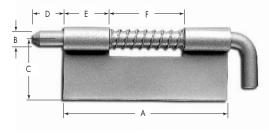
- Aluminum w/stainless steel pin
- Stainless steel w/stainless steel pin
- Steel w/steel pin

Dual purpose latch hinges make excellent lid or door latches, or easily removable hinges. The spring-loaded, chamfered pin holds securely, whether used as a latch or hinge. They are the answer to door removal.

LATCH HINGES

Holes	Thickness			С	D		
No	.040	.875	.125	.500	.187	.250	.375
No	.040	1.38	.156	.750	.250	.375	.625
No	.050	2.00	.187	.875	.375	.500	1.00
No	.062	2.75	.250	1.00	.500	.750	1.25

Available in zinc plated steel and stainless steel, with or without holes.



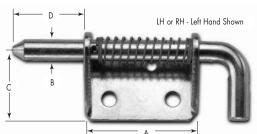
LH or RH - Left Hand Shown

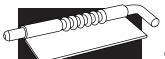
Our heavy duty latch hinge line is available in standard assembly, and with an optional pin hold back feature to lock pin in the retracted position for easier assembly and quick removal of doors.

HEAVY DUTY LATCH HINGES

Holes	Thickness		В	С	D
Yes	.125	2.00	.375	1.12	1.25
Yes	.187	3.00	.50	1.25	1.50

Available in zinc plated steel and stainless steel.





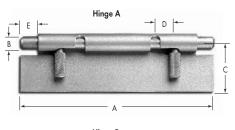
SPECIALTY HINGES

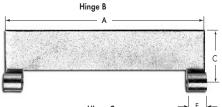
Doors come right off with Guden's un-hinge. It is a quick-release hinge that can be mounted in any position and requires no tools. An easy squeeze of the knurled knobs retracts the spring-loaded pins from the knuckles to release the leaves. Precise manufacturing standards eliminate excess side and end play for minimum door movement.

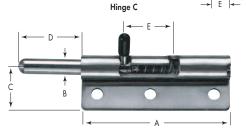
UN-HINGES — STAINLESS STEEL

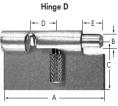
Hinge	Thickness	Α	В	С	D	Е	SS	Zinc Plated
Α	.050	4.00	.250	1.00	.41	.37	•	
В	.050	4.00	N/A	1.00	N/A	.37	•	
С	.060	3.50	.365	1.00	1.125	1.50		•
D	.050	1.75	.250	1.00	.41	.37	•	•
Е	.050	1.75	N/A	1.00	N/A	.37	•	•
F	.050	1.75	.250	1.00	.53	.50	•	
G	.180	2.89	.50	1.00	1.25	1.312	•	

Stocked without holes. Available with holes.

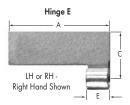








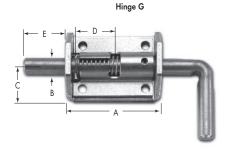
LH or RH - Right Hand Shown



Hinge F

B

LH or RHLeft Hand Shown



For sizing and mounting information, visit website at guden.com and look for our invisible hinge calculator in the invisible hinge section.

INVISIBLE HINGES

Length	Finish
1.50	04, 26D
2.375	04, 26D
1.50	04, 26D





Quick, easy and economical door removals are the benefits of Guden slip joint hinges. Custom sizes, constructions and hole patterns are also available.

SLIP JOINT HINGES

	Leaf	Pin			Op	en Wid	lth*	
Length	Thickness	Diameter	1.44	1.68	1.87	2.00	2.50	3.00
1.50	.050	.120	•					
2.00	.072	.125						
	.080	.187		•		•		
2.50	.075	.187			•		•	
	.093	.187					•	
3.00	.093	.187				•		
	.093	.250						•

Available with stainless steel leaf & pin, steel leaf & pin, and aluminum leaf with stainless steel pin, and in some cases a steel leaf with nickel plated pin. *Open width when assembled.





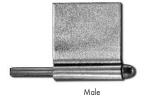
Please visit **guden.com** for individual drawings with sizes and hole placements.

FLAG HINGES

Assembled Length	Leaf Width	Leaf Thickness	Pin Diameter
2.00	.68	.050	.130
	1.00	.050	.120
2.37	1.20	.060	.156

Available in steel and stainless steel.









Right Hand Shown



SPECIALTY HINGES

Hold doors open or closed with Guden spring hinges. Butts are carried in stock for either surface or concealed mounting in several sizes, materials and finishes. Custom continuous and butt spring hinges are made to your individual specifications. For more detailed information about dimensions and torques, see our Spring Hinge Design Form at Guden.com.

SPRING HINGES

	Leaf	Pin	Open Width				
Length	Thickness	Diameter	.75	1.00	1.25	1.50	2.00
1.25	.025	.062	•				
1.75	.035	.086		•			
2.00	.035	.091		•			
	.040	.091		•			
2.18	.050	.115			•		
3.50	.040	.091				•	
3.25	.060	.156				•	
5.00	.050	.120					•
5.375	.060	.156				•	
8.75	.050	.090				•	

Available in steel and stainless steel, open or closed loading, and with or without holes. Some available in a zinc finish.

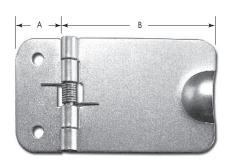
Spring loaded to open shown; for spring loaded to close versions, spring legs are on the opposite side of the leaves



COVER HINGES

	Open	Width	Leaf	Pin
Length			Thickness	Diameter
1.562	2.00	.75	.050	.115

Available in steel with a zinc finish. Supplied with two holes.



CABINET SPRING HINGES

	Open	Leaf	Pin
Length	Width	Thickness	Diameter
1.11	1.61	.050	.120

Available in steel with a nickel or brass finish. Supplied with four holes. Normal loading is open.





CONTENTS

- 14 Rod Pulls
- 14 Diecast Pulls
- 14 Stainless Steel Pulls
- 14 Aluminum Pulls
- 15 Steel Handles
- 15 Solid Brass and Zinc Knobs

- 15 Flush Door Pulls
- 15 Flush Drawer Pulls
- 16 Chest Handles
- 16 Steel Cover Chest Handles
- 16 Spring Loaded Chest Handles



HANDLES AND PULLS

ROD PULLS



C to C	Projection	Rod Dia.	Tapped
2.50	1.22	.312	8-32
3.00	1.22	.312	8-32
	1.40	.375	8-32
3.50	1.22	.312	8-32
	1.40	.375	8-32
4.00	1.22	.312	8-32
	1.40	.375	8-32
5.00	1.22	.312	8-32
	1.40	.375	8-32

Available in brass, stainless, and aluminum materials. Satin chrome, burnished, and satin anodized finishes.

STAINLESS STEEL PULLS



C to C	Projection	Face	Tapped
4.00	1.31	.625	8-32
5.00	1.31	.625	8-32

Available with satin finish.

DIE CAST PULLS



C to C	Projection	Face	Tapped
3.00	.81	.31	8-32

Available with bright chrome finish.



C to C	Projection	Face	Tapped
2.75	.70	.27	8-32

Available with bright chrome finish.



C to C	Projection	Face	Tapped
4.00	1.00	-	8-32

Available with bright chrome finish.



ALUMINUM PULLS

C to C	Projection	Overall	Tapped
1.00	.87	2.00	8-32
1.50	.87	2.50	8-32
2.50	.87	3.50	8-32
3.50	.87	4.50	8-32
		5.50	8-32

Available with satin anodized finish.

ALUMINUM PULLS

C to C	Projection	Face	Tapped
3.50	.87	.500	8-32
3.00	.87	.500	8-32
2.50	.87	.313	10-24

Available with satin anodized finish.



ALUMINUM PULLS

C to C	Projection	Face	Tapped
3.75	1.00	.375	10-24
4.00	1.06	.437	10-24
5.00	.94	.375	10-24

Available with satin anodized finish.



ALUMINUM PULLS

C to C	Projection	Face	Tapped
3.75	1.01	.625	10-24
4.00	1.01	.625	10-24
4.00	1.01	.500	10-24

Available with satin anodized finish.









STEEL HANDLES

Fig.	Overall Length	Projection	Hole Diameter
Α	13.00	2.20	1/4-20 ctsk
В	8.31	1.75	#14 ctsk
С	4.68	1.40	.213

Fig. D available in sizes from $5.00'' \times 1.25'' - 7.75'' \times 2.25''$ with zinc, bright chrome, and bright nickel finishes.



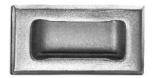




Available in bright brass, bright chrome, and dull satin finishes.

SOLID BRASS AND ZINC KNOBS

Fig.	Diameter	Tapped
Α	.50	10-24
Α	.62	10-24
Α	.87	10-24
В	1.00	10-24



FLUSH DOOR PULLS

Mounting	C to C	Plate Size
Flat for Spot Welding	-	4.75 x 2.42
Beveled Edge w/ 10-32 Studs	4.00	4.75 x 2.42

Available in stainless steel with satin finish.





FLUSH DRAWER PULLS

Mounting	C to C	Plate Size
Flat for Spot Welding	-	4.75 x 2.42
Beveled Edge w/ 10-32 Studs	4.00	4.75 x 2.42
Flat for Spot Welding	-	4.00 x 2.00
Beveled Edge w/ 8-32 Studs	3.62	4.00 x 2.00

Available in zinc plated steel and stainless with a satin finish.



HANDLES AND PULLS

CHEST HANDLES

Plate	Width of Bail Inside	Holes
2.68 x 2.00	2.75	3
3.62 x 2.94	3.62	4
4.06 x 3.00	4.12	4
4.88 x 4.19	4.50	4
3.38 x 1.75	3.37	-

Available in zinc plated steel and stainless with a satin finish.





STEEL COVER CHEST HANDLES

	Holes	Width of Bail Inside	Inside
Ī	.201 or None	3.62 x 1.78	3.75

Available in zinc plated steel.



SPRING LOADED CHEST HANDLES

Plate	Width of Bail Inside
5.12 x 1.62	4.50

Available in steel and nickel plated steel.

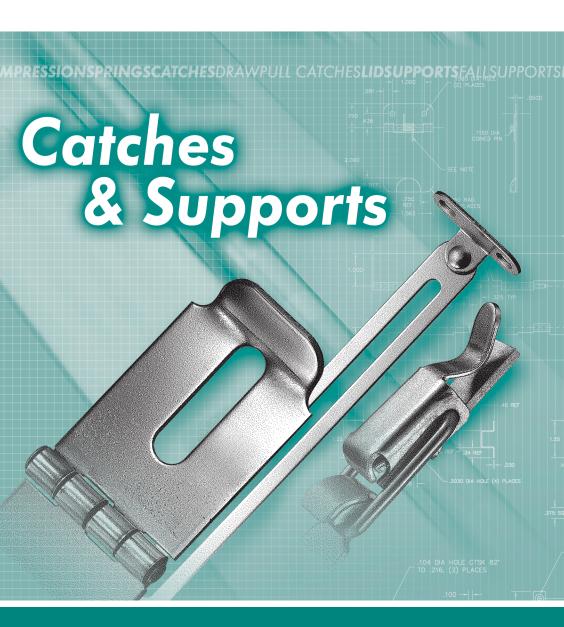


SPRING LOADED CHEST HANDLES

Plate	Width of Bail Inside
5.00 x 2.44	3.75

Available in steel with a nickel finish. Holes are #10 FHS





CONTENTS

- 18 Compression Spring Catches
- 18 Draw Pull Catches
- 18 Non-magnetic Catches
- 19 Hasps & Staples
- 19 Slam Latches

- 19 Snap-in Magnetic Catches
- 20 Reversible Lid Supports
- 20 Fall Supports
- 20 Lid Supports
- 20 Table Leg Supports



CATCHES, HASPS & STAPLES

COMPRESSION SPRING CATCHES

Overall Length	Max. Width
2.75	1.14
2.42	1.375
3.34	1.82

Available in zinc plated steel or stainless steel.

Available with or without holes.













DRAW PULL CATCHES

Overall Length	Max. Width
2.09	1.06
2.43	1.03
2.25	.93
3.93	1.03
3.81	1.26

Available in zinc plated steel or stainless steel.

Available with or without holes.

NON-MAGNETIC TENSION CATCHES

Material	Length	Width	Projection
Extruded Brass	1.86	.31	.51
Extruded Brass	2.15	.43	.60
Extruded Brass	2.71	.50	.60

Available with satin (dull) brass or satin (dull) chrome finishes.

















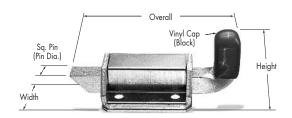




HASPS & STAPLES*

Slotted Arm Length	Pad Length	Pin Length	Gauge
2.50	1.12	1.00	.072
3.50	1.34	1.50	.077
4.50	2.25	1.50	.089
6.00	2.75	1.88	.107
2.50	1.12	1.00	.072
3.50	1.34	1.50	.077
4.50	2.25	1.50	.089
6.00	2.75	1.88	.107
2.81	0.75	1.12	.060
3.34	1.34	1.50	.077
1.63	.50	1.00	.042
1.88	.63	1.12	.058

Available in electro polished stainless steel, aluminim, and plain steel.



SLAM LATCHES

Overall	Height	Width	Pin
2.870	1.00	1.250	.375
3.750	1.250	1.625	.437
4.875	1.375	2.000	.500

Available in zinc plated steel or passivated stainless steel.





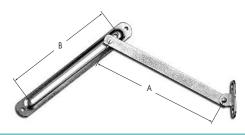
SNAP-IN MAGNETIC CATCHES

Width	Depth	Width of Magnet	No. of Magnets
1.12	.81	.32	1
1.12	.85	.55	2

^{*}Hasps and staples are sold separately. Hasp dimensions as shown above and please see our website for dimensions on available staples.



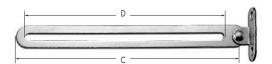
LID SUPPORTS



REVERSIBLE LID SUPPORTS

Arm Length C to C (A)	Thickness	Slotted Arm Length (B)	Thickness
2.50	1.12	1.00	.072

Available with bright nickel finish.

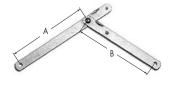


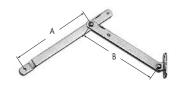


FALL SUPPORTS

Overall Length (C)	Width	Thickness	Slot Length (D)
6.63	.63	.062	5.75
6.22	.63	.062	5.38

Available with bright nickel finish.





LID SUPPORTS

Thickness	Width		В
.093	.50	4.88	4.88
.062	.50	4.44	4.44

Available with bright nickel finish.



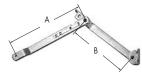
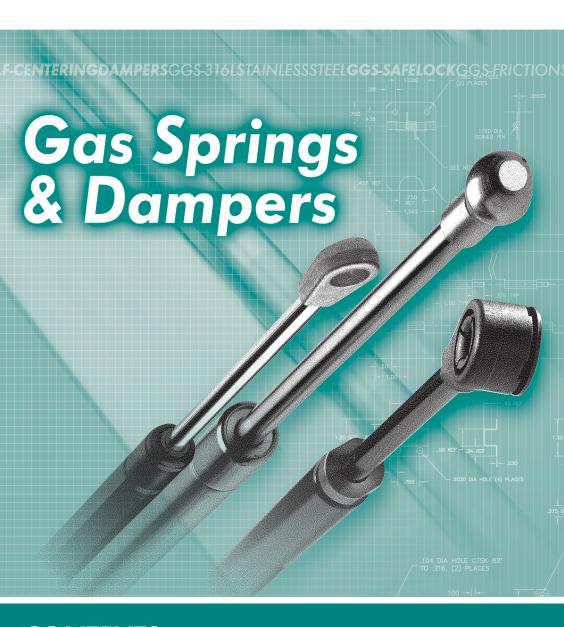


TABLE LEG SUPPORTS

Thickness	Width		В
.146	1.25	8.41	6.59
.109	.64	7.05	5.45
.109	.64	7.15	5.40

Available with commercial zinc finish.



CONTENTS

- 22 GGS Chrome Plated Rod Gas Springs
- 23 GGN Black Nitrate Gas Springs
- 23 STS-316L Stainless Steel Gas Springs
- 24 Dampers

24 End Fittings,
Ball Studs & Clips,
Brackets



GAS SPRINGS AND DAMPERS

GUDEN GAS SPRINGS

WE'VE GOT IT UNDER CONTROL

Whether you want to lift, lower or dampen, Guden Gas Springs will provide the controlled motion you need. These dependable energy storage devices are tough no matter what industrial or commercial arena you put them in.

Built to go the distance, Guden Gas Springs are constructed from high gauge steel to make them highly resistant to bending and buckling.

CUSTOM GAS SPRINGS

We can supply almost any size or pressure gas spring to suit your application. Damping or double damping can also be incorporated into the gas spring. In addition to our stock end connectors, there are a wide variety of end connectors available on custom order.

APPLICATIONS

From printer covers to hatches and resistance equipment—if the application requires lifting and holding, there's a Guden Gas Spring to do the job.

GGS CHROME PLATED ROD GAS SPRINGS



Rod Dia. (in.) .315 Tube Dia. (in.) .748

Extended Size (in.)	Compressed Size (in.)	Stroke Size (in.)	Standard End Fittings
9.60	6.35	3.25	K
11.90	8.40	3.50	I, K
15.25	10.25	5.00	I, K
15.27	9.77	5.50	K
17.00	11.00	6.00	I, K
19.63	12.63	7.00	I, K
23.03	14.53	8.50	K

Rod Dia. (in.) .394 Tube Dia. (in.) .866

Extended Size (in.)	Compressed Size (in.)	Stroke Size (in.)	Standard End Fittings
27.80	17.80	10.00	C, I, J, K
26.32	15.85	10.50	K
28.00	16.50	11.50	I
35.30	20.30	15.00	C, J

Rod Dia. (in.) .25 Tube Dia. (in.) .591

Extended Size (in.)	Compressed Size (in.)	Stroke Size (in.)	Standard End Fittings
<i>7</i> .50	5.50	2.00	I, K
9.60	6.45	3.15	K
12.00	8.50	3.50	K
14.50	9.50	5.00	K
17.18	11.00	6.18	I, K
19.68	11.68	8.00	K
20.00	11.88	8 12	K

Notes:

- The P1 forces and end fittings listed are the standard sizes we normally stock.
- 2. See page 24 for information on end fittings, ball studs, brackets and clips used for mounting.
- 3. End threads are 5/16-18 unc.

Standard stock pressures from 20 lbs - 150 lbs.



GGN BLACK NITRATE ROD GAS SPRINGS

Superior Corrosion Resistance • Attractive "All Black" Appearance Lower Cost • 2-Year Warranty



Rod Dia. (in.) .315 Tube Dia. (in.) .748

Extended Size (in.)	Compressed Size (in.)	Stroke Size (in.)	Standard End Fittings	
9.60	6.35	3.25	K	
11.90	8.40	3.50	I, K	
15.25	10.25	5.00	I, K	
15.27	9.77	5.50	K	
17.00	11.00	6.00	I, K	
19.63	12.63	7.00	I, K	
23.03	14.53	8.50	K	

Rod Dia. (in.) .394 Tube Dia. (in.) .866

Extended Size (in.)	Compressed Size (in.)	Stroke Size (in.)	Standard End Fittings
27.80	17.80	10.00	C, I, J, K
26.32	15.85	10.50	K
28.00	16.50	11.50	I
35.30	20.30	15.00	C, J

Rod Dia. (in.) .25 Tube Dia. (in.) .591

Extended Size (in.)	Compressed Size (in.)	Stroke Size (in.)	Standard End Fittings
7.50	5.50	2.00	I, K
9.60	6.45	3.15	K
12.00	8.50	3.50	K
14.50	9.50	5.00	K
1 <i>7</i> .18	11.00	6.18	I, K
19.68	11.68	8.00	K
20.00	11.88	8.12	K

Notes:

- The P1 forces and end fittings listed are the standard sizes we normally stock.
- 2. See page 24 for information on end fittings, ball studs, brackets and clips used for mounting.
- 3. End threads are 5/16-18 unc.

Standard stock pressures from 20 lbs - 150 lbs.

STS-316L STAINLESS STEEL GAS SPRINGS

The STS-316L is manufactured of 316L stainless steel, which offers increased corrosion resistance for industrial, marine and sterile environments. Our stainless steel gas springs have a polished tube, and a STS rod for corrosion resistance.



Rod Dia. (in.) .394 Tube Dia. (in.) .866

Extended Size (in.)	Compressed Size (in.)	Stroke Size (in.)	Standard End Fittings
27.80	17.80	10.00	C, I, J, K
26.32	15.85	10.50	K
28.00	16.50	11.50	I
35.30	20.30	15.00	C, J

Rod Dia. (in.) .24 Tube Dia. (in.) .591

Extended Size (in.)	Compressed Size (in.)	Stroke Size (in.)	Standard End Fittings
7.50	5.50	2.00	K
9.60	6.45	3.15	K
10.00	7.00	3.00	K
12.00	8.50	3.50	K
14.50	9.50	5.00	K
15.00	9.50	5.50	K
17.00	10.25	6.75	K
18.50	11.25	7.25	K
19.68	11.68	8.00	K
20.00	12.00	8.00	K

Rod Dia. (in.) .315 Tube Dia. (in.) .748

Size (in.)	Size (in.)	Stroke Size (in.)	End Fittings
11.90	8.40	3.50	K
15.25	10.25	5.00	K
15.27	9.77	5.50	K
17.00	11.00	6.00	K
18.50	11.25	7.25	K
19.63	12.63	7.00	K
20.00	12.00	8.00	K

Notes

- The P1 forces and end fittings listed are the standard sizes we normally stock.
- 2. See page 24 for information on end fittings, ball studs, brackets and clips used for mounting.

Standard stock pressures from 20 lbs - 150 lbs.



GAS SPRINGS AND DAMPERS

DAMPERS



Dampers are used primarily where a heavy load or door must be lowered or swung in a controlled motion at a constant speed. For example, dampers prevent a door from slamming shut or swinging wildly open.

TWO STANDARD TYPES

Two types of standard dampers are available, depending on the physical position in which they are to be used:

- Compression dampers provide controlled speed in the compressive direction. Compression dampers operate best in the shaft up position so that the internal piston remains in the oil.
- Extension dampers provide controlled speed in the extensive direction.
 Extension dampers work best in the shaft down position.

SELECTING THE RIGHT DAMPER

As with Guden Gas Springs, size of load, weight of load, direction of motion and location of mounting points determine the correct size.

CUSTOM DAMPERS

We can supply almost any size damper to suit your application.

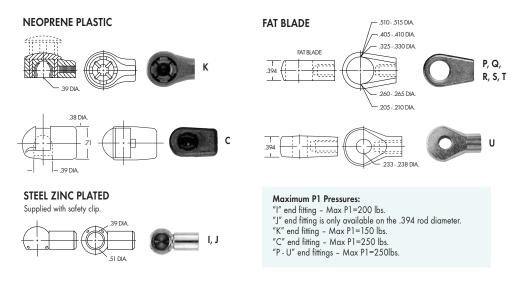
Dampers are available on special order with custom damping rates, and also double damped in both compression and extension.

SIZES

Extended Length (Inches)	Stroke (Inches)	Rod Dia. (Inches)	Tube Dia. (Inches)	Minimum Load (lbs.)	Maximum Load (lbs.)
7.89	2	.24	.59	3	50
10.02	3	.24	.59	3	50
12.50	4	.24	.59	3	50
15.02	5	.24	.59	3	50
12.24	4	.315	.87	20	100
14.49	5	.315	.87	20	100
17.01	6	.315	.87	20	100
19.65	7	.315	.87	20	100

END FITTINGS FOR GAS SPRINGS AND DAMPERS

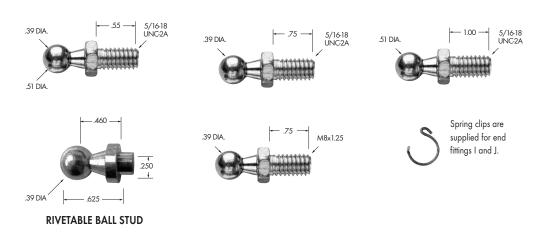
Details on end connector applications and materials are available from Guden. All end fittings are threaded for M6-1.0-6H thread except the "J" end fitting which is threaded for M8-125-6H. Units are in inches.





BALL STUDS & CLIPS FOR GAS SPRINGS AND DAMPERS

Available in steel with zinc finish and stainless steel.



BRACKETS for Gas Springs of 90 lbs Pressure and Under

Supplied with a yellow zinc finish. Black powder coat finish also available.









BRACKETS for All Pressures

Supplied with a yellow zinc finish.













Fits with Fat Blade end fittings.

SALES TERMS AND CONDITIONS

The products you order from H.A. Guden Co., Inc. will be delivered free from defects in material and workmanship and in accordance with your print specifications. If you experience any problem with any Guden product, please contact your Customer Service Representative for a prompt resolution.

Return policy: If, for any reason, your requirements for a Guden stock inventory item should change, contact your Customer Service Representative. Whether the change is due to a revision of specifications, size, quantity or delivery schedule, Guden will endeavor to accommodate your revisions promptly and courteously.

Credit: Orders will be shipped on an open account basis to firms with a satisfactory credit rating. Firms without a published rating should submit a completed credit reference application. To expedite your initial order, you may request your shipment C.O.D., or send payment in advance until credit can be established.

Terms: Normal payments are due NET 30 DAYS from date of invoice.

Freight: All shipments are F.O.B. our plant in Ronkonkoma, LI, NY. Our shipping department will route via the least costly and most reliable carriers in the event you do not designate one.

For your convenience, we welcome the American Express® Corporate Card, MasterCard, VISA and Discover.











H.A. Guden Co., Inc. 99 Raynor Avenue Ronkonkoma, NY 11779-6634 800-3-HINGES • 631-737-2900

Fax: 631-737-2933

www.guden.com • info@guden.com