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The Camloc brand was established in 1937. Since that time our fastening systems have been successfully integrated into numerous applications within many different industries.

Our customers benefit from our more than 80 years of fastening experience.

We provide local support for innovative, high quality fastening systems supplied globally to the strictest environmental and working conditions.



IATF 16949:2016



ISO 14001: 2015

Your Howmet Fastening Systems team

Disclaimer:

Parts listed are subject to technical changes. All dimensions in mm. All information is correct to the best of our knowledge at the time of printing. No liability for disadvantages caused by printing errors or false application.

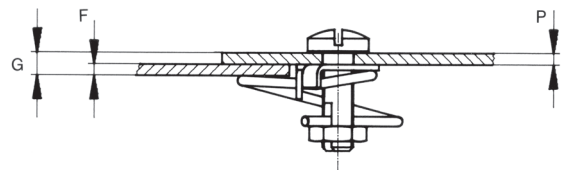
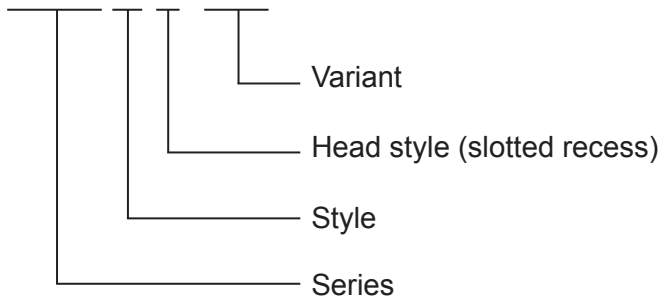
Features

Wide grip range (total thickness G up to 15 mm).
Suitable for a large range of applications.
Easy installation with single-hole mounting.
Either tool-operated (slotted recess head) or hand-operated (fixed wing head).
Clockwise locking 3/4 turn maximum.

Part no. example

Pawl Latches, slotted recess head, with decorative washer.

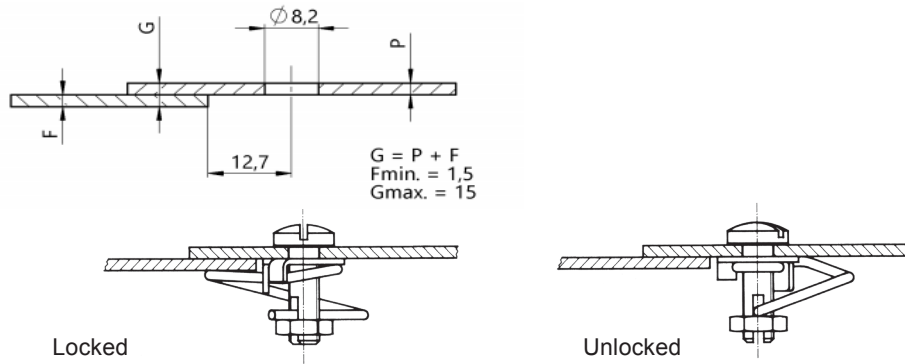
V964L 01 -1 -2AG



$$G = P + F \text{ (see page B-2)}$$

Style	Dimensions	Materials / Finish	°C	Part No.
Slotted Recess Head 		Stud: Steel / zinc-plated CrVI-free, clear passivation Spring: Stainless steel	120	V964L01-1-1AG
Slotted Recess Head with Decorative Washer 		Stud: Steel / zinc-plated CrVI-free, clear passivation Spring: Stainless steel	120	V964L01-1-2AG
Fixed Wing Handle Plastic 		Stud: Steel / zinc-plated CrVI-free, clear passivation Spring: Stainless steel Wing: Plastic (POM) black	-40 up to +100	V964L01-2-1AG

Installation Dimensions



Features

Variable grip fastener. Available in two grip ranges from 1,0 mm to 18,8 mm.

Tool or hand operated head styles available.

Single hole mounting - low installation cost.

Clockwise locking as standard.

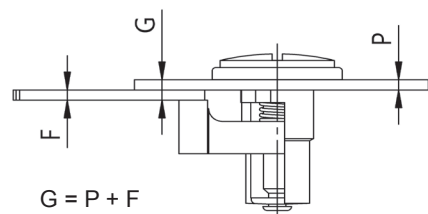
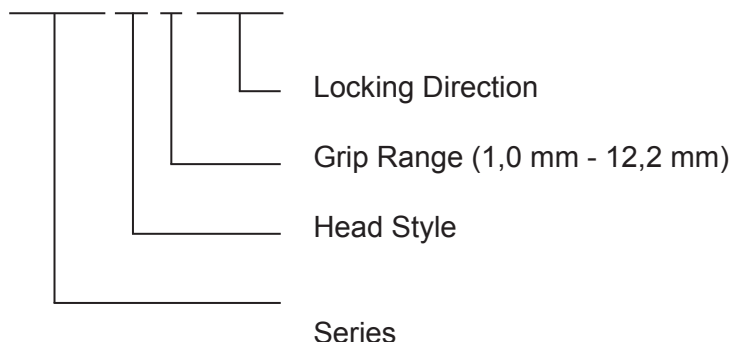
Counterclockwise locking fasteners upon request.

Part no. example

Pawl Latches, Flat head.

Grip range 1,0 mm - 12,2 mm.

V965L 23 -1 R1AG

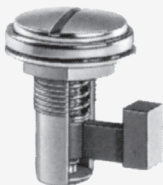
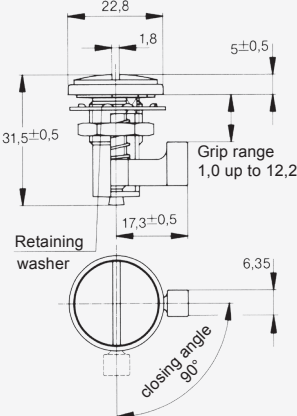

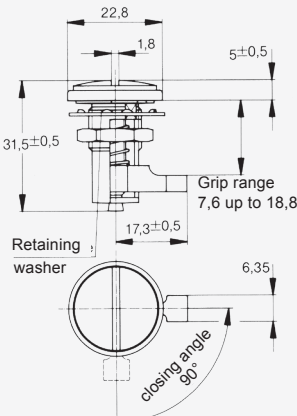



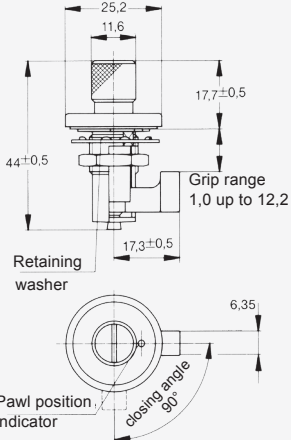

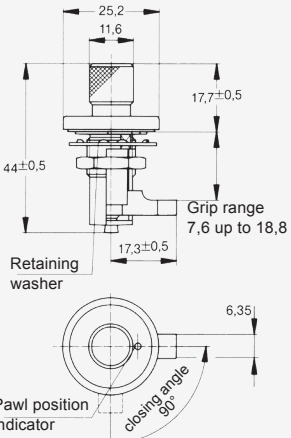
$$G = P + F$$

$$P_{min} = 0,5mm$$

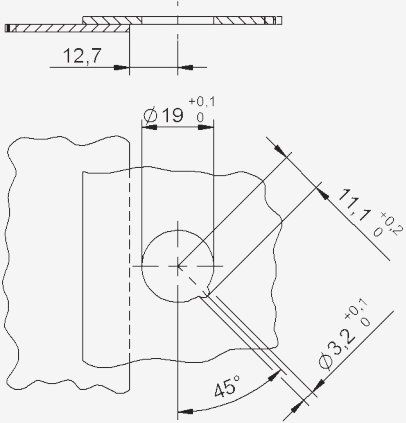
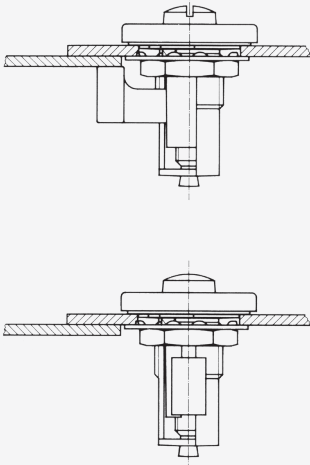
$$P_{max} = 0,5mm$$

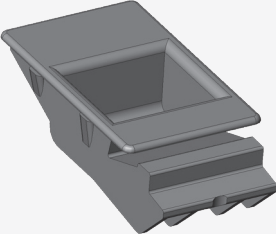
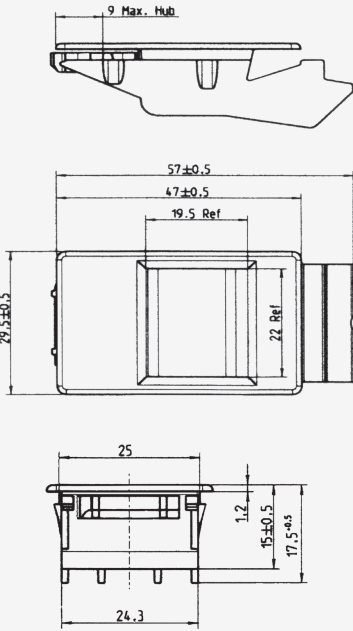
For $G = 7,6mm$ to $18,8mm$ applies $P+F \geq 7,6mm$

Style	Dimensions	Materials / Finish	°C	Part No.
Flat Head Grip Range 1,0 up to 12,2 	 <p>Grip range 1,0 up to 12,2</p> <p>Retaining washer</p> <p>closing angle 90°</p>	Steel / zinc-plated CrVI-free, clear passivation	-40 up to +100	V965L23-1R1AG
Flat Head Grip Range 7,6 up to 18,8 	 <p>Grip range 7,6 up to 18,8</p> <p>Retaining washer</p> <p>closing angle 90°</p>	Steel / zinc-plated CrVI-free, clear passivation	-40 up to +100	V965L23-2R1AG

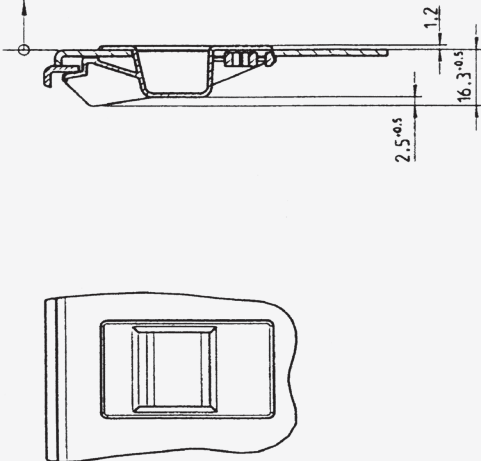
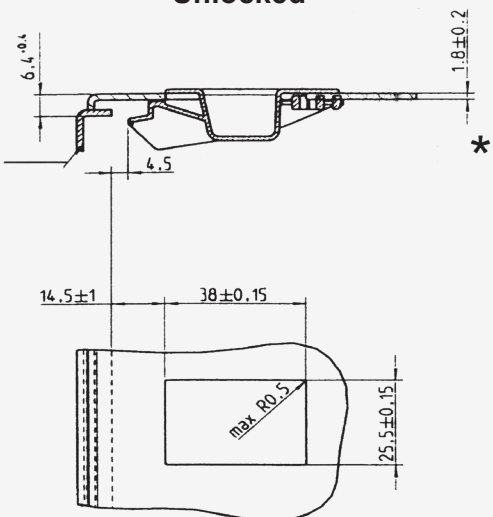
Style	Dimensions	Materials / Finish	°C	Part No.
Knurled Head Grip Range 1,0 up to 12,2 	 <p>25,2 11,6 17,7±0,5 44±0,5 17,3±0,5 Grip range 1,0 up to 12,2 Retaining washer Pawl position indicator closing angle 90° 6,35</p>	Steel / zinc-plated CrVI-free, clear passivation	-40 up to +100	V965L1-1R1AG
Knurled Head Grip Range 7,6 up to 18,8 	 <p>25,2 11,6 17,7±0,5 44±0,5 17,3±0,5 Grip range 7,6 up to 18,8 Retaining washer Pawl position indicator closing angle 90° 6,35</p>	Steel / zinc-plated CrVI-free, clear passivation	-40 up to +100	V965L1-2R1AG

Pawl Latches Installation Instructions

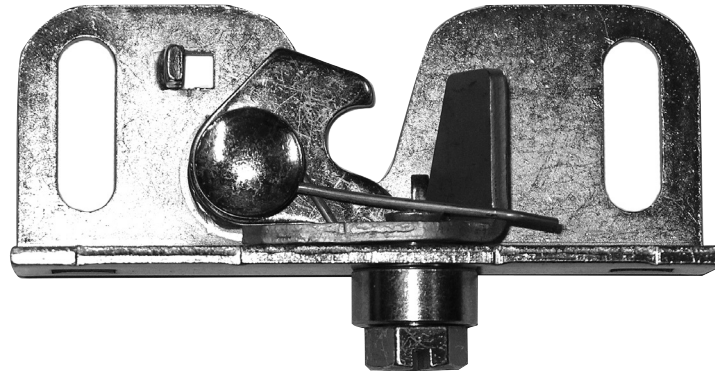
Instruction Dimensions	
<p>Clockwise locking</p>  <p>12,7 Ø19^{+0,1}₀ 11,1^{+0,2}₀ 45° Ø3,2^{+0,1}₀</p> 	

Style	Dimensions	Materials / Finish	°C	Part No.
Slam latch 	 <p>9 Max. Hub</p> <p>57±0.5</p> <p>47±0.5</p> <p>19.5 Ref</p> <p>29.5±0.5</p> <p>22 Ref</p> <p>25</p> <p>1.2</p> <p>15±0.5</p> <p>17.5±0.5</p> <p>24.3</p>	Plastic (POM) black	-10 up to +60	2939L01-01-1K

Installation Instructions

Dimension	
Locked  <p>1.2</p> <p>16.3±0.5</p> <p>2.5±0.5</p>	Unlocked  <p>6.4±0.4</p> <p>1.8±0.2</p> <p>4.5</p> <p>14.5±1</p> <p>38±0.15</p> <p>max R0.5</p> <p>25.5±0.15</p> <p>*</p>

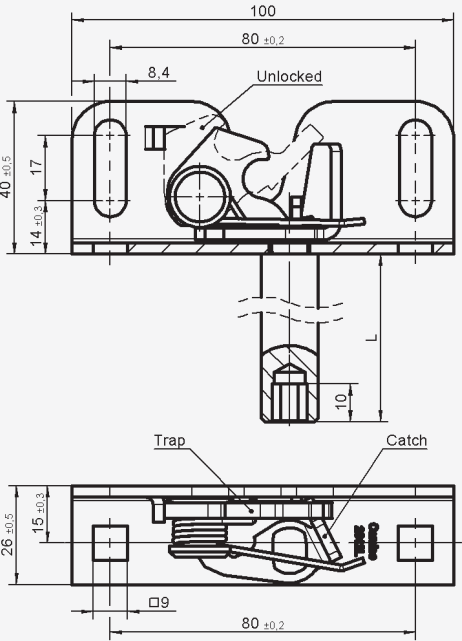
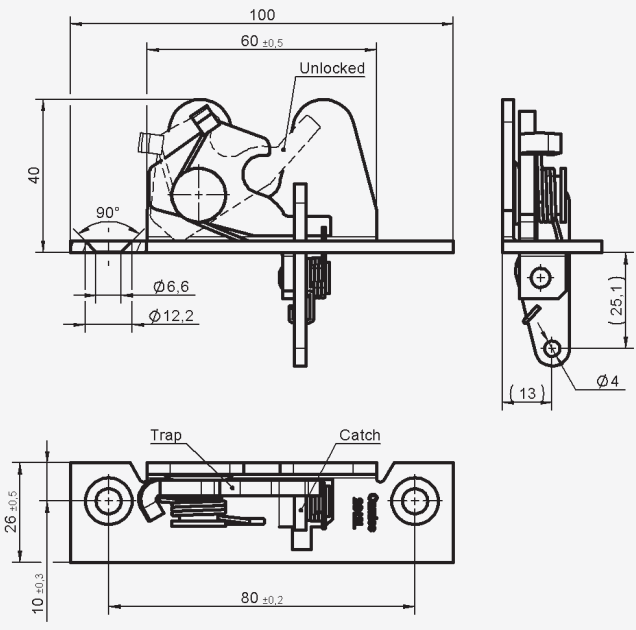
* Other panel thicknesses upon request.

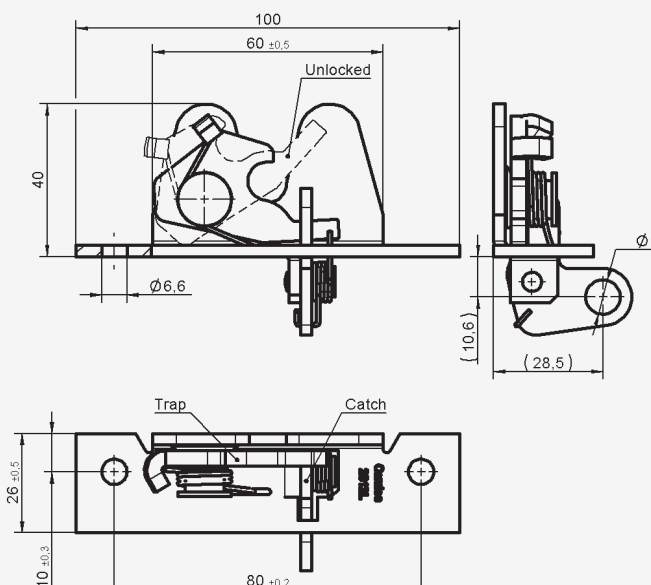
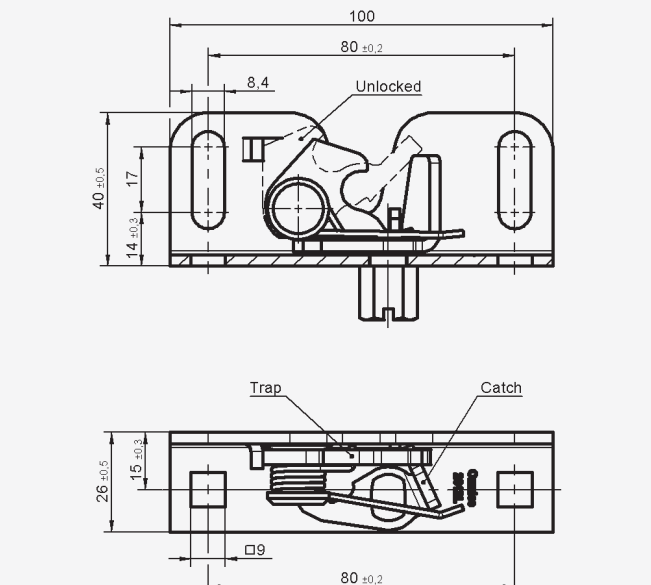


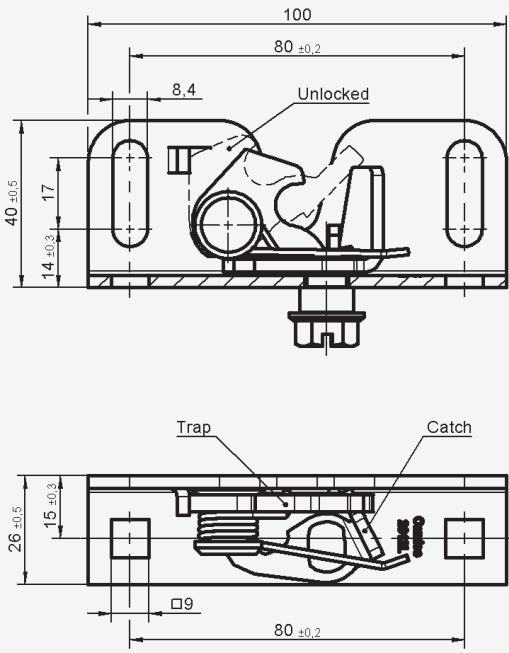
Particular Features

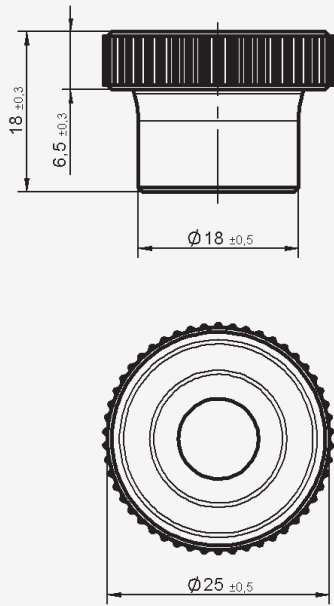
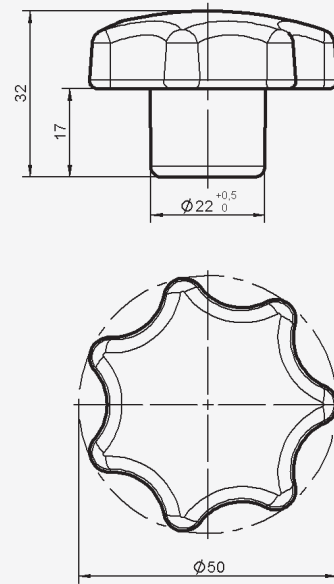
Robust slam latch, self locking
Max. locking force: 230 N
Max. tension strength: 2.400 N
Max. torque: 40 Nm

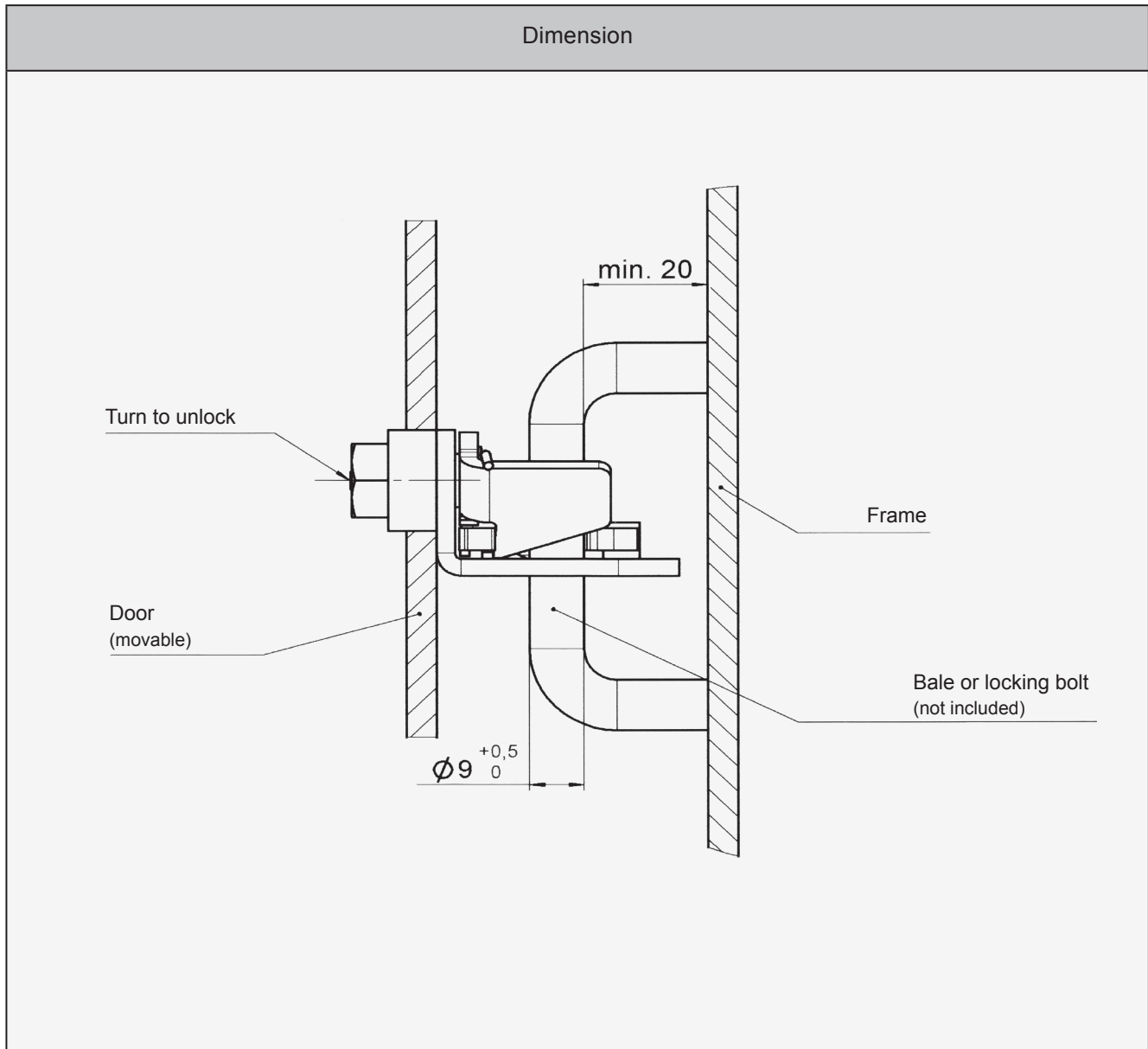
Dimensions	Materials / Finish	Type	°C	Part No.
	Steel / zinc-plated and yellow chromated (CrVI free) Catch: zinc flake coated	A	100	2812L03-1AF
	Steel / zinc-plated and yellow chromated (CrVI free) Catch: zinc flake coated	B	100	2812L03-2AF

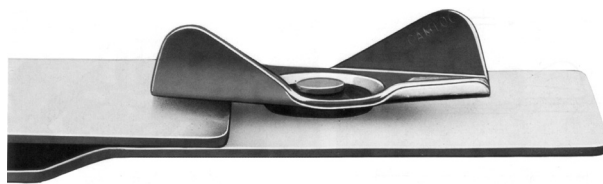
Dimensions	Materials / Finish	L	°C	Part No.
	Steel / zinc-plated and yellow chromated (CrVI free) Catch: zinc flake coated	110	100	2812L05-1AF
	Steel / zinc-plated and yellow chromated (CrVI free) Catch: zinc flake coated	50	100	2812L05-2AF
	Steel / zinc-plated and yellow chromated (CrVI free) Catch: zinc flake coated		100	2812L06-1AF

Dimensions	Materials / Finish	°C	Part No.
 <p>Technical drawing of the 2812L07-1AF Slam Latch. The drawing shows a top view and a side view. The top view shows a rectangular body with a width of 100 and a height of 40. The side view shows a width of 60 ±0.5 and a height of 10 ±0.3. The drawing also shows a detail of the latch mechanism with a width of 28.5 and a height of 10.6. The latch is labeled 'Unlocked'.</p>	Steel / zinc-plated and yellow chromated (CrVI free) Catch: zinc flake coated	100	2812L07-1AF
 <p>Technical drawing of the 2812L08-1AF Slam Latch. The drawing shows a top view and a side view. The top view shows a rectangular body with a width of 100 and a height of 40 ±0.5. The side view shows a width of 80 ±0.2 and a height of 15 ±0.3. The drawing also shows a detail of the latch mechanism with a width of 8.4 and a height of 17. The latch is labeled 'Unlocked'.</p>	Steel / zinc-plated and yellow chromated Catch: zinc flake coated	100	2812L08-1AF

Dimensions	Materials / Finish	°C	Part No.
 <p>Technical drawing of the 2812L Series Slam Latch showing front and side views with dimensions.</p> <p>Front View Dimensions:</p> <ul style="list-style-type: none"> Overall Width: 100 Internal Width: 80 ± 0.2 Top Mounting Hole Spacing: 8.4 Overall Height: 40 ± 0.5 Mounting Hole Diameter: 14 ± 0.3 Internal Height: 17 <p>Side View Dimensions:</p> <ul style="list-style-type: none"> Overall Depth: 26 ± 0.5 Internal Depth: 15 ± 0.3 Internal Width: 80 ± 0.2 Internal Hole Diameter: $\square 9$ <p>Labels: Unlocked, Trap, Catch</p>	<p>Steel / zinc-plated and yellow chromated</p> <p>Catch: zinc flake coated</p>	100	2812L09-1AF

Dimensions	Materials / Finish	°C	Part No.
	Plastic (POM) / black to be used with: 2812L03-1AF 2812L03-2AF 2812L08-1AF 2812L09-1AF	-25 up to +90	2812L80-1K
	Plastic (PA6) / black to be used with: 2812L03-1AF 2812L03-2AF 2812L08-1AF 2812L09-1AF	-40 up to +60	2812L82-1K





Particular Features

Simple and economic fastener for lids, etc.

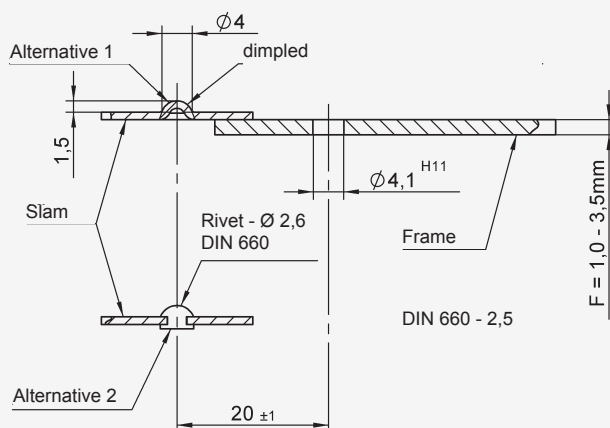
Easy installation by blind riveting.

¼ Turn to lock

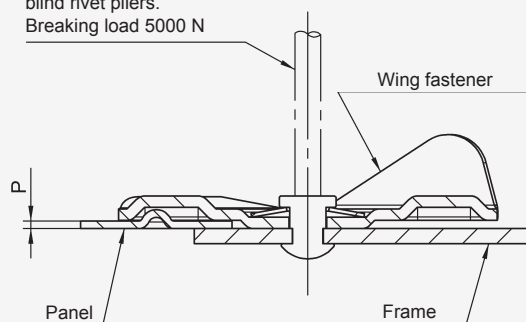
Secure locking on detent.

Dimensions	Materials / Finish	°C	Part No.
	Steel / zinc-plated, CrVI-free, clear passivation	100	52E02-*-1AG

Selection and Installation Instructions



Riveted by standard
blind rivet pliers.
Breaking load 5000 N



Part No.	Panel Thickness P	Height H
52E02-01-1AG	0 (flush)	0,7
52E02-02-1AG	1	1,1
52E02-03-1AG	2	1,7

Particular Features

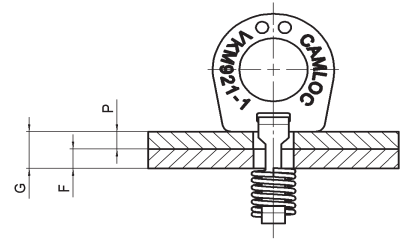
Operation by hand installation.

Easy installation with single-hole mounting.

Absorbs shock and vibration.

Ideal for sheet metal panel applications.

Delivery: spring and clip assembled, handle packed separately.



VKM1040-1AGV

VKM921-1AGV

$G = P + F$

Gmax. = 6mm

Gmin. = 1mm

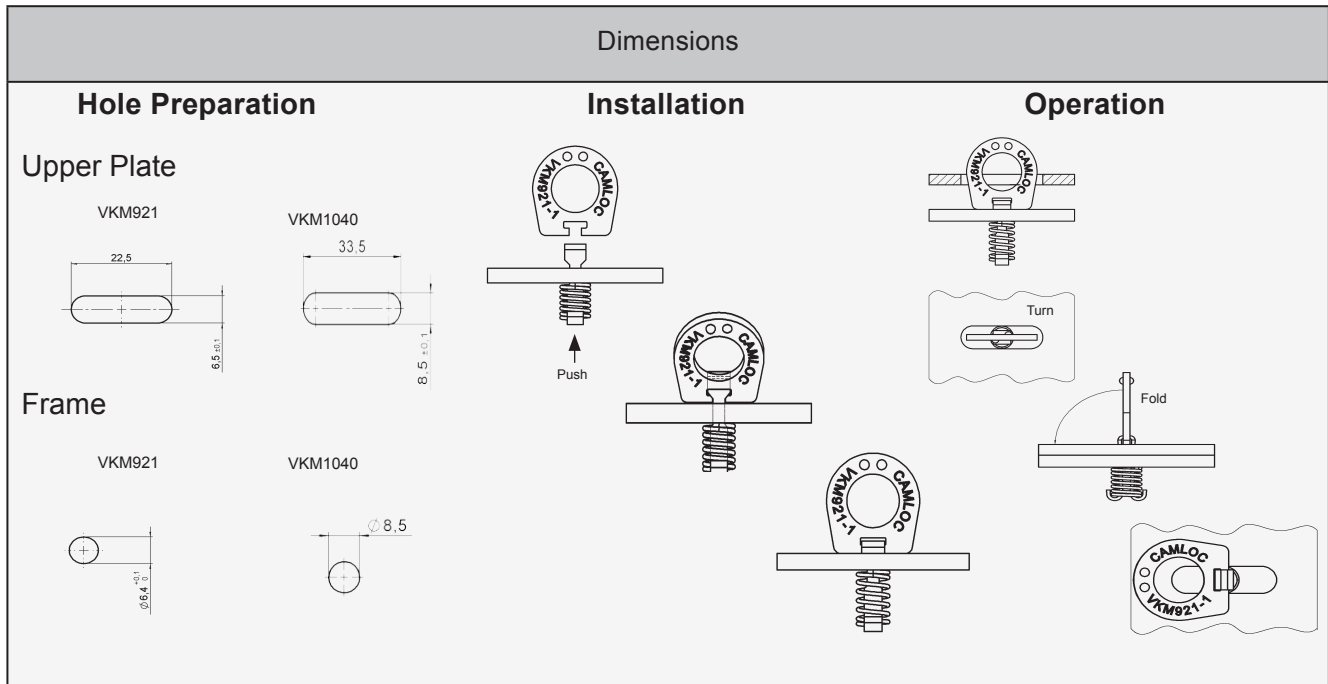
$G = P + F$

Gmax. = 6,35mm

Gmin. = 1,5mm

Product	Dimensions	Materials / Finish	°C	Part No.
folding handle 		Steel / zinc-plated, CrVI-free transparent, iricedent passivated and sealed	120	VKM921-1AGV
folding handle 		Steel / zinc-plated, CrVI-free transparent, iricedent passivated and sealed	120	VKM1040-1AGV

Installation Instructions



YouTube Video:



Part No.	Page
52E02-*-1AG	F1
2812L03-1AF	E1
2812L03-2AF	E1
2812L05-1AF	E2
2812L05-2AF	E2
2812L06-1AF	E2
2812L07-1AF	E3
2812L08-1AF	E3
2812L09-1AF	E4
2812L80-1K	E5
2812L82-1K	E5
2939L01-01-1K	D1
V964L01-1-1AG	B1
V964L01-1-2AG	B1
V964L01-2-1AG	B1
V965L1-1R1AG	C2
V965L1-2R1AG	C2
V965L23-1R1AG	C1
V965L23-2R1AG	C1
VKM921-1AGV	G1
VKM1040-1AGV	G1