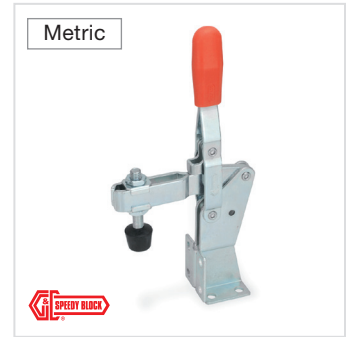
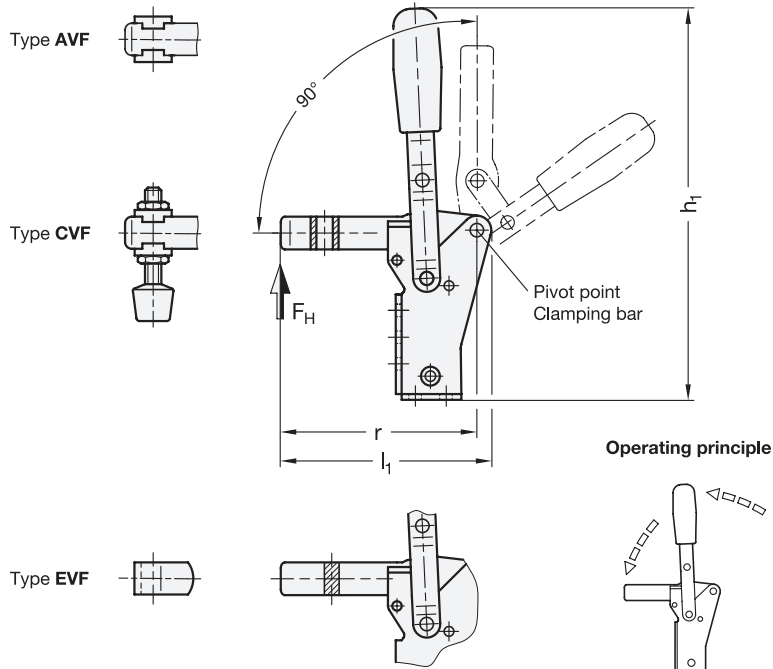


# GN 812.1 Vertical Acting Toggle Clamps

Steel, with Dual Flanged Mounting Base



## 2 Type

- AVF** U-bar version, with two flanged washers
- CVF** U-bar version, with two flanged washers and GN 708.1 spindle assembly
- EVF** Solid bar version, with weldable clasp

## Specification

- Toggle clamp
  - Case-hardened steel C10
  - Zinc plated, blue passivated finish
  - Tempered bearing pins
  - Case-hardened bearing rivets
- All moving parts lubricated with special grease
- Hand grip
  - High quality, oil resistant red plastic
- Spindle assembly GN 708.1, Type A → page QVX
  - Steel, zinc plated, blue passivated finish
  - Rubber tip 85 shore A
- RoHS compliant

## Accessory

- Spindle assemblies → starting from page QVX
- Clamp mounts GN 801 (for Type AVF) → page QVX

## Information

GN 812.1 vertical acting toggle clamps work according to the toggle principle: lever and clamping bar move in the same direction. In the clamped position the operating lever is in its vertical position.

They can be mounted in two planes via the dual flanged mounting base and require less space for the clamping action.

Vertical acting toggle clamps in the U-bar version with two flanged washers (Type AVF) can accommodate an application specific clamping screw. A spindle assembly with neoprene rubber tip is also included for Type CVF.

Type EVF version can either be utilized by welding the clasp which can then accommodate an application specific hold-down fastener component to hold the workpiece in place.

see also...

- *General Information on Toggle Clamps* → page QVX

How to order

**GN812.1-230-EVF**

1 Size

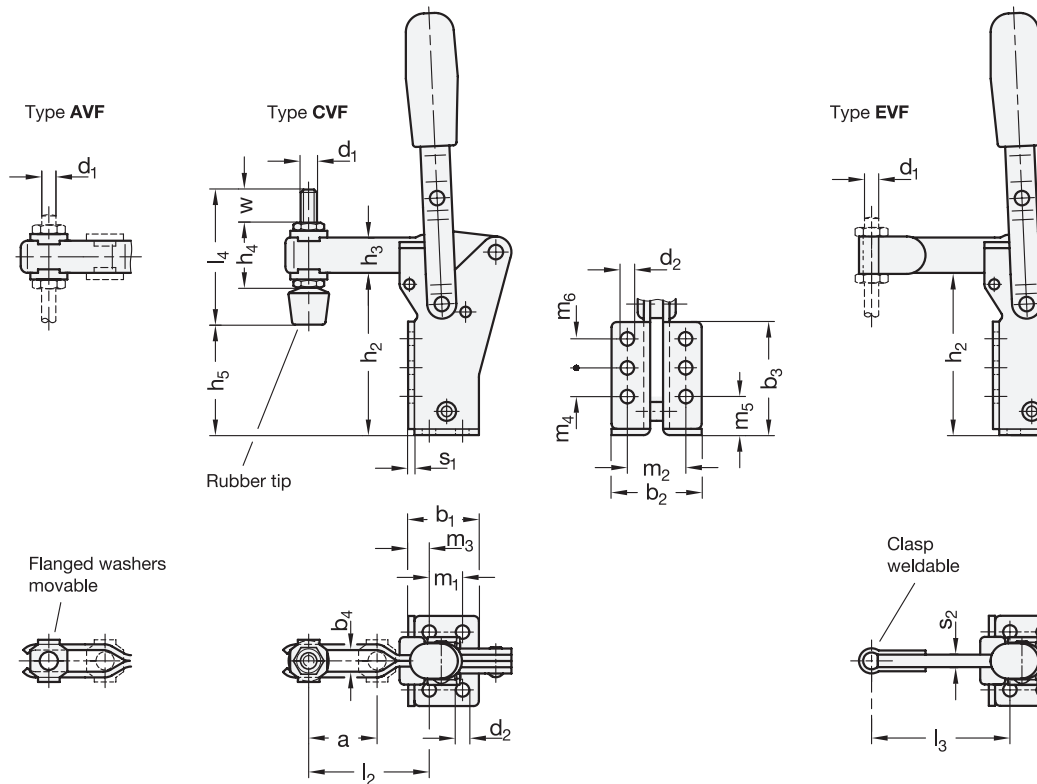
2 Type

**Metric table**

Dimensions in: millimeters - inches

Size	F <sub>H</sub> Holding capacity	a ≈	b <sub>1</sub>	b <sub>2</sub>	b <sub>3</sub>	b <sub>4</sub>	d <sub>1</sub>	d <sub>2</sub>	h <sub>1</sub> ≈	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub> ≈	h <sub>5</sub> max.
75	750 N 169 lbf	20 0.79	24 0.94	34 1.34	30 1.18	5.2 0.20	M 5	4.5 0.18	120 4.72	43 1.69	11 0.43	19 0.75	28 1.10
130	1100 N 247 lbf	28 1.10	31.5 1.24	42 1.65	49 1.93	6.2 0.24	M 6	5.6 0.22	184 7.24	70 2.76	16 0.63	25.5 1.00	53 2.09
230	2200 N 495 lbf	40 1.57	35.5 1.40	38 1.50	51 2.01	8.5 0.33	M 8	6.5 0.26	222 8.74	87 3.43	18 0.71	30 1.18	63 2.48
330	2600 N 585 lbf	45 1.77	49 1.93	48 1.89	79 3.11	10.5 0.41	M 10	8.5 0.33	259 10.20	107 4.21	22 0.87	37 1.46	79 3.11

Size	l <sub>1</sub> ≈		l <sub>2</sub>	l <sub>3</sub> max.	l <sub>4</sub>	m <sub>1</sub>	m <sub>2</sub>	m <sub>3</sub>	m <sub>4</sub>	m <sub>5</sub>	m <sub>6</sub>	r		s <sub>1</sub>	s <sub>2</sub>	w
	Type AVF Type CVF	Type EVF										Type AVF Type CVF	Type EVF			
75	67 2.64	67.5 2.66	37 1.46	46 1.81	45 1.77	12.5 0.49	24 0.94	7 0.28	12.5 0.49	10 0.39	-	62.5 2.46	63 2.48	2 0.08	4 0.16	15 0.59
130	85 3.35	86 3.39	46.5 1.83	58 2.28	55 2.17	12.5 0.49	27 1.06	11 0.43	12.5 0.49	16 0.63	12.5 0.49	79 3.11	80 3.15	2.5 0.10	5 0.20	17.5 0.69
230	111 4.37	112 4.41	66.5 2.62	81 3.19	68 2.68	16 0.63	26 1.02	11 0.43	16 0.63	11 0.43	14.3 0.56	103.5 4.07	104.5 4.11	3 0.12	6 0.24	20 0.79
330	129 5.08	131 5.16	73 2.87	91 3.58	77 3.03	28 1.10	30 1.18	12.3 0.48	30 1.18	19 0.75	20 0.79	121 4.76	123.5 4.86	3.5 0.14	7 0.28	19 0.75



1.1  
1.2  
1.3  
1.4  
2.1  
2.2  
2.3  
2.4

