

Toggle Clamps

Steel, Operating Lever Vertical, with Dual Flanged Mounting Base

SPECIFICATION

Types

- Type **AV**: Forked clamping arm, with two flanged washers
- Type **CV**: Forked clamping arm, with two flanged washers and clamping screw GN 708.1
- Type **EV**: Solid clamping arm, with clasp for welding

Tensioning mechanism

Steel

- Sheet metal parts
- Case hardening steel C10, zinc plated, blue passivated
- Bearing pins tempered
- Bearing rivets case-hardened
- Moving parts lubricated with special grease

Handle

Plastic

Red, oil resistant

Clasp for type EV

Steel zinc plated, blue passivated

Flanged washers GN 898 for type AV / CV

Steel

Zinc plated, blue passivated

Clamping screw GN 708.1 for type CV

- Steel, zinc plated, blue passivated
- Thrust pad
- Chloroprene rubber (CR)
 - Hardness 85 Shore A $\approx$
 - Vulcanized
 - Black
 - Type A (flat pressure area)



INFORMATION

Toggle clamps GN 812 work according to the toggle principle. Lever and clamping bar move in the same direction. They can be mounted in two planes via the dual flanged mounting base and require less space for the clamping action because the clamping arm and the operating lever move in opposite directions.

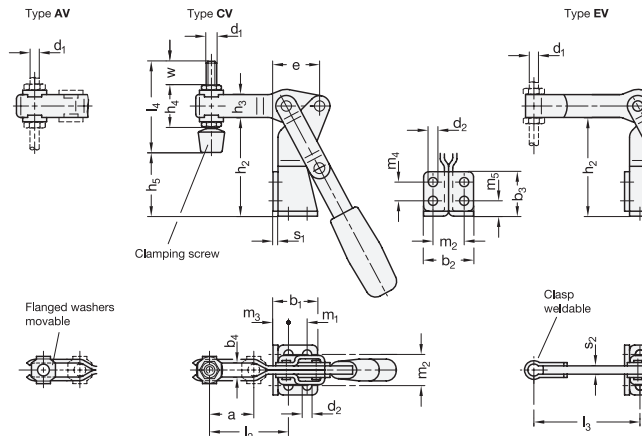
Toggle clamps in the U-bar version with two flanged washers (type AV) can accommodate an application specific clamping screw. A clamping screw with neoprene rubber tip is also included for type CV. Toggle clamps in the type EV version can either be utilized by welding the clasp which can then accommodate an application specific hold-down fastener component.

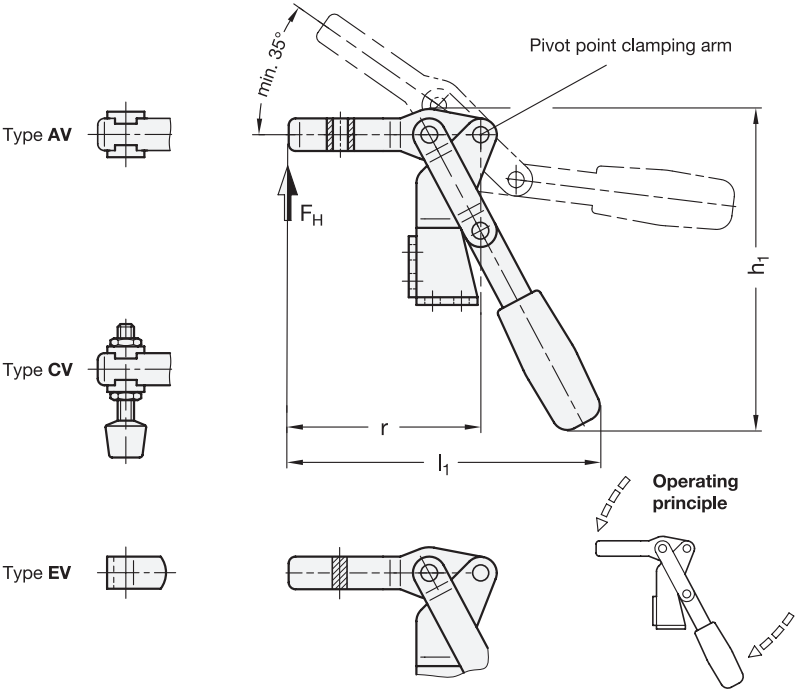
ACCESSORY

- Clamping Screws
- GN 801 (see page 1629) Holders for Clamping Screws (for Type AV)

TECHNICAL INFORMATION

- General Information for Toggle Clamps (see page 1560)
- Plastic Characteristics (see page A2)





GN 812-AV

Description	Size	F_H Holding capacity in N	$a \approx$	b_1	b_2	b_3	b_4	d_1	d_2	e	$h_1 \approx$	h_2	h_3	$l_1 \approx$	$l_2 \approx$	m_1	m_2	m_3	m_4	m_5	$r \approx$	s_1	
GN 812-200-AV	200	1200	34	35	38	35	8.5	M 8	6.5	37	154	76	17	158	59	16	26	11	16	11	96	3	420
GN 812-300-AV	300	1900	42	48	48	51	10.4	M 10	8.5	46	198	108	20	194	74	28	30	11.5	30	12	122	3	800

GN 812-CV

Description	Size	F_H Holding capacity in N	$a \approx$	b_1	b_2	b_3	b_4	d_1	d_2	e	$h_1 \approx$	h_2	h_3	h_4	h_5 max.	$l_1 \approx$	$l_2 \approx$	l_4	m_1	m_2	m_3	m_4	m_5	$r \approx$	s_1	w Adjustable range	
GN 812-200-CV	200	1200	34	35	38	35	8.5	M 8	6.5	37	154	76	17	29	52	158	59	68	16	26	11	16	11	96	3	21	480
GN 812-300-CV	300	1900	42	48	48	51	10.4	M 10	8.5	46	198	108	20	35	79.5	194	74	77	28	30	11.5	30	12	122	3	21	700

GN 812-EV

Description	Size	F_H Holding capacity in N	b_1	b_2	b_3	b_4	d_1	d_2	e	$h_1 \approx$	h_2	h_3	$l_1 \approx$	l_3 max.	m_1	m_2	m_3	m_4	m_5	$r \approx$	s_1	s_2	
GN 812-200-EV	200	1200	35	38	35	8.5	M 8	6.5	37	154	76	17	158	76	16	26	11	16	11	96	3	6	420
GN 812-300-EV	300	1900	48	48	51	10.4	M 10	8.5	46	198	108	20	194	95	28	30	11.5	30	12	122	3	8	800