

Series 8007 Product Overview

Features:

- Hardened pins and bushing at all pivot points for long life cycle
- Solid clamping bar may be modified to suit application requirements
- Sensor ready for round or T-slot style sensors

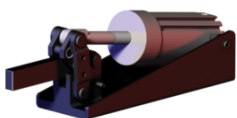
Applications:

- Assembly
- Welding

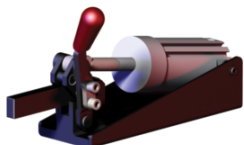
Also Available:

See page 13.1 for sensing options

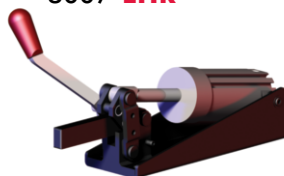
8007-E



8007-EHL



8007-EHR



Series 8007 Technical Information, Holding Capacities

Model	Maximum Holding Capacity		Max. Exerting Force @ 5bar [72PSI]		Weight	Port Size
	Inner	Outer	Inner	Outer		
8007-E					1,6kg [3.53lb]	G-1/8
8007-EHL	[830 lbf] 3700 N	[405 lbf] 1800 N	[606 lbf] 2700 N	[405 lbf] 1800 N	1,7kg [3.75lb]	
8007-EHR						

See Technical Appendix Section for details.

Max Cylinder Pressure: 10bar [145psig]*

Max Operating Temp: -10°C to 90°C [-14°F to 194°F]

*In no case should the inlet pressure be high enough to create an exerting force that exceed's the clamps' holding capacity.

Sensor Accessories

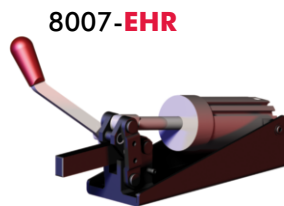
Round Reed Switch with Quick Disconnect
T-slot Reed Switch with Quick Disconnect
Quick Disconnect 2M Extension Cable
Quick Disconnect 5M Extension Cable

Item Number

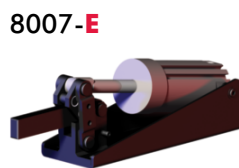
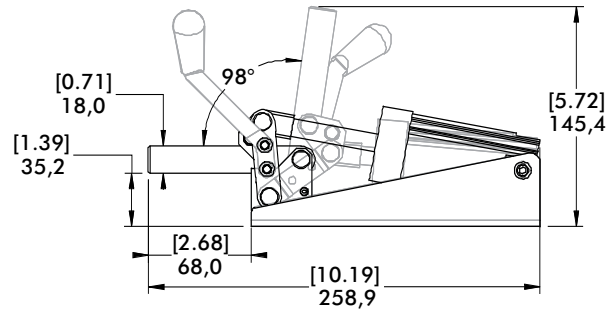
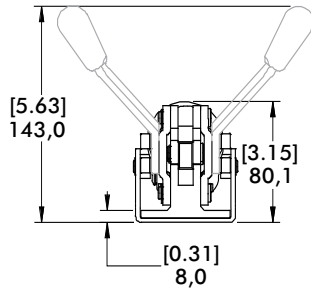
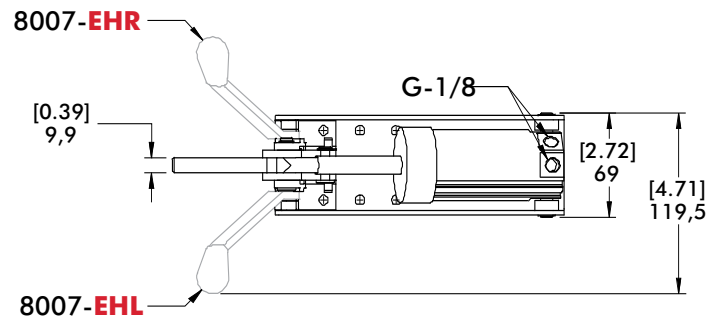
810169
8EA-109-1
CABL-010
CABL-013

See Pneumatic Accessories section for more options

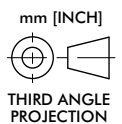
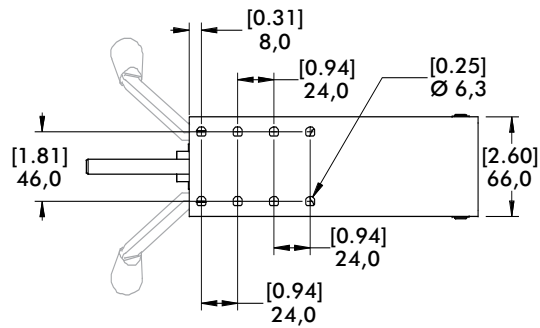
Series 8007 Standard Clamp Dimensions -E/-EHL/-EHR



8007-EHR



8007-E



Features:

- Sensors are activated by a magnetic ring installed on the cylinder piston
- All sensors feature an LED for easy set-up
- IP67 rated
- Temperature Range: -10°C to 60°C [14°F to 140°F]

810169,
810173,
810174



8EA-109-1,
8EA-120-1,
810170,
810171



810151,
810153,
810155,
810157



810156,
810158



810153

**Sensors** Technical Information

Item Number	Mount Style	Connector	Length	Function	Voltage	Max. Switching Current	Voltage Drop
810169	Round	M8 male quick connect	165mm [6.5in.]	Reed	5-120V AC/DC	50mA	3.0V
810173				PNP	4.5-28V DC	100mA	0.5V
810174				NPN	4.5-28V DC	100mA	0.5V
8EA-109-1	T-slot	M8 male quick connect	300mm [11.8in.]	PNP	10-30V DC	100mA	3.0V
8EA-120-1		M12 male quick connect	300mm [11.8in.]	Reed	15-30V DC	500mA	1.5V
810170		M8 male quick connect	165mm [6.5in.]	PNP	10-30V DC	100mA	2.0V
810171				NPN	10-30V DC	100mA	2.0V
810151	Tie Rod	No connector cord	2.7m [9ft.]	Reed	5-120V AC/DC	500mA	3.5V
810153				Reed	24-240V AC	4A	1.0V
810155				PNP	6-24V DC	500mA	1.0V
810157				NPN	6-24V DC	500mA	1.0V
810156	Band Clamp			Reed	5-120V AC/DC	500mA	3.5V
810158				PNP	6-24V DC	500mA	1.0V

Extension Cordsets

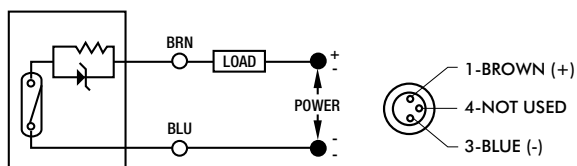
Features:

- For use with M8 quick connect sensors
- Threaded coupling nuts provide IP67 protection
- Robotic grade, oil and abrasion resistant polyurethane (PUR) cable

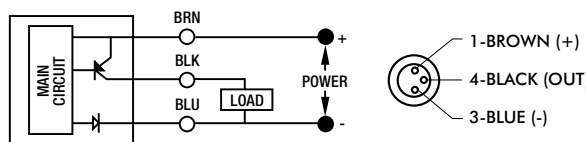
Item Number	Length	Rating	Temperature Rating
CABL-010	2 Meter [78in.]	120V AC/DC, 3A max.	-20°C to 80°C [-40°F to 176°F]
CABL-013	5meter [16.4ft.]		

Wiring Schematics

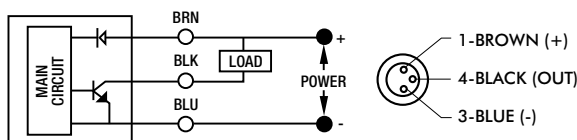
810169



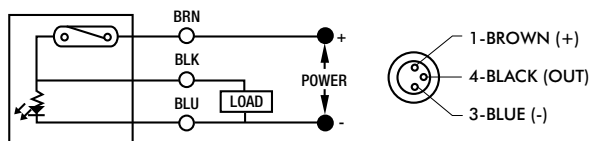
810170, 810173



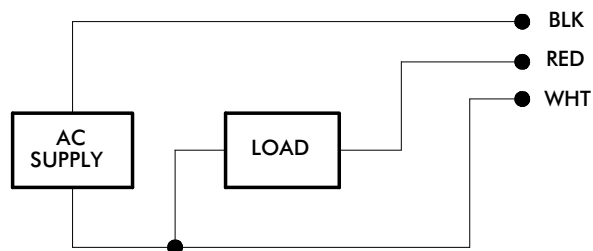
810171, 810174



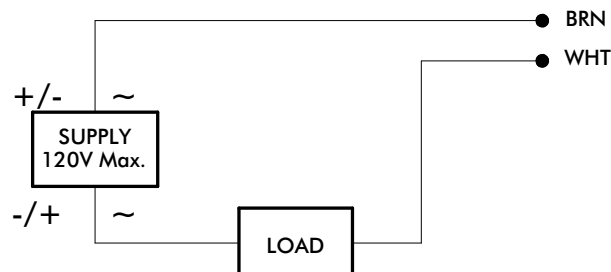
8EA-109-1, 8EA-120-1



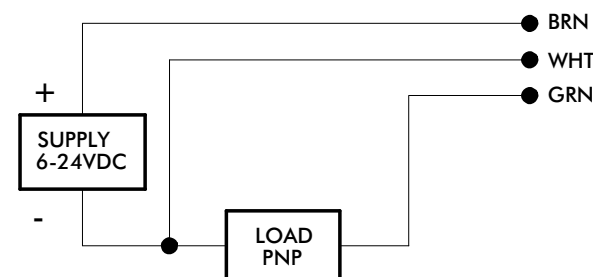
810153



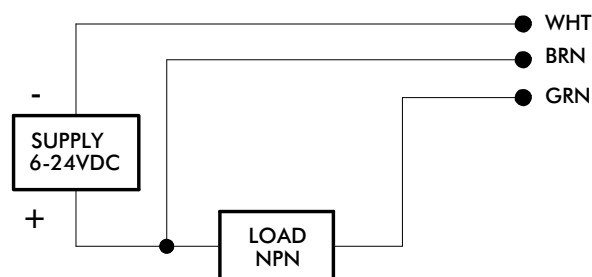
810151, 810156



810155, 810158



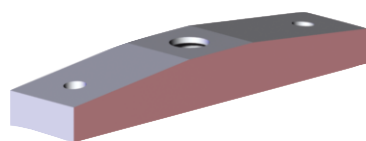
810157, 810158



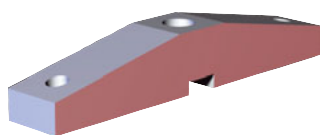
T-Style Clamping Arm

Features:

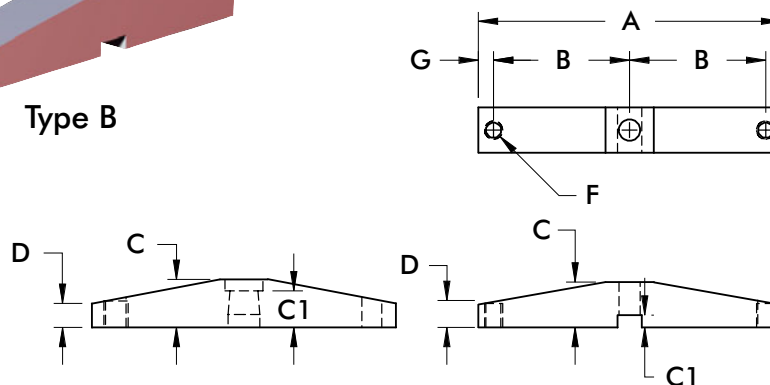
- For standard use
- Aluminum construction



Type A



Type B

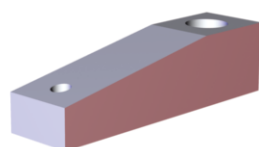


Part Number	Type	Used with Model/series	A	B	C	C1	D	E	F	G	Weight [lbs] kg
801530	A	8015/8016 8115/8116	[2.88] 73.0	[1.12] 28.4	[0.39] 9.9	[0.33] 8.3	[0.27] 6.9	[0.62] 15.7	#10-32	[0.32] 8.1	[0.05] 0.02
801531	A	8015/8016 8115/8116	[5.12] 130.0	[2.25] 57.2	[0.39] 9.9	[0.33] 8.3	[0.27] 6.9	[0.62] 15.7	#10-32	[0.32] 8.1	[0.09] 0.04
821554	A	8215/8216 8415/8416 8315/8316	[4.75] 120.7	[2.00] 50.8	[0.75] 19.1	[0.57] 14.5	[0.37] 9.4	[0.75] 19.1	3/8-16	[0.37] 9.4	[0.07] 0.03
821555	A	8215/8216 8415/8416 8315/8316	[6.75] 171.5	[3.00] 76.2	[0.75] 19.1	[0.57] 14.5	[0.37] 9.4	[0.75] 19.1	3/8-16	[0.37] 9.4	[0.10] 0.05
952254	B	9522	[3.94] 100.0	[1.77] 45.0	[0.59] 15.0	[0.16] 4.0	[0.31] 8.0	[0.59] 15.0	M6	[0.20] 5.0	[0.10] 0.05
952255	B	9522	[5.51] 140.0	[2.56] 65.0	[0.59] 15.0	[0.16] 4.0	[0.31] 8.0	[0.59] 15.0	M6	[0.20] 5.0	[0.14] 0.06
954054	B	9530/9540	[4.72] 120.0	[1.97] 50.0	[0.79] 20.0	[0.20] 5.0	[0.39] 10.0	[0.79] 20.0	M8	[0.39] 10.0	[0.08] 0.04
954055	B	9530/9540	[7.09] 180.0	[3.15] 80.0	[0.79] 20.0	[0.20] 5.0	[0.39] 10.0	[0.79] 20.0	M8	[0.39] 10.0	[0.12] 0.05

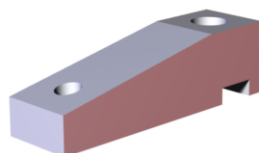
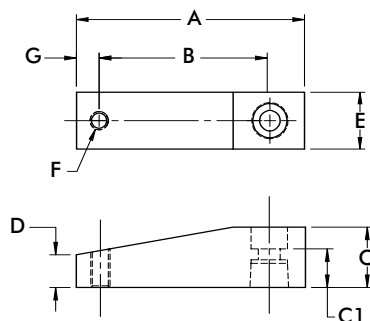
Standard Clamping Arm

Features:

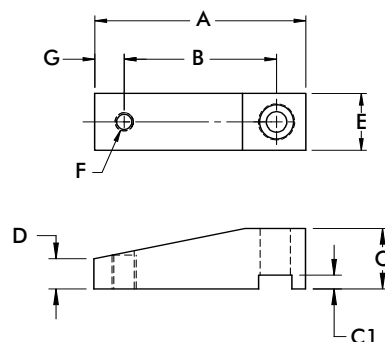
- For standard use
- Aluminum construction



Type A



Type B

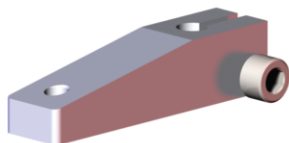


Part Number	Type	Used with Model/series	A	B	C	C1	D	E	F	G	Weight [lbs] kg
8JG-215-1	A	89R20-010-2 89B20-010-1 89E20-010-1	[2.64] 67	[2.05] 52	[0.59] 15	[0.33] 8.5	[0.24] 6	[0.59] 15	M6	[0.28] 7	[0.08] 0.04
8JG-217-1	A	89R32-010-2 89B30-010-1 89E30-010-1	[3.15] 80	[2.36] 60	[0.79] 20	[0.37] 9.5	[0.33] 8.5	[0.79] 20	M8	[0.39] 10	[0.14] 0.06
8JG-218-1	A	89R40-010-2 89R40-025-2 89B40-010-1 89E40-010-1	[3.74] 95	[2.76] 70	[0.98] 25	[0.45] 11.5	[0.55] 14	[0.98] 25	M8	[0.39] 10	[0.28] 0.13
8JG-219-1	A	89R50-025-2 89B50-025-1 89E50-025-1	[4.17] 106	[3.15] 80	[1.18] 30	[0.59] 15	[0.67] 17	[1.18] 30	M8	[0.39] 10	[0.42] 0.19
8JG-220-1	A	89R63-025-2 89B63-008-1 89E63-008-1	[4.72] 120	[3.54] 90	[1.38] 35	[0.67] 17	[0.79] 20	[1.38] 35	M10	[0.47] 12	[0.66] 0.30
801528	A	8015/8016 8115/8116	[1.74] 44.2	[1.11] 28.2	[0.37] 9.4	[0.33] 8.3	[0.25] 6.4	[0.62] 15.7	#10-32	[0.32] 8.1	[0.03] 0.01
801529	A	8015/8016 8115/8116	[2.87] 72.9	[2.24] 56.9	[0.37] 9.4	[0.33] 8.3	[0.25] 6.4	[0.62] 15.7	#10-32	[0.32] 8.1	[0.05] 0.02
821512	A	8215/8216 8415/8416 8315/8316	[2.75] 69.9	[2.00] 50.8	[0.75] 19.1	[0.57] 14.5	[0.38] 9.5	[0.75] 19.1	3/8-16	[0.38] 9.5	[0.04] 0.02
821513	A	8215/8216 8315/8316	[3.75] 95.3	[3.00] 76.2	[0.75] 19.1	[0.57] 14.5	[0.38] 9.5	[0.75] 19.1	3/8-16	[0.38] 9.5	[0.05] 0.02
841512	A	8415/8416	[2.31] 58.7	[1.56] 39.7	[0.75] 19.1	[0.57] 14.5	[0.38] 9.5	[0.75] 19.1	3/8-16	[0.38] 9.5	[0.03] 0.01
952250	B	9522	[2.28] 58	[1.77] 45	[0.59] 15	[0.16] 4	[0.30] 7.5	[0.59] 15	M6	[0.20] 5	[0.06] 0.03
952253	B	9522	[3.07] 78	[2.56] 65	[0.59] 15	[0.16] 4	[0.30] 7.5	[0.59] 15	M6	[0.20] 5	[0.08] 0.04
954050	B	9530/9540	[2.76] 70	[1.97] 50	[0.79] 20	[0.18] 4.6	[0.39] 10	[0.79] 20	M8	[0.39] 10	[0.12] 0.05
954053	B	9530/9540	[3.94] 100	[3.15] 80	[0.79] 20	[0.18] 4.6	[0.39] 10	[0.79] 20	M8	[0.39] 10	[0.18] 0.08

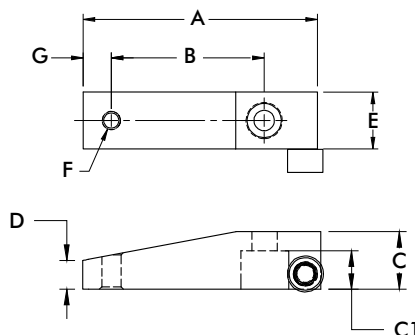
Standard Clamping Arm

Features:

- For standard use
- Aluminum construction



Type C



Part Number	Type	Used with Model/series	A	B	C	C1	D	E	F	G	Weight [lbs] kg
036-551-01	C	035-125-190									
		035-125-290	[2.38]	[1.36]	[0.63]	[0.40]	[0.31]	[0.75]	1/4-20	[0.32]	[0.10]
		035-225-190	60.5	34.5	15.9	10.2	8.0	19.1		8.0	0.05
		035-225-290									
036-551-02	C	035-125-190									
		035-125-290	[3.38]	[2.36]	[0.63]	[0.40]	[0.31]	[0.75]	1/4-20	[0.32]	[0.13]
		035-225-190	85.9	60.0	15.9	10.2	8.0	19.1		8.0	0.06
		035-225-290									
036-630-01	C	035-132-190									
		035-132-290									
		035-232-190									
		035-232-290	[3.10]	[2.00]	[0.75]	[0.50]	[0.38]	[0.75]	5/16-18	[0.38]	[0.15]
		035-140-190	78.7	50.8	19.1	12.7	9.5	19.1		9.5	0.07
		035-140-290									
036-630-02	C	035-240-190									
		035-240-290									
		035-132-190									
		035-132-290									
		035-232-190									
		035-232-290	[4.73]	[3.63]	[0.75]	[0.50]	[0.38]	[0.75]	5/16-18	[0.38]	[0.21]
036-787-01	C	035-140-190	120.0	92.1	19.1	12.7	9.5	19.1		9.5	0.10
		035-140-290									
		035-240-190									
		035-240-290									
036-787-01	C	035-150-190									
		035-150-290	[4.00]	[2.75]	[1.00]	[0.70]	[0.50]	[1.00]	3/8-16	[0.38]	[0.33]
		035-250-190	101.6	69.9	25.4	17.8	12.7	25.4		9.5	0.15
		035-250-290									
036-787-02	C	035-150-190									
		035-150-290	[6.36]	[5.00]	[1.00]	[0.70]	[0.50]	[1.00]	3/8-16	[0.38]	[0.49]
		035-250-190	161.5	127.0	25.4	17.8	12.7	25.4		9.5	0.22
		035-250-290									

Series 800, 1200 Product Overview

Features:

- Low profile and compact for mounting in tight spaces
- Uniform clamping force throughout full stroke
- Accommodates variable workpiece thickness
- Single acting

Applications:

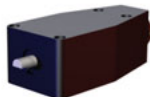
- Assembly
- Welding
- Light machining

How it Works:

1. Clamp arm retracts fully for loading and unloading.
2. Clamp arm moves straight forward.
3. Clamp arm pivots down to hold workpiece.

800
800-E

1200 ⓘ
1200-E ⓘ

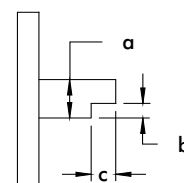
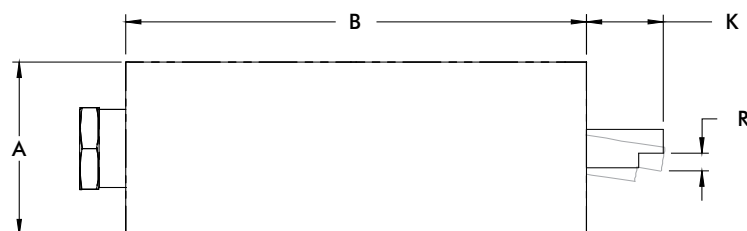
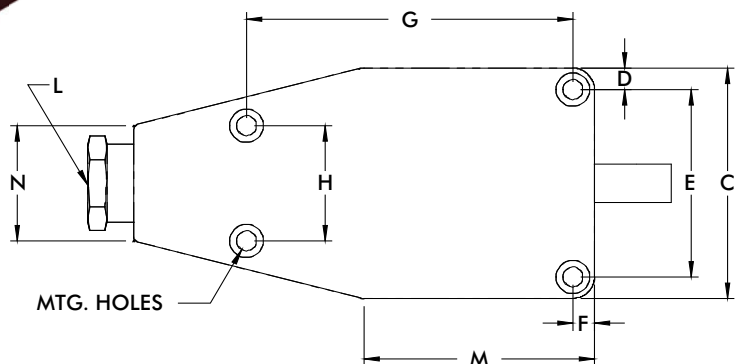
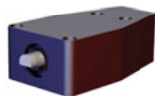


Series 800, 1200 Technical Information, Holding Capacities

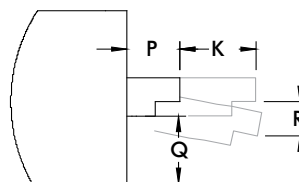
Model	Inlet Pressure bar [PSI]	Exerting Force	Max. Pressure at Max. Mechanical Advantage† bar [PSI]	Clamping Range	Weight	Port Size
800	[70~150] 4,8~10,3	[850~1500 lbf] 3780~6670N	4,8 [70]	[0.09] 2,3	[2.50lb] 1,13kg	1/4 NPT
800-E		[650~1200 lbf] 2890~5340N		[0.16] 4,0		
1200 ⓘ		[750~1600 lbf] 3340~7120N		[0.25] 6,4	[4.00lb] 1,81kg	
1200-E ⓘ		[550~1200 lbf] 2450~5340N		[0.38] 9,6		

ⓘ This item is available upon request

Series 800, 1200 Standard Clamp Dimensions

800
800-E


Arm Configuration



Model E

Model	A	B	C	D	E	F	G	H	K	L	M	N	P	Q	R	MNTG HOLES
800	[1.63] 41,4	[4.81] 122,8	[2.72] 69,1	[0.25] 6,4	[2.21] 56,1	[0.25] 6,4	[3.13] 79,5	[1.19] 30,2	[0.50] 12,7				-	[0.59] 15,0	[0.09] 2,3	[0.26] 6,6
800-E										1/4 NPT			[0.50] 12,7		[0.16] 4,1	
1200													-		[0.25] 6,4	
1200-E													[0.69] 17,5	16	[0.38] 9,7	

Series 830 Product Overview

Features:

- Pneumatic version of Model 630 manual straight line action clamp
- Sensor ready for round or T-slot style sensors
- Built-in flow restriction eliminates need for external flow controls

Applications:

- Assembly
- Welding

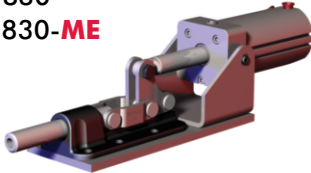
Also Available:

See page 8.1 for spindle accessories

See page 13.1 for sensing options

▲ 830

■ 830-ME



Series 830 Technical Information, Holding Capacities, Standard Clamp Dimensions

Model	Maximum Holding Capacity	Max. Exerting Force @ 5bar [72PSI]	Plunger Travel	Plunger Thread	Weight	Port Size	Spindle Accessory (Not Supplied)
▲ 830	[2500 lbf] 11100 N	[800 lbf] 3582 N	31,8 [1.25]	3/8-16 M10	2,79kg [6.14lb]	1/8 NPT G-1/8	210203
■ 830-ME							210203-M

See Technical Appendix Section for details. Preferred Market: ▲ NA ■ Europe/SA ● Global

Max Cylinder Pressure: 10bar [145psig]

Max Operating Temp: -10°C to 90°C [-14°F to 194°F]

Replacement Seal Kit: 810450-40-1-00

*In no case should the inlet pressure be high enough to create an exerting force that exceeds the clamps' holding capacity.

Sensor Accessories

Round Reed Switch with Quick Disconnect

T-slot Reed Switch with Quick Disconnect

Quick Disconnect 2M Extension Cable

Quick Disconnect 5M Extension Cable

Item Number

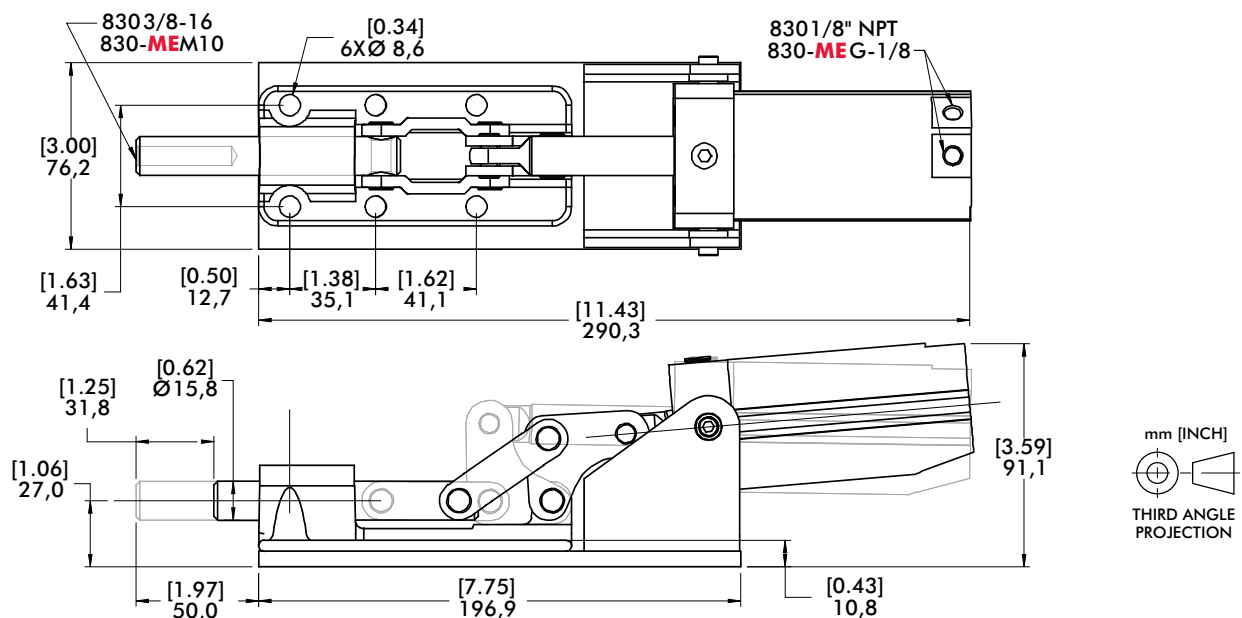
810169

8EA-109-1

CABL-010

CABL-013

See Pneumatic Accessories section for more options



Series 8031 Product Overview

Features:

- Fully enclosed straight line action clamp for the dirtiest environments
- Compact design with high holding capacity
- Sensor ready for round style sensors

Applications:

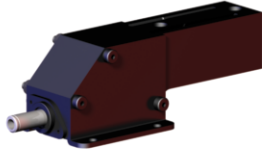
- Assembly
- Welding

Also Available:

See page 8.1 for spindle accessories

See page 13.1 for sensing options

8031 ⓘ



Series 8031 Technical Information, Holding Capacities, Standard Clamp Dimensions

Model	Maximum Holding Capacity	Max. Exerting Force @ 5bar [72PSI]	Plunger Travel	Plunger Thread	Weight	Port Size	Spindle Accessory (Not Supplied)
8031 ⓘ	[2000 lbf] 8900 N	[731 lbf] 3285 N	[0.75] 19,1	M8	[1.17lb] 2,58kg	1/8 NPT	225208-M

See Technical Appendix Section for details. ⓘ This item is available upon request

Max Cylinder Pressure: 10bar [145psig]***Max Operating Temp:** -10°C to 90°C [-14°F to 194°F]

*In no case should the inlet pressure be high enough to create an exerting force that exceeds the clamps' holding capacity.

Sensor Accessories

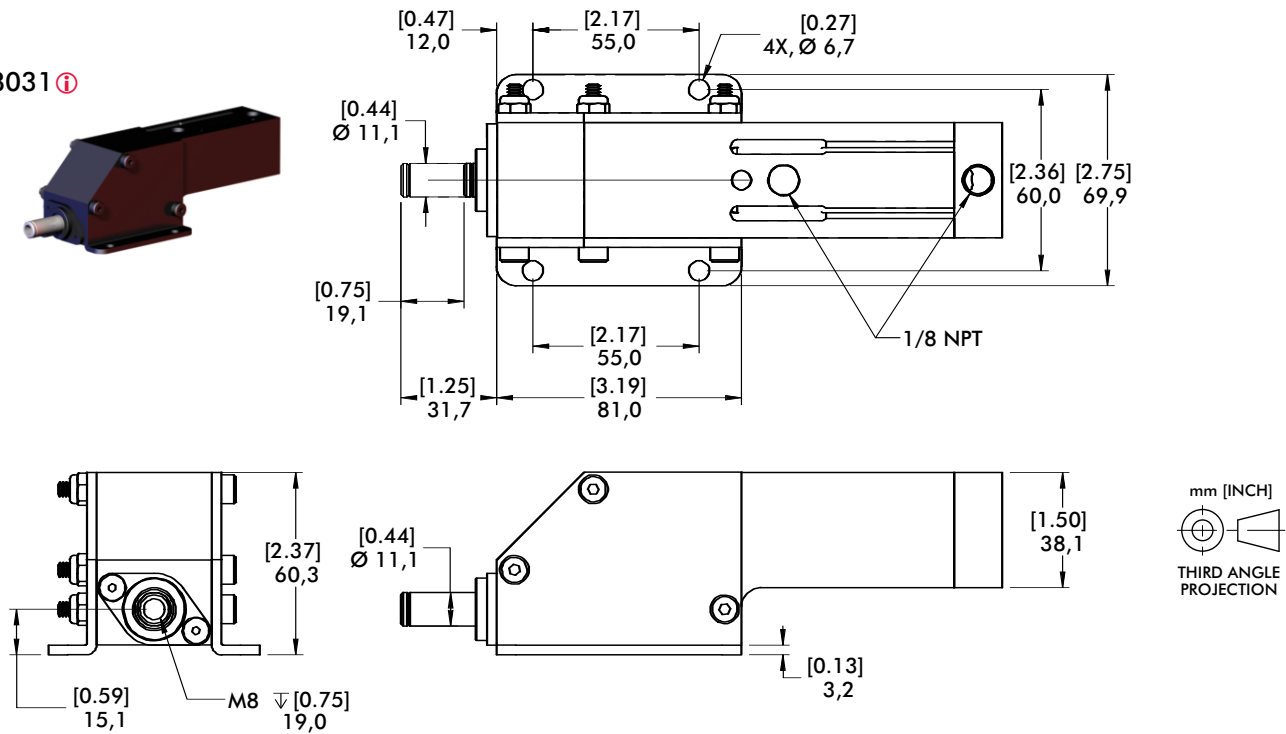
Item Number

Round Reed Switch with Quick Disconnect	810169
Quick Disconnect 2M Extension Cable	CABL-010
Quick Disconnect 5M Extension Cable	CABL-013

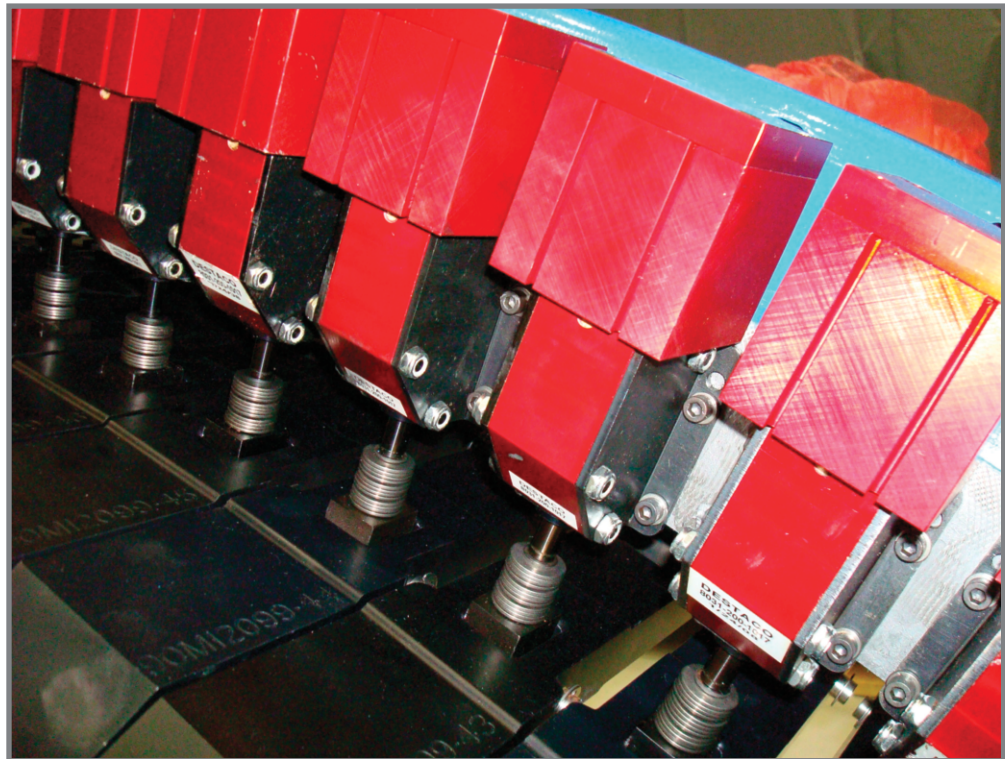
See Pneumatic Accessories section for more options

Series 8031 Standard Clamp Dimensions

8031 ⓘ



Model 8031
shown being used
in a stir friction
welding fixture



Series 803 Product Overview

Features:

- Pneumatic version of Model 603 manual straight line action clamp
- Sensor ready for round or T-slot style sensors

Applications:

- Assembly
- Welding

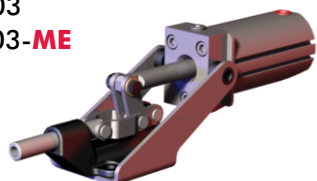
Also Available:

See page 8.1 for spindle accessories

See page 13.1 for sensing options

High temperature version available
Upon Request, add **-HT** to model number. Example: 803-U-**HT**

▲ 803
■ 803-ME



Series 803 Technical Information, Holding Capacities, Standard Clamp Dimensions

Model	Maximum Holding Capacity	Max. Exerting Force @ 5bar [72PSI]	Plunger Travel	Plunger Thread	Weight	Port Size	Spindle Accessory (Not Supplied)
▲ 803	[600 lbf] 2670 N	[675 lbf] 3015 N	[0.75] 19,1	5/16-18	[1.86lb] 0,84kg	1/8 NPT	225208
■ 803-ME				M8		G-1/8	225208-M

See Technical Appendix Section for details. Preferred Market: ▲ NA ■ Europe/SA ● Global

Max Cylinder Pressure: 10bar [145psig]

Max Operating Temp: -10°C to 90°C [-14°F to 194°F]

Replacement Seal Kit: 802450-32-1-00

*In no case should the inlet pressure be high enough to create an exerting force that exceeds the clamps' holding capacity.

Sensor Accessories

Round Reed Switch with Quick Disconnect

T-slot Reed Switch with Quick Disconnect

Quick Disconnect 2M Extension Cable

Quick Disconnect 5M Extension Cable

See Pneumatic Accessories section for more options

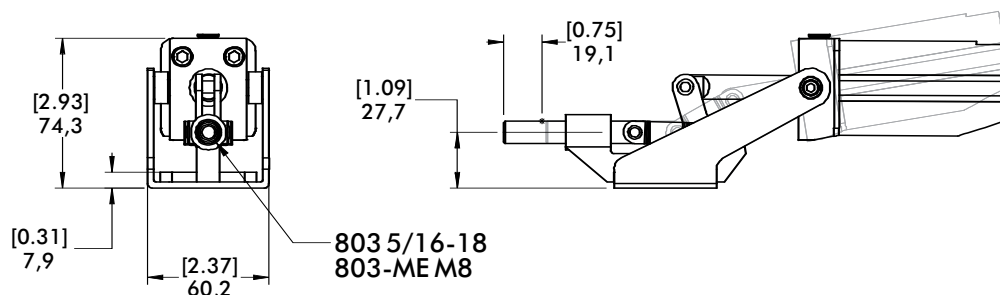
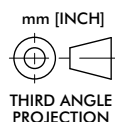
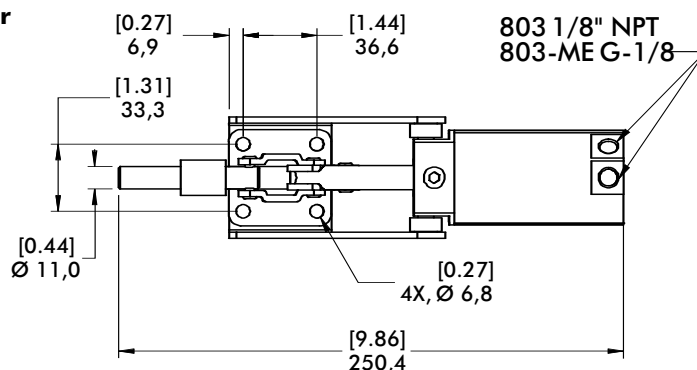
Item Number

810169

8EA-109-1

CABL-010

CABL-013



Series 870-2, 871-2 Standard Pneumatic Clamps

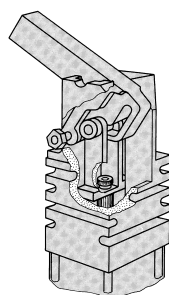
Light duty version for large scale production

Thanks to their design power clamps with the roller and cam principle automatically compensate for workpiece tolerances. When being clamped, the clamp arm of model 870-2 is in the vertical position, whereas the clamp arm of model 871-2 is in the horizontal position. The assembly plate which is included in the scope of delivery allows easy fastening of the clamps.

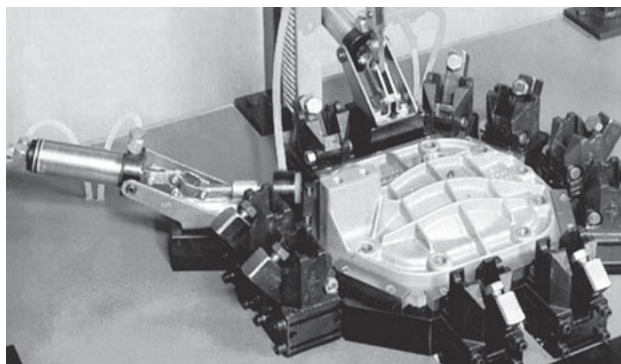
The cylinders are equipped with a magnetic piston for end position sensing. The sensors (BIM-IKE-AP) must be ordered separately, 2 pieces are required.

Standard equipment:

- 1 assembly plate, part no. 870116
- 2 restrictor connections



Roller and cam mechanism of the models 870-2 and 871-2



Power clamp models 871-2 and 803-MF on a pressure test fixture for vehicle gearbox lids



870-2 clamping arm vertical when in clamping position



871-2 clamping arm horizontal when in clamping position

Series 870-2, 871-2 Technical Information

Model	Opening-\	holding torque max. Nm [ft lb]	clamping torque at 5 bar Nm [ft lb]
870-2	112°	260 [192]	60 [44]
871-2	118°	260 [192]	60 [44]

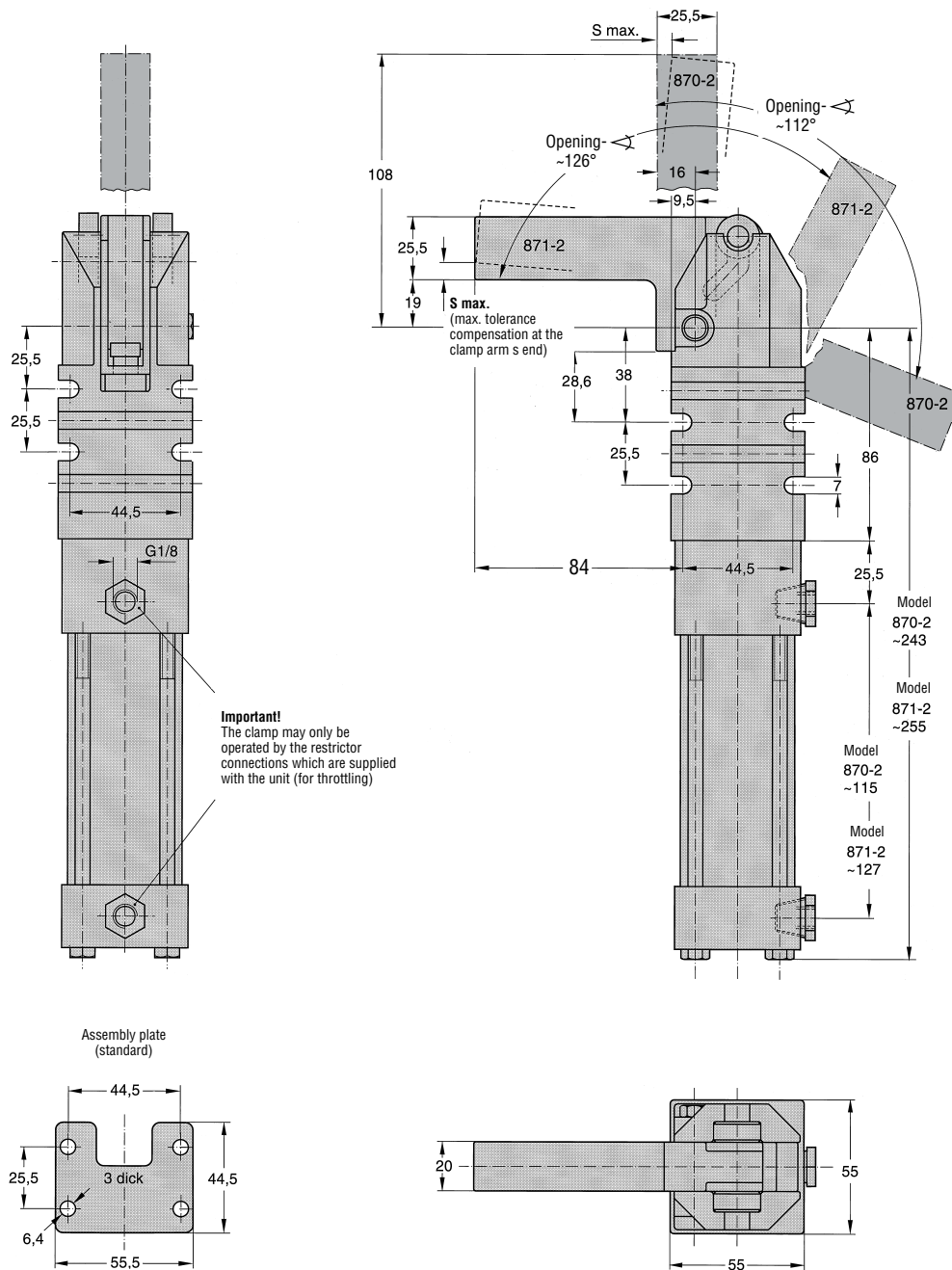
Sensors (order separately)

Part no.	Description	Notes
BIM-IKE-AP	Sensor	2 pieces required



Series 870-2, 871-2 Standard Pneumatic Clamps

Power clamps with the roller
and cam principle



Model	S max. max. tolerance compensation at the clamp arm's end Nm [ft lb]	max. operating pressure bar [psi]	air consumption at 5 bar dm ³ [ft ³]	connection	weight ~ kg [lbs]
870-2	4,5 [3]	10 [145]	0,95 [0.03]	G1/8	3 [6.60]
871-2	3,5 [3]	10 [145]	0,95 [0.03]	G1/8	3 [6.60]

Series 868 Product Overview

Features:

- Hardened pins and bushing at all pivot points for long lifecycle
- Large, solid clamping arm is easily modified to suit application requirements
- Sensor ready for round or T-slot style sensors

Applications:

- Assembly
- Welding

Also Available:

See page 13.1 for sensing options

▲ 868

■ 868-E



Series 868 Technical Information, Holding Capacities

Model	Maximum Holding Capacity		Max. Exerting Force @ 5bar [72PSI]		Weight	Port Size
	Inner	Outer	Inner	Outer		
▲ 868	[4000 lbf] 17800 N	[2400 lbf] 10675 N	[1704 lbf] 7637 N	[800 lbf] 3585 N	[17.0lb] 7,71kg	1/4 NPT
■ 868-E						G-1/4

See Technical Appendix Section for details. Preferred Market: ▲ NA ■ Europe/SA ● Global

Max Cylinder Pressure: 10bar [145psig]*

Max Operating Temp: -10°C to 90°C [-14°F to 194°F]

Replacement Seal Kit: 850450-63-1-00

*In no case should the inlet pressure be high enough to create an exerting force that exceed's the clamps' holding capacity.

Sensor Accessories

Round Reed Switch with Quick Disconnect
T-slot Reed Switch with Quick Disconnect
Quick Disconnect 2M Extension Cable
Quick Disconnect 5M Extension Cable

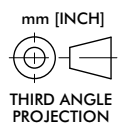
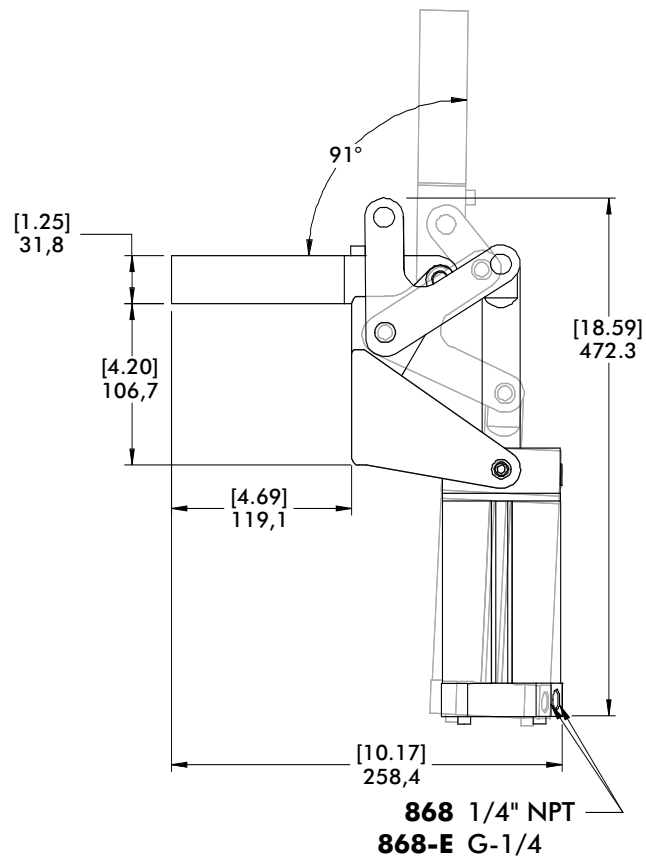
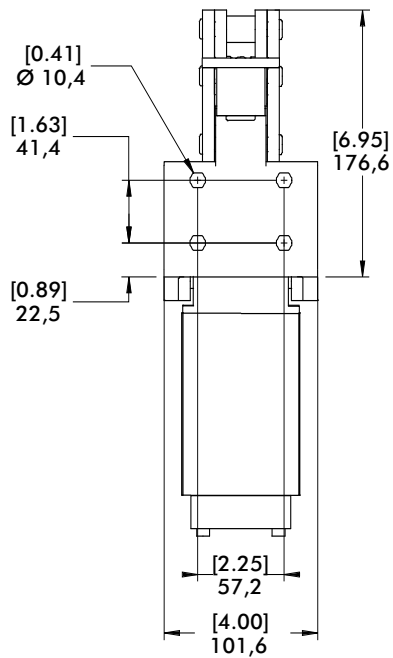
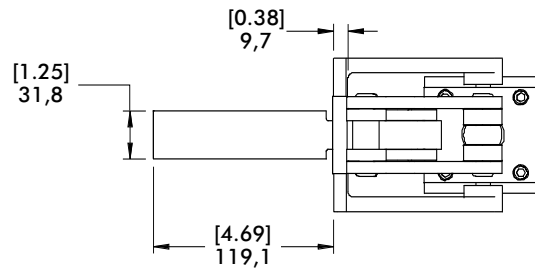
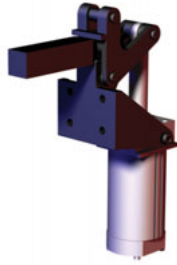
Item Number

810169
8EA-109-1
CABL-010
CABL-013

See Pneumatic Accessories section for more options

Series 868 Standard Clamp Dimensions

▲ 868
■ 868-E



Series 858 Product Overview

Features:

- Hardened pins and bushing at all pivot points for long lifecycle
- Large, solid clamping arm is easily modified to suit application requirements
- Sensor ready for round or T-slot style sensors

Applications:

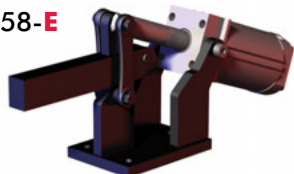
- Assembly
- Welding

Also Available:

See page 13.1 for sensing options

▲ 858

■ 858-E



Series 858 Technical Information, Holding Capacities

Model	Maximum Holding Capacity		Max. Exerting Force @ 5bar [72PSI]		Max. Pressure at Max. Mechanical Advantage† bar [PSI]		Weight	Port Size
	Inner	Outer	Inner	Outer	Inner	Outer		
▲ 858	[4,000 lbf]	[2,000 lbf]	[1,530 lbf]	[800 lbf]	10 [145]	5,3 [77]	[16.11lb]	1/4 NPT
■ 858-E	17800 N	8900 N	6857 N	3585 N			7.31kg	G-1/4

See Technical Appendix Section for details. Preferred Market: ▲ NA ■ Europe/SA ● Global

Max Cylinder Pressure: 10bar [145psig]*

Max Operating Temp: -10°C to 90°C [-14°F to 194°F]

Replacement Seal Kit: 850450-63-1-00

*In no case should the inlet pressure be high enough to create an exerting force that exceeds the clamps' holding capacity.

Sensor Accessories

Round Reed Switch with Quick Disconnect
T-slot Reed Switch with Quick Disconnect
Quick Disconnect 2M Extension Cable
Quick Disconnect 5M Extension Cable

Item Number

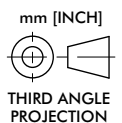
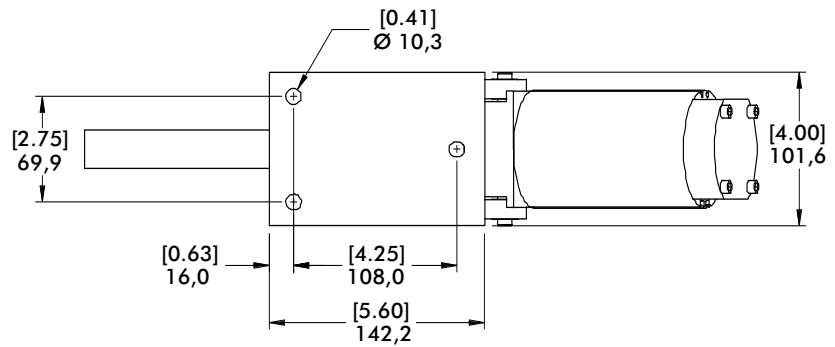
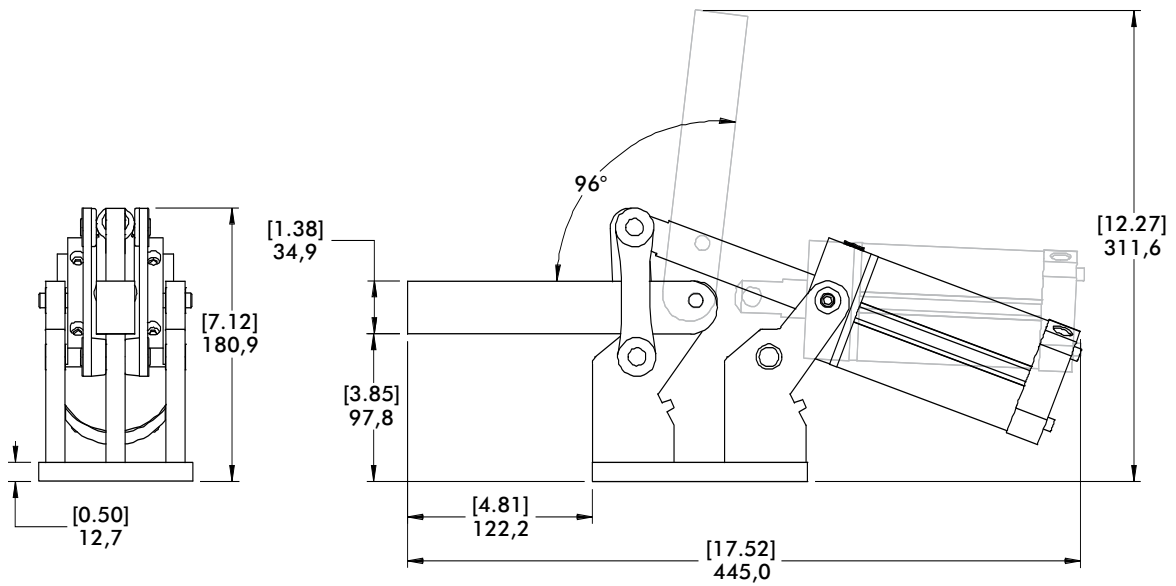
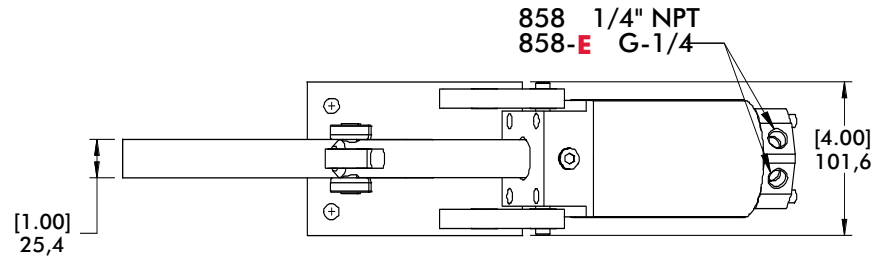
810169
8EA-109-1
CABL-010
CABL-013

See Pneumatic Accessories section for more options

Series 858 Standard Clamp Dimensions

▲ 858

■ 858-E



Series 847 Product Overview

Features:

- Pneumatic version of Series 247 manual clamps
- Switch ready for Ø4mm or 6,5mmX5mm sensors
- Built-in flow restriction eliminates need for external flow controls

Applications:

- Assembly
- Welding

Also Available:

See page 8.1 for spindle accessories

See page 13.1 for sensing options

847-U

847-S



Series 847 Technical Information, Holding Capacities

Model	Maximum Holding Capacity		Max. Exerting Force @ 5bar [72PSI]		Weight	Port Size	Spindle Accessory (Supplied)
	Inner	Outer	Inner	Outer			
847-U	[1000 lbf] 4450 N	[480 lbf] 2135 N	[948 lbf] 4248 N	[450 lbf] 2018 N	[8.93lb] 4,05kg	1/4 NPT	247109 (Flanged Washers)
847-S	[1000 lbf] 4450 N	[650 lbf] 2890 N		[426 lbf] 1912 N		1/4 NPT	247110 (Bolt Retainer)

See Technical Appendix Section for details.

Max Cylinder Pressure: 10bar [145psig]*

Max Operating Temp: -10°C to 90°C [-14°F to 194°F]

Replacement Seal Kit: 847450-50-1-00

*In no case should the inlet pressure be high enough to create an exerting force that exceeds the clamps' holding capacity.

Sensor Accessories

Round Reed Switch with Quick Disconnect

T-slot Reed Switch with Quick Disconnect

Quick Disconnect 2M Extension Cable

Quick Disconnect 5M Extension Cable

Item Number

810169

8EA-109-1

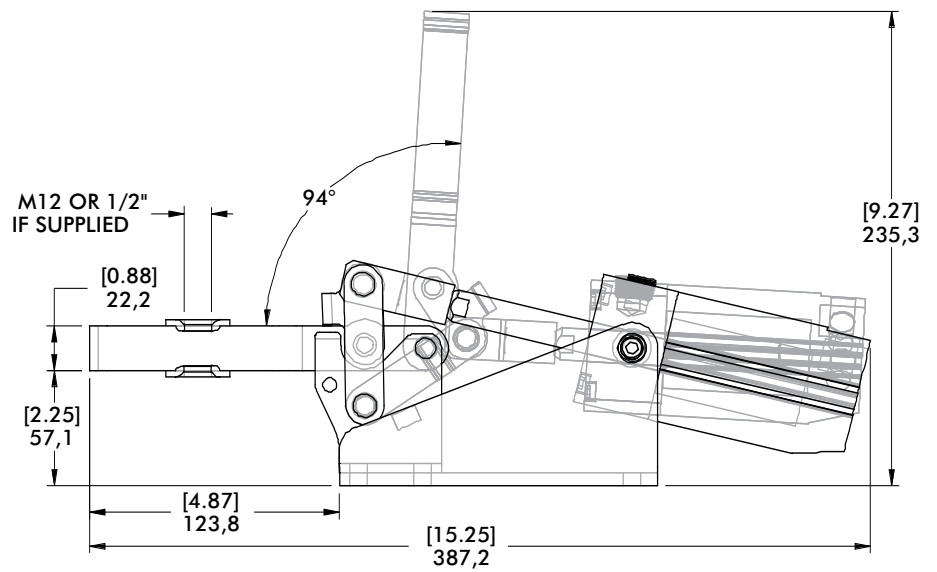
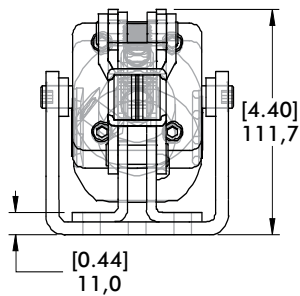
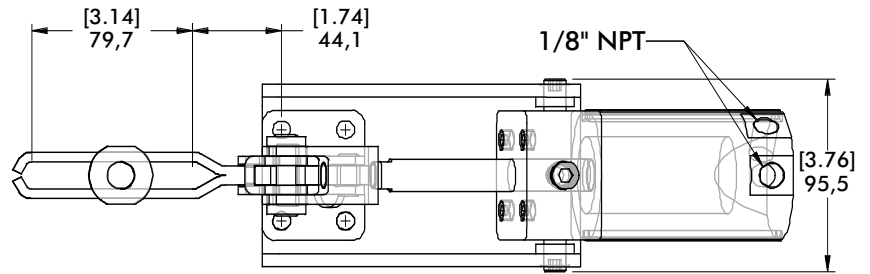
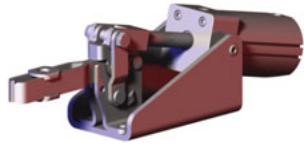
CABL-010

CABL-013

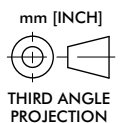
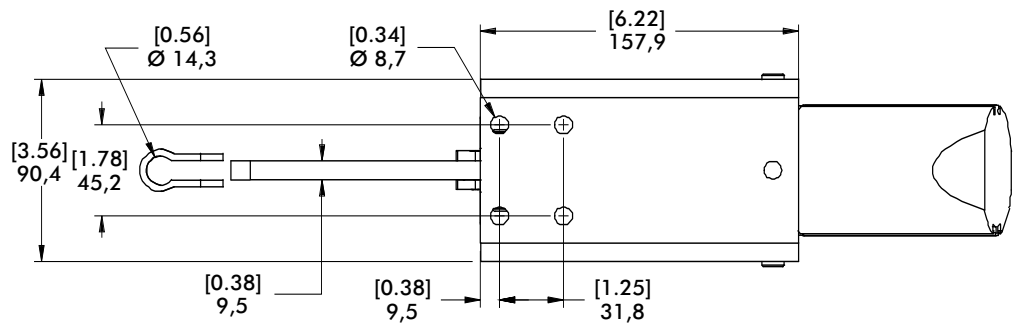
See Pneumatic Accessories section for more options

Series 847 Standard Clamp Dimensions -U/-S

847-U



847-S



Series 817, 827 Product Overview

Features:

- Dual mounting surfaces for maximum flexibility
- Sensor ready for round or T-slot style sensors
- Built-in flow restriction eliminates need for external flow controls

Applications:

- Assembly
- Welding

Also Available:

See page 8.1 for spindle accessories
See page 13.1 for sensing options

▲ 817-U
■ 817-UE



▲ 817-S
■ 817-SE



▲ 827-U
■ 827-UE



▲ 827-S
■ 827-SE



Series 817, 827 Technical Information, Holding Capacities, Mounting Options

Model	Maximum Holding Capacity		Max. Exerting Force @ 5bar [72PSI]		Weight	Port Size	Spindle Accessory (Supplied)
	Inner	Outer	Inner	Outer			
▲ 817-U	[375 lbf] 1670 N		[369 lbf] 1648 N			1/8 NPT	507107 (Flanged Washers)
■ 817-UE		[200 lbf] 890 N		[225 lbf] 1005 N	1,05kg [2.31lb]	G-1/8	225208-M (Spindle)
▲ 817-S	[450 lbf] 2000 N		[360 lbf] 1608 N			1/8 NPT	207107 (Bolt Retainer)
■ 817-SE						G-1/8	
▲ 827-U	[600 lbf] 2670 N	[390 lbf] 1735 N		[309 lbf] 1383 N		1/8 NPT	235106 (Flanged Washers)
■ 827-UE			[491 lbf] 2200 N		2,14kg [4.71lb]	G-1/8	240208-M (Spindle)
▲ 827-S	[700 lbf] 3110 N	[330 lbf] 1470 N		[281 lbf] 1257 N		1/8 NPT	210114 (Bolt Retainer)
■ 827-SE						G-1/8	

See Technical Appendix Section for details. Preferred Market: ▲ NA ■ Europe/SA ● Global

Max Cylinder Pressure: 10bar [145psig]*

Max Operating Temp: -10°C to 90°C [-14°F to 194°F]

Replacement Seal Kit: 817: 807450-32-1-00
827: 810450-40-1-00

*In no case should the inlet pressure be high enough to create an exerting force that exceed's the clamps' holding capacity.

Sensor Accessories

Round Reed Switch with Quick Disconnect
T-slot Reed Switch with Quick Disconnect
Quick Disconnect 2M Extension Cable
Quick Disconnect 5M Extension Cable

Item Number

810169
8EA-109-1
CABL-010
CABL-013

See Pneumatic Accessories section for more options

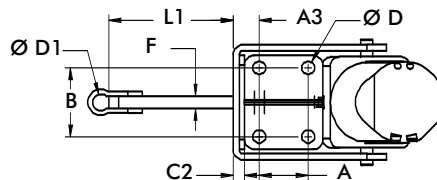
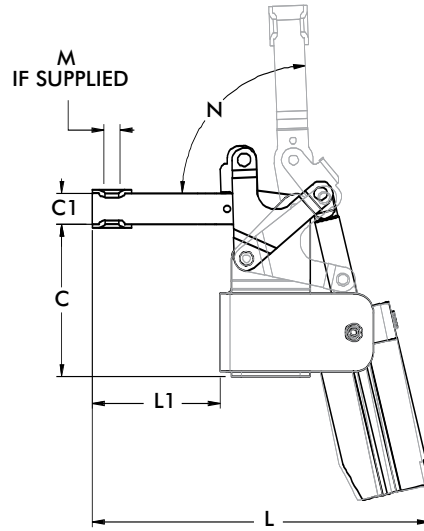
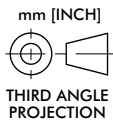
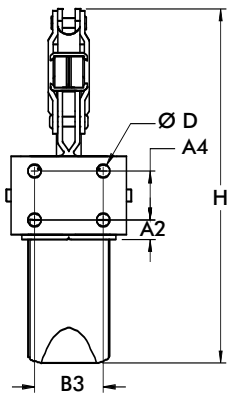
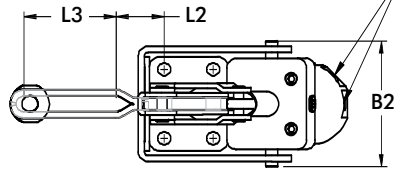
Series 817, 827 Standard Clamp Dimensions

-U/-UE/-S/-SE

▲ 817-U
■ 817-UE

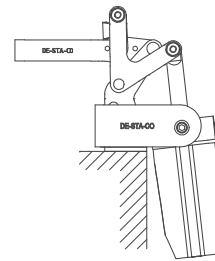
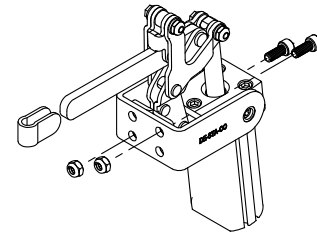


817-U / 817-S / 827-U / 827-S 1/8" NPT
817-UE / 817-SE / 827-UE / 827-SE G-1/8

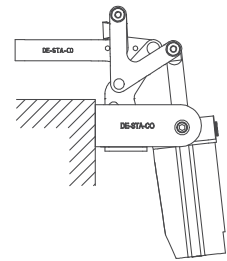


Mounting Options:

Use two bolts in the "side" mounting holes, to secure mounting bracket, when "top" mounting.



Top Mounting



Side Mounting

Model	A	A2	A3	A4	B	B2	B3	C	C1	C2	C3	C4
817-U												
817-UE	[0.63]	[0.44]	[0.60]	[0.63]	[1.00]	[2.44]	[1.00]	[2.69]	[0.63]	[0.12]	[1.25]	[1.31]
817-S	16	11,2	15,1	16	25,4	62	25,4	68,3	16	3,1	31,8	33,3
817-SE												
827-U												
827-UE	827-U	[1.25]	[0.50]	[0.66]	[1.25]	[1.76]	[3.20]	[3.89]	[0.79]			[1.76]
827-S		31,8	12,7	16,8	31,8	44,7	81,4	98,8	20			44,8
827-SE												
								[3.91]	[0.75]	[0.12]	[2.00]	[1.78]
								99,2	19,1	3,1	50,8	45,3

Model	ØD	ØD1	F	H	L	L1	L2	L3	M	N
817-U										
817-UE	[0.27]	-	-	[7.51]	[6.24]	[2.37]	[0.19]	[1.90]	5/16	95°
817-S	6,7			190,7	158,6	60,3	4,8	48,4	M8	
817-SE		[0.34]	[0.25]		[6.97]	[3.04]	-	-		
		8,7	6,4		175,5	77,2				
827-U										
827-UE	[0.33]	-	-	[9.04]	[8.61]	[3.27]	[1.23]	[2.35]	3/8	88°
827-S	8,4			229,7	218,7	83,1	31,2	59,7	M10	
827-SE		[0.42]	[0.31]		[8.49]	[3.18]	-	-		
		10,7	7,9		215,6	80,7				

Series 812 Product Overview

Features:

- Smallest of the pneumatic hold down series
- Pneumatic version of Model 201-U

Applications:

- Assembly
- Welding

Also Available:

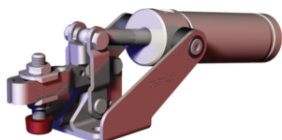
See page 8.1 for spindle accessories

See page 13.1 for sensing options

High temperature version available

Upon Request as Model 812-**U-HT**

812-U



Series 812 Technical Information, Holding Capacities

Model	Maximum Holding Capacity		Max. Exerting Force @ 5bar [72PSI]		Weight	Port Size	Spindle Accessory (Supplied)
	Inner	Outer	Inner	Outer			
812-U	[100 lbf] 440 N	[55 lbf] 245 N	[136 lbf] 613 N	[92 lbf] 413 N	[0.46lb] 0,21kg	M5	305208-M

See Technical Appendix Section for details.

Max. Cylinder Pressure: 17bar [250psig]*

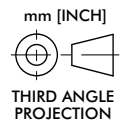
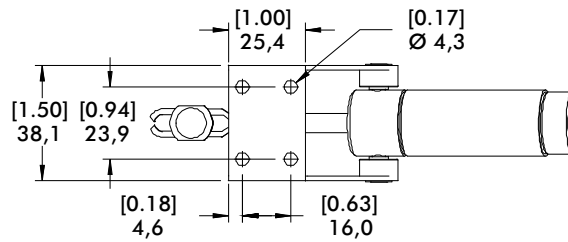
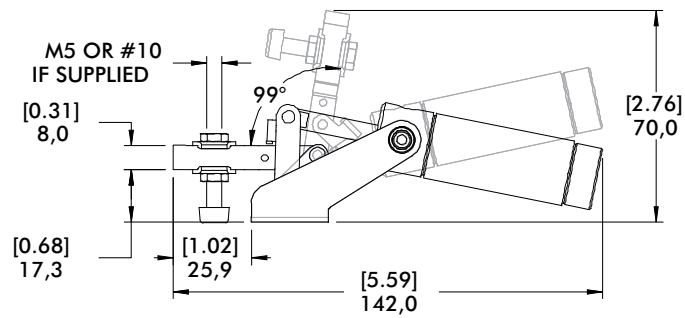
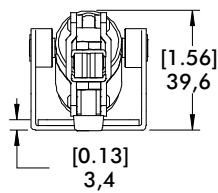
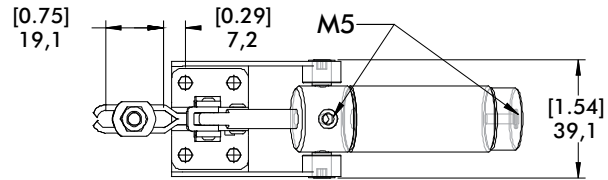
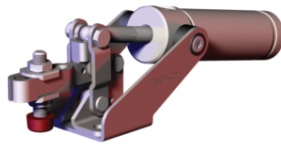
Max. Operating Temp: -23°C to 74°C [-10°F to 165°F]

Optional Sensors: 810156, 810158

*In no case should the inlet pressure be high enough to create an exerting force that exceeds the clamps' holding capacity.

Series 812 Standard Clamp Dimensions

812-U



Series 810 Product Overview

Features:

- Pneumatic version of Series 210 manual clamps
- Sensor ready for round or T-slot style sensors
- Built-in flow restriction eliminates need for external flow controls

Applications:

- Assembly
- Welding

Also Available:

See page 8.1 for spindle accessories
See page 13.1 for sensing options

▲ 810-U

■ 810-UE



▲ 810-S

■ 810-SE



Series 810 Technical Information, Holding Capacities

Model	Maximum Holding Capacity		Max. Exerting Force @ 5bar [72PSI]		Weight	Port Size	Spindle Accessory (Supplied)
	Inner	Outer	Inner	Outer			
▲ 810-U	[600 lbf] 2670 N	[290 lbf] 1290 N	[856 lbf] 3834 N			1/8 NPT	235106 (Flanged Washers)
■ 810-UE				[407 lbf] 1823 N	[4.07lb] 1,85kg	G-1/8	240208-M (Spindle)
▲ 810-S	[750 lbf] 3340 N	[500 lbf] 2220 N	[702 lbf] 3143 N			1/8 NPT	210114 (Bolt Retainer)
■ 810-SE						G-1/8	

See Technical Appendix Section for details. Preferred Market: ▲ NA ■ Europe/SA ● Global

Max Cylinder Pressure: 10bar [145psig]*

Max Operating Temp: -10°C to 90°C [-14°F to 194°F]

Replacement Seal Kit: 810450-40-1-00

*In no case should the inlet pressure be high enough to create an exerting force that exceeds the clamps' holding capacity.

Sensor Accessories

Round Reed Switch with Quick Disconnect
T-slot Reed Switch with Quick Disconnect
Quick Disconnect 2M Extension Cable
Quick Disconnect 5M Extension Cable

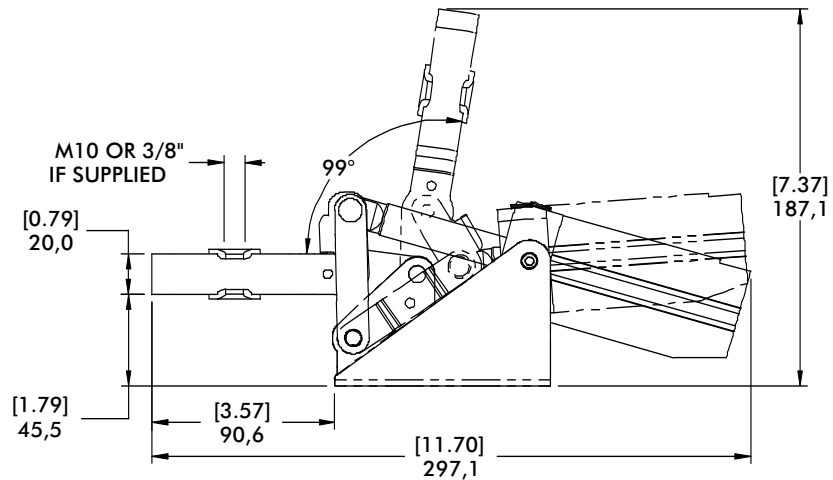
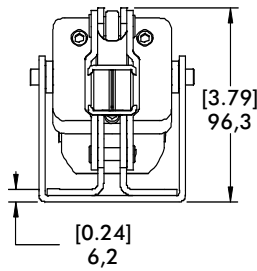
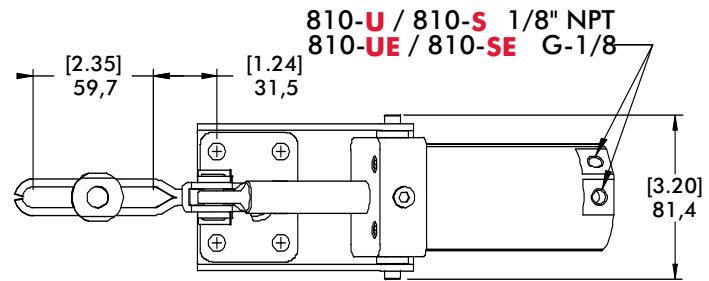
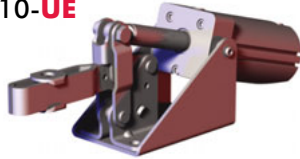
Item Number

810169
8EA-109-1
CABL-010
CABL-013

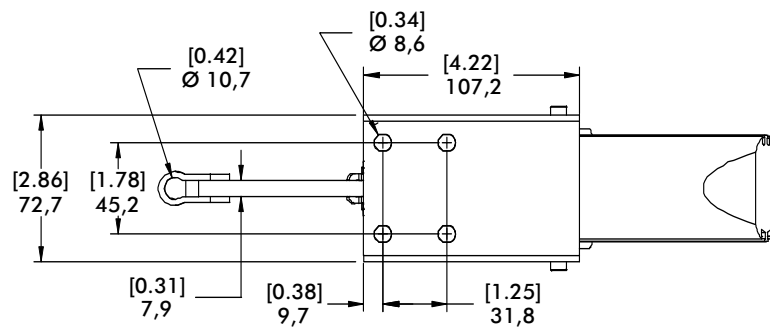
See Pneumatic Accessories section for more options

Series 810 Standard Clamp Dimensions -U/-UE/-S/-SE

▲ 810-U
■ 810-UE



▲ 810-S
■ 810-SE



mm [INCH]
THIRD ANGLE PROJECTION

Series 8021, 8071 Product Overview

Features:

- Enclosed clamp for dirty environments such as spot and MIG welding
- Non-pivoting cylinder can be hard-piped into fixtures
- Sensor ready for round or T-slot style sensors

Applications:

- Assembly
- Welding

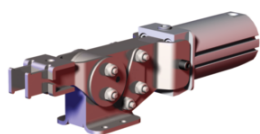
Also Available:

See page 8.1 for spindle accessories

See page 13.1 for sensing options

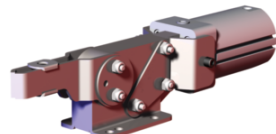
▲ 8021 ⓘ

■ 8021-UE ⓘ



▲ 8071

■ 8071-UE



Series 8021, 8071 Technical Information, Holding Capacities

Model	Maximum Holding Capacity		Max. Exerting Force @ 5bar [72PSI]		Weight	Port Size	Spindle Accessory (Supplied)
	Inner	Outer	Inner	Outer			
▲ 8021 ⓘ	[390 lbf] 1735 N	[255 lbf] 1135 N	[169 lbf] 760 N	[100 lbf] 449 N	[2.30lb] 1,04kg	1/8 NPT G-1/8	8021122 (Flanged Washers)
■ 8021-UE ⓘ							
▲ 8071	[450 lbf] 2000 N	[310 lbf] 1380 N	[496 lbf] 2218 N	[283 lbf] 1267 N	[2.80lb] 1,27kg	1/8 NPT G-1/8	507107 (Bolt Retainer)
■ 8071-UE							

See Technical Appendix Section for details. Preferred Market: ▲ NA ■ Europe/SA ● Global

ⓘ This item is available upon request

Max Cylinder Pressure: 10bar [145psig]*

Max Operating Temp: -10°C to 90°C [-14°F to 194°F]

Replacement Seal Kit: 8021: 802450-32-1-00
8071: 810450-40-1-00

*In no case should the inlet pressure be high enough to create an exerting force that exceed's the clamps' holding capacity.

Sensor Accessories

Item Number

Round Reed Switch with Quick Disconnect

810169

T-slot Reed Switch with Quick Disconnect

8EA-109-1

Quick Disconnect 2M Extension Cable

CABL-010

Quick Disconnect 5M Extension Cable

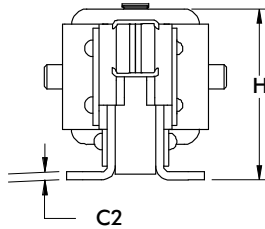
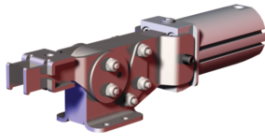
CABL-013

See Pneumatic Accessories section for more options

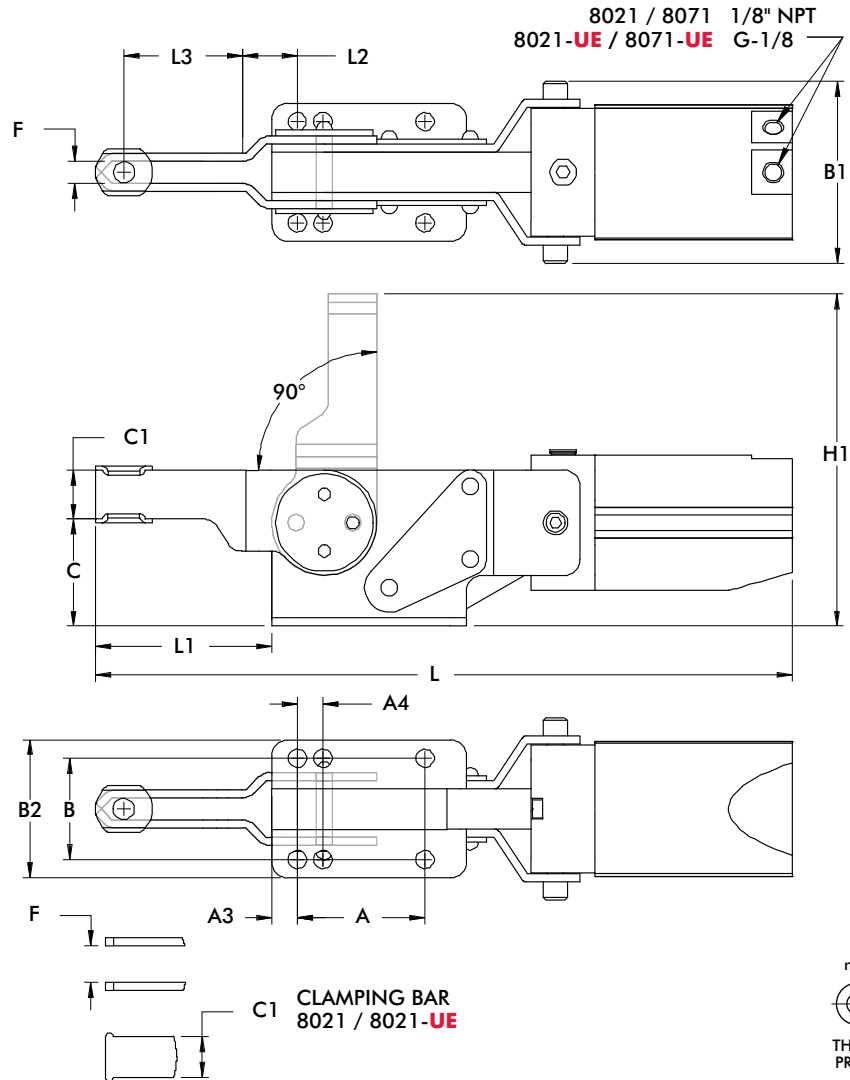
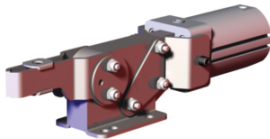
Series 8021, 8071 Standard Clamp Dimensions

8021/8071/-UE

▲ 8021
■ 8021-UE



▲ 8071
■ 8071-UE



Model	A	A1	A3	A4	B	B1	B2	C	C1	C2	ØD	F
8021	[0.79]	[1.97]	[0.47]	-	[1.50]	[2.26]	[1.88]	[1.56]	[0.63]	[0.13]	[0.21]	[0.56]
8021-UE	20	50	12	-	38,2	57,4	47,9	39,6	16	3,2	5,3	14,3
8071	[1.97]	[3.00]	[0.39]	[0.39]	[1.56]	[2.81]	[2.12]	[1.65]	[0.75]	[0.13]	[0.28]	[0.34]
8071-UE	50	76,2	10	10	39,7	71,4	53,9	41,9	19,1	3,2	7,1	8,7

Model	H	H1	L	L1	L2	L3	M
8021	[2.40]	[4.44]	[9.86]	[2.25]	[0.44]	[1.31]	1/4
8021-UE	60,9	112,8	250,4	57,2	11	33,2	M6
8071	[2.63]	[5.12]	[10.74]	[2.72]	[0.40]	[1.83]	5/16
8071-UE	66,9	130	272,9	69	10,1	46,5	M8

Series 807 Product Overview

Features:

- Pneumatic version of Series 207 manual clamps
- Sensor ready for round or T-slot sensors.
- Built-in flow restriction eliminates need for external flow controls

Applications:

- Assembly
- Welding

Also Available:

See page 8.1 for spindle accessories

See page 13.1 for sensing options

High temperature version available
Upon Request, add **-HT** to model number. Example: 807-U**-HT**

▲ 807-U

■ 807-UE

▲ 807-S

■ 807-SE



Series 807 Technical Information, Holding Capacities

Model	Maximum Holding Capacity		Max. Exerting Force @ 5bar [72PSI]		Weight	Port Size	Spindle Accessory (Supplied)
	Inner	Outer	Inner	Outer			
▲ 807-U	[375 lbf] 1670 N	[275 lbf] 1220 N	[576 lbf] 2573 N	[297 lbf] 1327 N	[1.66lb] 0,75kg	1/8 NPT	507107 (Flanged Washers)
■ 807-UE						G-1/8	2007208-M (Spindle)
▲ 807-S	[500 lbf] 2220 N	[260 lbf] 1160 N	[540 lbf] 2412 N	[180 lbf] 804 N		1/8 NPT	207107 (Bolt Retainer)
■ 807-SE						G-1/8	

See Technical Appendix Section for details. Preferred Market: ▲ NA ■ Europe/SA ● Global

Max Cylinder Pressure: 10bar [145psig]*

Max Operating Temp: -10°C to 90°C [-14°F to 194°F]

Replacement Seal Kit: 802450-32-1-00

*In no case should the inlet pressure be high enough to create an exerting force that exceed's the clamps' holding capacity.

Sensor Accessories

Round Reed Switch with Quick Disconnect

T-slot Reed Switch with Quick Disconnect

Quick Disconnect 2M Extension Cable

Quick Disconnect 5M Extension Cable

Item Number

810169

8EA-109-1

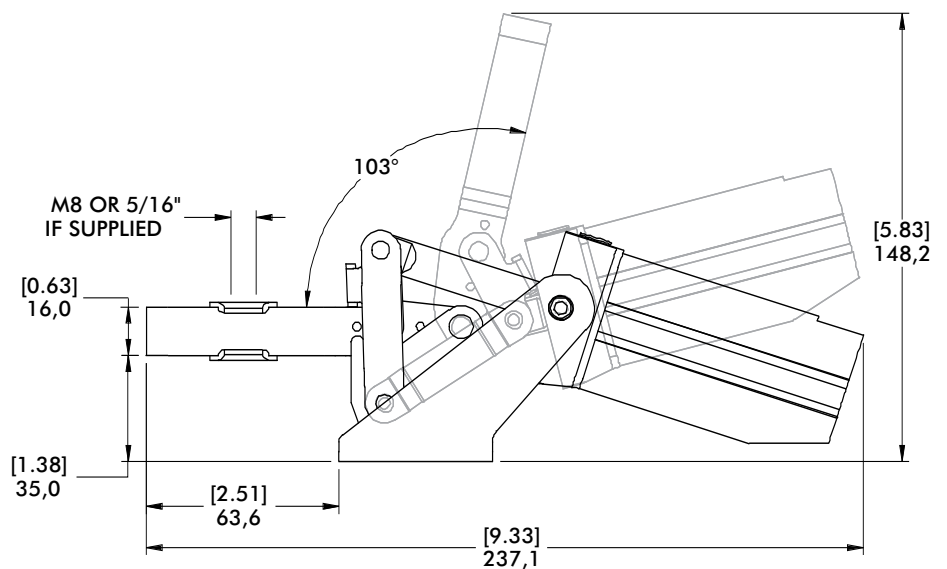
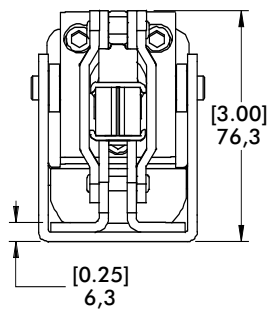
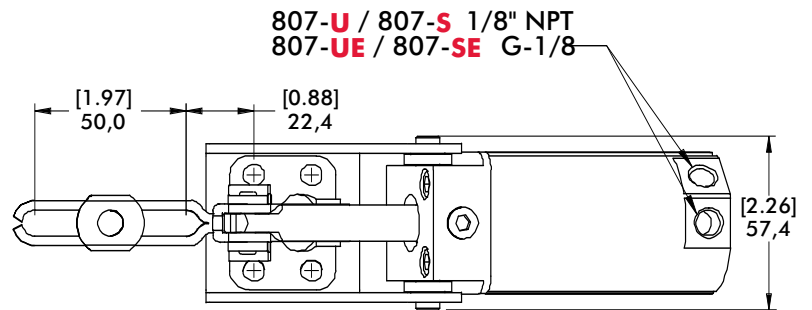
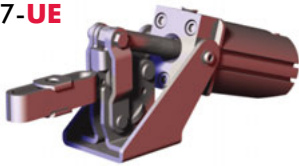
CABL-010

CABL-013

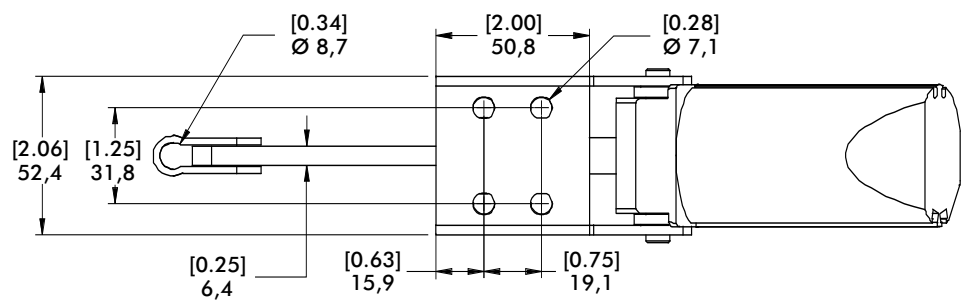
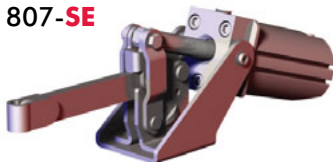
See Pneumatic Accessories section for more options

Series 807 Standard Clamp Dimensions -U/-UE/-S/-SE

▲ 807-U
■ 807-UE



▲ 807-S
■ 807-SE



mm [INCH]
THIRD ANGLE
PROJECTION

Series 802 Product Overview

Features:

- Pneumatic version of Model 202-U
- Sensor ready for T-slot or round sensors

Applications:

- Assembly
- Welding

Also Available:

See page 8.1 for spindle accessories

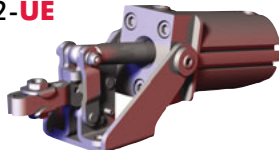
See page 13.1 for sensing options

High temperature version available

Upon Request, add **-HT** to model number. Example: 802-U**-HT**

▲ 802-U

■ 802-UE



Series 802 Technical Information, Holding Capacities

Model	Maximum Holding Capacity		Max. Exerting Force @ 5bar [72PSI]		Weight	Port Size	Spindle Accessory (Supplied)
	Inner	Outer	Inner	Outer			
▲ 802-U	[200 lbf] 890 N	[110 lbf] 490 N	[450 lbf] 2010 N	[234 lbf] 1045 N	[1.60lb] 0,73kg	1/8 NPT G-1/8	202208-M
■ 802-UE							

See Technical Appendix Section for details. Preferred Market: ▲ NA ■ Europe/SA ● Global

Max Cylinder Pressure: 10bar [145psig]*

Max Operating Temp: -10°C to 90°C [-14°F to 194°F]

Replacement Seal Kit: 802450-32-1-00

*In no case should the inlet pressure be high enough to create an exerting force that exceed's the clamps' holding capacity.

Sensor Accessories

Round Reed Switch with Quick Disconnect

T-slot Reed Switch with Quick Disconnect

Quick Disconnect 2M Extension Cable

Quick Disconnect 5M Extension Cable

Item Number

810169

8EA-109-1

CABL-010

CABL-013

See Pneumatic Accessories section for more options

Series 802 Standard Clamp Dimensions -U/-UE

▲ 802-U
■ 802-UE

