

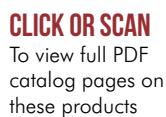
VERTICAL HOLD DOWN CLAMPS

Sizing and Application Chart

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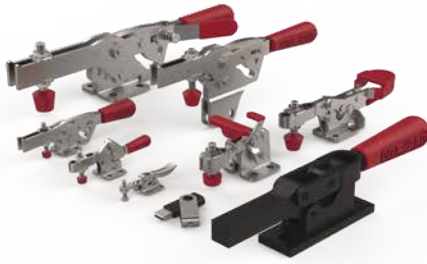
Sizing and Application Chart

● Excellent/High
 ○ Fair/Medium
 ● Poor/Low
 ⊗ Not Recommended

HORIZONTAL HOLD DOWN CLAMPS

Sizing and Application Chart

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Series	Page MC-HHD-#	Max. Holding Capacity N [lbf.]						Height Under Clamping Bar mm [inch]						Overall Height mm [inch]					
		0 to 1000 [0 to 225]	1000 to 2000 [225 to 450]	2000 to 3000 [450 to 675]	3000 to 5000 [675 to 1125]	5000 to 7000 [1125 to 1575]	7000 to 10000 [1575 to 2250]	0 to 10 [0 to 0.39]	10 to 20 [0.39 to 0.79]	20 to 30 [0.79 to 1.18]	30 to 40 [1.18 to 1.57]	40 to 50 [1.57 to 1.97]	50 to 60 [1.97 to 2.36]	0 to 25 [0 to 0.98]	25 to 40 [0.98 to 1.57]	40 to 55 [1.57 to 2.17]	55 to 70 [1.57 to 2.76]	70 to 85 [2.76 to 3.35]	85 to 100 [3.35 to 3.94]
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	217	9	••							•									
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HORIZONTAL HOLD DOWN CLAMPS

Sizing and Application Chart

Overall Length mm [inch]								Overall Width mm [inch]				Suitable Application Areas								Standard Material				Arm Style		Mounting Style				Service Environ- ment																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
50 to 75 [1.97 to 2.95] 75 to 100 [2.95 to 3.94] 100 to 125 [3.94 to 4.92] 125 to 150 [4.92 to 5.91] 150 to 175 [5.91 to 6.89] 175 to 200 [6.89 to 7.87] 200 to 225 [7.87 to 8.86] 225 to 250 [8.86 to 9.84] 250+ [9.84+]								0 to 25 [0 to 0.98] 25 to 40 [0.98 to 1.57] 40 to 55 [1.57 to 2.17] 55 to 70 [1.57 to 2.76]				Welding Assembly Checking Fixtures Machining Woodworking Closures Food Processing Duty Cycle Steel Stainless Steel Color Handles Toggle Lock Plus U-Bar Version Solid Arm Version Straight Base Flanged Base Welded Normal Harsh/Dirty																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

● Excellent/High ○ Fair/Medium ● Poor/Low ⊗ Not Recommended

STRAIGHT LINE ACTION CLAMPS

Sizing and Application Chart

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		Max. Holding Capacity N [lbf.]						Plunger Travel mm [inch]					
Series	Page MC-SLA-#	0 to 1000 [0 to 225]	1000 to 2000 [225 to 450]	2000 to 3000 [450 to 675]	3000 to 5000 [675 to 1125]	5000 to 7000 [1125 to 1575]	7000 to 10000 [1575 to 2250]	10000+ [2250+]	0 to 20 [0 to 0.79]	20 to 40 [0.79 to 1.57]	40 to 60 [1.57 to 2.36]	60 to 80 [2.36 to 3.15]	80 to 105 [3.15 to 4.13]
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STRAIGHT LINE ACTION CLAMPS

Sizing and Application Chart

Overall Height mm [inch]										Overall Length mm [inch]										Overall Width mm [inch]										Suitable Application Areas										Standard Material										Service Environment																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
0 to 40 [0 to 1.57]										40 to 60 [1.57 to 2.36]										60 to 80 [2.36 to 3.15]										80 to 100 [3.15 to 3.94]										100 to 120 [3.15 to 4.72]										120 to 140 [4.72 to 5.51]										140 to 160 [5.51 to 6.30]										160 to 180 [6.30 to 7.87]										180 to 200 [7.87 to 9.45]										200 to 240 [9.45 to 11.02]										240 to 280 [11.02 to 12.60]										280+ [12.60 to 14.18]										300 to 350 [12.60 to 14.18]										350 to 400 [14.18 to 15.75]										400 to 450 [15.75 to 17.32]										450 to 500 [17.32 to 18.89]										500 to 550 [18.89 to 20.46]										550 to 600 [20.46 to 22.03]										600 to 650 [22.03 to 23.60]										650 to 700 [23.60 to 25.17]										700 to 750 [25.17 to 26.74]										750 to 800 [26.74 to 28.31]										800 to 850 [28.31 to 29.88]										850 to 900 [29.88 to 31.45]										900 to 950 [31.45 to 33.02]										950 to 1000 [33.02 to 34.59]										1000 to 1050 [34.59 to 36.16]										1050 to 1100 [36.16 to 37.73]										1100 to 1150 [37.73 to 39.30]										1150 to 1200 [39.30 to 40.87]										1200 to 1250 [40.87 to 42.44]										1250 to 1300 [42.44 to 44.01]										1300 to 1350 [44.01 to 45.58]										1350 to 1400 [45.58 to 47.15]										1400 to 1450 [47.15 to 48.72]										1450 to 1500 [48.72 to 50.29]										1500 to 1550 [50.29 to 51.86]										1550 to 1600 [51.86 to 53.43]										1600 to 1650 [53.43 to 55.00]										1650 to 1700 [55.00 to 56.57]										1700 to 1750 [56.57 to 58.14]										1750 to 1800 [58.14 to 59.71]										1800 to 1850 [59.71 to 61.28]										1850 to 1900 [61.28 to 62.85]										1900 to 1950 [62.85 to 64.42]										1950 to 2000 [64.42 to 65.99]										2000 to 2050 [65.99 to 67.56]										2050 to 2100 [67.56 to 69.13]										2100 to 2150 [69.13 to 70.70]										2150 to 2200 [70.70 to 72.27]										2200 to 2250 [72.27 to 73.84]										2250 to 2300 [73.84 to 75.41]										2300 to 2350 [75.41 to 76.98]										2350 to 2400 [76.98 to 78.55]										2400 to 2450 [78.55 to 80.12]										2450 to 2500 [80.12 to 81.69]										2500 to 2550 [81.69 to 83.26]										2550 to 2600 [83.26 to 84.83]										2600 to 2650 [84.83 to 86.40]										2650 to 2700 [86.40 to 87.97]										2700 to 2750 [87.97 to 89.54]										2750 to 2800 [89.54 to 91.11]										2800 to 2850 [91.11 to 92.68]										2850 to 2900 [92.68 to 94.25]										2900 to 2950 [94.25 to 95.82]										2950 to 3000 [95.82 to 97.39]										3000 to 3050 [97.39 to 98.96]										3050 to 3100 [98.96 to 100.53]										3100 to 3150 [100.53 to 102.10]										3150 to 3200 [102.10 to 103.67]										3200 to 3250 [103.67 to 105.24]										3250 to 3300 [105.24 to 106.81]										3300 to 3350 [106.81 to 108.38]										3350 to 3400 [108.38 to 109.95]										3400 to 3450 [109.95 to 111.52]										3450 to 3500 [111.52 to 113.09]										3500 to 3550 [113.09 to 114.66]										3550 to 3600 [114.66 to 116.23]										3600 to 3650 [116.23 to 117.80]										3650 to 3700 [117.80 to 119.37]										3700 to 3750 [119.37 to 120.94]										3750 to 3800 [120.94 to 122.51]										3800 to 3850 [122.51 to 124.08]										3850 to 3900 [124.08 to 125.65]										3900 to 3950 [125.65 to 127.22]										3950 to 4000 [127.22 to 128.79]										4000 to 4050 [128.79 to 130.36]										4050 to 4100 [130.36 to 131.93]										4100 to 4150 [131.93 to 133.50]										4150 to 4200 [133.50 to 135.07]										4200 to 4250 [135.07 to 136.64]										4250 to 4300 [136.64 to 138.21]										4300 to 4350 [138.21 to 139.78]										4350 to 4400 [139.78 to 141.35]										4400 to 4450 [141.35 to 142.92]										4450 to 4500 [142.92 to 144.49]										4500 to 4550 [144.49 to 146.06]										4550 to 4600 [146.06 to 147.63]										4600 to 4650 [147.63 to 149.20]										4650 to 4700 [149.20 to 150.77]										4700 to 4750 [150.77 to 152.34]										4750 to 4800 [152.34 to 153.91]										4800 to 4850 [153.91 to 155.48]										4850 to 4900 [155.48 to 157.05]										4900 to 4950 [157.05 to 158.62]			

PULL ACTION LATCH CLAMPS

Sizing and Application Chart

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Series	Page MC-PAL-#	Max. Holding Capacity N [lbf.]						Plunger Travel mm [inch]					
		0 to 2000 [0 to 450]	2000 to 4000 [450 to 900]	4000 to 6000 [900 to 1350]	6000 to 10000 [1350 to 2250]	10000 to 20000 [2250 to 4500]	20000+ [4500+]	0 to 50 [0 to 1.97]	50 to 75 [1.97 to 2.95]	75 to 100 [2.95 to 3.94]	100 to 125 [3.94 to 4.92]	125 to 150 [4.92 to 5.91]	150+ [5.91+]
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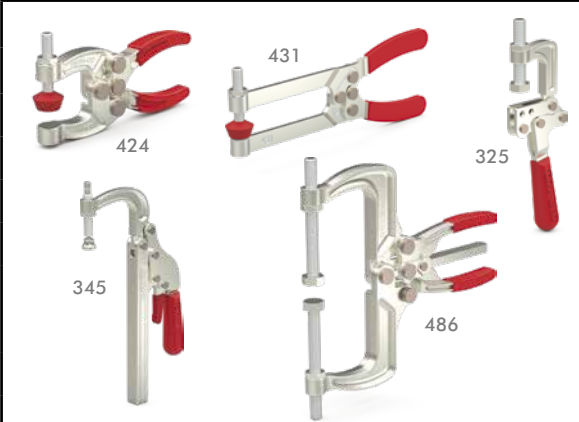
Sizing and Application Chart

● Excellent/High
 ○ Fair/Medium
 ● Poor/Low
 ⊗ Not Recommended

SQUEEZE ACTION PLIER CLAMPS

Sizing and Application Chart

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Max. Holding Capacity N [lbf.]														Maximum Clamping Thickness mm [inch]															
Series	Page MC-SAP-#	Max. Holding Capacity N [lbf.]														Maximum Clamping Thickness mm [inch]													
		0 to 1000 [0 to 225]	1000 to 2000 [225 to 450]	2000 to 3000 [450 to 675]	3000 to 4000 [675 to 900]	4000 to 5000 [900 to 1125]	5000 to 6000 [1125 to 1350]	0 to 10 [0 to 0.39]	10 to 20 [0.39 to 0.78]	20 to 30 [0.78 to 1.18]	30 to 40 [1.18 to 1.57]	40 to 60 [1.57 to 2.36]	60 to 80 [1.57 to 3.15]	80+ [2.26+]	Color Handles														
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MANUAL CLAMPING ACCESSORIES

See pages MC-ACC-1 to 10 for more information

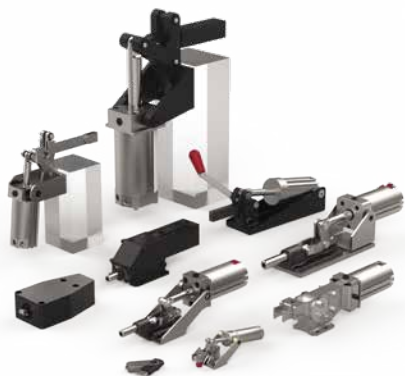


PNEUMATIC TOGGLE CLAMPS

Sizing and Application Chart

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		Max. Holding Capacity N [lbf.]							Max. Exerting Force at 5bar [72PSI] N [lbf.]						
Series	Page MC-PTC-#	0 to 1000 [0 to 225]	1000 to 2000 [225 to 450]	2000 to 3000 [450 to 675]	3000 to 5000 [675 to 1125]	5000 to 7000 [1125 to 1575]	7000 to 10000 [1575 to 2250]	10000+ [2250+]	0 to 1000 [0 to 225]	1000 to 2000 [225 to 450]	2000 to 3000 [450 to 675]	3000 to 4000 [675 to 900]	4000 to 5000 [900 to 1125]	5000 to 6000 [1125 to 1350]	6000 to 8000 [1350 to 1800]
812	1	●							●						
802	3	●								●					
807	5			●							●				
810	7				●							●			
846	9				●							●			
847	11				●								●		
8007	13				●						●				
858	15							●							●
8021	17		●						●						
8071	17		●								●				
817	19		●							●					
827	19				●						●				
868	21														●
803	23			●							●				
8031	24						●					●			
830	25							●				●			
850	26							●						●	
800	27								●						
1200	27								●						





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PNEUMATIC TOGGLE CLAMPS

Sizing and Application Chart

Overall Height mm [inch]										Overall Length mm [inch]										Overall Width mm [inch]										Suitable Application Areas				Service Environ- ment			
0 to 50 [0 to 1.97]										50 to 75 [1.97 to 2.95]										75 to 100 [2.95 to 3.94]										Welding				U-Bar Version			
100 to 125 [3.94 to 4.92]										125 to 150 [4.92 to 5.91]										150 to 175 [5.91 to 6.89]										Assembly				Solid Arm Version			
175 to 200 [6.89 to 7.87]										200 to 225 [7.87 to 8.86]										225 to 250 [8.86 to 9.84]										Light Machining				Normal			
250 to 275 [9.84 to 10.83]										275+ [10.83+]										300 to 400 [11.81 to 15.75]										Duty Cycle				Harsh/Dirty			
400+ [15.75+]										20 to 40 [0.78 to 1.57]										40 to 60 [1.57 to 2.36]										Accommodates Workpiece Variation							
60 to 80 [2.36 to 3.15]										80 to 100 [3.15 to 3.94]										100 to 120 [3.94 to 4.72]																	
●										●										●										○	○	○	○	✓	✓	✓	✓
●										●										●										○	○	○	○	✓	✓	✓	✓
●										●										●										○	○	○	○	✓	✓	✓	✓
●										●										●										○	○	○	○	✓	✓	✓	✓
●										●										●										○	○	○	○	✓	✓	✓	✓
●										●										●										○	○	○	○	✓	✓	✓	✓
●										●										●										○	○	○	○	✓	✓	✓	✓
●										●										●										○	○	○	○	✓	✓	✓	✓
●										●										●										○	○	○	○	✓	✓	✓	✓
●										●										●										○	○	○	○	✓	✓	✓	✓
●										●										●										○	○	○	○	✓	✓	✓	✓
●										●										●										○	○	○	○	✓	✓	✓	✓
●										●										●										○	○	○	○	✓	✓	✓	✓
●										●										●										○	○	○	○	✓	✓	✓	✓

○ Excellent/High ○ Fair/Medium ● Poor/Low ⊗ Not Recommended

PNEUMATIC SWING CLAMPS

Sizing and Application Chart

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 89R40	9522-2	1	•			•			•		•	✓		✓	✓		✓
	9530-2	1		•		•			•		•	✓		✓	✓		✓
	9540-2	1			•		•		•		•	✓		✓	✓		✓
	9550-2	1				•	•		•		•	✓		✓	✓		✓
	89R20	6	•				•		•		•	✓		✓	✓		
	89R32	6		•			•		•		•	✓		✓	✓		
	89R40-010	6			•			•		•		✓		✓	✓		
	89R40-025	6			•			•		•		✓		✓	✓		
	89R50	6				•		•		•		✓		✓	✓		
	89R63	6					•		•		•	✓		✓	✓		
 89B40	89B20	12	•				•		•		•	✓		✓	✓		
	89B32	12		•			•		•		•	✓		✓	✓		
	89B40	12			•		•		•		•	✓		✓	✓		
	89B50	12				•		•		•		✓		✓	✓		
	89B63	12					•	•		•		✓		✓	✓		
 8315	8115/8116	17	•				•		•			✓		✓	✓	✓	
	8315/9316	17			•			•		•		✓		✓	✓	✓	
 89E40	89E20	21	•				•		•		•	✓		✓			
	89E32	21		•			•		•		•	✓		✓			
	89E40	21			•		•		•		•	✓		✓			
	89E50	21				•		•		•		✓		✓			
	89E63	21					•	•		•		✓		✓			
 8215	8015/8016	26	•				•		•		•	✓		✓	✓	✓	
	8215/8216	26		•				•		•		✓		✓	✓	✓	
	8415/8416	26			•			•		•		✓		✓	✓	✓	
 035-1	035-125	30	•				•		•		•	✓		✓			
	035-132	30		•			•		•		•	✓		✓			
	035-140	30			•			•		•		✓		✓			
	035-150	30				•		•		•		✓		✓			
	035-225	30	•				•		•		•		✓		✓		
 035-2	035-232	30		•			•		•		•		✓		✓		
	035-240	30			•		•		•		•		✓		✓		
	035-250	30				•		•		•			✓		✓		
	8725	35	•					•		•			✓		✓	✓	✓
 8732	8732	35		•				•		•			✓		✓	✓	✓
	8740	35			•				•		•		✓		✓	✓	✓
	8750	35							•		•			✓		✓	✓
	6004-SW	40					•			•		•	✓		✓	✓	✓

Color handles available.
See pg. 7 for more info.

Color handles available.
See pg. 7 for more info.



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PNEUMATIC POWER CYLINDERS

See pages MC-PPC-1 to 12 for more information



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HYDRAULIC POWER CLAMPS

See pages MC-HYD-1 to 14 for more information



PNEUMATIC POWER CLAMPS

Sizing and Application Chart

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		Holding Torque at 5 bar Nm					Clamping Torque at 5 bar Nm					Piston Diameter mm						
Series	Page PC-PPC-#	0 to 100	100 to 500	500 to 1000	1000 to 2000	2000 to 4000	0 to 100	100 to 500	500 to 1000	1000 to 2000	2000 to 4000	Less than 25	25	32	40	50	63	80
81L	1	●					●					●						
82L-4	5	●					●					●	●					
82L-2	15	●	●				●	●					●	●	●			
TCC-2	25	●					●								●	●	●	
82M-3E	28		●		●	●		●	●						●	●	●	●
52H-3E	53				●													
870/871	63		●				●								●			
860/861	65			●				●								●		
890/891	65				●			●									●	
1000/1001	65				●				●								●	●
82D	67		●				●	●							●		●	
84A	75	●	●				●	●							●	●		



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PNEUMATIC POWER CLAMPS

Sizing and Application Chart

Material		Weight Kg	Air Consumption per Double Stroke at 5 bar dm³				Suitable Application Areas																	
Aluminum	Steel	0 to 2	2-4	4-6	6-8	More than 8	0 to 0.5	0.50 to 1.00	1.00 to 2.00	More than 2.00	Welding	Assembly	Dirty Environment	End Effectors	Machining	Duty Cycle	Adjustable Opening Angle	Inductive Sensors Available	Dual Arms	Tolerance Compensation	Manual Version Available	Center Arm	Lateral Arms	Toggle Locking
●		●					●				⊗	●	○	●	○	○								✓
●		●					●				●	●	●	●	●		✓	✓			✓	✓	✓	✓
●		●	●				●	●			●	●	●	○	●	○	✓	✓			✓	✓	✓	✓
●		●	●					●	●		●	●	●	●	●	○	✓	✓		✓		✓	✓	✓
●		●	●					●	●		●	●	●	●	●	○	✓	✓			✓	✓	✓	✓
●			●								⊗	●	●	●	●	●	✓	✓			✓	✓	✓	✓
	●		●				●				⊗	●	○	●	●	●						✓		✓
	●		●						●		⊗	●	○	●	●	○						✓		✓
	●				●				●		⊗	●	○	●	●	○						✓		✓
	●					●			●		⊗	●	○	●	●	○						✓		✓
●			●	●				●	●		●	●	●	○	●	●		✓	✓					✓
●		●	●				●	●			●	●	●	●	●	○		✓	✓	✓		✓		

● Excellent/High ○ Fair/Medium ● Poor/Low ⊗ Not Recommended