





























VERTICAL HOLD DOWN CLAMPS

Sizing and Application Chart

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Series	Page MC-VHD-#	Max. Holding Capacity N [lb.f.]							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]	10000+ [2250+]	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 [2.17 to 2.76]	70 to 85 [2.76 to 3.35]	85 to 100 [3.35 to 3.94]	100+ [3.94+]	0 to 50 [0 to 1.97]	50 to 100 [1.97 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 to 275 [9.84 to 10.83]	275+ [10.83+]					
 2002	1		●						●●								●●													
 2007	5			●					●●												●									
 2010	7				●				●●																					
 201	9	●								●							●													
 202	11	●							●●								●●													
 207	15		●●							●								●												
 210	19			●●						●●								●								●●				
 247	21			●						●●																●●				
 267	21				●								●																	●
 5905	25			●						●								●												
 5910	25				●			●		●																			●	
 5915	25					●				●																				●
 5105	27			●						●								●												
 5110	27				●							●																	●	
 528	29			●						●								●●												
 548/578	30					●					●															●●				
 533/535	31				●					●●																●●	●●			
 91090	33	●								●								●												
 317	35	●								●								●												
 527	37			●						●								●												
 7-101	38		●							●								●												
 7-58	38		●							●								●												
 7-59	38			●						●																		●		
 7-60	38				●					●																			●	
 229	39			●						●																			●	
 503	41				●					●			●					●●												
 505	41					●				●●								●●												
 506	41					●							●					●												

Color handles available.
See MC-PRO-7 for info.



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VERTICAL HOLD DOWN CLAMPS

Sizing and Application Chart

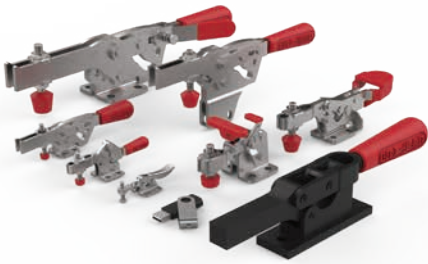
Overall Length mm [inch]		Overall Width mm [inch]		Suitable Application Areas		Standard Material		Arm Style	Mounting Style		Service Environment																								
50 to 75 [1.97 to 2.95]	75 to 100 [2.95 to 3.94]	100 to 125 [3.94 to 4.92]	125 to 150 [4.92 to 5.91]	150 to 175 [5.91 to 6.89]	175 to 200 [6.89 to 7.87]	200 to 225 [7.87 to 8.86]	225 to 250 [8.86 to 9.84]	0 to 20 [0 to 0.78]	20 to 40 [0.78 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+ [3.94+]	Welding	Assembly	Checking Fixtures	Machining	Woodworking	Closures	Food Processing	Duty Cycle	Steel	Stainless Steel	Color Handles	Toggle Lock Plus	Accom. Workpiece Variation	U-Bar Version	Solid Arm Version	Straight Base	Flanged Base	Weld-on Mounting	Normal	Harsh/Dirty		

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






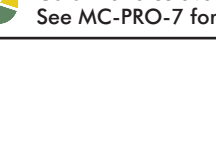







HORIZONTAL HOLD DOWN CLAMPS

Sizing and Application Chart

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Series	Page MC-HHD-#	Max. Holding Capacity N [lbf.]						Height Under Clamping Bar mm [inch]										
		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]

 2013  2017  2027  213  217  227  237  245  205  215  225  235 305 307 309 206 5305 5310 <p> Color handles available. See MC-PRO-7 for info.</p>	2013	1	•					•					•							
	2017	3		•				•						•						
	2027	5			•					•							•			
	213	7		•					•											
	217	9	••						•											
	227	11			•					•							•			
	237	13				•					•						•			
	245	15										•								•
	205	17	•						•											
	215	19		••						•					•					
	225	21			•						•					•				
	235	23				•						•					•			
	305	25	•							•					•					
	307	25		•							•						•			
	309	25				•						•							•	
	206	27	•												•					
5305	29			•						•				•						
5310	29						•				•				•					



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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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Series	Page MC-SLA-#	Max. Holding Capacity N [lbf.]							Plunger Travel 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]	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]

6001

603

606

607

650

95060

5130

5150

604

614

675

Color handles available. See MC-PRO-7 for info.

6001	1	●						●				
601	2	●						●				
6015	3			●				●				
603	5			●					●			
608	5				●					●		
605	7		●						●			
606	8		●						●			
607	9				●					●		
609	10		●						●			
610	11				●					●		
615	12		●						●			
620	13			●					●			
630	14							●		●		
640	15							●				●
650	16							●			●	
95030	17			●					●			
95040	17				●				●			
95050	17							●		●		
95060	17							●		●		
5130	19					●				●		
5131	19			●					●			
5133	19				●						●	
5150	19					●			●			
602	23	●							●			
604	23		●							●		
624	23				●						●	
6002	27		●						●			
6004	27			●						●		
6024	27						●				●	
614	30				●					●		
670	31							●			●	
675	31							●		●		
690	31							●			●	
695	31							●		●		



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STRAIGHT LINE ACTION CLAMPS

Sizing and Application Chart

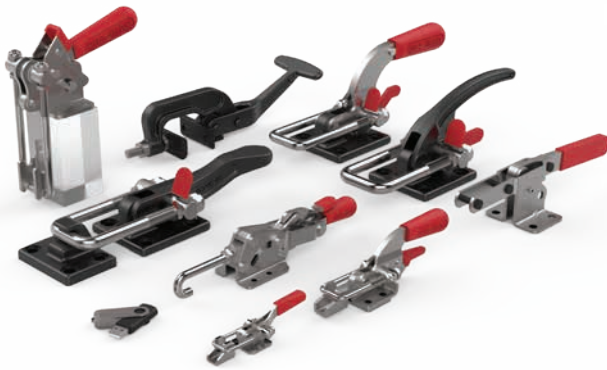
Overall Height mm [inch]							Overall Length mm [inch]							Overall Width mm [inch]							Suitable Application Areas							Standard Material			Service Environment	
0 to 40 [0 to 1.57]	40 to 60 [1.57 to 2.36]	60 to 80 [2.36 to 3.15]	80 to 100 [3.15 to 3.94]	100 to 120 [3.15 to 4.72]	120 to 140+ [4.72 to 5.51+]	60 to 80 [2.36 to 3.15]	80 to 120 [2.36 to 4.72]	120 to 160 [4.72 to 6.30]	160 to 200 [6.30 to 7.87]	200 to 240 [7.87 to 9.45]	240 to 280 [9.45 to 11.02]	280+ [11.02+]	0 to 30 [0 to 1.18]	30 to 45 [1.18 to 1.77]	45 to 60 [1.77 to 2.36]	60 to 75 [2.36 to 2.95]	75 to 90 [2.95 to 3.54]	Welding	Assembly	Checking Fixtures	Machining	Woodworking	Food Processing	Duty Cycle	Steel	Stainless Steel	Color Handles	Toggle Lock Plus	Normal	Harsh/Dirty		
●	●					●							●	●			○	○	○	○	○	○	○	○	✓	✓			✓			
●						●						●					○	○	○	○	○	○	○	○	✓	✓			✓			
●						●							●				○	○	○	○	○	○	○	○	✓	✓			✓			
		●					●							●			○	○	○	○	○	○	○	○	✓	✓	✓	✓	✓			
			●				●							●			○	○	○	○	○	○	○	○	✓	✓	✓	✓	✓			
		●					●							●			○	○	○	○	○	○	○	○	✓	✓	✓	✓	✓			
			●				●							●			○	○	○	○	○	○	○	○	✓	✓	✓	✓	✓			
				●			●							●			○	○	○	○	○	○	○	○	✓	✓	✓	✓	✓			
					●		●							●			○	○	○	○	○	○	○	○	✓	✓	✓	✓	✓			
							●							●			○	○	○	○	○	○	○	○	✓	✓	✓	✓	✓			
								●						●			○	○	○	○	○	○	○	○	✓	✓	✓	✓	✓			
									●					●			○	○	○	○	○	○	○	○	✓	✓	✓	✓	✓			
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														●			○	○	○	○	○	○	○	○	✓	✓	✓	✓	✓			
														●			○	○	○	○	○	○	○	○	✓	✓	✓	✓	✓			
														●			○	○	○	○	○	○	○	○	✓	✓	✓	✓	✓			
														●			○	○	○	○	○	○	○	○	✓	✓	✓	✓	✓			

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

PULL ACTION LATCH CLAMPS

Sizing and Application Chart

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Series	Page MC-PAL-#	Max. Holding Capacity N [lb.f.]						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 [1.497 to 2.95]	75 to 100 [2.95 to 3.94]	100 to 125 [3.94 to 4.92]



3031	1	●						●					
3051	1				●			●					
330	3	●						●					
351	3	●								●			
371	3		●								●		
381	3			●								●	
323	7	●						●					
331	7		●					●					
341	7				●			●					
375	11					●			●				
385	13						●		●				
324	16		●					●					
334	16			●					●				
344	16				●				●				
374	16					●		●					
301	20	●									●		
311	20			●						●			
3011	21				●					●			
353	22				●	●		●					



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PULL ACTION LATCH CLAMPS

Sizing and Application Chart

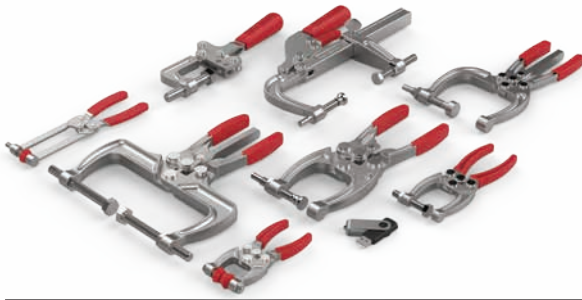
Overall Height mm [inch]						Overall Length mm [inch]						Overall Width mm [inch]						Standard Material			Hook Style			Service Environment														
0 to 50 [0 to 1.97]						50 to 100 [1.97 to 3.94]						100 to 150 [3.94 to 5.91]						Duty Cycle			Fixed			Normal														
50 to 75 [1.497 to 2.95]						150 to 200 [5.91 to 7.87]						200 to 250 [5.91 to 9.84]						Steel			Adjustable U-Hook			Harsh/Dirty														
75 to 100 [2.95 to 3.94]						250 to 300 [5.91 to 11.81]						300 to 350 [11.81 to 13.78]						Stainless Steel			Adjustable J-Hook																	
100 to 125 [3.94 to 4.92]																		Color Handles			Toggle Lock Plus™																	
125 to 150 [4.92 to 5.91]																		Toggle Lock Plus™																				
150+ [5.91+]																		Fixed			Adjustable U-Hook																	
50 to 100 [1.97 to 3.94]																		Steel			Adjustable J-Hook																	
100 to 150 [3.94 to 5.91]																		Stainless Steel			Adjustable U-Hook																	
150 to 200 [5.91 to 7.87]																		Color Handles			Adjustable J-Hook																	
200 to 250 [5.91 to 9.84]																		Toggle Lock Plus™			Adjustable U-Hook																	
250 to 300 [5.91 to 11.81]																		Toggle Lock Plus™			Adjustable J-Hook																	
300 to 350 [11.81 to 13.78]																		Fixed			Adjustable U-Hook																	
0 to 40 [0 to 1.57]																		Duty Cycle			Adjustable J-Hook																	
40 to 50 [1.57 to 1.97]																		Steel			Adjustable U-Hook																	
50 to 60 [1.97 to 2.36]																		Stainless Steel			Adjustable J-Hook																	
60 to 70 [2.36 to 2.76]																		Color Handles			Toggle Lock Plus™																	
70 to 80 [2.76 to 3.15]																		Toggle Lock Plus™			Adjustable U-Hook																	
80 to 90 [3.15 to 3.54]																		Toggle Lock Plus™			Adjustable J-Hook																	
●																		○	✓	✓	✓	✓							✓	✓				✓	✓			
●																		○	✓	✓	✓	✓							✓	✓				✓	✓			
●						●												○	✓	✓	✓	✓							✓	✓				✓	✓			
●												●						○	✓	✓	✓	✓							✓	✓				✓	✓			
●																		○	✓	✓	✓	✓							✓	✓				✓	✓			
●																		○	✓	✓	✓	✓							✓	✓				✓	✓			
●																		○	✓	✓	✓	✓							✓	✓				✓	✓			
●																		○	✓	✓	✓	✓							✓	✓				✓	✓			
●																		○	✓	✓	✓	✓							✓	✓				✓	✓			
●																		○	✓	✓	✓	✓							✓	✓				✓	✓			
●																		○	✓	✓	✓	✓							✓	✓				✓	✓			
●																		○	✓	✓	✓	✓							✓	✓				✓	✓			
●																		○	✓	✓	✓	✓							✓	✓				✓	✓			
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●																		○	✓	✓	✓	✓							✓	✓				✓	✓			
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●																		○	✓	✓	✓	✓							✓	✓				✓	✓			
●																		○	✓	✓	✓	✓							✓	✓				✓	✓			

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

SQUEEZE ACTION PLIER CLAMPS

Sizing and Application Chart

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Series	Page MC-SAP-#	Max. Holding Capacity N [lbf.]					Maximum Clamping Thickness mm [inch]					Color Handles		
		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]
325	1				●					●				✓
345	2				●								●	✓
424	3	●						●						
441	3		●						●					
431	4	●							●					
462	5				●				●					
463	5				●						●			
482	5							●		●				
484	5							●				●		
486	5					●							●	



 Color handles available.
See MC-PRO-7 for info.



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MANUAL CLAMPING ACCESSORIES

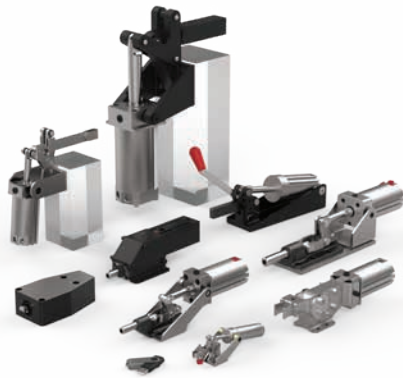
See pages MC-ACC-1 to 10 for more information
























PNEUMATIC TOGGLE CLAMPS

Sizing and Application Chart

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Series	Page	MC-#	Max. Holding Capacity N [lbf.]							Max. Exerting Force at 5bar [72PSI] N [lbf.]						
			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							●						●
	8051	27		●						●					
	8331	27		●						●					
	800*	29								●					
	1200*	29								●					

*Pneumatic Single-Action Hold Down Clamp



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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 Environment																									
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 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 to 275 [9.84 to 10.83]	275+ [10.83+]	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 to 300 [9.84 to 11.81]	300 to 400 [11.81 to 15.75]	400+ [15.75+]	20 to 40 [0.78 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 [3.94 to 4.72]	Welding	Assembly	Light Machining	Duty Cycle	Accommodates Workpiece Variation	Toggle Clamp U-Bar Version	Toggle Clamp Solid Arm Version	Straight Line Action Clamp	Pull Action Latch Clamp J-Hook	Normal	Harsh/Dirty	
●											●								●					●	○	○	○	○	✓					✓	
	●											●							●					○	○	○	○	✓	✓					✓	
		●											●						●					○	○	○	○	✓	✓					✓	
			●											●					●					○	○	○	○	✓	✓					✓	
				●											●				●					○	○	○	○	✓	✓					✓	
					●											●			●					○	○	○	○	✓	✓					✓	
						●										●			●					○	○	○	○	✓	✓					✓	
							●										●		●					○	○	○	○	✓	✓					✓	
								●									●		●					○	○	○	○	✓	✓					✓	
									●								●		●					○	○	○	○	✓	✓					✓	
										●							●		●					○	○	○	○	✓	✓					✓	
											●						●		●					○	○	○	○	✓	✓					✓	

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



† ● The 8051/8331 are also excellent for use in Food Processing, Molding and Door/Lid Closure applications.

PNEUMATIC SWING CLAMPS

Sizing and Application Chart

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Series	Page MC-PSC-#	Bore Size mm [in]						Total Stroke mm [in]						Clamp Stroke mm [in]			Clamping Force N [lbf]			Zero Travel During Rotation	Block Body Style	Threaded Body Style	Flanged Body Style	Sensor Ready	360° Arm Adjustability	Clamp Arm/Spindle Incl.	Manual Operation	Confined Space Operation	
		Less than 20 [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]	60+ [2.36+]	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 50 [1.18 to 1.57]	50 to 60 [1.18 to 1.57]	0 to 10 [0 to 0.39]	10 to 20 [0.39 to 0.78]	20 to 30 [0.78 to 1.18]	0 to 100	100 to 500	500 to 1000	1000 to 2000										
	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					●				●				●		●		✓		✓	✓							✓
	89B20	12	●				●				●				●		●		✓		✓	✓							
	89B32	12		●			●				●				●		●		✓		✓	✓							
	89B40	12			●		●				●				●		●		✓		✓	✓							
	89B50	12				●		●			●				●		●		✓		✓	✓							
	89B63	12					●				●				●		●		✓		✓	✓							
	8115/8116	17	●				●				●				●		●		✓		✓	✓							✓
	8315/9316	17			●		●				●				●		●		✓		✓	✓							✓
	89E20	21	●				●				●				●		●		✓		✓	✓							
	89E32	21		●			●				●				●		●		✓		✓	✓							
	89E40	21			●		●				●				●		●		✓		✓	✓							
	89E50	21				●		●			●				●		●		✓		✓	✓							
	89E63	21					●				●				●		●		✓		✓	✓							
	8015/8016	26	●				●				●				●		●		✓		✓	✓							
	8215/8216	26		●			●				●				●		●		✓		✓	✓							
	8415/8416	26		●			●				●				●		●		✓		✓	✓							
	035-125	30	●				●				●				●		●		✓		✓	✓							
	035-132	30		●			●				●				●		●		✓		✓	✓							
	035-140	30			●		●				●				●		●		✓		✓	✓							
	035-150	30				●		●			●				●		●		✓		✓	✓							
	035-225	30	●				●				●				●		●		✓		✓	✓							
	035-232	30		●			●				●				●		●		✓		✓	✓							
	035-240	30			●		●				●				●		●		✓		✓	✓							
	035-250	30				●		●			●				●		●		✓		✓	✓							
	8725	35	●				●				●				●		●		✓		✓	✓							✓
	8732	35		●			●				●				●		●		✓		✓	✓							✓
	8740	35			●		●				●				●		●		✓		✓	✓							✓
	8750	35					●				●				●		●		✓		✓	✓							✓
	8822	38	●				●				●				●		●		✓		✓	✓							✓
	8832	38		●			●				●				●		●		✓		✓	✓							✓
	8840	38			●		●				●				●		●		✓		✓	✓							✓
	8850	38				●		●			●				●		●		✓		✓	✓							✓
	6002-SW	43		N/A			●				●				●		●		✓		✓	✓							✓
	6004-SW	43		N/A			●				●				●		●		✓		✓	✓							✓

 Color handles available. See MC-PRO-7 for info.



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PNEUMATIC POWER CYLINDERS

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



PNEUMATIC POWER CLAMPS

Sizing and Application Chart

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Series	Page PC-ELC-#	Page PC-PPC-#	Holding Torque at 5 bar Nm [ft-lb]					Clamping Torque at 5 bar Nm [ft-lb]					Piston Diameter mm [in]					
			0 to 100 [0 to 74]	100 to 500 [74 to 369]	500 to 1000 [369 to 738]	1000 to 2000 [738 to 1475]	2000 to 4000 [1475 to 2950]	0 to 100 [0 to 74]	100 to 500 [74 to 369]	500 to 1000 [369 to 738]	1000 to 2000 [738 to 1475]	2000 to 4000 [1475 to 2950]	Less than 25 [0.98]	25 [0.98]	32 [1.26]	40 [1.57]	50 [1.97]	63 [2.48]
92W	1		●				●●											
81L	1	●					●			●								
82L-4	5	●					●			●●								
82L-3E	13	●●					●●			●●				●●				
TCC-2	29	●●					●●			●●						●●		
82M-3E	33	●		●●			●●			●●						●●		●●
52H-3E	59			●														
870/871	71		●						●							●		
860/861	73			●					●							●		
890/891	73				●				●								●	
1000/1001	73					●			●								●●	
82D	75		●						●●							●		●
84A	83	●●							●●							●●		



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PNEUMATIC POWER CLAMPS

Sizing and Application Chart

Material		Weight Kg [lbs]								Suitable Application Areas							Features									
Aluminum	Steel	Electric	Pneumatic	0 to 2 [0 to 4.41]	2 to 4 [4.41 to 8.82]	4 to 6 [8.82 to 13.23]	6 to 8 [13.23 to 17.64]	More than 8 [17.64]	0 to 0,5 [0 to 31]	0,5 to 1,0 [31 to 61]	1,0 to 2,0 [61 to 122]	More than 2,0 [122]	Welding	Assembly	Dirty Environment	End Effectors	Machining	Duty Cycle	Adjustable Opening Angle	Inductive Sensors Available	Dual Arms	Tolerance Compensating	Manual Version Available	Center Arm	Lateral Arms	Toggle Locking
●	●	●	●	●									○	○	○	○	○	○	✓	✓		✓		✓	✓	✓
●			●	●					●				⊗	○	○	○	○	○						✓		✓
●			●	●					●				○	○	○	○	○	○	✓	✓			✓	✓	✓	✓
●			●	●	●				●	●			○	○	○	○	○	○	✓	✓				✓	✓	✓
●			●	●	●				●	●	●		○	○	○	○	○	○	✓	✓		✓		✓	✓	✓
●			●	●	●				●	●	●		○	○	○	○	○	○	✓	✓			✓	✓	✓	✓
	●	●	●	●						●			⊗	○	○	●	○	○						✓		✓
	●	●	●	●							●		⊗	○	○	●	○	○						✓		✓
	●	●	●	●							●		⊗	○	○	●	○	○						✓		✓
●			●	●	●					●	●		○	○	○	○	○	○		✓	✓					✓
●			●	●					●	●			○	○	○	○	○	○		✓	✓	✓		✓		

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