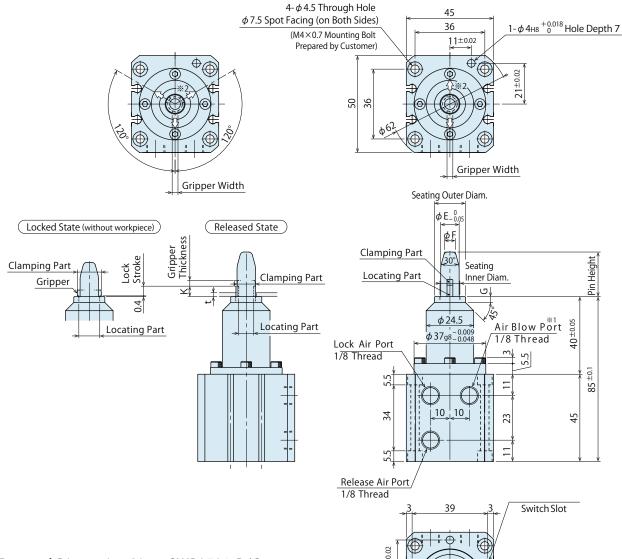


Function **D** 3 FINGER CONTACT DATUM

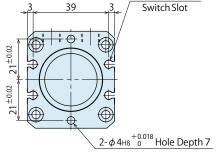
Function C 2 FINGER CONTACT 2-WAY



External Dimension List: SWP0501-D/C

External Dimension List: 3WF 0301-D/C (mm									
Model No.			SWP0501	SWP0501	SWP0501	SWP0501	SWP0501	SWP0501	
			-C-080-□	-D/C-090-□	-D/C-100-□	-D/C-110-□	-D/C-120-□	-D/C-130-□	
	Hole Diameter		8 +0.2	9 +0.2	10 ±0.2	11 ±0.2	12 ±0.2	13 ±0.2	
Workpiece	Thickness	Min.	0.45						
	t	Max.	2.3	3.6	5.5	6	6.5	7	
Pin Height	Pin Height			19	23	23.5	24	24.5	
Pin Outer D	Pin Outer Diam. E			8.8	9.5	10	11	12	
Pin End Dia	m. F		4.5	5.5	5.5	6	7	8	
Clamping	At Released		7.7	8.7	9.3	9.8	10.8	11.8	
Part	At Locked without workpiece		9.8	10.8	11.8	12.8	13.8	14.8	
Locating	At Released		6.1	7.1	7.7	8.2	9.2	10.2	
Part	At Locked without workpiece		8.2	9.2	10.2	11.2	12.2	13.2	
Gripper	Gripper Function D		-	3	3	3.5	3.5	3.5	
Width	Function C		3	3	3.5	3.5	3.5	3.5	
Gripper Thi	Gripper Thickness		2	2	3	3	3	3	
Released Height K		2.7	4	5.9	6.4	6.9	7.4		
Seating Inner Diam.		8.3	9.3	10.3	11.3	12.3	13.3		
Seating Outer Diam.			15	15.5	16	17	18	19	
Seating Part G		2.5	2.5	3	3	3	3		
Lock Stroke		2.3	3.6	5.5	6	6.5	7		

- Since the clamping part is not a floating structure, when clamping a workpiece with two of these products, consider distance accuracy and use them with arrangement shown in the drawing on the right. With out-of specification distance accuracy, workpiece will interfere with the guide part causing damages.





Cumulative accuracy of workpiece hole distance and clamp mounting distance must be as shown in the table below.

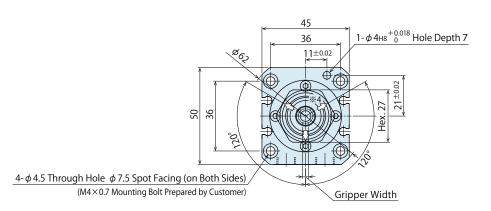
090 ~ 130

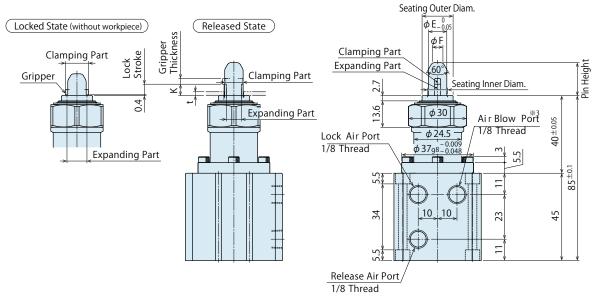


Cumulative accuracy of workpiece hole distance and clamp mounting distance must be as shown in the table below.

Hole Diam.	Distance Accuracy		
080~090	\pm 0.05mm or better		
100	±0.15mm or better		
110~130	±0.40mm or better		

Function **M** 3 FINGER CONTACT FLOATING PIN



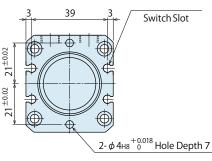


External Dimen	sion Lis	st:SW	P0501-	M (m	m)
	CHIDATAL				

			CHIDOLOG	CHIDOLOG	CHIDOLOG	CWDOEGA		
Model No.			SWP0501	SWP0501	SWP0501	SWP0501		
			-M-100-□	-M-110-□	-M-120-□	-M-130-□		
	Hole Dia	ameter	10 ±0.2	11 ±0.2	12 ±0.2	13 ±0.2		
Workpiece	Thickness	Min.	0.45					
	t	Max.	5.5	6	6.5	7		
Pin Height			17	19	19.5	20		
Pin Outer D	iam. E		9.5	10	11	12		
Pin End Dia	Pin End Diam. F			6	7	8		
Clamping	At Released		9.3	9.8	10.8	11.8		
Part	At Locked without workpiece		11.8	12.8	13.8	14.8		
Locating	At Released		7.7	8.2	9.2	10.2		
Part	At Locked without workpiece		10.2	11.2	12.2	13.2		
Gripper Width			3	3.5	3.5	3.5		
Gripper Thi	ckness		3	3	3	3		
Released H	eight K		5.9	6.4	6.9	7.4		
Seating Inn	er Diam.		10.3	11.3	12.3	13.3		
Seating Ou	ter Diam		16	17	18	19		
Lock Stroke			5.5	6	6.5	7		

- ※3. Continuously supply air pressure to the air blow port.※4. The arrow

 in the drawing shows expanding direction of grippers.



Clamping Force • Expanding Force

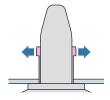
(lbf)

Model No.		SWP	0501	SWP1001		
		L: Locking	0: Non-Locking	L : Locking	0: Non-Locking	
*2 *3 Clamping Force	Air Pressure 75 psi	85	75	135	115	
	Air Pressure 60 psi	70	60	115	90	
	Air Pressure 45 psi	55	45	90	65	
	Air Pressure 0 psi	10	-	20	-	
Expanding Force	Air Pressure 75 psi	230	200	365	305	
	Air Pressure 60 psi	190	160	305	245	
	Air Pressure 45 psi	150	120	245	185	
	Air Pressure 0 psi	30	-	55	-	

Notes:

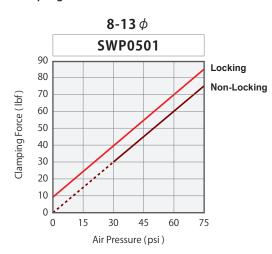
- *2. Clamping force shows the pressing force against the seating surface.
 - The values in the table shows the calculated value when the workpiece thickness t is 0.45mm.
- \$3. When supplying air pressure to the air blow port, a clamping force may decrease due to internal pressure.
- %4. Expanding force shows the force acting perpendicular to the pin's center axis.
 - Expanding force shows the calculated value when the friction coefficient is μ 0.15.
- 1. Depending on the material, thickness and chamfer shape of a workpiece hole, it can be deformed by clamping action, and the specifications will not be satisfied. Make sure to test clamping beforehand and adjust pressure accordingly.

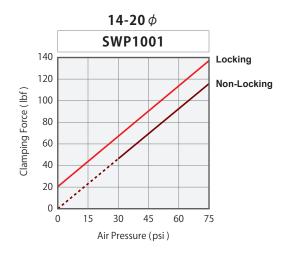




Expanding Force

Clamping Force Curve





Expanding Force Curve

