Compact Slide AXH Series(ϕ 6- ϕ 20)



*With new high rigidity linear guide. *Small auto switches capable. *Piping is possible in 3 directions. *Standard rubber bumper at both ends.

Specifications

Bore Size(mm)	6	10	16	20	
Fluid	Air				
Action	Double acting				
Min. operating pressure	0.15MPa	0.06	ЛРа	0.05MPa	
Max. operating pressure	0.7 MPa				
Ambient and fluid temperature	Without auto switch : $-10 \sim +70^{\circ}$ C (No freezing) With auto switch : $-10 \sim +60^{\circ}$ C				
Piston speed	50 ~ 500 mm/s				
Allowable kinetic energy(J)	0.0125	0.025	0.05	0.1	
*Lubrication	Non-lube				
Cushion	Rubber bumper on both ends				
Stroke length tolerance (mm)	+1.0 0				
Auto switch (Option)	Solid state auto switch: SW -M9				
Connection diameter	M5 x 0.8				





Table Displacement due to Pitch Moment(Reference)

Table Displacement due to Yaw Moment(Reference)

Table Displacement

Table Displacement due to Roll Moment(Reference)



Table Accuracy

Traveling parallelism	Stroke(mm)				
	5 to 30	40 to 60			
	0.05mm	0.1 mm			

Allowable moment(N·m)					
Model	Pitch moment	Yaw moment	Roll moment		
	Мр	My	Mr		
AXH6	0.47	0.39	0.59		
AXH10	0.96	0.82	1.37		
AXH16	1.88	1.59	2.75		
AXH20	3.14	2.75	5.49		

Selection Conditions: Follow the tables below in order to determine selection conditions and choose one selection graph.



*L:Overhang(the distance from the cylinder shaft center to

the load center of gravity).

The direction of L can also be a diagonal direction.(Refer to the drawing at right.)









Graph (1) Max. Speed 100mm/s or Less

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Cylinder shaft center

m

Load center of gravity

Φ

¢



Selection Graph (4) to (12) (Horizontal Mounting)









Auto Switch Mounting

1. When the Compact Slide with the D-A9 or D-M9 auto switch is used, the auto switches could activate unintentionally if the installed distance is less than the dimension shown in below table.



2.In terms of the work load and moment,operate the cylinder below the maximum work load and allowable moment. If the output of the compact slide is applied directly to the table,make sure it is applied along the rod axial line. (Refer to the figure below.)



3.Hold the table when fastening work pieces to it with bolts etc.If the body is held while tightening bolts etc.,the guide section will be subjected to a large moment,and there may be a loss of precision.



Operating Precautions

4.Since the connection between the piston rod and table is a floating mechanism,the table has backlash of 0.15mm or less in the stroke direction.(Refer to the figure below.)

