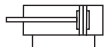


Compact slide cylinder

HLH Series

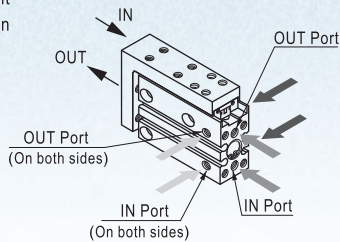


Symbol



Product feature

1. Miniature linear roller ball bearing integrated wise cylinder.
2. With the excellent straightness and non-rotation precision, it is more suitable for precision assembly.
3. Mounting is possible from 4 directions.
4. Piping is possible from 3 directions.



Specification

Bore size(mm)	6	10	16	20
Guide rail width mm	5	7	9	12
Acting type	Double acting			
Fluid	Air(to be filtered by 40 μ m filter element)			
Operating pressure	φ6	0.15~0.7MPa(22~100psi)(1.5~7.0bar)		
	Others	0.06~0.7MPa(9~100psi)(0.6~7.0bar)		
Proof pressure	1.05MPa(150psi)(10.5bar)			
Temperature °C	-20~70			
Speed range mm/s	50~500			
Allowable kinetic energy J	0.008	0.025	0.05	0.1
Stroke tolerance	+1.0 0			
Cushion type	Bumper			
Sensor switches ①	DS1-H□N、DS1-H□P			
Port size	M5×0.8			

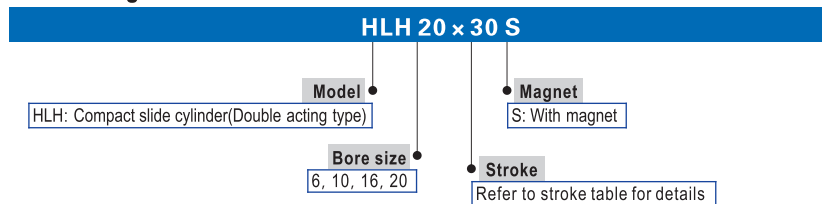
① Sensor switch should be ordered additionally, please refer to P457~480 for detail of sensor switch.

Stroke

Bore size (mm)	Standard stroke (mm)	Max. stroke
6	5 10 15 20 25 30	30
10	5 10 15 20 25 30 40 50	50
16, 20	5 10 15 20 25 30 40 50 60	60

Note) Consult us for non-standard stroke.

Ordering code



Model Selection Method

1. Select the bore size according to the thrust and practicality. Refer to the table on page 327.
2. Determine the selection conditions in order, starting from the upper row in the table below, and choose one of the selection graphs to be used.

Mounting position	Vertical			Horizontal								
Maximum speed(mm/s)	≤ 100	≤ 300	≤ 500	≤ 100			≤ 300			≤ 500		
Load offset l (mm)	-	-	-	50	100	200	50	100	200	50	100	200
Selection graph	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)

L: Overhang (the distance from the cylinder shaft centre to the load centre of gravity)

2.1) The relation between loading and overhang(Selection graphs)

