Series SAH

Air Hydro Converter

Bore Size(mm) : Ø63, Ø100, Ø160

How to Order

SAH 100 – 100
1 2 3

1 Air Hydro Converter
2 Bore Size
3 Effective Oil Level Stroke(㎜)

Caution

1) Install the converter vertically.
2) It is preferred to check that available effective capability must be 1.25 times greater than capability of the actuator.
3) It is preferred to check that oil level speed will be 20mm/s or less with calculating operating velocity.
4) It is preferred to check that compressed air must not be intermixed with the operating oil.
5) It is preferred to check that the bore of the pipes must be large without loss of the pressure.
6) It is preferred to check that the converter must be located higher than the cylinder in order to fill it with oil.
7) It is preferred to make sure that there are no extreme differences in the bore size of the pipes used for preventing air bubbles from forming.
8) It is preferred to prevent sludge from inter mixing with oil, liquid steel is recommended over tape.
9) It is preferred to check that all pipes should be checked for leakage prior to operation.
10) It is preferred to check that use of operating oil is recommended.
11) It is preferred to check that prior to operation please release compressed air and check fluid(oil) levels.

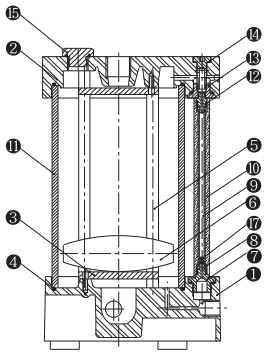
Bore Size (mm)	Effective oil level Stroke											Limited Flow
	50	100	150	200	250	300	400	500	600	700	800	(l/min)
ø 63	150	300	450	600	740	890	1190	1480	1780	-	-	36
ø 100	370	750	1120	1510	1870	2260	3010	3770	4520	-	-	88
ø 160	-	1830	-	3660	-	5490	7320	9150	10980	12810	14640	217

Specifications

Bore Size(mm)		63	100	160
Operating Pressure(MPa)		0 ~ 0.7MPa(0~99psi)		
Max. Operating Pressure		1.0MPa(142psi)		
Ambient and Fluid Temperature(℃)		5 ~ 50		
Fluid		Turbine Oil (40 ~ 100 cSt)		ISO VG 32
Thread (Rc) PT	AIR	3/8	1/2	3/4
	OIL	3/4		

※ Limited Flow : It shows the limit of converter oil level speed(0.2m/s) which can maintain stability of converter oil level.

Construction



No	Description	Port	Note
❶	BODY (1)		
❷	BODY (2)		
❸	COVER		
❹	O-RING	G port	
❺	LOCK BOLT		
❻	FLOATER		
❼	FITTING		
❽	CAP		
❾	Oil gauge HOSE		
❿	TUBE		acrylic
⓫	TUBE		
⓬	FITTING		
⓭	FLARE NUT		
⓮	Oil gauge BOLT		
⓯	CAP NUT		
⓰	OIL CAP		
⓱	Oil level gauge		

Series NBU

B – Unit

PAT

- HIGH SPEED AIR SPRAY THROUGH NOZZLE GENERATES DIFFERENTIAL PRESSURE AT GLASS SURFACE, WHICH INDUCES SUCTION PHENOMENON AT GLASS SURFACE, SO THAT INDUCES STABLE ELEVATION.
- COMFORTABLE LEVELING WITH APPLICATION OF FLEXIBLE PAD, AND UPGRADED ELEVATION WITH EXCELLENT ADHESION TO WORK SURFACE OWING TO TILT (2") FUNCTION
- ADVANTAGEOUS FOR ELEVATION OF HEAVY MATERIALS OWING TO HIGH RESOLUTION ARRANGEMENT WITH PARALLEL SECTION SHAPE AT EXTERNAL MOUNTING PART

How to Order

NBU 10 B – 30

1 2 3 4

1 NBU = Air Blow Unit

2 Nozzle Diameter
10 : Ø1(mm)
25 : Ø2.5 (mm)

3 PAD
B : Blow Type Pad
V : Vacuum Type Pad

4 PAD External Diameter
30 : Ø30 (mm)

Product Specifications

Cylinder specification

Item	Dimension		Remark
	NBU 10	NBU 25	
Fluid	Air		
Elevation Weight	0.3 kgf/1EA		
Maximum Pressure	0.1~0.5 Mpa (1~5 kgf/㎠)		
Flux Consumption	45 ℓ/min	33 ℓ/min	
Elevation Height	0.3~0.5mm		

Series ACU

Centering Unit

Ø65 , Ø100, Ø130

PAT

- MAXIMIZED SHAFT EXTERNAL DIAMETER, INCREASED TRANSVERSE LOADING-RESISTANCE IN CASE OF TABLE LOCKING
- SINCE IT IS LOCKED AS PISTON IS DESCENDING, NO SHAKING OF TABLE
- RESTRAIN VACUUM GENERATION AT CLUTCH PART DURING LOCKING RELEASING, ENHANCED ORIGINAL POINT RESTORATION
- UPGRADED ASSEMBLY PERFORMANCE AND COMPACT EXTERIOR BY CYLINDER-TUBE INTEGRATED STRUCTURE
- POSSIBLE TO SELECT MATERIALS FOR UPPER TABLE
- SUCTION PORT RESERVED TO FORCIBLY EXHAUST PARTICLE GENERATED INSIDE
- USER CONVENIENCE AND SOLIDITY ORIENTED MECHANICAL STRUCTURE

How to Order

ACU 65 – L A S – (30)

1 2 3 4 5 6

1 Centering (Floating) Unit

2 Internal Diameter and Table Maximum Eccentricity
- 65 : Ø65 (15 mm)
- 100 : Ø100 (20 mm)
- 130 : Ø130 (30 mm)

3 Operating Method
- Blank : Double action standard type (Whole types)
- L : Lock & Lift Type (Only for Ø100 and Ø130)
- ※ For lock constant releasing type, please contact us.(single specitication)

4 Connection specification
- Blank : Flange attached (Standard type)
- A : Height adjusting type(Only fo Ø65 Type)

5 Table Material Specification
- Blank : Engineering Plastic
- S : Stainless steel

6 Spacer mount specification (Ø65 height adjusting type is not pertinent)
- Blank : Spacer not mounted
- (30) : Spacer height 30
- Standard : 5~100
- ※ For over 100mm, please contact us.

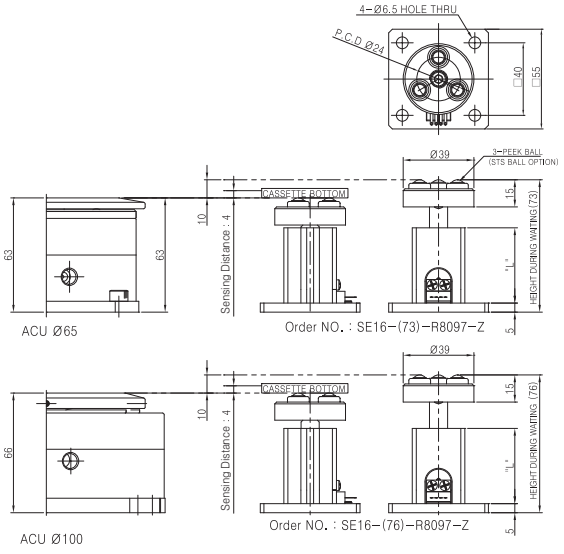
Series SE(Sensing Unit)

Standard Type/Double Acting : Single Rod

Ø16 Y, Z Type

- COMPACT SIZED WITH ACTUALIZATION OF THE SAME HEIGHT TO C-UNIT
- POSSIBLE TO APPLY ALONG C-UNIT HEIGHTS, NO NEED OF ADDITIONAL HEIGHT ADJUSTING SPACER
- IN APPLICATION OF BALL TRANSFER AT UPPER PLATE, UPGRADED WEARING-RESISTANCE AND POSSIBLE TO SELECT BALL MATERIALS ALONG THE PURPOSES

ACY 65 and ACU 100 Applied



Order Form

SE16 - 73 (S) - R8097 - Z

- Type No.
- BALL Material-Blank : PEEK, S : STS
- Height During Waiting(73mm)
- Model Name

Product Specification

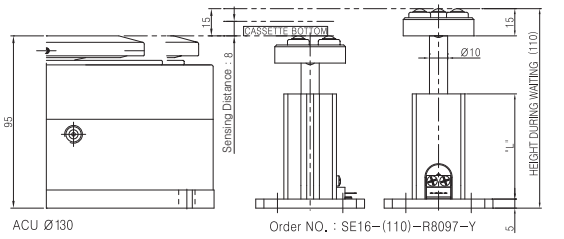
Action	Single Acting(Spring Return)	Stroke	10mm
Sensor	EE-SX673A (OMRON)	SensingStroke	6~10mm (4mm Region)
Height Range (Waiting height)	73~95 mm		

※ Height for order during waiting is selected in dimensions within regulation.

"L" Part Dimension Condition Table

Waiting height	73~82	83~92	93~102
"L"	41.5	48	58

ACU 130 Applied



How to Order

SE16 - 110 (S) - R8097 - Y

- Type No.
- BALL Material-Blank : PEEK, S : STS
- Height During Waiting(110mm)
- Model Name

Specifications

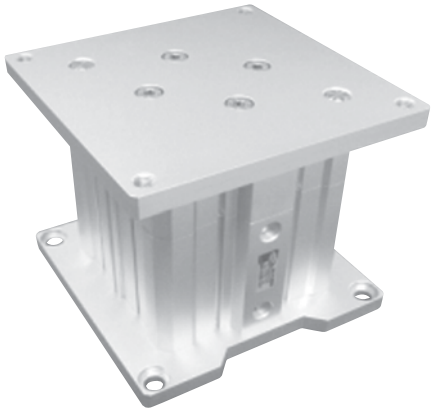
Action	Single Acting(Spring Return)	Stroke	15mm
Sensor	EE-SX673A (OMRON)	Sensing Stroke	8~15mm (7mm Region)
Height Range (Waiting height)	98~147 mm		

※ Height for order during waiting is selected in dimensions within regulation.

"L" Part Dimension Condition Table

Waiting height	98~107	108~117	118~127	128~137	138~147
"L"	58	68	78	88	98

Series ARM CYLINDER



- OWING TO DRAMATICALLY BIGGER PISTON ROD DIAMETER THAN OTHER COMMON CYLINDERS, SHOWING STRONG ROD-SIDE TRANSVERSE LOADING RESISTANCE FOR FORWARD MOTION AND POSSIBLE FOR FORWARD MOTION WITHOUT PISTON PACKING
- LESS BACKWARD MOTION-SIDE VOLUME, CONTRIBUTING TO REDUCE AIR CONSUMPTION
- NO NEED OF ADDITIONAL GUIDE INSTALLATION, INSTALLATION COST SAVING
- MAINLY APPLIED FOR LIFT

How to Order

ARM (K) 125 — 50 S — W8* S

1 2 3 4 5 6 7

1 Actuator Ram Cylinder

2 Piston Rod Rotation
- Blank : None(Without non-rotation function standard type)
- K : Non-rotation type

3 Cylinder Internal Diameter
- Ø63 : 63mm
- Ø80 : 80mm
- Ø100 : 100mm
- Ø125 : 125mm

4 Stroke
- 30 : 30mm
- 50 : 50mm
- 75 : 75mm
- 100 : 100mm
- ※ Spacer installed in every 5mm, possible to produce middle stroke beside standard stroke. Please contact for other stroke cases.

5 Action
- Blank : Double action (standard type)
- S : Single action forward motion (Spring not installed)

6 Auto Switch
- Blank : None(Built in magnet)
- B : Without magnet

Reed Switch
- W4 : Reed switch
- W8H(V) : Micro auto switch, horizontal (vertical) type, 2 wire

Solid State Switch
- W9H(V) : Micro auto switch, horizontal (vertical) type, 2 wire
- W9H(V)N : Micro auto switch, horizontal (vertical) type, 3 wire
- W2P : Built in magnet auto switch(solide state switch)

7 Number of Auto Switches
- Blank : 2 pcs
- S : 1 pc
- N : N pcs